

# Southeast Alabama Regional Multi-Jurisdictional Hazard Mitigation Plan

A HAZARD MITIGATION PLAN FOR AEMA DIVISION B COUNTIES:  
BARBOUR, BUTLER, COFFEE, COVINGTON, CRENSHAW, DALE, GENEVA, HENRY,  
HOUSTON, AND PIKE COUNTIES

## **Barbour County Jurisdictions**

Town of Bakerhill  
Town of Blue Springs  
City of Clayton  
City of Clio  
City of Eufaula  
Eufaula City Schools  
Town of Louisville  
Barbour County Schools

## **Butler County Jurisdictions**

City of Georgiana  
City of Greenville  
Town of McKenzie  
Butler County Schools

## **Coffee County Jurisdictions**

City of Elba  
Elba City Schools  
City of Enterprise  
Enterprise City Schools  
Town of Kinston  
Town of New Brockton  
Coffee County Schools

## **Covington County Jurisdictions**

City of Andalusia  
Andalusia City Schools  
Town of Babbie  
Town of Carolina  
City of Florala  
Town of Gantt  
Town of Heath  
Town of Horn Hill  
Town of Libertyville  
Town of Lockhart  
City of Opp  
Opp City Schools  
Town of Onycha  
Town of River Falls  
Town of Red Level  
Town of Sanford  
Covington County Schools

## **Crenshaw County Jurisdictions**

Town of Brantley  
Town of Dozier  
Town of Glenwood  
City of Luverne  
Town of Petrey  
Town of Rutledge  
Crenshaw County Schools

## **Dale County Jurisdictions**

Town of Ariton  
Town of Clayhatchee  
City of Daleville  
Daleville City Schools  
Town of Grimes  
Town of Level Plains  
Midland City  
Town of Napier Field  
Town of Newton  
City of Ozark  
Ozark City Schools  
Town of Pinkard  
Dale County Schools

## **Geneva County Jurisdictions**

Town of Black  
Town of Coffee Springs  
City of Geneva  
Geneva City Schools  
City of Hartford  
Town of Malvern  
City of Samson  
City of Slocumb  
Geneva County Schools

## **Henry County Jurisdictions**

City of Abbeville  
Town of Haleburg  
City of Headland  
Town of Newville  
Henry County Schools

## **Pike County Jurisdictions**

Town of Banks  
City of Brundidge  
Town of Goshen  
City of Troy  
Troy City Schools  
Troy University  
Pike County Schools

## **Houston County Jurisdictions**

City of Ashford  
Town of Avon  
Town of Columbia  
Town of Cottonwood  
Town of Cowarts  
City of Dothan  
Dothan City Schools  
Town of Gordon  
City of Kinsey  
Town of Madrid  
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## List of Acronyms

ABFE	Advisory Base Flood Elevation	ICC	Increased Cost of Compliance
ACS	American Community Survey	IRS	Internal Revenue Service
ADA	Americans with Disabilities Act	ITP	Independent Third Party
ADR	Alternative Dispute Resolution	LEPC	Local Emergency Planning Committee
AEMA	Alabama Emergency Management Agency	NAP	Non-Insured Crop Disaster Assistance Program
ALDOT	Alabama Department of Transportation	NCEI	National Centers for Environmental Information
ASCE	American Society of Civil Engineers	NEMIS	National Emergency Management Information System
BCA	Benefit-Cost Analysis BCR Benefit-Cost Ratio	NEPA	National Environmental Policy Act
BFE	Base Flood Elevation	NFIA	National Flood Insurance Act
BIA	Bureau of Indian Affairs	NFIF	National Flood Insurance Fund
BLM	Bureau of Land Management	NFIP	National Flood Insurance Program
CBRA	Coastal Barrier Resource Act	NFPA	National Fire Protection Association
CBRS	Coastal Barrier Resource System	NHPA	National Historic Preservation Act
CDBG	Community Development Block Grant	NOAA	National Oceanic and Atmospheric Administration
CFDA	Catalog of Federal Domestic Assistance	NPS	National Park Service
CFR	Code of Federal Regulations	NRCS	Natural Resources Conservation Service
CRS	Community Rating System	NWS	National Weather Service
DHS	Department of Homeland Security	O&M	Operations and Maintenance
DMA	Disaster Mitigation Act of 2000	OMB	Office of Management and Budget
DOB	Duplication of Benefits	OPA	Otherwise Protected Area
DOI	Department of the Interior	PARS	Payment and Reporting System
DOP	Duplication of Programs	PDM	Pre-Disaster Mitigation
DOT	U.S. Department of Transportation	PNP	Private Non-profit
EHP	Environmental Planning and Historic Preservation	POC	Point of Contact
EO	Executive Order	POP	Period of Performance
EOC	Emergency Operations Center	SBA	Small Business Administration
EMA	Emergency Management Agency	SCADC	South Central Alabama Development Commission
EPA	U.S. Environmental Protection Agency	SEI	Structural Engineering Institute
ESA	Endangered Species Act	SF	Standard Form
FCO	Federal Coordinating Officer	SFHA	Special Flood Hazard Area
FEMA	Federal Emergency Management Agency	SFM	Strategic Funds Management
FHWA	Federal Highway Administration	SHMO	State Hazard Mitigation Officer
FIMA	Flood Insurance and Mitigation Administration	SOW	Scope of Work
FIRM	Flood Insurance Rate Map	SRIA	Sandy Recovery Improvement Act of 2013 Stafford Act Robert T. Stafford Disaster Relief and Emergency Assistance Act
FIS	Flood Insurance Study	TB	Technical Bulletin
FMA	Flood Mitigation Assistance	URA	Uniform Relocation Assistance and Real Property Acquisition Act of 1970
FY	Fiscal Year	USACE	U.S. Army Corps of Engineers
GAR	Governor's Authorized Representative	U.S.C.	United States Code
GIS	Geographic Information System GSTF Greatest Savings to the Fund	USDA	U.S. Department of Agriculture
Hazus	Hazards United States	USFA	U.S. Fire Administration
HMA	Hazard Mitigation Assistance	USFS	U.S. Forest Service
HMGP	Hazard Mitigation Grant Program	USFWS	U.S. Fish and Wildlife Service
HUD	U.S. Department of Housing and Urban Development	USGS	U.S. Geological Survey
HVAC	Heating, Ventilation, and Air Conditioning	WUI	Wildland-Urban Interface Area
IBC	International Building Code		

## **Section 1: Hazard Mitigation Plan Introduction**

### **Section Contents**

- 1.1 Plan Scope
- 1.2 Authority
- 1.3 Funding
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### **1.1 Plan Scope**

The Southeast Alabama Regional Multi-Jurisdictional Hazard Mitigation Plan is a plan that details the multitude of hazards that affect the Alabama Emergency Management Agency (AEMA) Division B area. This region includes Barbour, Butler, Coffee, Covington, Crenshaw, Dale, Geneva, Henry, Houston, and Pike Counties and the municipalities, as well as other jurisdictions, within these counties. The first version of this plan, adopted in 2015, included Barbour, Butler, Coffee, Covington, Geneva, Henry, and Houston counties. This 2020 update of the Southeast Alabama Regional Multi-Jurisdictional Hazard Mitigation Plan includes all ten counties. This plan fulfills the requirements set forth by the Disaster Mitigation Act of 2000 (DMA 2000). DMA 2000 requires counties to formulate a hazard mitigation plan to be eligible for mitigation grants made available by the Federal Emergency Management Agency (FEMA).

The Southeast Alabama Regional Multi-Jurisdictional Hazard Mitigation Plan compiles information from each of the ten counties included in AEMA Division B and documents the incorporation of hazard mitigation objectives into the region, as a whole. The AEMA Division B has a diversity of economical and physical development, but many of the hazards affecting the region have similar impacts throughout the area. A regional hazard mitigation plan is able to encapsulate these similarities in risk and vulnerability impact, with regional stakeholders being able to discuss mitigation techniques for these similar impacts.

### **1.2 Authority**

Section 409 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act (public Law 93-228, as amended), Title 44 Code of Federal Regulations, as amended by Part 201 of the Disaster Mitigation Act of 2000 requires that all state and local governments develop a hazard mitigation plan as a condition of receiving federal disaster assistance. These plans should be approved by FEMA and updated every five years.

### **1.3 Funding**

Funding for the Southeast Alabama Regional Multi-Jurisdictional Hazard Mitigation Plan was made available through the Hazard Mitigation Grant Program (HMGP), under Disaster Recovery Declaration 1971 (DR-1971). Supplemental funding was supplied by the county commissions of Barbour, Butler, Coffee, Covington, Crenshaw, Dale, Geneva, Henry, Houston, and Pike Counties, as well as the South Central Alabama Development Commission (SCADC) and the Southeast Alabama Regional Planning and Development Commission (SEARP&DC).

### **1.4 Purpose**

The Southeast Alabama Regional Multi-Jurisdictional Hazard Mitigation Plan is an effort to evaluate and identify all prioritized hazards which may affect AEMA Division B. It presents mitigation strategies that address the hazards identified. This plan is only one of many steps that the jurisdictions in Southeast Alabama will take to protect the welfare of residents by achieving a safer environment that minimizes the risk of disaster impacts to the extent possible.

## **Section 2 Regional Profile**

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- 2.1 Background
- 2.2 Demographics
- 2.3 Business and Industry
- 2.4 Infrastructure
- 2.5 Land Use and Development Trends

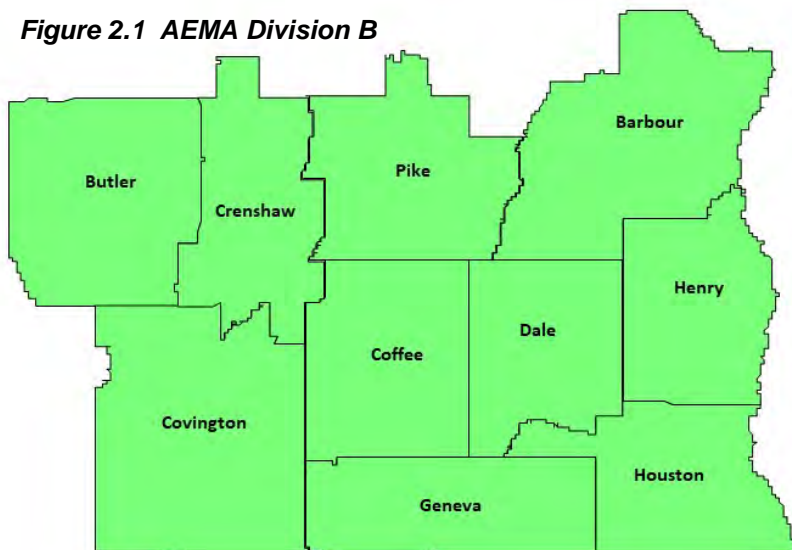
## Section 2 Regional Profile

### 2.1 Background

The planning area is Alabama Emergency Management Agency (AEMA) Division B, one of the seven emergency management divisions within the state. AEMA Division B is located in southeastern Alabama (Figure 2.1). AEMA Division B is comprised of the following ten counties: Barbour, Butler, Coffee, Covington, Crenshaw, Dale, Geneva, Henry, Houston, and Pike, and 70 municipalities within those counties. This version of the multi-jurisdictional hazard mitigation plan covers all ten AEMA Division B counties and their jurisdictions. Information from the entire AEMA Division B is included in this profile.

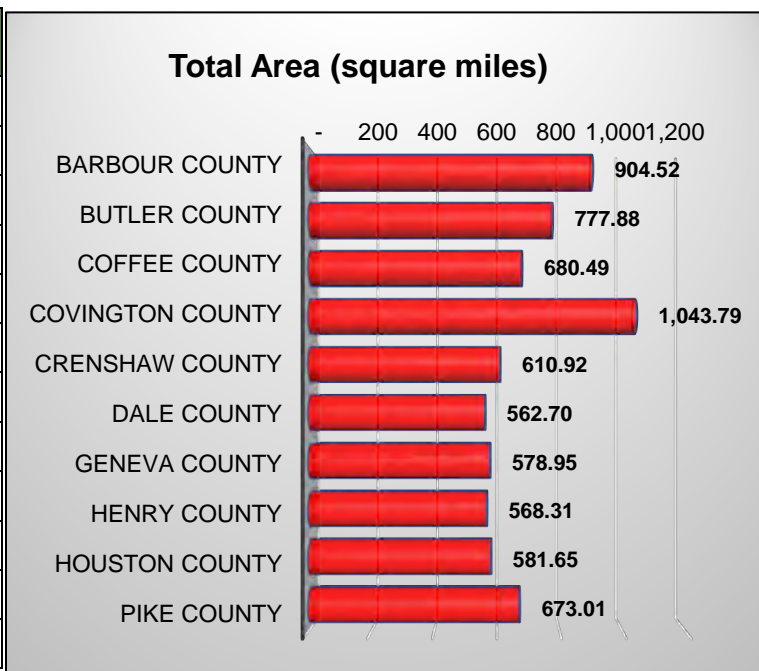
Covington County is the largest county by area with 1,043.79 square miles. The smallest county is Dale County with 562.70 square miles. The total land area of the region is 6,982.22 square miles, which is approximately 13.3 of the state's area, and is presented by county below (Table 2.1).

**Figure 2.1 AEMA Division B**



**Table 2.1 Total Area by County**

County	Total Area (square miles)
Barbour County	904.52
Butler County	777.88
Coffee County	680.49
Covington County	1,043.79
Crenshaw County	610.92
Dale County	562.70
Geneva County	578.95
Henry County	568.31
Houston County	581.65
Pike County	673.01
<b>AEMA Division B</b>	<b>6,982.22</b>
<b>Alabama</b>	<b>52,420.00</b>



Source: University of Alabama, Center for Business and Economic Research, U.S. Census Bureau, Land and Water Area, Latitude and Longitude, Population, and Housing Units for Alabama Counties, 2010

The entire AEMA Division B area is within the East Gulf Coastal Plain physiographic region. Though the designation of a plain commonly refers to a flat landscape, much of the region consists of a mixture of rounded hills and cuestas (a ridge with steep slopes on one side and gentle slopes on the other), with floodplains along the rivers and streams of the area.

There are three main river systems that flow through the region: the Chattahoochee, Choctawhatchee, and Conecuh rivers. The Chattahoochee River flows mainly north-south, separating Barbour, Henry, and Houston counties from Georgia. The Choctawhatchee River flows generally south-southwest from two forks in Barbour County through Dale, Houston, and Geneva counties into Florida. The Pea River is a major tributary to the Choctawhatchee that flows roughly parallel approximately 25 miles to the west, beginning in Bullock County and forming the border between Barbour and Pike counties into Dale, Coffee, and Geneva counties until it empties into the Choctawhatchee at the “Junction” in Geneva. Both the Choctawhatchee and Pea rivers have caused much of the historical riverine flooding issues within the region. The Conecuh River, like the Pea, forms in Bullock County and flows southwest through Pike, Crenshaw, and Covington counties into Florida. The Conecuh River, in Covington County, has two major dams, Gantt and Point ‘A’, which provides hydroelectric generation and recreation opportunities. Occasional damaging flooding has also occurred along the Conecuh, similar to the Choctawhatchee and Pea, though affecting less developed areas.

## 2.2 Demographics

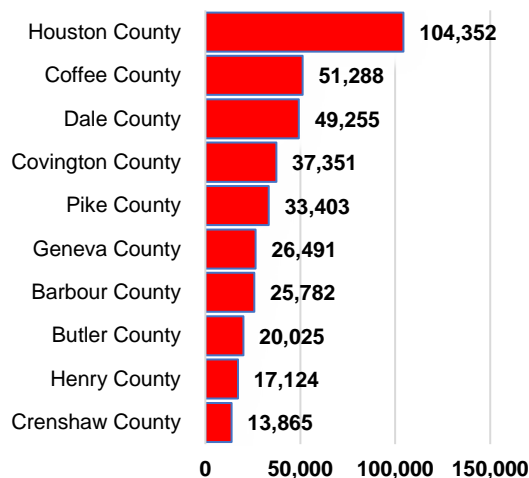
According to the 2010 decennial census, the total population of AEMA Division B was 378,812 persons. The 2018 American Community Survey (ACS) 5-Year Estimates report that the population of Division B increased very slightly (0.03 percent) to 378,936 persons during the 8-year time frame. Houston County, in the southeast part of the region, has the most population, at 104,352 persons in 2018. In fact, the Houston County population is more than twice that of Coffee County, which is the next most populous county, with 51,288 persons. The county with the least population is Crenshaw County, located in the northwest part of the region, with a 2018 population of the 13,906 persons. The population of each jurisdiction in the region, along with population change is provided in Table 2.2

Population growth in the AEMA Division B has been slower than that of the state and nation.

During the 18-year period between 2000 and 2018, the population of the nation increased 18.00 percent, as compared to the state, at 12.29 percent, and the Division B region, at 6.76 percent. In 2000, the Division B region had a population of 354,943 persons, representing 8.19 percent of the state’s population. By 2010, the Division B share of the state’s total population decreased to 7.93 percent; and by 2018, to 7.79 percent. Between 2010 and 2018, the population of Division B only increased 0.03 percent, to 378,936 persons, while the State of Alabama experienced a 1.78 percent

Figure 2.2

### 2018 Population by County



Source: US Census, 2018 American Community Survey 5-Year Estimates, Table B02001: Race

population increase and the nation had a 4.59 percent increase. Between 2000 and 2010, eight counties had population increases, with Coffee, at 14.52 percent, Houston, at 14.37 percent, and Pike, at 11.13 percent, followed by Henry, Geneva, Dale, Crenshaw, and Covington Counties. Between 2010 and 2018, however, only three counties had a population increase. Houston County grew by 2.76 percent, while Coffee County had a population increase of 2.68 percent and Pike County increased by 1.53 percent. Barbour County has suffered the most population loss, with a 5.44 percent decrease between 2000 and 2010, and another 6.10 percent decrease between 2010 and 2018. Butler County also decreased in population with a 2.11 percent loss between 2000 and 2010, and a 4.40 percent decrease between 2010 and 2018.

**Table 2.2 Regional Jurisdiction Population and Population Change, 2000 to 2018**

<b>Jurisdiction</b>	<b>2000 Population</b>	<b>2010 Population</b>	<b>% Change, 2000 - 2010</b>	<b>2018</b>	<b>% Change 2010 - 2018</b>
<b>Barbour County</b>	<b>29,038</b>	<b>27,457</b>	<b>-5.44%</b>	<b>25,782</b>	<b>-6.10%</b>
Town of Baker Hill		279		278	-0.36%
Town of Blue Springs	121	96	-20.66%	95	-1.04%
City of Clayton	1,475	3,008	103.93%	2,900	-3.59%
City of Clio	2,206	1,399	-36.58%	1,018	-27.23%
City of Eufaula	13,908	13,137	-5.54%	12,289	-6.46%
Town of Louisville	612	519	-15.20%	496	-4.43%
<b>Butler County</b>	<b>21,399</b>	<b>20,947</b>	<b>-2.11%</b>	<b>20,025</b>	<b>-4.40%</b>
City of Georgiana	1,737	1,738	0.06%	1,914	10.13%
City of Greenville	7,228	8,135	12.55%	7,714	-5.18%
Town of McKenzie	642	522	-18.69%	608	16.48%
<b>Coffee County</b>	<b>43,615</b>	<b>49,948</b>	<b>14.52%</b>	<b>51,288</b>	<b>2.68%</b>
City of Elba	4,185	3,940	-5.85%	3,852	-2.23%
City of Enterprise (part)	20,993	26,139	24.51%	27,415	4.88%
Town of Kinston	602	540	-10.30%	708	31.11%
Town of New Brockton	1,250	1,146	-8.32%	1,127	-1.66%
<b>Covington County</b>	<b>37,631</b>	<b>37,765</b>	<b>0.36%</b>	<b>37,351</b>	<b>-1.10%</b>
City of Andalusia	8,794	9,015	2.51%	8,864	-1.67%
Town of Babbie	627	603	-3.83%	557	-7.63%
Town of Carolina	248	297	19.76%	258	-13.13%
City of Florala	1,964	1,980	0.81%	1,549	-21.77%
Town of Gantt	241	222	-7.88%	128	-42.34%
Town of Heath	249	254	2.01%	339	33.46%
Town of Horn Hill	235	228	-2.98%	262	14.91%
Town of Libertyville	106	117	10.38%	85	-27.35%
Town of Lockhart	548	516	-5.84%	282	-45.35%
Town of Onycha	208	184	-11.54%	119	-35.33%
City of Opp	6,607	6,659	0.79%	6,520	-2.09%
Town of Red Level	556	487	-12.41%	324	-33.47%
Town of River Falls	616	526	-14.61%	646	22.81%
Town of Sanford	269	241	-10.41%	189	-21.58%
<b>Crenshaw County</b>	<b>13,665</b>	<b>13,906</b>	<b>1.76%</b>	<b>13,865</b>	<b>-0.29%</b>
Town of Brantley	920	809	-12.07%	828	2.35%
Town of Dozier	391	329	-15.86%	367	11.55%
Town of Glenwood	191	187	-2.09%	221	18.18%
City of Luverne	2,635	2,800	6.26%	2,771	-1.04%
Town of Petrey	63	58	-7.94%	48	-17.24%
Town of Rutledge	476	467	-1.89%	363	-22.27%



Jurisdiction	2000 Population	2010 Population	% Change, 2000 - 2010	2018 Population	% Change 2010- 2018
<b>Dale County</b>	<b>49,129</b>	<b>50,251</b>	<b>2.28%</b>	<b>49,255</b>	<b>-1.98%</b>
Town of Ariton	772	764	-1.04%	697	-8.77%
Town of Clayhatchee	501	589	17.56%	513	-12.90%
City of Daleville	4,653	5,295	13.80%	5,113	-3.44%
City of Dothan (part)	650	887	36.46%	919	3.61%
City of Enterprise (part)	185	423	128.65%	444	4.96%
Town of Grimes	459	558	21.57%	731	31.00%
Town of Level Plains	1,544	2,085	35.04%	2,478	18.85%
Town of Midland City	1,703	2,344	37.64%	2,144	-8.53%
Town of Napier Field	404	354	-12.38%	418	18.08%
Town of Newton	1,708	1,511	-11.53%	1,722	13.96%
City of Ozark	15,119	14,907	-1.40%	14,456	-3.03%
Town of Pinckard	667	647	-3.00%	458	-29.21%
<b>Geneva County</b>	<b>25,764</b>	<b>26,790</b>	<b>3.98%</b>	<b>26,491</b>	<b>-1.12%</b>
Town of Black	202	207	2.48%	197	-4.83%
Town of Coffee Springs	251	228	-9.16%	195	-14.47%
City of Geneva	4,388	4,452	1.46%	4,379	-1.64%
City of Hartford	2,369	2,624	10.76%	2,604	-0.76%
Town of Malvern	1,215	1,448	19.18%	1,773	22.44%
City of Samson	2,071	1,940	-6.33%	2,086	7.53%
City of Slocomb	2,052	1,980	-3.51%	1,953	-1.36%
City of Taylor (part)	10	7	-30.00%	7	0.00%
<b>Henry County</b>	<b>16,310</b>	<b>17,302</b>	<b>6.08%</b>	<b>17,124</b>	<b>-1.03%</b>
City of Abbeville	2,987	2,688	-10.01%	2,582	-3.94%
City of Dothan (part)	5	5	0.00%	5	0.00%
Town of Haleburg	108	103	-4.63%	132	28.16%
City of Headland	3,523	4,510	28.02%	4,661	3.35%
Town of Newville	553	539	-2.53%	402	-25.42%
<b>Houston County</b>	<b>88,787</b>	<b>101,547</b>	<b>14.37%</b>	<b>104,352</b>	<b>2.76%</b>
City of Ashford	1,853	2,148	15.92%	2,346	9.22%
Town of Avon	466	543	16.52%	463	-14.73%
Town of Columbia	804	740	-7.96%	661	-10.68%
Town of Cottonwood	1,170	1,289	10.17%	1,291	0.16%
Town of Cowarts	1,546	1,871	21.02%	2,223	18.81%
City of Dothan (part)	57,082	64,604	13.18%	66,948	3.63%
Town of Gordon	408	332	-18.63%	237	-28.61%
City of Kinsey	1,796	2,198	22.38%	2,211	0.59%
Town of Madrid	303	350	15.51%	301	-14.00%
Town of Rehobeth	993	1,297	30.61%	1,862	43.56%
City of Taylor	1,888	2,368	25.42%	2,390	0.93%
Town of Webb	1,298	1,430	10.17%	1,453	1.61%
<b>Pike County</b>	<b>29,605</b>	<b>32,899</b>	<b>11.13%</b>	<b>33,403</b>	<b>1.53%</b>
Town of Banks	224	179	-20.09%	157	-12.29%
City of Brundidge	2,341	2,076	-11.32%	2,295	10.55%
Town of Goshen	300	266	-11.33%	223	-16.17%
City of Troy	13,935	18,033	29.41%	19,141	6.14%
<b>AEMA Division B Region</b>	<b>354,943</b>	<b>378,812</b>	<b>6.72%</b>	<b>378,936</b>	<b>0.03%</b>

Source: US Bureau of Census, 2000 Decennial Census, Summary File 1; 2010 Decennial Census, Summary File 1; and, 2018 ACS 5-Year Survey, Table B02001: Race.

The demographics of the AEMA Division B vary significantly from county to county, in terms of race, sex, age, employment and income levels, as shown in Tables 2.3 through 2.7. According to the 2018 American Community Survey 5-Year Estimates, the racial composition of the combined region is 70.04 percent white, 25.33 percent black, 2.40 percent of other races alone, and 2.24 percent of two or more races; 3.65 percent is of Hispanic or Latino origin. Covington County has the highest percentage of white population, at 84.67 percent, while Barbour and Butler Counties have the highest percentage of black population, at 47.58 percent and 45.22 percent, respectively. Dale County has the highest percentage of population of another race alone, at 3.98 percent, and population of two or more races, at 3.36 percent. Coffee County, at 6.92 percent, and Dale County, at 6.23 percent, have the highest percentage of persons of Hispanic or Latino origin, as compared to the state, at 4.18 percent, and the nation, at 17.81 percent. The population of Houston County is most similar to that of the state.

**Table 2.3 AEMA Division B Population by Race, 2018**

	White	Black or African American	Other Race Alone	Two or more races	Hispanic or Latino Origin
Barbour County	47.38%	47.58%	3.67%	1.37%	4.29%
Butler County	52.00%	45.22%	1.16%	1.61%	0.33%
Coffee County	75.89%	17.21%	3.76%	3.14%	6.92%
Covington County	84.67%	12.92%	0.80%	1.61%	1.62%
Crenshaw County	71.68%	23.07%	3.20%	2.06%	1.98%
Dale County	72.86%	19.79%	3.98%	3.36%	6.23%
Geneva County	86.33%	9.55%	2.14%	1.98%	3.88%
Henry County	71.12%	27.73%	0.24%	0.91%	2.62%
Houston County	69.37%	26.91%	1.65%	2.08%	3.29%
Pike County	56.76%	38.01%	2.84%	2.38%	0.79%
<b>Division B</b>	<b>70.04%</b>	<b>25.33%</b>	<b>2.40%</b>	<b>2.24%</b>	<b>3.65%</b>

*Source: US Bureau of Census, 2018 ACS 5-Year Survey, Table DP05: Demographic and Housing Estimates.*

There is a slightly higher percentage of females, at 51.2 percent, to males, at 48.8 percent, in the combined Division B region, which is in line with the ratios for the state and nation. The ratio is also similar in most of the ten counties, except in Butler County where the female population is 53.2 percent. Barbour County is the only county which has a higher percentage of males, at 53.1 percent, than females, at 46.9 percent. The average median age for the Division B region is 40.0 years old, as compared to the state, at 38.9 years, and the nation, at 37.9 years. Pike County has the youngest median age, at 30.8, presumably due to the presence of Troy University and the impact of the student population. With the exception of Pike County, the median age in the region ranges from 37.5 years in Dale County to 42.4 years in Geneva County.

**Table 2.4 AEMA Division B Population by Sex and Age, 2018**

	<b>Total Population</b>	<b>Male</b>	<b>Female</b>	<b>Under 18 Years</b>	<b>19 to 64 Years</b>	<b>65 Years and Over</b>	<b>Median Age</b>
<b>United States</b>	<b>322,903,030</b>	<b>49.2%</b>	<b>50.8%</b>	<b>22.8%</b>	<b>62.0%</b>	<b>15.2%</b>	<b>37.9</b>
<b>Alabama</b>	<b>4,864,680</b>	<b>48.4%</b>	<b>51.6%</b>	<b>22.6%</b>	<b>61.3%</b>	<b>16.1%</b>	<b>38.9</b>
Barbour County	25,782	53.1%	46.9%	21.1%	60.9%	18.0%	39.9
Butler County	20,025	46.8%	53.2%	22.8%	58.2%	19.0%	40.7
Coffee County	51,288	49.4%	50.6%	23.7%	60.0%	16.3%	39.3
Covington County	37,351	48.7%	51.3%	21.9%	57.6%	20.5%	43.9
Crenshaw County	13,865	49.1%	50.9%	22.5%	59.2%	18.3%	41.5
Dale County	49,255	49.2%	50.8%	23.4%	60.5%	16.1%	37.5
Geneva County	26,491	49.0%	51.0%	22.1%	58.4%	19.4%	42.4
Henry County	17,124	48.1%	51.9%	20.9%	57.5%	21.6%	44.1
Houston County	104,352	47.9%	52.1%	23.4%	59.8%	16.9%	39.8
Pike County	33,403	48.0%	52.0%	19.6%	65.8%	14.6%	30.8
<b>AEMA Division B</b>	<b>378,936</b>	<b>48.8%</b>	<b>51.2%</b>	<b>22.5%</b>	<b>60.0%</b>	<b>17.5%</b>	<b>40.0</b>

Source: US Bureau of Census, 2018 ACS 5-Year Survey, Table DP05: Demographic and Housing Estimates.

There are a total of 303,534 persons age 16 and older in the AEMA Division B region, of which 55.5 percent, or 168,402 are in the civilian labor force, according to the 2018 ACS data. Of those in the labor force, 7.5 percent were unemployed in 2018. Unemployment in the Division B region was higher than that of the state, at 6.6 percent, and the nation, at 5.9 percent. Unemployment was highest in Barbour County, at 9.5 percent, and lowest in Crenshaw County, at 5.8 percent, and Coffee County, at 5.9 percent.

More current unemployment data is available from the Alabama Department of Labor who provides monthly employment data for all counties in Alabama. The Department of Labor estimates are prepared in conjunction with the Bureau of Labor Statistics, Local Area Unemployment Statistics (LAUS) program. LAUS is a federal-state cooperative effort that develops monthly estimates of the labor force, employment, unemployment, and unemployment for the state, metropolitan areas, counties, selected cities, and regions. According to the LAUS program, the average unemployment rate for the AEMA Division B region is 5.7 percent, as of May 2020. Unemployment for the region was at a low of 2.9 percent in February 2020, which was the same as the state and lower than the nation, at 3.8 percent at that time. With the onset of the COVID-19 pandemic, unemployment rates soared in April 2020, with the region's unemployment at 10.8 percent, as compared to the state, at 13.2 percent, and the nation, at 14.4 percent. Unemployment rates decreased slightly in May 2020 as businesses began to reopen. LAUS unemployment rates for January through May 2020 for all jurisdictions are provided in Table 2.6. Counties that suffered the highest unemployment in April 2020 were Butler County, at 19.7 percent, and Crenshaw County, at 15.5 percent. Geneva County that had the least unemployment impact from the pandemic with the April unemployment rate only reaching 8.1 percent. Geneva County also has the lowest average unemployment rate for the five months, at 4.6 percent, followed by Coffee County, at 5.0 percent, Pike County, at 5.1 percent, and Dale County at 5.2 percent.

**Table 2.5 AEMA Division B Employment Status, 2018**

	Population 16 Years & Over	Civilian Labor Force	Employed	Unemployed	Unemployment Rate
<b>United States</b>	<b>257,754,872</b>	<b>162,248,196</b>	<b>152,739,884</b>	<b>9,508,312</b>	<b>5.9%</b>
<b>Alabama</b>	<b>3,894,696</b>	<b>2,224,606</b>	<b>2,076,708</b>	<b>147,898</b>	<b>6.6%</b>
Barbour County	20,948	9,638	8,720	918	9.5%
Butler County	15,970	8,452	7,885	567	6.7%
Coffee County	40,510	23,096	21,725	1,371	5.9%
Covington County	30,107	16,327	14,899	1,428	8.7%
Crenshaw County	11,106	5,959	5,612	347	5.8%
Dale County	39,028	19,763	18,025	1,738	8.8%
Geneva County	21,376	10,992	10,047	945	8.6%
Henry County	13,980	7,362	6,868	494	6.7%
Houston County	82,833	47,645	44,291	3,354	7.0%
Pike County	27,676	15,319	14,093	1,226	8.0%
<b>AEMA Division B</b>	<b>303,534</b>	<b>164,553</b>	<b>152,165</b>	<b>12,388</b>	<b>7.5%</b>

Source: US Bureau of Census, 2018 ACS 5-Year Survey, Table DP03: Selected Economic Characteristics.

**Table 2.6 AEMA Division B Unemployment Rates, 2020**

	JAN	FEB	MAR	APR	MAY	AVG
<b>United States</b>	<b>4.0%</b>	<b>3.8%</b>	<b>4.5%</b>	<b>14.4%</b>	<b>13.0%</b>	<b>7.8%</b>
<b>Alabama</b>	<b>3.2%</b>	<b>2.9%</b>	<b>3.3%</b>	<b>13.2%</b>	<b>9.4%</b>	<b>6.4%</b>
Barbour County	3.8%	3.5%	4.1%	9.9%	8.9%	6.0%
Butler County	4.2%	4.1%	4.4%	19.7%	12.5%	9.1%
Coffee County	3.1%	2.6%	3.2%	9.4%	6.9%	5.0%
Covington County	3.6%	3.2%	3.7%	10.6%	7.4%	5.7%
Crenshaw County	3.5%	2.9%	3.4%	15.5%	8.5%	6.8%
Dale County	3.2%	2.7%	3.2%	9.5%	7.4%	5.2%
Geneva County	3.2%	2.7%	3.2%	8.1%	6.3%	4.6%
Henry County	3.8%	3.2%	3.8%	9.2%	7.6%	5.5%
Houston County	3.2%	2.8%	3.3%	11.0%	8.4%	5.7%
Pike County	3.5%	2.9%	3.5%	9.0%	6.9%	5.1%
<b>AEMA Division B</b>	<b>3.4%</b>	<b>2.9%</b>	<b>3.5%</b>	<b>10.8%</b>	<b>7.9%</b>	<b>5.7%</b>

Source: Alabama Department of Labor, <http://www2.labor.alabama.gov/LAUS/>

Estimates prepared in cooperation with the Bureau of Labor Statistics, based on 2019 benchmark.

As shown in Table 2.7, income levels in the AEMA Division B region are generally lower than those of the state and nation, while poverty rates are higher. The average median household income for the combined region is \$41,975, as compared to \$48,486 for the state and \$60,293 for the nation. Only Coffee County and Henry County have a median household income higher than that of the state, but in both counties it is still considerably lower than that of the nation. Coffee County is also the only county that has a median family income, median nonfamily income and per capita income higher than that of the state, but again is lower than that of the nation in each category. It is estimated that 20.2 percent of all people in the combined AEMA Division B region

have an income in the past 12 months that was below the poverty level, according to the 2018 ACS data. Poverty rates are highest in Barbour County, at 28.9 percent; Pike County, at 26.6 percent; Geneva County, at 24.0 percent; and Butler County, at 23.5 percent. Counties that have a poverty rate less than the state's 17.5 percent include Henry County, at 13.5 percent; Coffee County, at 15.1 percent; and Crenshaw County, at 15.7 percent. Henry County is the only county with a poverty rate lower than the nation's, at 14.1 percent.

**Table 2.7 AEMA Division B Income and Poverty, 2018**

	Median household income	Median family income	Median nonfamily income	Per capita income	Percent of People In Poverty
<b>United States</b>	<b>\$60,293</b>	<b>\$73,965</b>	<b>\$35,971</b>	<b>\$32,621</b>	<b>14.1%</b>
<b>Alabama</b>	<b>\$48,486</b>	<b>\$62,030</b>	<b>\$26,388</b>	<b>\$26,846</b>	<b>17.5%</b>
Barbour County	\$34,186	\$44,339	\$18,256	\$18,461	28.9%
Butler County	\$39,109	\$46,312	\$21,005	\$20,430	23.5%
Coffee County	\$53,155	\$64,723	\$31,245	\$27,577	15.1%
Covington County	\$40,601	\$54,513	\$20,844	\$23,071	18.3%
Crenshaw County	\$39,812	\$55,687	\$15,670	\$23,353	15.7%
Dale County	\$45,960	\$56,602	\$22,679	\$23,837	18.4%
Geneva County	\$38,142	\$47,603	\$17,469	\$20,471	24.0%
Henry County	\$48,610	\$57,902	\$25,595	\$24,069	13.5%
Houston County	\$45,496	\$58,526	\$26,327	\$25,990	18.3%
Pike County	\$34,678	\$51,066	\$18,475	\$21,137	26.6%
<b>AEMA Division B Average</b>	<b>\$41,975</b>	<b>\$53,727</b>	<b>\$21,757</b>	<b>\$22,840</b>	<b>20.2%</b>

*Source: US Bureau of Census, 2018 ACS 5-Year Survey, Table DP03: Selected Economic Characteristics.*

According to the 2018 ACS 5-Year Estimates, there are 178,941 housing units in the Division B region. Of the total housing units, 20.5 percent are vacant, which is a higher vacancy rate than that of the state, at 17.1 percent, and the nation, at 12.2 percent. Five counties have a housing vacancy rate higher than the region's average: Butler County, at 33.1 percent; Pike County, at 28.2 percent; Henry County, at 26.7 percent; Crenshaw County, at 26.0 percent; and Barbour County, at 23.0 percent. Housing vacancy is lowest in Coffee County, at 14.3 percent. The average median housing value of owner-occupied housing in the region is \$107,070, which is lower than that of the state, at \$137,200, and significantly lower than that of the nation, at \$204,900. Only Coffee County's median housing value, at \$149,100, is higher than that of the state. Median housing value is lowest in Crenshaw County, at \$79,500, and Butler County, at \$88,300.

Of the total housing units in the Division B region, 67.7 percent are single units, 12.4 percent are multi-family with two or more units, and 19.8 percent are mobile homes, boat or van. In comparison, only 13.4 percent of the state's housing and 6.3 percent of the nation's housing is a mobile home, boat or van. Barbour County and Geneva County has the highest percentage of these types of housing, at 29.3 percent and 28.5 percent, respectively. Only Coffee County, at 13.6 percent, and Houston County, at 13.8 percent, are comparable to the state in terms of mobile housing. Of the state's total housing stock, 45.9 percent was built prior to 1980 and is now more than 40 years old, as compared to 46.7 percent of the Division B region's housing stock. Crenshaw

County, at 52.8 percent, and Butler County, at 52.3 percent, have the highest percentages of aging housing stock in the region, while Pike County has the lowest percentage, at 42.2 percent.

**Table 2.8 AEMA Division B Housing Occupancy and Value, 2018**

Location	Total housing units	Occupied housing units	Vacant housing units	Vacancy Rate	Owner-Occupied Median House Value
<b>United States</b>	<b>136,384,292</b>	<b>119,730,128</b>	<b>16,654,164</b>	<b>12.2%</b>	<b>\$204,900</b>
<b>Alabama</b>	<b>2,244,462</b>	<b>1,860,269</b>	<b>384,193</b>	<b>17.1%</b>	<b>\$137,200</b>
Barbour County	11,937	9,186	2,751	23.0%	\$92,900
Butler County	10,026	6,708	3,318	33.1%	\$88,300
Coffee County	23,088	19,789	3,299	14.3%	\$149,100
Covington County	18,907	15,008	3,899	20.6%	\$95,500
Crenshaw County	6,790	5,025	1,765	26.0%	\$79,500
Dale County	23,065	18,670	4,395	19.1%	\$110,100
Geneva County	12,768	10,479	2,289	17.9%	\$92,300
Henry County	9,096	6,669	2,427	26.7%	\$115,100
Houston County	47,187	39,253	7,934	16.8%	\$130,500
Pike County	16,077	11,547	4,530	28.2%	\$117,400
<b>AEMA Division B</b>	<b>178,941</b>	<b>142,334</b>	<b>36,607</b>	<b>20.5%</b>	<b>\$107,070</b>

Source: US Bureau of Census, 2018 ACS 5-Year Survey, Table DP04: Selected Housing Characteristics.

**Table 2.9 AEMA Division B Housing Type and Age, 2018**

	Total Housing Units	Single Unit	Multi-Unit	Mobile Home Boat or Van	Built Prior to 1980 (40+ Years Old)
<b>United States</b>	<b>136,384,292</b>	<b>67.5%</b>	<b>26.2%</b>	<b>6.3%</b>	<b>54.2%</b>
<b>Alabama</b>	<b>2,244,462</b>	<b>70.1%</b>	<b>16.5%</b>	<b>13.4%</b>	<b>45.9%</b>
Barbour County	11,937	57.2%	13.5%	29.3%	50.9%
Butler County	10,026	61.5%	12.3%	26.2%	52.3%
Coffee County	23,088	74.8%	11.6%	13.6%	45.0%
Covington County	18,907	71.5%	6.8%	21.7%	46.3%
Crenshaw County	6,790	65.3%	7.0%	27.7%	52.8%
Dale County	23,065	69.1%	12.7%	18.2%	44.5%
Geneva County	12,768	67.0%	4.6%	28.5%	51.0%
Henry County	9,096	68.3%	5.7%	25.9%	45.8%
Houston County	47,187	70.7%	15.5%	13.8%	46.3%
Pike County	16,077	55.4%	22.6%	22.0%	42.2%
<b>AEMA Division B</b>	<b>178,941</b>	<b>67.7%</b>	<b>12.4%</b>	<b>19.8%</b>	<b>46.7%</b>

Source: US Bureau of Census, 2018 ACS 5-Year Survey, Table DP04: Selected Housing Characteristics

## 2.3 Business and Industry

AEMA Division B supports a wide variety of industrial and commercial stakeholders. The region is a strategic location that is served by several federal and state highways, multiple railroads and motor freight lines, an inland waterway system, and a regional airport. The region is home to a large, widely diversified economic base, with automotive, aviation, textile, and poultry manufacturing facilities, Fort Rucker (the Home of Army Aviation), widespread agricultural production, higher education, medical and health services, nuclear power production, and retail trade. There are 25 employers in the Division B region with 1,000 or more employees, as listed in



Table 2.10. These industries are susceptible to the same natural hazards as the remainder of the region, e.g. high wind events and potential flooding. The economic impact of losing any industry is directly related to the size/type of business and the duration/severity of the loss.

**Table 2.10 Largest Employers in Division B Region**

County	Business	Service	# of Employees
Coffee/Dale	M1 Services (Army Fleet Support)	Aircraft Maintenance	3,833
Houston	Southeast Alabama Medical Center	Hospital	2,299
Houston	Dothan/Houston County Schools	Education	1,973
Covington	Shaw Industries	Carpet Manufacturer	1,900
Coffee	Wayne Farms	Poultry Processing	1,730
Barbour	Tyson Foods	Poultry Processing	1,395
Pike	Troy University	Education	1,342
Houston	Flowers Hospital	Hospital	1,100
Houston	City of Dothan	Government	1,082
Covington	Shaw Industries	Polypropylene Yarn	1,082

*Source: Economic Development Partnership of Alabama (EDPA)*

## 2.4 Infrastructure

### Transportation:

There are several major highways that span across the region. The only interstate highway traversing the region is I-65 that crosses Butler County from northeast toward Montgomery to southwest toward Mobile. U.S. Highways 29, 31, 231, 331, and 431 cross the region roughly from north to south and U.S. Highways 82 and 84 cross the region from east to west. There are also several major state highways in the region that provide important links between communities.

There are several public airports located in the region. The only commercial airport is Dothan Regional Airport, located in Dale County, which offers several connecting flights a day to Atlanta. Other public airports in the region include Abbeville Municipal Airport (Henry County), South Alabama Regional Airport (Covington County), Clayton Municipal Airport (Barbour County), Carl Folsom Airport (Elba, Coffee County), Enterprise Municipal Airport (Coffee County), Weedon Field (Eufaula, Barbour County), Florala Municipal Airport (Covington County), Geneva Municipal Airport (Geneva County), Mac Crenshaw Municipal Airport (Greenville, Butler County), Headland Municipal Airport (Henry County), Blackwell Field (Ozark, Dale County), Troy Municipal Airport (Pike County), Frank Sikes Airport (Luverne, Crenshaw County), and Logan Field (Samson, Geneva County).

Several rail lines also traverse the region. There are two Class I rail routes, both by CSX Transportation. One runs approximately northwest to southeast, through Pike, Dale, and Houston counties, and the other runs through Butler County, northeast to southwest. There are also several Class III railroads, including The Bay Line Railroad, Chattahoochee Bay Railroad, Conecuh Valley Railway, Georgia Southwestern Railroad, Wiregrass Central Railway, and Three Notch Railway.

### Utilities:

Electrical service in AEMA Division B is provided by Alabama Power and several electrical cooperatives and municipal authorities. Alabama Power serves scattered areas throughout the region. PowerSouth Electric Cooperative has five local member cooperatives that serve large portions of the region: Covington EC, Pea River EC, Pioneer EC, South Alabama EC, and Wiregrass EC. There are also several municipal electric systems, including Andalusia, Brundidge, Dothan, Elba, Opp, and Troy.

Water and sewer service is provided by a mixture of municipal and county utility authorities. Most populated areas have public water service, with only a few isolated areas not connected. Most unincorporated areas rely on septic systems for sewer disposal. Natural gas service for much of the region is provided by the Southeast Alabama Gas District. Geneva County has its own natural gas distribution system.

## **2.5 Land Use and Development Trends**

Southeast Alabama is a primarily rural region with mostly small towns, agricultural and silvicultural uses, and Fort Rucker with other scattered military zones that comprise the planning area. There are 72 incorporated municipalities within the 10-county region. A large portion (almost half) of the municipalities are small towns with a population of less than 1,000 people. The largest developed urban area in the region is Dothan with a population of over 65,000, which has been a moderately growing metropolitan area centered in northwestern Houston County. Dothan is a regional economic engine that attracts people from Southeast Alabama and surrounding areas to engage in commercial, medical, and other activities. Enterprise is the second largest city in the region with over 26,000 people, and has been a fast developing area. Bedroom communities near both Dothan and Enterprise in Coffee, Dale, Henry, and Houston counties have grown over the past couple of decades.

Troy, Ozark, and Eufaula all have population between 10,000 and 20,000. Troy University, the major regional university, has its main campus in Troy, which has contributed to the city's growth. Municipalities with a population between 5,000 and 10,000 include Andalusia, Daleville, Greenville, and Opp.

Overall, the AEMA Division B area grew over six percent (6%) from 2000 through 2010. Most of this increased growth occurred within and adjacent to Dothan and Enterprise, with the exception of Troy. These areas also produced additional urban built developments. The moderate population growth in these areas presents an enhancement of risk and vulnerability to natural hazard events, as hazard events that occur have more opportunity to affect higher density areas and destroy larger exposure of structures.

Each community in the region, especially the faster growing areas, should work to focus growth in compatible areas that are not susceptible to flooding and other location-specific hazards in their long-range development plans.



## **Section 3    Planning Process**

### **Section Contents**

- 3.1      Hazard Mitigation Planning Process
- 3.2      Multi-Jurisdictional Plan Participation
- 3.3      Public and Other Stakeholder Involvement
- 3.4      Integration with Existing Plans
- 3.5      Multi-Jurisdictional Plan Adoption

### **3.1 Hazard Mitigation Planning Process**

The AEMA Division B Multi-Jurisdictional Hazard Mitigation Plan planning process section of the plan addresses requirements of 44 CFR Section 201.6(c)(1) through Section 201.6(c)(3) by outlining the planning process used to develop the plan, including how it was prepared, who was involved in the process, and how the public was involved. Section 6 of the AEMA Division B Multi-Jurisdictional Hazard Mitigation Plan addresses 44 CFR Section 201.6(c)(4)(i) and Section 201.6(c)(4)(iii) regarding the plan maintenance, monitoring, review, and update process. The AEMA Division B Multi-Jurisdictional Hazard Mitigation Plan was developed through interaction between AEMA Division B EMA directors, the AEMA Division B Coordinator, the South Central Alabama Development Commission (SCADC), and the Southeast Alabama Regional Planning and Development Commission (SEARP&DC). Together, the representatives of these organization comprised the AEMA Division B Regional Hazard Mitigation Planning Committee.

Members of the Regional Hazard Mitigation Planning Committee developed county-level planning subcommittees, primarily based on existing Local Emergency Planning Committees (LEPCs). The review of previous local hazard mitigation plans and development of the requirements for participating within the regional planning process was developed by the Regional Hazard Mitigation Planning Committee. Although the physical presence of local representatives during the hazard mitigation planning process at the county level is the preferred method of planning participation, it was determined by the Regional Hazard Mitigation Planning Committee that the physical presence of a representative is not always possible. The reasons for the inability to attend are varied and numerous, but primary considerations include (1) the fact that many small rural jurisdictions only have one employee to maintain open hours of Town Hall; and sometimes, that one employee is only a part-time employee; and (2) emergency responder representatives are often part-time employees or volunteers that hold other full-time jobs leaving them little time for additional meetings.

Additionally, the 2020 AEMA Division B Multi-Jurisdictional Hazard Mitigation Plan Update planning and review process happened to land within the time frame of the State of Alabama's COVID-19 "Stay at Home Orders" and "Social Distancing Requirements" beginning March 15, 2020. The hazard mitigation planning process was initially delayed because of the impact of COVID-19 on local emergency management directors, local governments, and relevant agencies and departments in simply maintaining daily operations. When the county-by-county local hazard mitigation planning and review process did begin, it was with highly altered expectations regarding local jurisdiction and public participation. Therefore, the Regional Hazard Mitigation Planning Committee stated that while attending meetings in person at planning meetings would be preferred, it would not be a requirement. Each jurisdiction, however, would be expected to participate in the hazard mitigation planning and review process by at least one of the following methods:

- Attending scheduled meetings, or if unable to attend, send a designee
- Be available to discuss the agenda through phone conversation or in-person meeting
- Represent their jurisdiction's interests, including gathering information and providing feedback, including providing survey comments or marking up information on their existing hazard mitigation plan
- Provide an assessment of prioritized projects that have been completed or are ongoing, or changes to prioritization
- Adopt the Hazard Mitigation Plan

In each Division B county, three hazard mitigation plan update meetings were conducted in each county. Two of the meetings were planning meetings and one was a public hearing. Presentations were made that included the following information: hazard mitigation planning; county and regional demographics; past hazard mitigation plans; existing plan review; past disaster events; past county natural hazard events; county hazard profiles; natural hazard probability; county level natural hazard priorities; critical facilities and vulnerability; jurisdictional capabilities; and mitigation strategies.

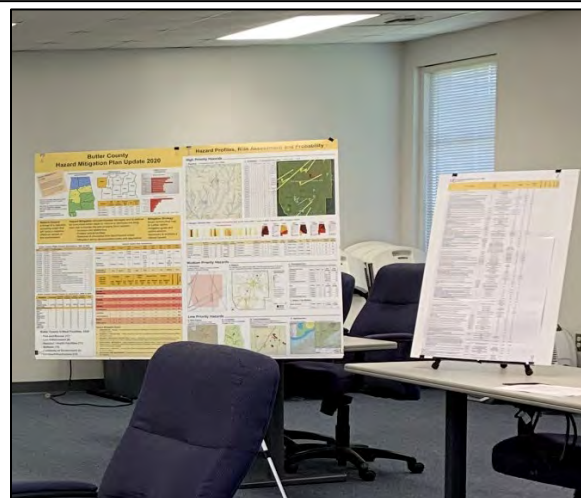
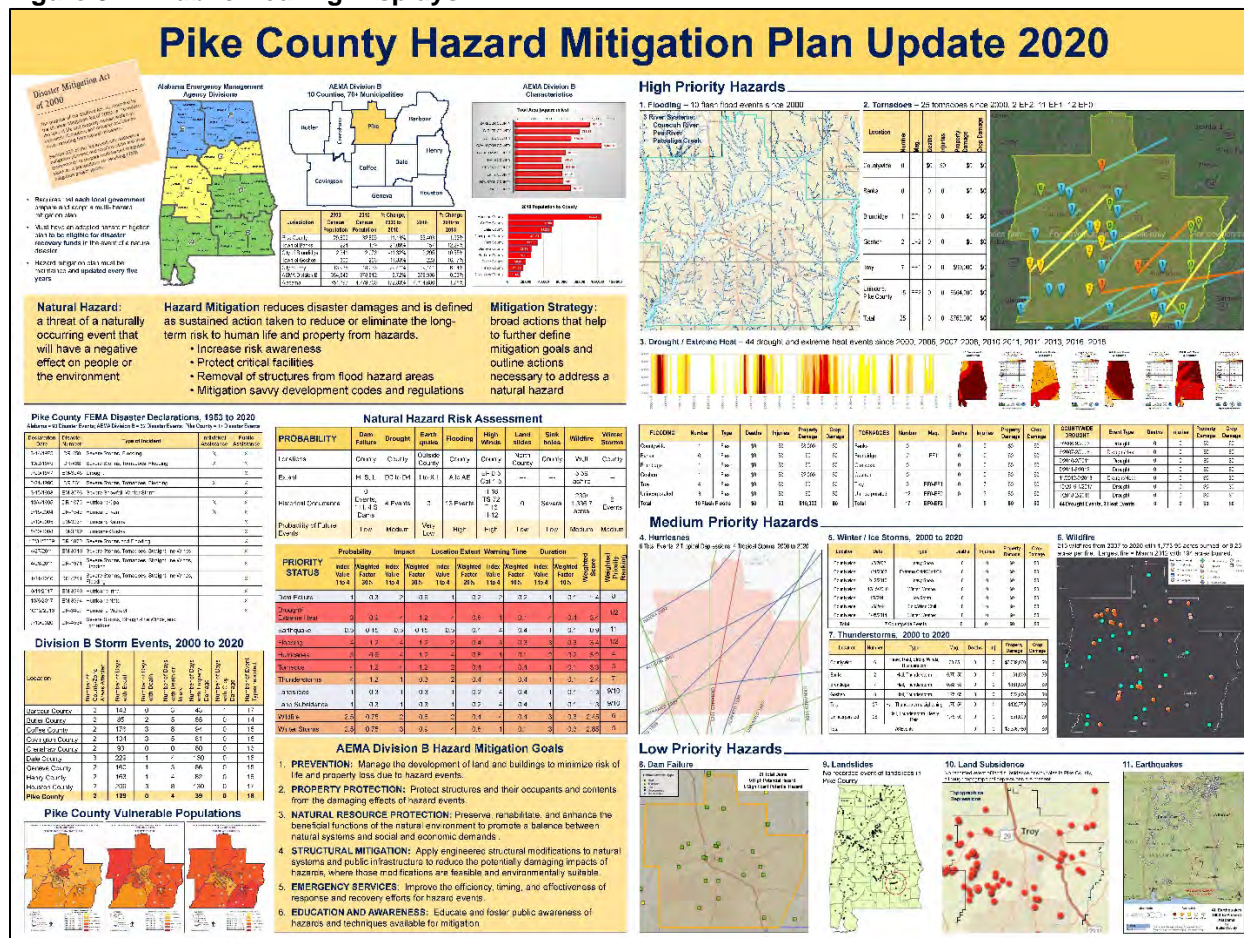
The county meetings were conducted in June, July and August of 2020. An appendix in Section 7.2 provides documentation of the county hazard mitigation meetings conducted in AEMA Division B including meeting notification, meeting agendas, attendance rosters, PowerPoint presentations, and meeting handouts. The first meetings were held as a technical review and to provide an opportunity to discuss how to orchestrate public participation amid the restrictions of COVID-19. Participants were notified by email of the meeting date and location. For the second meeting, email notifications were again sent to participants; and additionally, flyers and notices, as shown in Figure 3.1, were posted in public locations, on websites and social media, and a local radio station ran a public service announcement. The public was invited to attend the hazard mitigation meeting; however, it was noted that seating was limited due to social distancing requirements of COVID-19 and that reservations would be required. The reservation requirement would allow the EMA Directors to establish a virtual meeting, if necessary, to accommodate public participation.

The third hazard mitigation plan meeting was conducted as an Open House Public Hearing in each county. The format of the meeting enabled the participation of local representatives and the general public in a manner that met the requirements for COVID-19 social distancing but did not require meeting reservations or virtual meeting technology. Further, the come and go format of the public hearing generally encourages participation by those persons who are interested but have a limited amount of time for public meetings as well as those persons who are interested but do not desire to participate in a public forum. Two stations were set up with displays of meeting material covered in the first two meetings, including hazard probability and priority status, as shown in Figure 3.2, along with a display of the mitigation strategies as they had been reviewed. A comment form was available that asked participants about agreement with the hazard probability and priority status and to list any mitigation strategies that needed to be revised or added.

**Figure 3.1: Meeting Notification**



Figure 3.2: Public Hearing Displays



Following the public hearing, a draft of the AEMA Division B Multi-Jurisdictional Hazard Mitigation Plan was emailed to county stakeholders for review and comment. Additionally, a copy of the plan was available at the county EMA Offices. At the same time, a draft of the AEMA Division B Multi-Jurisdictional Hazard Mitigation Plan was emailed to EMA Directors in the surrounding counties. Following the review and comment period, the AEMA Division B Multi-Jurisdictional Hazard Mitigation Plan was forwarded to Alabama Emergency Management Agency and the Federal Emergency Management Agency for review and revisions. After approval from FEMA, the AEMA

Division B Multi-Jurisdictional Hazard Mitigation Plan was available for adoption by local jurisdictions.

### 3.2 Multi-Jurisdictional Plan Participation

Each eligible local jurisdiction in Barbour, Butler, Coffee, Covington, Crenshaw, Dale, Geneva, Henry, Houston, and Pike counties provided sufficient participation in the development of the regional hazard mitigation plan. Local jurisdictions within the region participated according to the standards set forth by the Regional Hazard Mitigation Planning Committee. The name and title of jurisdiction representatives and other hazard mitigation stakeholders, and how they participated, is provided in Table 3.1 on the following page.

**Table 3.1: Hazard Mitigation Jurisdiction and Stakeholder Participation**

Jurisdiction	Stakeholder	Position/Title	Name	Attended Meetings	Personal Conversation	Provided Written Comments
<b>Barbour County</b>						
	Barbour County EMA	Director	David Logan	X	X	X
	Eufaula City Schools	Superintendent	Joey Brannan		X	
City of Eufaula		Public Works Director	Tim Brannon	X	X	X
	Barbour County Schools	Superintendent	Zickeyous Byrd	X	X	X
Town of Baker Hill		Mayor	Aaron Grubbs	X	X	X
Town of Blue Springs		Clerk	Amanda Merritt	X	X	X
City of Clayton		Clerk	Norean Kennedy	X	X	X
Town of Clio		Clerk	Dawn Grimes	X		X
Town of Louisville		Clerk	Janice Clark	X		
	West Barbour County Water Authority	Chairman	Robert Jackson		X	
	Cowikee Water Authority	Chairman	Grady Hartzog		X	
	Mount Andrew Water Authority	Chairman	Noreen Kennedy		X	

Jurisdiction	Stakeholder	Position/Title	Name	Attended Meetings	Personal Conversation	Provided Written Comments
<b>Butler County</b>						
	Butler County EMA	Director	Michael Vigor	X	X	X



<b>Butler County</b>		<b>County Engineer</b>	<b>Dennis McCall</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>City of Georgiana</b>		<b>Police Chief</b>	<b>Carlton Cook</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>Town of McKenzie</b>		<b>Town Clerk</b>	<b>LeAnn Waters</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>City of Greenville</b>		<b>Fire Chief</b>	<b>Tim Warrick</b>	<b>X</b>	<b>X</b>	<b>X</b>
	<b>Butler County Schools</b>	<b>Central Office Specialist</b>	<b>Catherine Tanner</b>	<b>X</b>	<b>X</b>	<b>X</b>
	Butler County Road Dept	Asst County Engineer	Josh McDougald	X	X	X
	Regional Medical Center	Infection Control Nurse	Valerie Heath	X		X
	Alabama Forestry Commission	Butler Co. Forest Ranger	Steve Perdue	X		
	Greenville Fire Department	Captain	Les Liller	X	X	X
	Jim Bell Wireless Association	ARES Emergency Coord	Charles R. Stouse	X	X	
	Pioneer Electric	VP, Eng./Operations	Phillip Baker	X		
	Alabama Power	Business Office Manager	Floyd Harris	X		
	Hwashin America	Safety Manager	Kathy Jones	X	X	X
	Butler County Sheriff's Office	Sheriff	Danny Bond	X	X	
	Clearwater Solutions, LLC		Wesley Bass		X	
	GEMS Ambulance		Wayne Cook		X	
	Butler County Assoc of VFDs	President	Keith Foster	X	X	X
<b>Crenshaw County</b>						
	<b>Crenshaw County EMA</b>	<b>Director</b>	<b>Elliott Jones</b>	<b>X</b>	<b>X</b>	<b>X</b>
	<b>Crenshaw County EMA</b>	<b>Deputy Director</b>	<b>Randy Mahone</b>	<b>X</b>	<b>X</b>	
	<b>Crenshaw Co. Hwy Dept.</b>	<b>County Engineer</b>	<b>Benjie Sanders</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>Town of Brantley</b>		<b>Police Chief</b>	<b>Titus Averett</b>	<b>X</b>	<b>X</b>	
<b>Town of Dozier</b>		<b>City Clerk</b>	<b>Katie Dean</b>		<b>X</b>	
<b>Town of Glenwood</b>		<b>Council Member</b>	<b>Scott Stricklin</b>	<b>X</b>	<b>X</b>	
<b>City of Luverne</b>		<b>Police Chief</b>	<b>Michael Johnson</b>	<b>X</b>	<b>X</b>	
<b>Town of Petrey</b>		<b>City Clerk</b>	<b>Sue Beasley</b>		<b>X</b>	
<b>Town of Rutledge</b>		<b>City Clerk</b>	<b>Rita Brown</b>		<b>X</b>	
	<b>Crenshaw Co. Schools</b>	<b>Superintendent</b>	<b>Dodd Hawthorne</b>	<b>X</b>	<b>X</b>	
	Crenshaw County E-911	E-911 Director	Scott Stricklin	X	X	X
Crenshaw County		Probate Judge	Will Tate	X	X	X
	Crenshaw Co. Sheriff's Office	Sheriff	Terry L. Mears	X	X	
	Crenshaw Co. Sheriff's Office	Chief Deputy	Joey Dickey	X	X	

	City of Luverne	City Engineer	Michelle Royals	X	X	
	Crenshaw Community Hosp.	Administrator	David Hughes	X	X	
	Luverne Rescue Squad	Paramedic	Floyd Wright	X	X	
	Crenshaw Co. Highway Dept.	Asst County Engineer	Trent Dykes	X	X	
	Crenshaw Co. VFD Assoc.	President	Scott Stricklin	X	X	
	AL Forestry Commission	Forest Ranger	Chris Jones	X	X	
<b>Pike County</b>						
	<b>Pike County EMA</b>	<b>Director</b>	<b>Herbert Reeves</b>	<b>X</b>	<b>X</b>	<b>X</b>
	<b>Pike County</b>	<b>Engineer</b>	<b>Russell Oliver</b>	<b>X</b>	<b>X</b>	
<b>Town of Banks</b>		<b>Mayor</b>	<b>Lisa Culpepper</b>		<b>X</b>	
<b>Town of Brundidge</b>		<b>City Manager</b>	<b>Willie Wright</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>Town of Goshen</b>		<b>Mayor</b>	<b>Darren Jordan</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>City of Troy</b>		<b>Fire Chief</b>	<b>Michael Stephens</b>	<b>X</b>	<b>X</b>	<b>X</b>
	<b>Troy University</b>	<b>Dean of Students</b>	<b>Herbert Reeves</b>	<b>X</b>	<b>X</b>	<b>X</b>
	<b>Pike County Schools</b>	<b>Superintendent</b>	<b>Mark Bazzell</b>	<b>X</b>	<b>X</b>	<b>X</b>
	<b>Troy City Schools</b>	<b>Interim Superintendent</b>	<b>Cynthia Thomas</b>	<b>X</b>	<b>X</b>	<b>X</b>
Pike County		Administrator	McKenzie Wilson	X	X	
	Pike County E911	Director	Chris Dozier	X	X	
	Troy Messenger	Publisher	Stacy Graning	X	X	
City of Troy		Police Chief	Randall Barr	X	X	X
Pike County		Administrator's Office	Dorothy Mallory	X	X	
City of Brundidge		Administration	Linda Faust	X	X	
Pike County Commission		Commissioner	Chad Copeland		X	
Pike County Commission		Commissioner	Russell Johnson		X	
	Troy Regional Medical Center	Director, Quality / Education	Anna Lowery	X	X	
City of Brundidge		Police Chief	Moses Davenport	X	X	
<b>Covington County</b>						
	<b>Covington County EMA</b>	<b>Director</b>	<b>Susan Harris</b>	<b>X</b>	<b>X</b>	<b>X</b>
	<b>Covington County EMA</b>	<b>Deputy Director</b>	<b>Frank Schaeffer</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>Town of Babbie</b>		<b>Mayor</b>	<b>Chris Caldwell</b>		<b>X</b>	
<b>Town of Gantt</b>		<b>Mayor</b>	<b>Melissa Grissett</b>		<b>X</b>	
<b>Town of Heath</b>		<b>Mayor</b>	<b>Judy Baker</b>		<b>X</b>	
<b>Town of Horn Hill</b>		<b>Mayor</b>	<b>Rowayne Harper</b>		<b>X</b>	
<b>Town of Libertyville</b>		<b>Mayor</b>	<b>Byron Dozier</b>		<b>X</b>	

<b>Town of Lockhart</b>		<b>Mayor</b>	<b>Eugene Birge</b>		<b>X</b>	
<b>Town of Onycha</b>		<b>Councilmember</b>	<b>Lynne Smith</b>		<b>X</b>	
<b>Town of Carolina</b>		<b>Mayor</b>	<b>James Garner</b>		<b>X</b>	
<b>Covington County</b>		<b>County Engineer</b>	<b>Lynn Ralls</b>	<b>X</b>	<b>X</b>	<b>X</b>
City of Andalusia		Public Works Director	Glynn Ralls	X	X	X
City of Opp		City Planner	Jason Bryan	X	X	X
Town of Sanford		Mayor	Chris Thomasson		X	
City of Florala		Mayor	Terry Holley		X	
Town of River Falls		Mayor	Patricia Gunter		X	
Town of Red Level		Mayor	Willi Hendrix		X	
	Covington County Schools	Superintendent	Shannon Driver		X	
	Opp City Schools	Superintendent	Michael Smithhart		X	
	Andalusia City Schools	Superintendent	Ted Watson		X	
<b>Dale County</b>						
	<b>Dale County EMA</b>	<b>Director</b>	<b>Kurt McDaniel</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>Dale County</b>		<b>Engineer</b>	<b>Derek Brewer</b>		<b>X</b>	
<b>City of Ozark</b>		<b>Fire Chief</b>	<b>Phillip Prince</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>City of Daleville</b>		<b>Mayor</b>	<b>Jayme Stayton</b>		<b>X</b>	
<b>Town of Clayhatchee</b>		<b>Mayor</b>	<b>Deloris Salter</b>	<b>X</b>	<b>X</b>	<b>X</b>
	Dale County Schools	Superintendent	Ben Baker		X	
	Ozark City Schools	Superintendent	Rick McInturf		X	
	Daleville City Schools	Superintendent	Lisa Stamps		X	
<b>Town of Ariton</b>		<b>Mayor</b>	<b>David Walsh</b>		<b>X</b>	
Town of Pinckard		Mayor	Bobby Borland		X	
City of Midland City		Mayor	Cynthia Gary		X	
Town of Level Plains		Mayor	Ronnie Thompson		X	
Town of Grimes		Mayor	Jacqueline Kirkland		X	
Town of Newton		Mayor	Lonny Daniels		X	
Town of Napier Field		Mayor	Greg Ballard		X	
<b>Coffee County</b>						
	<b>Coffee County EMA</b>	<b>EMA Director</b>	<b>James Brown</b>	<b>X</b>	<b>X</b>	<b>X</b>
	<b>Coffee County EMA</b>	<b>Deputy EMA Director</b>	<b>Grant Lyons</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>Coffee County</b>		<b>Assistant County Eng.</b>	<b>Michael Walters</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>City of Enterprise</b>		<b>Interim Director of Eng.</b>	<b>Stacey Hayes</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>City of Elba</b>		<b>Building Inspector</b>	<b>William Worthigton</b>	<b>X</b>	<b>X</b>	<b>X</b>
	Elba City Schools	Superintendent	Chris Moseley		X	
	Coffee County	Superintendent	Kevin Killingsworth		X	



	<b>Schools</b>					
	Enterprise City Schools	Superintendent	Greg Faught		X	
Town of Kinston		Mayor	Bill Mullins		X	
Town of New Brockton		Mayor	Kathy Holley	X	X	X
	Jack Water Authority	Chairman	Kieff Lambert		X	
	Coffee County CERT	Director	Scotty Johnson	X	X	
<b>Geneva County</b>						
	<b>Geneva County EMA</b>	<b>EMA Director</b>	<b>Eric Johnson</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>Geneva County</b>		<b>Commission Chairman</b>	<b>Toby Seay</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>City of Hartford</b>		<b>Mayor</b>	<b>Neil Strickland</b>		<b>X</b>	
<b>City of Geneva</b>		<b>Mayor</b>	<b>David Hayes</b>		<b>X</b>	
<b>City of Samson</b>		<b>Mayor</b>	<b>Clay King</b>		<b>X</b>	
<b>Town of Coffee Springs</b>		<b>Mayor</b>	<b>Herman Massey</b>		<b>X</b>	
	<b>Geneva City Schools</b>	<b>Superintendent</b>	Ron Snell		<b>X</b>	
	<b>Geneva County Schools</b>	<b>Superintendent</b>	Becky Birdsong		<b>X</b>	
City of Slocumb		Mayor	Rob Hinson		X	
Town of Black		Mayor	Lisa Brown		X	
Town of Malvern		Mayor	Tom Vickers		X	
<b>Henry County</b>						
	<b>Henry County EMA</b>	<b>EMA Director</b>	<b>Ronnie Dollar</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>Henry County Commission</b>		<b>Commission Chairman</b>	<b>David Money</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>City of Abbeville</b>		<b>Mayor</b>	<b>Jimmy Money</b>		<b>X</b>	
<b>City of Headland</b>		<b>Mayor</b>	<b>Ray Marler</b>		<b>X</b>	
Town of Newville		Mayor	Jerome Thomas		X	
Town of Haleburg		Mayor	Roger Money		X	
	Henry County Schools	Superintendent	Lori Parker Beasley		X	
<b>Houston County</b>						
	<b>Houston County EMA</b>	<b>EMA Director</b>	<b>Chris Judah</b>	<b>X</b>	<b>X</b>	<b>X</b>
	<b>Houston County Engineer</b>	<b>County Engineer</b>	<b>Barkley Kirkland</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>City of Dothan</b>		<b>Mayor</b>	<b>Mark Saliba</b>	<b>X</b>		
	<b>Dothan City Schools</b>	<b>Superintendent</b>	<b>Dennis Coe</b>	<b>X</b>		
	<b>Houston County Schools</b>	<b>Superintendent</b>	<b>Brandy White</b>	<b>X</b>		
City of Ashford		Mayor	Carole Barfield	X		

Town of Avon		Mayor	Timothy Prevatt	X		
Town of Columbia		Mayor	Rhonda Freeman	X		
Town of Cottonwood		Mayor	James Coachmen	X		
Town of Cowarts		Mayor	Randy Roland	X		
Town of Gordon		Mayor	Shanna Ray	X		
Town of Kinsey		Mayor	Jason Reneau	X		
Town of Madrid		Mayor	Elaine Williams	X		
Town of Rehobeth		Mayor	Kinberly Trotter	X		
City of Taylor		Clerk	Theresa Adams	X		
Town of Webb		Mayor	Cindy Buie	X		

### 3.3 Public and Other Stakeholder Involvement

Opportunity for participation in the hazard mitigation planning process and public comment was provided for in multiple ways. All county stakeholder meetings were open to the public, public meetings were held for review of the plan draft and will be held again prior to adoption of the approvable plan, and plan drafts were available for review at municipal offices, as well as being posted on SEARP&DC's website. Because of COVID-19 restrictions, some public meetings were held virtually via ZOOM; however, every effort was made to ensure the public had opportunities to participate in these meetings. The public was informed of the hazard mitigation plan and invited and encouraged to attend planning meetings through various media announcements, including but not limited to: newspaper notices and advertisements, radio advertisements, open meeting websites, local EMA website postings, community events, and local postings. Further, the draft hazard mitigation plan was submitted to EMA Directors in the surrounding counties for review and comment prior to plan submittal to AEMA and FEMA. Documentation of public participation, though limited, is included in the appendices as Section 7.2. Future plan updates will work to incorporate additional public involvement, as described in Section 6.3.

SEARP&DC, SCADC, and local EMA directors consulted with multiple stakeholders in formation of the plan. The U.S. Army Corps of Engineers and the Alabama Office of Water Resources provided information concerning dam failure and mitigation. The Alabama Office of Water Resources, located within the Alabama Department of Economic and Community Affairs (ADECA), was also instrumental in the provision of flood data and repetitive loss information. The Alabama Forestry Commission and the Southern Wildfire Risk Assessment Portal provided information pertaining to wildfire information. The Geological Survey of Alabama (GSA) was consulted for landslide and land subsidence hazard information. Concepts of the plan update were discussed with regional partners. Local offices of the Alabama Department of Public Health were involved in multiple planning meetings. Representatives from local higher education, such as Troy University and LBW Community College reviewed hazard mitigation data. Private sector entities, such as local chambers of commerce, health care providers, local businesses, and the American Red Cross were also instrumental in the provision of background data for the regional plan.

### 3.4 Integration with Existing Plans

Existing plans were consulted early in the development of the Regional Hazard Mitigation Plan to develop an understanding of the growth and development patterns in the 10-county region and to further

review the region's capacity for hazard mitigation implementation at a local, county and regional level. No jurisdictions have incorporated the mitigation plan into other planning mechanisms over the past five (5) years. However, jurisdictions will develop plans to integrate the mitigation plan in the future. Growth and development patterns are essential in hazard mitigation to identify hazard risks and how to minimize them. Other sources utilized for data incorporation are listed in the Section 4: Risk Assessment. The local, regional and statewide plans that were reviewed during the development of the AEMA Division B Multi-Jurisdictional Hazard Mitigation Plan are listed below.

- **Alabama State Hazard Mitigation Plan, July 2018:**  
The State Hazard Mitigation Plan was consulted to assist with consistency of information within the regional plan, including items within the Risk Assessment and local capabilities.
- **Alabama Drought Management Plan (2018 Update)**  
The Alabama Drought Management Plan was studied to provide background information of drought impacts on the planning area.
- **Regional Comprehensive Economic Development Strategy (CEDS)**  
The SEARP&DC and the SCADC Comprehensive Economic Development Strategies, or CEDS, were consulted to ensure the Hazard Mitigation Plan is consistent with the economic development strategy for the 10-county region. Each economic development district is required to develop a new CEDS every five years that provides an overview of the region's economy and to outline a development strategy, as well as associated projects, that will increase the overall economy and quality of life in the region. Each CEDS is then updated annually with an annual report. Seven of the ten counties in the region are included in the SEARP&DC CEDS and three of the counties are included in the SCADC CEDS
  - SEARP&DC Comprehensive Economic Development Strategy, 2017-2022
  - SCAEDD Comprehensive Economic Development Strategy, 2018 Update
  - SCAEDD 2019 Annual Report
- **Local Hazard Mitigation Plans:**  
Each of the ten counties in AEMA Division B has previously developed local hazard mitigation plans. These plans were reviewed for consistency of information within the regional plan and for review and continuation of hazard mitigation strategies.
- **Emergency Operations Plans:**  
Each county in AEMA Division B has an Emergency Operations Plan (EOP) that is utilized in an emergency situation. The plans summarize various hazards and provide direction for emergency personnel in disaster situations. These plans complement the hazard mitigation plan, but do not necessarily cover the same material.
- **Local Growth and Development Plans and Regulations:**  
A review of local long-range growth and development plans, economic development plans, and development regulations helped determine growth patterns that will have an impact on hazard mitigation or may be impacted by the potential for natural hazard events.
  - Barbour County Flood Ordinance
  - Barbour County Subdivision Regulations
  - Butler County Flood Ordinance
  - Butler County Subdivision Regulations
  - Butler County Commission for Economic Development Strategic Plan
  - Coffee County Flood Ordinance

- Coffee County Subdivision Regulations
- Covington County Flood Ordinance
- Covington County Subdivision Regulations
- Crenshaw County Flood Ordinance
- Crenshaw County Subdivision Regulations
- Dale County Flood Ordinance
- Dale County Subdivision Regulations
- Geneva County Flood Ordinance
- Geneva County Subdivision Regulations
- Henry County Flood Ordinance
- Henry County Subdivision Regulations
- Houston County Flood Ordinance
- Houston County Subdivision Regulations
- Pike County Flood Ordinance
- Pike County Subdivision Regulations
- City of Abbeville Comprehensive Plan
- City of Abbeville Zoning Ordinance
- City of Andalusia Comprehensive Plan
- City of Andalusia Zoning Ordinance
- City of Andalusia Subdivision Regulations
- City of Ashford Zoning Ordinance
- Town of Baker Hill Zoning Ordinance
- City of Brantley Subdivision Regulations
- City of Brantley Zoning Ordinance
- City of Brundidge Comprehensive Plan
- City of Brundidge Subdivision Regulations
- City of Brundidge Zoning Ordinance
- City of Clayton Zoning Ordinance
- Town of Clio Zoning Ordinance
- City of Daleville Comprehensive Plan
- City of Daleville Zoning Ordinance
- City of Enterprise Comprehensive Plan
- City of Enterprise Zoning Ordinance
- City of Enterprise Subdivision Regulations
- City of Elba Zoning Ordinance
- City of Eufaula Zoning Ordinance
- City of Eufaula Subdivision Regulations
- City of Florala Zoning Ordinance
- City of Geneva Subdivision Regulations
- City of Geneva Zoning Ordinance
- City of Georgiana Subdivision Regulations
- City of Georgiana Zoning Ordinance
- City of Greenville Comprehensive Plan
- City of Greenville Subdivision Regulations
- City of Greenville Zoning Ordinance
- City of Hartford Zoning Ordinance
- City of Headland Zoning Ordinance
- City of Luverne Subdivision Regulations

- City of Luverne Zoning Ordinance
- City of Opp Zoning Ordinance
- City of Opp Subdivision Regulations
- City of Samson Zoning Ordinance
- City of Slocumb Zoning Ordinance
- Town of River Falls Zoning Ordinance
- City of Troy Comprehensive Plan
- City of Troy Subdivision Regulations
- City of Troy Zoning Ordinance

### **3.5 Multi-Jurisdictional Plan Adoption**

Each participating jurisdiction will adopt the AEMA Division B Multi-Jurisdictional Hazard Mitigation Plan when it is deemed “approvable pending adoption” by the Federal Emergency Management Agency (FEMA). Eligible jurisdictions include regional planning councils and local governing bodies, including county commissions, municipal councils, and local school districts. (Draft) Resolutions for each participating jurisdiction are provided in the appendices of this document in Section 7.3.

## Section 4 Hazard Profiles and Risk Assessment – AEMA Division B

### Section Contents

- 4.1 Hazard Overview
- 4.2 Hazard Profiles
- 4.3 Technological and Human-Caused Hazards
- 4.4 Vulnerability Overview
- 4.5 Probability of Future Occurrence and Loss Estimation
- 4.6 Total Population and Property Valuation Summary by Jurisdiction
- 4.7 Critical Facilities/Infrastructure by Jurisdiction
- 4.8 Hazard Impacts

**Table 4.1 Data Sources per Hazard\***

Agency/Organization	DF	DR/EH	EQ	FL	HW	LS	SU	WF	WS
ADECA-OWR	X	X		X					
AFC								X	
ASCE	X								
ASCE/SEI					X				
ASDSO	X								
Climate Central								X	
Climate Impact Lab									
FEMA	X	X	X	X	X	X	X	X	X
Geological Survey of Alabama (GSA)			X			X			
NOAA, National Centers for Environmental Information		X		X	X				X
National Weather Service				X	X				X
Southern Wildfire Risk Assessment Portal (SWRAP)								X	
The Tornado History Project					X				
The Tornado and Storm Research Organization (TORRO)					X				
US Army Corps of Engineers	X								
US Geological Survey (USGS)			X			X	X		

\*Hazards are abbreviated as follows: Dam Failure (DF), Drought and Extreme Heat (DR/EH), Earthquakes (EQ), Flooding (FL), High Winds (HW), Landslides (LS), Sinkholes and Land Subsidence (SU), Wildfire (WF), Winter/Ice Storms (WS)

## 4.1 HAZARD OVERVIEW

The AEMA Division B Region is affected by a wide range of natural and human-caused hazards that negatively impact life and property. Current FEMA regulations under the Disaster Mitigation Act of 2000 (DMA 2000) require, at a minimum, an evaluation of a full range of natural hazards. An evaluation of human-caused hazards (i.e., technological hazards, terrorism, etc.) is allowed, but not required for plan approval. Natural hazards that have the potential to impact Butler County were identified using a variety of resources. Using a list of natural hazards available through FEMA, research was conducted into past disaster occurrences in the ten AEMA Division B Counties and the physical characteristics of the county that lend themselves to natural hazard occurrences, along with a review of historical and existing plans and regulations in those counties that identify the potential for natural hazards.

In the initial review of the list of natural hazards, five of hazards were eliminated due to a lack of applicability in the region. The five hazards that were discounted were avalanche, coastal erosion, earthquake, tsunami, and volcano. Many hazards are multi-faceted and interrelated; therefore, some are grouped together due to their impacts and mitigation strategies being similar. An example is a high wind event, resulting from a hurricane, tornado, or severe thunderstorm, may produce direct damage to critical facilities and other structures and may render roadways impassible due to debris. It was further determined that the 2020 AEMA Division B Hazard Mitigation Plan would address nine shown in Table 4.1 below.

**Table 4.1: Potential Hazards and Data Sources Hazard**

Hazard	Risk	Source	Correlation with Region
Avalanche	No	US Forest Service National Avalanche Center ( <a href="http://www.fsavalanche.org/">http://www.fsavalanche.org/</a> )	No risk of avalanche events in Alabama
Coastal Erosion	No	FEMA Coastal Erosion Hazards Report ( <a href="http://www.fema.gov/media-library/assets/documents/8397">http://www.fema.gov/media-library/assets/documents/8397</a> )	AEMA Division B is an inland area
Dam Failure	Yes	USACE National Inventory of Dams ( <a href="http://geo.usace.army.mil/pgis/f?p=397:12:">http://geo.usace.army.mil/pgis/f?p=397:12:</a> ) ADECA Office of Water Resources ( <a href="https://adeca.alabama.gov/Divisions/owr/floodplain/Pages/default.aspx">https://adeca.alabama.gov/Divisions/owr/floodplain/Pages/default.aspx</a> )	Population downstream from dams; flooding concerns; no State regulation of dam safety
Drought / Extreme Heat	Yes	United States Drought Monitor ( <a href="http://droughtmonitor.unl.edu/">http://droughtmonitor.unl.edu/</a> ) NOAA National Climatic Data Center, Storm Events Database ( <a href="http://www.ncdc.noaa.gov/stormevents/">http://www.ncdc.noaa.gov/stormevents/</a> ) NOAA National Centers for Environmental information, Climate at a Glance: County Time Series ( <a href="https://www.ncdc.noaa.gov/cag/">https://www.ncdc.noaa.gov/cag/</a> ) NOAA, National Weather Service. ( <a href="https://www.weather.gov/safety/heat-index">https://www.weather.gov/safety/heat-index</a> )	Historic incidents with damage
Flooding	Yes	NOAA National Climatic Data Center ( <a href="http://www.ncdc.noaa.gov/stormevents/">http://www.ncdc.noaa.gov/stormevents/</a> )	Historic incidents with damage / identified flood hazard areas
High Winds (Hail, Hurricanes, Severe Storms, Tornadoes, Windstorms)	Yes	National Weather Service (NWS) Storm Data ( <a href="http://www.srh.noaa.gov/bmx/?n=stormdata_main">http://www.srh.noaa.gov/bmx/?n=stormdata_main</a> ) NWS Tornado Database ( <a href="http://www.srh.noaa.gov/bmx/?n=tornadodb_main">http://www.srh.noaa.gov/bmx/?n=tornadodb_main</a> ) National Hurricane Center Data Archive ( <a href="http://www.nhc.noaa.gov/data/#tcr">http://www.nhc.noaa.gov/data/#tcr</a> )	Historic incidents with damage

Landslides	Yes	USGS Landslides Hazard Program ( <a href="http://landslides.usgs.gov/hazards/nationalmap/">http://landslides.usgs.gov/hazards/nationalmap/</a> ) / Geological Survey of Alabama, Landslides ( <a href="http://gsa.state.al.us/gsa/geologichazards/Landslides.htm">http://gsa.state.al.us/gsa/geologichazards/Landslides.htm</a> )	Susceptible areas to landslides
Land Subsidence / Sinkholes	Yes	Geological Survey of Alabama, Sinkholes in Alabama ( <a href="http://gsa.state.al.us/gsa/geologichazards/Sinkholes_AL.htm">http://gsa.state.al.us/gsa/geologichazards/Sinkholes_AL.htm</a> )	Susceptible areas to land subsidence / sinkholes
Tsunami	No	FEMA, Tsunami ( <a href="http://m.fema.gov/tsunamis">http://m.fema.gov/tsunamis</a> )	AEMA Division B is an inland area
Volcano	No	FEMA, Volcanoes ( <a href="http://m.fema.gov/volcanoes">http://m.fema.gov/volcanoes</a> )	Not near an active volcano
Wildfire	Yes	Alabama Forestry Commission Wildfire Assessment Maps ( <a href="http://www.forestry.alabama.gov/fireRiskAssessmentMaps.aspx?bv=1&amp;s=4">http://www.forestry.alabama.gov/fireRiskAssessmentMaps.aspx?bv=1&amp;s=4</a> )	Historic incidents with damage / identified susceptible areas
Winter / Ice Storms	Yes	NOAA National Climatic Data Center ( <a href="http://www.ncdc.noaa.gov/stormevents/">http://www.ncdc.noaa.gov/stormevents/</a> )	Historic incidents with damage

A review of FEMA's historical disaster declarations in Alabama indicates counties in the AEMA Division B have included in 34 federal disaster declarations since 1953, as compared to a total of 90 declarations for the entire state. Federal declarations that included any part of the AEMA Division B region are shown in Table 4.2. Of the total federal declarations in the area, 17 declarations have been for severe storm events, and 13 declarations have been for hurricane events. Of the remaining declarations, two were for flooding, one was for drought, and one was for snow.

Barbour County has been included in 16 federal disaster declarations since 1953, as compared to a total of 90 declarations for the entire state. Of the 16 disasters eight were emergency and eight were disaster. All disaster events but one drought event, were related to either hurricanes or severe storms/tornadoes. In five declarations, both public and individual assistance was provided. In the remaining 11 declarations, only public assistance was provided.

Butler County has been included in 20 federal declarations, of which eight were emergency declarations and 12 were disaster declarations. All disaster events but one drought event and one snow event, were related to either hurricanes or severe storms/tornadoes. Hurricane impacts may include high winds and flooding. Severe storm impacts may include tornadoes, straight-line winds, and flooding. Public assistance was provided in all 20 declarations and private assistance was provided six declarations.

Coffee County has been included in 24 federal disaster declarations since 1953, as compared to a total of 90 declarations for the entire state. Coffee County declarations are shown in Table 4.2. Of the 24 declarations, eight were emergency and sixteen were disaster. All disaster events but one drought event, were related to either hurricanes or severe storms/tornadoes. Hurricane impacts may include high winds and flooding. Severe storm impacts may include tornadoes, straight-line winds, and flooding. In 14 declarations, both public and individual assistance was provided. In the remaining 10 declarations, only public assistance was provided.



Covington County has been included in 26 federal disaster declarations since 1953, as compared to a total of 90 declarations for the entire state. Covington County declarations are shown in Table 4.2. Of the 26 declarations, nine were emergency and seventeen were disasters. All disaster events but one drought event, were related to either hurricanes or severe storms/tornadoes. Hurricane impacts may include high winds and flooding. Severe storm impacts may include tornadoes, straight-line winds, and flooding. In all 30 declarations, both public and individual assistance was provided.

Crenshaw County has been included in 22 federal declarations, of which eight were emergency declarations and 14 were disaster declarations. Of the 22 declarations in Crenshaw County, ten were for severe storms, nine were for hurricane events, one was a drought event, one was a flood and one was a snow event. Hurricane impacts may include high winds and flooding. Severe storm impacts may include tornadoes, straight-line winds, and flooding. Public assistance was provided in all 22 declarations and private assistance was provided seven declarations.

Dale County has been included in 31 federal disaster declarations since 1953, as compared to a total of 90 declarations for the entire state. Dale County declarations are shown in Table 4.2. Of the 18 declarations, four were emergency and fourteen were disaster. All disaster events but one drought event, were related to either hurricanes or severe storms/tornadoes. Hurricane impacts may include high winds and flooding. Severe storm impacts may include tornadoes, straight-line winds, and flooding. In five declarations, both public and individual assistance was provided. In the remaining 11 declarations, only public assistance was provided.

Geneva County has been included in 30 federal disaster declarations since 1953, as compared to a total of 90 declarations for the entire state. Geneva County declarations are shown in Table 4.2. Of the 30 declarations, eight were emergency and twenty-two were disaster. All disaster events but one drought event, were related to either hurricanes or severe storms/tornadoes. Hurricane impacts may include high winds and flooding. Severe storm impacts may include tornadoes, straight-line winds, and flooding. In all 30 declarations, both public and individual assistance was provided.

Henry County has been included in 26 federal disaster declarations since 1953, as compared to a total of 90 declarations for the entire state. Henry County declarations are shown in Table 4.2. Of the 26 declarations, nine were emergency and seventeen were disasters. All disaster events but one drought event, were related to either hurricanes or severe storms/tornadoes. Hurricane impacts may include high winds and flooding. Severe storm impacts may include tornadoes, straight-line winds, and flooding. In all 30 declarations, both public and individual assistance was provided.

Houston County has been included in 25 federal disaster declarations since 1953, as compared to a total of 90 declarations for the entire state. Houston County declarations are shown in Table 4.2. Of the 25 declarations, nine were emergency and sixteen were disaster. All disaster events but one drought event, were related to either hurricanes or severe storms/tornadoes. Hurricane impacts may include high winds and flooding. Severe storm impacts may include tornadoes, straight-line winds, and flooding. In all 25 declarations, both public and individual assistance was provided.

Pike County has been included in 18 federal declarations, of which seven were emergency declarations and 11 were disaster declarations. Eight of the declarations were for severe storm events, seven were for hurricanes, and one each were for drought, flooding and snow. Hurricane

impacts may include high winds and flooding. Severe storm impacts may include tornadoes, straight-line winds, and flooding. Public assistance was provided in all 18 declarations and private assistance was provided six declarations.

**Table 4.2: Summary of AEMA Division B Disaster Declarations, 1953 to 2020**

Declaration Date	Disaster Number	Type of Incident	Assistance Provided		Counties Affected										
			Individual	Public	Barbour	Butler	Coffee	Covington	Crenshaw	Dale	Geneva	Henry	Houston	Pike	
3/14/1975	DR-458	Severe Storms, Flooding	X	X	X		X		X	X	X			X	
4/23/1975	DR-464	Severe Storms, Flooding	X	X			X	X		X					
10/2/1975	DR-488	Severe Storms, Tornadoes, Flooding	X	X	X		X	X	X	X	X	X	X	X	
7/20/1977	EM-3045	Drought		X	X	X	X	X	X	X	X	X	X	X	
9/13/1979	DR-598	Hurricane (Frederic, 9/13/1978)	X	X				X							
3/21/1990	DR-861	Severe Storms, Tornadoes, Flooding	X	X	X	X	X	X	X	X	X	X		X	
3/15/1993	EM-3096	Severe Snowfall, Winter Storm		X	X	X	X	X	X	X	X	X	X	X	
7/8/1994	DR-1034	Severe Storm, Flooding, Tropical Storm Alberto	X	X	X		X	X		X	X	X	X		
10/4/1995	DR-1070	Hurricane (Opal, 10/4-8/1995)	X	X	X	X	X	X	X	X	X	X	X	X	
3/9/1998	DR-1208	Severe Storms, Flooding	X	X	X	X	X	X	X	X	X	X	X	X	
4/9/1998	DR-1214	Tornadoes, Severe Storms	X	X				X							
9/28/1998	EM-3133	Hurricane (Georges, 9/25-10/6/1998)		X		X	X	X	X		X				
9/30/1998	DR-1250	Hurricane (Georges, 9/25-10/6/1998)	X	X		X	X	X	X		X				
12/18/2000	DR-1352	Tornadoes	X	X						X	X	X	X		
12/7/2001	DR-1399	Severe Storms, Tornadoes	X	X		X				X					
11/14/2002	DR-1442	Severe Storms, Tornadoes	X		X					X		X	X		
9/15/2004	DR-1549	Hurricane (Ivan, 9/13-30/2004)	X		X							X			
9/15/2004	DR-1549	Hurricane (Ivan, 9/13-30/2004)	X	X	X	X	X	X	X	X	X	X	X	X	
9/10/2005	EM-3237	Hurricane (Katrina Evacuation, 8/29-10/1/2005)		X	X	X	X	X	X	X	X	X	X	X	
3/3/2007	DR-1687	Severe Storms and Tornadoes	X	X			X			X		X			
8/30/2008	EM-3292	Hurricane (Gustav, 8/29-9/3-2008)		X	X	X	X	X	X	X	X	X	X	X	
4/28/2009	DR-1835	Severe Storms, Tornadoes, Straight-line Winds, Flooding	X	X				X			X		X		
12/31/2009	DR-1870	Severe Storms and Flooding		X	X	X	X	X	X	X	X	X		X	
4/27/2011	EM-3319	Severe Storms, Tornadoes, Straight-line Winds (4/27-5/31/2011)		X	X	X	X	X	X	X	X	X	X	X	
4/28/2011	DR-1971	Severe Storms, Tornadoes, Straight-line Winds, Flooding (4/15-5/31/2011)		X	X	X	X	X	X	X	X	X	X	X	
9/21/2012	DR-4082	Hurricane (Issac, 8/26-9/5/2012)		X				X			X				
5/2/2014	DR-4176	Severe Storms, Tornadoes, Straight-line Winds, Flooding (4/28-5/5/2014)		X		X		X	X		X		X		
1/21/2016	DR-4251	Severe Storms, Tornadoes, Straight-line Winds, Flooding (12/23-31/15)		X	X	X	X	X	X	X	X	X	X	X	
9/11/2017	EM-3389	Hurricane (Irma - 9/8-14/2017)		X	X	X	X	X	X	X	X	X	X	X	
10/8/2017	EM-3394	Hurricane (Nate - 10/6-10/2018)		X	X	X	X	X	X	X	X	X	X	X	
10/12/2018	DR-3407	Hurricane (Michael - 10/10-13/2018)		X	X	X	X	X	X	X	X	X	X	X	

11/5/2018	DR-4406	Hurricane (Michael - 10/10-10/13/2018)		X						X	X	X	
5/21/2020	DR-4546	Severe Storms, Flooding (2/5-3/6/2020)		X		X		X	X				
7/10/2020	DR-4554	Severe Storms, Straight-line Winds, And Tornadoes		X	X		X	X	X	X		X	X

Source: Federal Emergency Management Agency, <https://www.fema.gov/disasters>

NOAA's National Centers for Environmental Information (NCEI) provides historic storm event data from January 1, 1950 to present day. This database was a primary source for storm event data for this risk analysis. The database includes data drought, excessive heat, flooding, high wind events, wildfires, and winter/ice storm events. It does not provide data for dam failures, earthquakes, landslides, or land subsidence/sinkholes. Table 4.3 provides a summary of storm events over the last 70 years by county. Past storm events are investigated more thoroughly for each hazard in the following hazard profile sections.

**Table 4.3: Summary of Barbour County Storm Events by Jurisdiction, 1950 to 2020**

Barbour County	County wide	Unincorp. Barbour Co.	Town of Baker Hill	Town of Blue Springs	City of Clayton	Town of Clio	City of Eufaula	Town of Louisville	Total
Number of Events	66	34			30	64	10		204
Number Deaths	2	0			1	1	0		4
Number Injuries	11	0			2	3	3		19
Property Damage	\$2,637,530	\$1,472,500			\$321,000	\$636,500	\$166,500		\$5,234,030
Crop Damage	\$0	\$0			\$0	\$0	\$0		\$0

**Table 4.4: Summary of Butler County Storm Events by Jurisdiction, 1950 to 2020**

Affected Area	Countywide	Unincorp. Butler Co.	Town of Georgiana	City of Greenville	Town of McKenzie	Total
Number of Events	18	81	29	61	10	199
# Deaths	0	2	1	1	0	4
# Injuries	0	11	2	2	3	18
Property Damage	\$1,810,000	\$2,300,030	\$321,000	\$636,500	\$166,500	\$3,424,030
Crop Damage	\$0	\$0	\$0	\$0	\$0	\$0

**Table 4.5: Summary of Coffee County Storm Events by Jurisdiction, 1950 to 2020**

Affected Area	Countywide	Unincorp. Coffee Co.	City of Elba	City Enterprise	Town Kinston	Town of New Brockton	Total
Number of Events	10	312	40	67	15	12	456
Number Deaths	0	2	0	0	0	0	2
Number Injuries	0	11	1	1	0	0	13
Property Damage	\$418,600	\$2,300,030	\$52,500	\$424,000	\$109,000	\$7,000	\$3,424,030
Crop Damage	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**Table 4.6: Summary of Covington County Storm Events by Jurisdiction, 1950 to 2020**

Affected Area	Countywide	Unincorp. Covington County	City of Andalusia	Town of Babbie	City of Opp	Town of Floral	Town of Lockhart	Town of Red Level	Total
Number of Events	3	205	87	3	51	22	5	21	397
Number Deaths	0	2	0	0	0	1	0	2	5
Number Injuries	0	15	1	0	8	0	0	1	25

**Table 4.7: Summary of Crenshaw County Storm Events by Jurisdiction, 1950 to 2020**

Affected Area	County- wide	Unincorp. Crenshaw County	City Luverne	Town of Brantley	Town of Dozier	Town of Glenwood	Town of Petrey	Town of Rutledge	Total
Number of Events	0	35	31	22	11	5	4	7	115
Number Deaths	0	0	0	0	0	0	0	0	0
Number Injuries	0	30	0	0	0	0	0	0	30
Property Damage	\$285,000	\$2.85m	\$1.21m	\$222,000	\$57,500	\$69,500	\$79,750	\$2.03m	\$7.78m
Crop Damage	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**Table 4.8: Summary of Dale County Storm Events by Jurisdiction, 1950 to 2020**

Affected Area	County- wide	Unincorp. Dale County	City of Ozark	Town of Ariton	City of Daleville	Town of Midland City	Town of Newton	Town of Pinckard	Town of Echo	Total
Number of Events	6	186	77	15	18	13	14	14	12	355
Number Deaths	0	2	0	0	0	0	0	0	0	2
Number Injuries	0	2	0	0	25	0	0	0	7	34

**Table 4.9: Summary of Geneva County Storm Events by Jurisdiction, 1950 to 2020**

Affected Area	Countywide	Unincorp. Geneva County	Town of Samson	Town of Slocumb	City of Geneva	Town of Malvern	Town of Hartford	Town of Black	Total
Number of Events	15	194	31	30	46	14	23	10	363
Number Deaths	0	0	0	0	1	0	0	0	1
Number Injuries	0	5	3	0	12	0	0	0	20
Property Damage	\$36,000	\$20.881 m	\$1.805m	\$612,000	\$3.916m	\$218,000	\$331,000	\$271,500	\$28.157m
Crop Damage	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**Table 4.10: Summary of Henry County Storm Events by Jurisdiction, 1950 to 2020**

Affected Area	Countywide	Unincorp. Henry County	City of Abbeville	City of Headland	Town of Newville	Total
Number of Events	3	213	54	27	12	309
Number Deaths	0	1	1	0	0	2
Number Injuries	0	6	22	8	0	36
Property Damage	\$15,000	\$13.16 m	\$19.226m	\$2.155m	\$425,500	\$34.13m
Crop Damage	\$0	\$500	\$0	\$0	\$0	\$500

**Table 4.11: Summary of Houston County Storm Events by Jurisdiction, 1950 to 2020**

Affected Area	County wide	Unincorp. Houston County	City of Dothan	Town of Taylor	Town of Cottonwood	Town of Columbia	Town of Ashford	Town of Madrid	Town of Wicksburg	Town of Kinsey	Total
Number of Events	12	309	83	15	38	12	29	14	31	12	555
Number Deaths	0	6	0	0	0	0	0	0	0	0	6
Number Injuries	0	16	7	0	1	0	0	2	0	0	26
Property Damage	\$535,000	\$96.84m	\$2.9m	\$652,000	\$201,500	\$1.73m	\$56,250	\$309,000	\$1.73 m	\$23,000	\$107 m
Crop Damage	\$0	\$10,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,000

Source: NOAA, National Centers for Environmental Information, Storm Events Database.

<https://www.ncdc.noaa.gov/stormevents/choosedates.jsp?statefips=1%2CALABAMA>

## 4.2 HAZARD PROFILES

### DAM FAILURE

#### *Description.*

A dam is a “barrier across flowing water that obstructs, directs or slows down the flow, often creating a reservoir, lake or impoundments”. Most dams have a section that is called a spillway or a weir that water may flow through or over either intermittently or continuously. Dam failure occurs when the structural dam no longer creates a sound barrier to the flowing water. Dam failure can occur with little to no warning. Further, dam failure does not always occur during a storm event. Dam failure can result in flash flooding or severe inundation depending on the severity of the dam failure. Breaching can occur very quickly after the beginning of a storm event or can occur over an extended period of time up to a couple of weeks after a storm event from increased water pressure on the dam structure. Flooding can also occur from if a dam operator releases excess water downstream to relieve the water pressure on a dam.

#### *Location.*

There are 8 dams in Barbour County. There are no dams in Barbour County rated as a high-hazard dam; however, one dam is rated as having a significant hazard potential. The dam rated as having a significant hazard potential is located near the Town of Blue Springs. The dam rated as having a significant hazard potential is 11 feet high.

There are 21 dams in Butler County according to the U.S. Army Corps of Engineers (USACE) National Dam Inventory (NID). The average age of dams in Butler County is 54 years old.

There are 27 dams in Coffee County according to the U.S. Army Corps of Engineers (USACE) National Dam Inventory (NID) all of which are earth dams. All of the dams are privately owned except for the dam located at the Coffee County Lake which is owned by the State of Alabama. The average age of dams in Coffee County is 69 years old. A list of the Coffee County dams is provided below and their location is shown in Figure 1 There are a total of 19 dams in Covington County according to the U.S. Army Corps of Engineers (USACE) National Dam Inventory (NID), five of which are gravity dams, one buttress and thirteen earth dams, and all of the dams but two are privately owned. Generally, the dams are scattered across Covington County on privately owned lakes/ponds and on Gantt Lake. The average age of dams in Covington County is 55 years old.

There are 18 dams in Crenshaw County, according to the U.S. Army Corps of Engineers (USACE) National Dam Inventory (NID). The average age of the dams are 57 years old in Crenshaw County.

There are 22 dams in Dale County according to the U.S. Army Corps of Engineers (USACE) National Dam Inventory (NID). There are two dams in Dale County rated as a high-hazard dam, and one dam is rated as having a significant hazard potential. The dam rated as having a significant hazard potential is James Crooks Lake Dam located in south central Dale County.

There are 19 dams in Geneva County, seven of which are Gravity dams and twelve of them earth dams. All of the dams are privately owned except for Geneva County Number One and Number two, which are both owned by the County. Generally, the dams are scattered across Geneva County

along the Pea and Choctawhatchee River as well as smaller creeks running throughout the county. The average age of dams in Geneva County is 54 years old.

There are a total of 8 dams in Henry County according to the U.S. Army Corps of Engineers (USACE) National Dam Inventory (NID), all of which are earth dams, and all of the dams are privately owned. Generally, the dams are scattered across Henry County on privately owned lakes/ponds. The average age of dams in Henry County is 55 years old. A list of the Henry County dams is provided below and their location is shown in Figure 4.1.

There are 15 dams in Houston County according to the U.S. Army Corps of Engineers (USACE) National Dam Inventory (NID), and Of the 15 dams located in Houston County, 2 have a high hazard risk, 2 with significant risk, and the remaining 11 have a low hazard risk.

There are 21 dams in Pike County according to the U.S. Army Corps of Engineers (USACE) National Dam Inventory (NID), all of which are earth dams. All dams are privately owned except for Butler County Number One, or Lower Lake Dam, which is owned by the State of Alabama, and, which is owned by Pike County. None of the dams are regulated by either the State of Alabama or any federal agency, and none of the dams are used for hydropower purposes 57 years old in Crenshaw County, and 52 years old in Pike County. A list of the known existing dams is provided below, and their location is shown in Figures 4.1 through 4.10.

**Table 4.12: Barbour County Dams**

NID ID	DAM NAME	OWNER	YEAR COMPLETED/MODIFIED	NID DAM HEIGHT (feet)	NID STORAGE (acre feet)	NID HAZARD RATING
AL00236	BARBOUR COUNTY PUBLIC LAKE DAM	STATE	1952	29	757	L
AL00239	EASTERLING MILL POND DAM	PRIVATE	1900	18	177	L
AL00241	GRANTS DUCK POND	PRIVATE	1940	12	174	L
AL00246	LOUISVILLE CLUB POND DAM	PRIVATE	1958	11	34	S
AL00248	WYECOTT LAKE DAM	PRIVATE	1968	19	283	L
AL00249	SUTTON LAKE DAM	PRIVATE	1970	21	120	L
AL00250	MC CALLS LAKE DAM	PRIVATE	1970	22	176	L
AL00251	WESTON LAKE DAM	PRIVATE	1960	15	58	L

**Table 4.13: Butler County Dams**

NID ID	DAM NAME	OWNER	YEAR COMPLETED/ MODIFIED	NID DAM HEIGHT (feet)	NID STORAGE (acre feet)	NID HAZARD RATING
AL00037	LAKE GREENVILLE	PRIVATE	1954	15	546	L
AL00038	MC GOWIN	PRIVATE	1953	15	73	S
AL00039	ALEXANDER	PRIVATE	1969	14	245	L
AL00040	LAKE TANNER DAM	PRIVATE	1965	23	368	L
AL00043	BUTLER COUNTY NUMBER ONE (LOWER LAKE)	STATE	1949	35	294	L
AL00044	SHIRLING LAKE NO 1 (UPPER LAKE DAM)	PRIVATE	1949	25	70	L
AL00045	AUTREY	PRIVATE	1960	12	96	L
AL00046	W O BLACKMON	PRIVATE	1957	15	67	L
AL00047	CONSERVATION LAKE	PRIVATE	1967	14	89	L
AL01385	GOLSON POND	PRIVATE	1962	18	51	S
AL01798	WYROSDICK POND DAM	PRIVATE	1969	18	64	L
AL01799	THOMPSON POND DAM (BRIDGEWATERS LAKE)	PRIVATE	1965	22	67	L
AL01800	STIRLING HAMILTON LAKE	PRIVATE	1960	20	58	L
AL01801	SPORTSMEN CLUB LAKE	PRIVATE	1965	25	106	S
AL01802	F H MORGAN LAKE DAM	PRIVATE		0	0	S
AL01803	GREENVILLE SEWAGE LAGOON Dam	PRIVATE	1975	12	106	L
AL01804	EUGENE R MAJORS LAKE	PRIVATE	1968	24	84	L
AL01805	CONTAINER CORPORATION DAM	PRIVATE	1968	16	50	S
AL01806	EULA B AUTREY LAKE DAM	PRIVATE	1975	31	104	L
AL01807	ALEXANDER POND DAM	PRIVATE		0	0	S
AL01999	KERVIN	PRIVATE	1977	18	113	L

**Table 4.14: Coffee County Dams**

NID ID	DAM NAME	OWNER	YEAR COMPLETED/ MODIFIED	NID DAM HEIGHT (feet)	NID STORAGE (acre feet)	NID HAZARD RATING
AL00284	STATE OF ALABAMA	S	1950	23	657	L
AL00285	NELSON MERRITT	U	1936	18	108	S
AL00286	BOYS SCOUTS OF AMERICA	U	1972	25	840	L
AL00287	CHARLES HOLLIS	U	1967	20	101	L
AL00288	E E SMITH	U	1952	22	91	L
AL00289	CHARLES MALLORY	U	1967	22	61	L
AL00290	ENTERPRISE COUNTRY CLUB	U	1961	27	126	S
AL00291	PORTER LUNSFORD	U	1961	26	151	S
AL00292	ELBA HYDRO-ELECTRIC POWER, INC.	P	1922	39	950	L
AL00293	DEVAUGHN	U	1966	23	73	L
AL00294	EARL SAWYER	U	1966	20	120	L



AL00295	FLOURNOY WHITMAN	U	1955	18	81	L
AL00296	SAM SAWYER	U	1957	20	173	L
AL00297	ELLIS WISE	U	1970	27	85	L
AL00298	CO	U		0	0	S
AL00299	MRS H A NOLIN	U	1953	7	53	L
AL01937	COFFEE COUNTY LAND CO	U	1977	27	417	L
AL01941	MAX LINDSEY	U	1978	26	316	L
AL01947	ELBA COUNTRY CLUB	U		0	0	S
AL01948	OLIVER LAKE ASSOCIATION	U		0	0	H
AL02009	MARION SANDERS	U	1973	22	302	L
AL02010	BILLY MURDOCK & SKINNER	U	1974	20	109	L
AL02011	NED FOLMAR	U	1984	21	159	L
AL02012	RAY BOYD	U	1981	25	238	L
AL83478	ROLAND POWELL	U		12	87	H
AL83479	SAM CURTIS	U		14	40.3	H
AL83480	MERRIL & DIANA BARRON	U		22	141.6	H

**Table 4.15: Covington County Dams**

NID ID	DAM NAME	OWNER	YEAR COMPLETED/ MODIFIED	NID DAM HEIGHT (feet)	NID STORAGE (acre feet)	NID HAZARD RATING
AL00656	Billy Carter	PRIVATE	1960	14	101	L
AL01414	Gantt	PUBLIC	1924	44	14,645	H
AL00661	H C Huggins	PRIVATE	1955	17	306	L
AL01413	Point A	PUBLIC	1925	56	2,300	H
AL02017	Anderson Dam	PRIVATE	1981	24	332	L
AL02016	A K Lord	PRIVATE	1977	30	100	L
AL02015	A K Lord	PRIVATE	1978	26	106	L
AL00659	Leo Williams	PRIVATE	1962	12	101	L
AL02018	Anthony Dam	PRIVATE	1980	24	237	L
AL01927	Charles Gibeaut Lake	PRIVATE	1974	17	55	L
AL00658	Robert Brantley	PRIVATE	1960	12	84	L
AL00652	Clifton Maddox	PRIVATE	1960	12	70	L
AL00653	Clifton Maddox	PRIVATE	1960	12	69	L
AL01925	Charles Woodham Lake	PRIVATE	1974	18	85	L
AL00641	James Cravey	PRIVATE	1962	15	123	L
AL00645	Harold Wise	PRIVATE	1966	12	70	L
AL01924	Harold Wise Lake	PRIVATE	1978	15	89	L
AL00644	Danley Estates Lake	PRIVATE	1957	20	53	L
AL00648	Jerry Adams	PRIVATE	1958	14	81	L

**Table 4.16: Crenshaw County Dams**

NID ID	DAM NAME	OWNER	YEAR COMPLETED/ MODIFIED	NID DAM HEIGHT (feet)	NID STORAGE (acre feet)	NID HAZARD RATING
AL00066	BAILEY	Private	1958	24	88	L
AL00067	BRYCE SMITH	Private	1956	27	119	L
AL00069	R D BEASLEY	Private	1960	25	53	L
AL00070	MOODY LAKE	Private	1948	15	138	L
AL00072	BRADLETON LAKE	Private	1960	20	137	L
AL00074	CRENSHAW COUNTY LAKE	Private	1954	24	370	H
AL00075	MAGNOLIA SHORES LAKE	Private	1958	30	562	L
AL00076	B C MASSEY	Private	1959	30	123	L
AL00077	R KILLOUGH	Private	1953	10	104	L
AL00078	SLUGGS	Private	1960	24	79	L
AL00079	L D THAGGARD	Private	1958	18	61	L
AL01880	L E SKIPPER POND DAM	Private	1976	18	60	S
AL01881	KEELOUGH POND DAM	Private	1968	18	60	L
AL01882	CLARK LAKE DAM	Private	1965	27	64	S
AL01883	RAYS POND DAM	Private	1966	22	70	S
AL01884	BOZEMAN POND DAM	Private	1960	20	102	S
AL02019	EMMENT STRICKLAND POND	Private	1974	20	109	L
AL02020	HALLS POND	Private	1969	20	112	L

**Table 4.17: Dale County Dams**

NID ID	DAM NAME	OWNER	YEAR COMPLETED/ MODIFIED	NID DAM HEIGHT (feet)	NID STORAGE (acre feet)	NID HAZARD RATING
AL00672	W G Barnes	PRIVATE	1970	20	52	L
AL02571	Suarez Dam	PRIVATE	2000	30	82	L
AL01906	Marvin Parker Lake Dam No 2	PRIVATE	1970	12	51	L
AL01905	Marvin Parker Lake Dam No 1	PRIVATE	1969	23	157	L
AL02026	W C Brown	PRIVATE	1979	25	47	L
AL01393	Carver Johnson Lake Dam	PRIVATE	1965	9	50	L
AL00669	Jerry McDaniel Lake Dam	PRIVATE	1970	18	107	L
AL0062	Dale County Public Lake	PUBLIC	1956	30	930	H
AL00670	D A Delony	PRIVATE	1968	16	115	L
AL01907	D A Deloney Lake Dam No 2	PRIVATE	1969	13	105	L
AL02022	Bill Deloney	PRIVATE	1984	17	171	L

AL00663	Roy Parker Lake Dam	PRIVATE	1955	23	350	H
AL83512	Ech Lake	FEDERAL	1942	25	83	L
AL00665	Lake Tholocco	FEDERAL	1935	45	17,600	S
AL02025	Ronald Grantham	PRIVATE	1984	25	122	L
AL83513	Beaver Lake	FEDERAL	1958	15	80	L
AL83514	Buck Horn Lake	FEDERAL	1942	26	172	L
AL02023	Jack Snell	PRIVATE	1978	21	108	L
AL00668	James Crooks Lake Dam	PRIVATE	NA	0	0	S
AL02024	Milton Adams	PRIVATE	1984	25	68	L
AL00666	Malchom Ammons	PRIVATE	1973	16	142	L
AL00664	Otis Barfield	PRIVATE	1960	14	83	L

**Table 4.18: Geneva County Dams**

NID ID	DAM NAME	OWNER	YEAR COMPLETED/ MODIFIED	NID DAM HEIGHT (feet)	NID STORAGE (acre feet)	NID HAZARD RATING
AL00717	Lake Fox	PRIVATE	1953	41	232	L
AL00711	Geneva County Lake Number One	PUBLIC	1954	19	238	L
AL00712	Geneva County Lake Number Two	PUBLIC	1954	28	305	L
AL00722	Murdock Pond Dam	PRIVATE	1945	28	38	L
AL02072	Bill Brooks Lake 1	PRIVATE	1981	21	207	L
AL00725	Lake Frankie	PRIVATE	1961	10	113	L
AL02070	Bill Brooks Lake 2	PRIVATE	1981	21	119	L
AL00723	Joe Roeny Number 1	PRIVATE	1964	15	72	L
AL00724	Joe Roeny Number 2	PRIVATE	1871	15	76	L
AL00721	Lakeside Estates	PRIVATE	1965	22	99	L
AL02071	Danny Fulford	PRIVATE	1978	25	205	L
AL00713	Ponderosa	PRIVATE	1962	24	198	L
AL02073	Ponderosa	PRIVATE	1963	15	165	L
AL00720	Hughes NO 2	PRIVATE	1955	15	76	L
AL00719	Hughes NO 1	PRIVATE	1962	20	108	L
AL00715	Paul Kennedy NO 1	PRIVATE	1972	14	76	L
AL00716	Paul Kennedy NO 2	PRIVATE	1968	14	96	L
AL00718	Mack Snell Lake and Dam	PRIVATE	1955	10	63	L
AL00726	Pasco Davis Lake	PRIVATE	1970	14	56	L

**Table 4.19: Henry County Dams**

NID ID	DAM NAME	OWNER	YEAR COMPLETED/ MODIFIED	NID DAM HEIGHT (feet)	NID STORAGE (acre feet)	NID HAZARD RATING
AL00759	Choctawhatchee NO 2	PRIVATE	1954	10	76	L
AL00758	Choctawhatchee NO 1	PRIVATE	1950	16	78	L
AL00756	G B Mathison	PUBLIC	1958	15	161	L
AL01915	M L Tillis	PRIVATE	1956	26	89	L
AL00757	W C Wills	PRIVATE	1954	27	107	L
AL00408	A N Ingram	PRIVATE	1958	28	94	L
AL02332	Edward White Pond	PRIVATE	1986	20	244	L
AL020200	Marshall Brothers Pond	PRIVATE	1981	27	261	L

**Table 4.20: Houston County Dams**

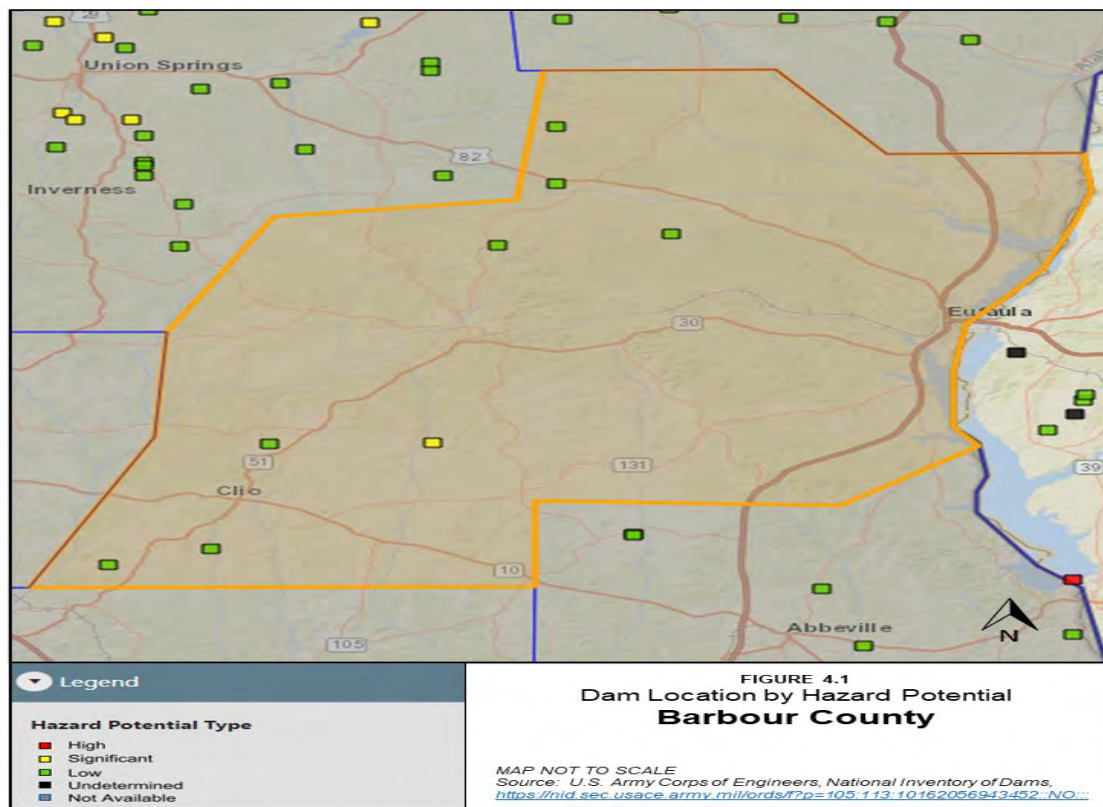
NID ID	DAM NAME	OWNER	YEAR COMPLETED/ MODIFIED	NID DAM HEIGHT (feet)	NID STORAGE (acre feet)	NID HAZARD RATING
AL01949	Emmett Sellers	PRIVATE	1977	19	132	L
AL02506	H&R Farms Pond	PRIVATE	1996	21	137	L
AL00771	Wheless Lake and Dam	PRIVATE	1958	18	61	L
AL00764	Adams Lake and Dam	PRIVATE	1958	12	62	L
AL00770	David West	PRIVATE	1969	14	68	L
AL00775	Gerald Crowley	PRIVATE	1974	14	138	L
AL00767	Caroline Wilson	PRIVATE	1969	13	260	H
AL00774	Billy Byrd	PRIVATE	1972	16	150	L
AL01952	Bruce Blaum	PRIVATE	1977	21	155	S
AL83101	Farley Cat 1 Cool Water Storage Pond	PRIVATE	1976	195	2,674	L
AL00769	Garner Brothers	PRIVATE	1965	14	103	L
AL00768	Glen Lawrence Dam	PRIVATE	1958	15	445	L
AL00772	Ingram Lake	PRIVATE	1945	13	73	H
AL00766	Jessie Forrester	PRIVATE	1968	17	204	S
AL02507	Good Hope Farms Pond	PRIVATE	1994	22	162	L

**Table 4.21: Pike County Dams**

NID ID	DAM NAME	OWNER	YEAR COMPLETED / MODIFIED	NID DAM HEIGHT (feet)	NID STORAGE (acre feet)	NID HAZARD RATING
AL00180	YOUNGBLOOD	Private	1945	15	182	L
AL00181	MILTON CARTER	Private	1968	20	110	L

AL00182	PIKE COUNTY LAKE	Pike County	1950	25	300	L
AL00183	FOY INGRAM POND	Private	1967	15	62	L
AL00185	SORRELL LAKE DAM	Private	1952	13	164	L
AL00186	COPELAND	Private	1954	15	109	L
AL00188	CROWES	Private	1955	10	88	L
AL00190	HENDERSON LAKE	Private	1972	22	728	L
AL00191	PIKE POND	Private	1960	24	96	L
AL01403	MORGANS POND	Private	1964	15	218	L
AL01916	HARRIS LAKE DAM	Private	1977	35	249	L
AL01917	W R CHAPMAN LAKE DAM NO 1	Private	1965	17	68	L
AL01918	W R CHAPMAN LAKE DAM NO 2	Private	1976	29	19	L
AL01921	BROOKS FARM POND DAM	Private	1965	22	66	L
AL01922	SANDERS POND DAM	Private	1965	17	56	L
AL02246	BILL CHAPMAN POND	Private	1975	23	103	L
AL02247	BILL CHAPMAN POND	Private	1968	18	132	L
AL02248	HAROLD FREEMAN POND	Private	1978	20	124	L
AL02249	HARRIS POND	Private	1978	22	192	L

**Figure 4.1: Barbour County Dams by Location and Hazard Potential**



Source: U.S. Army Corps of Engineers, National Inventory of Dams,  
<https://nid.sec.usace.army.mil/ords/f?p=105:113:10162056943452::NO::>



Figure 4.2: Butler County Dams by Location and Hazard Potential

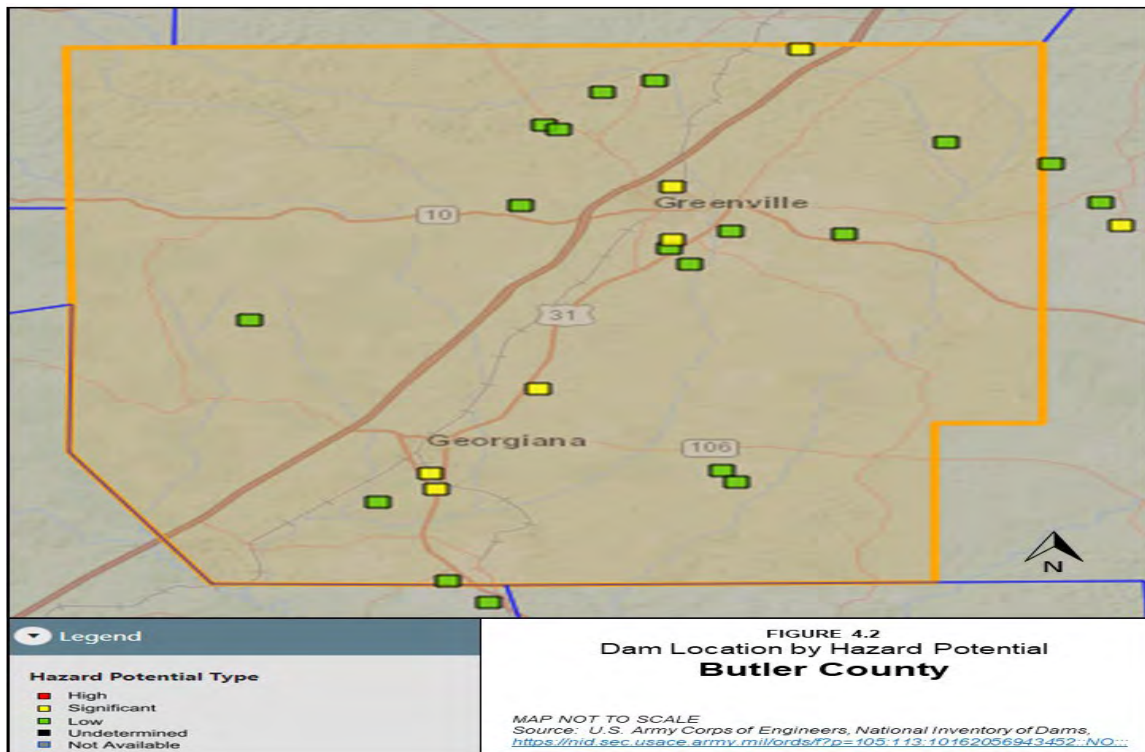
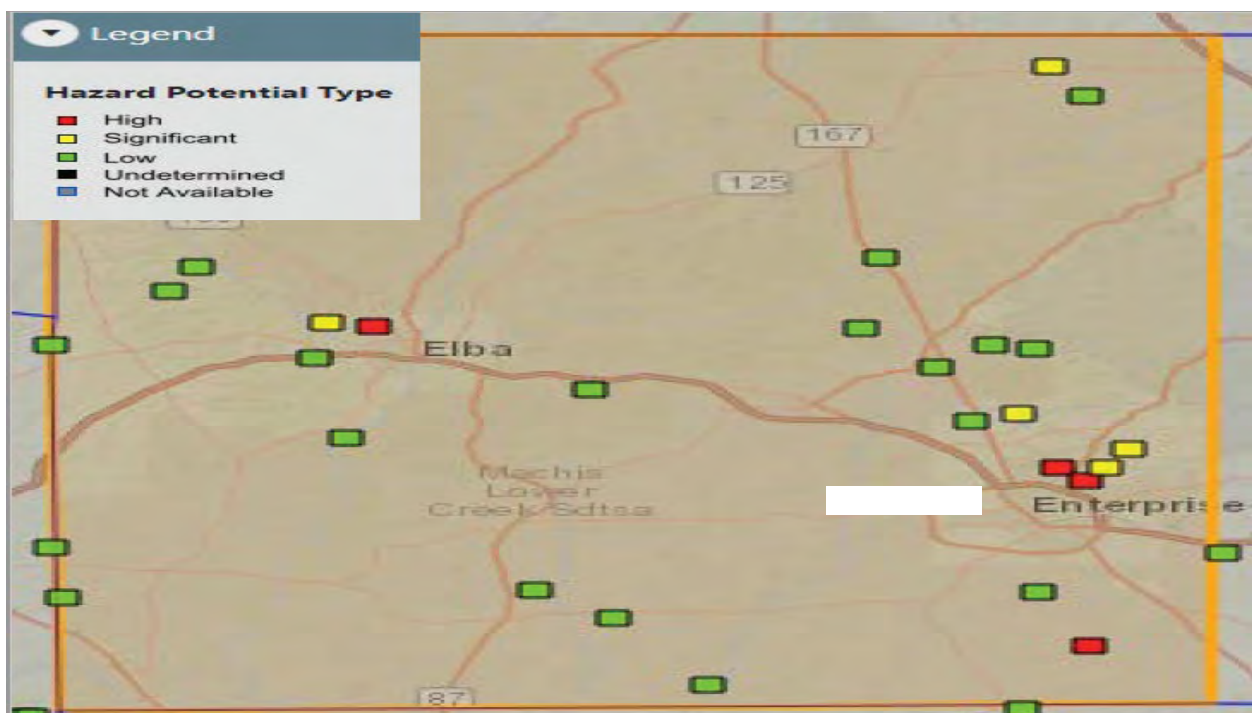


Figure 4.3: Coffee County Dams by Location and Hazard Potential



Source: U.S. Army Corps of Engineers, National Inventory of Dams,  
<https://nid.sec.usace.army.mil/ords/f?p=105:113:10162056943452::NO::>

Figure 4.4: Covington County Dams by Location and Hazard Potential

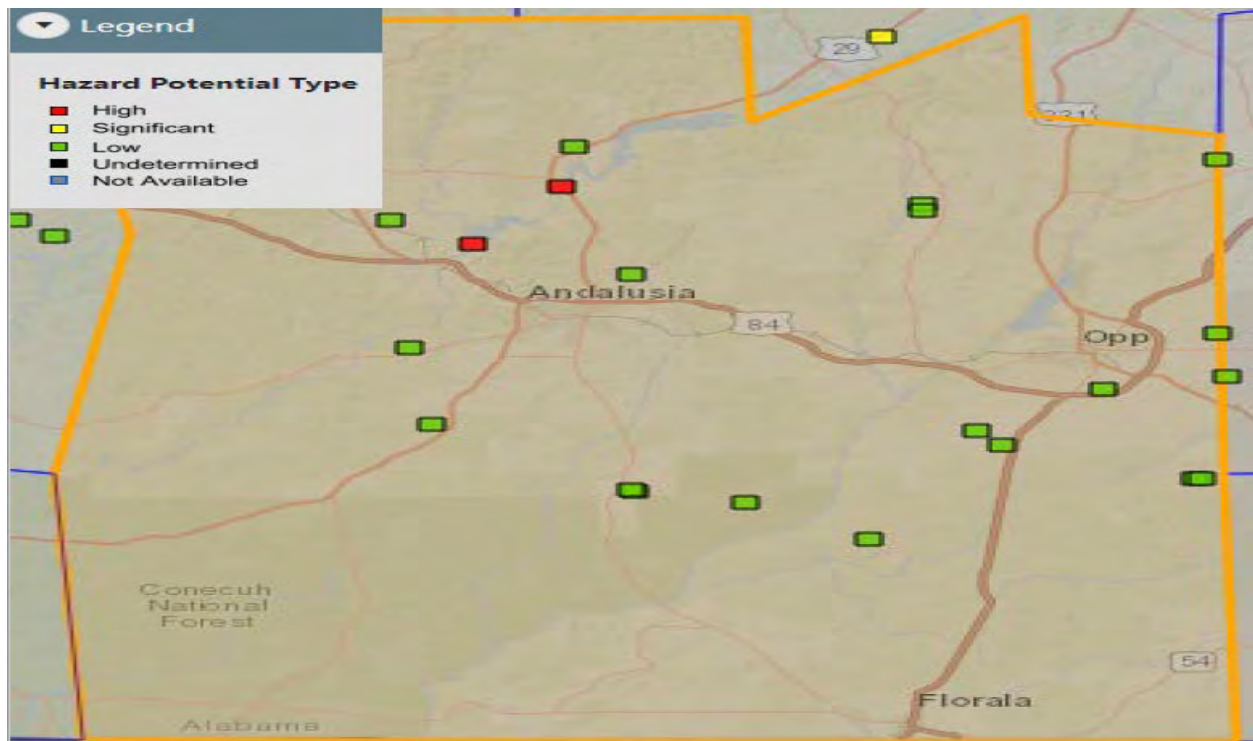
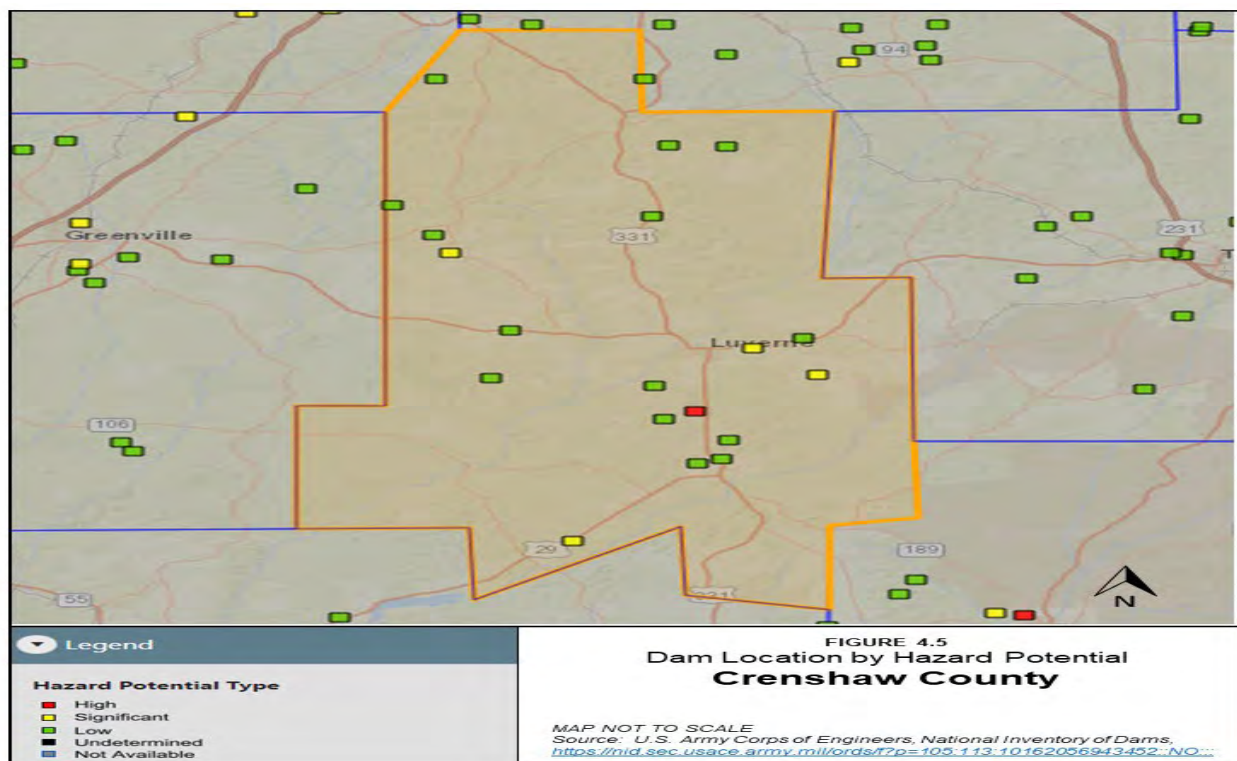


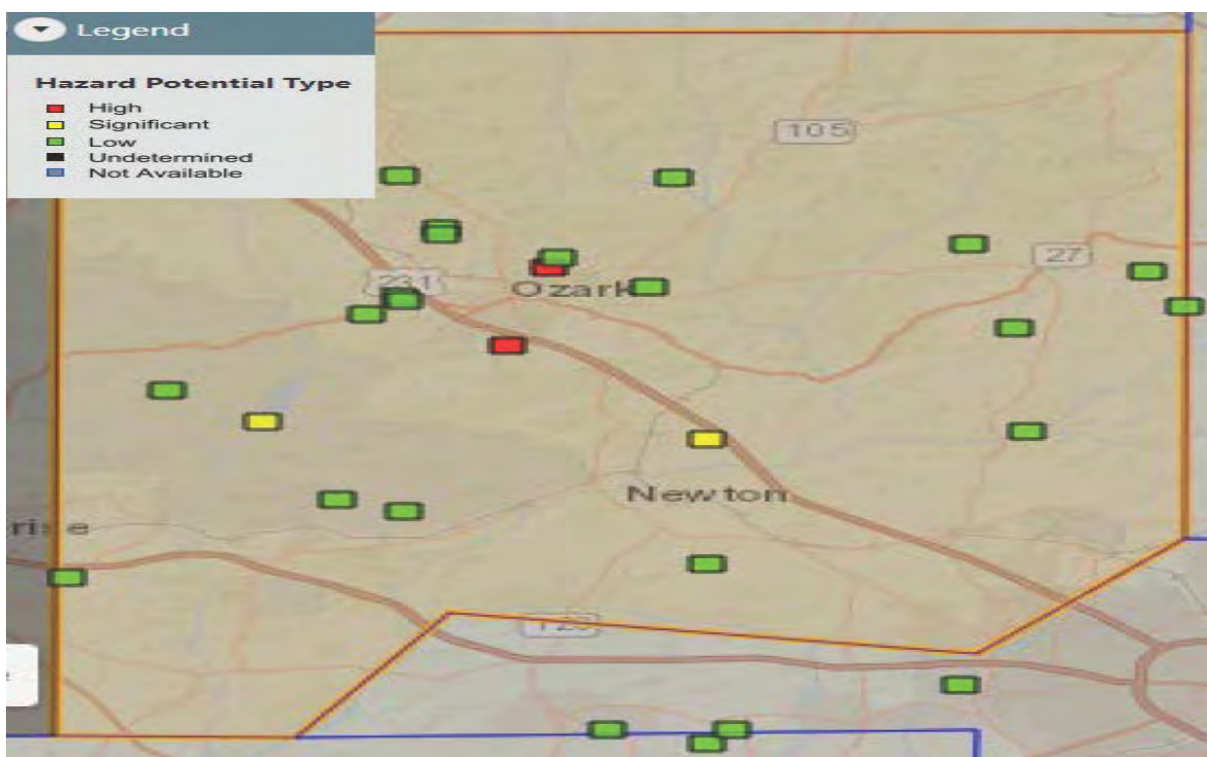
Figure 4.5: Crenshaw County Dams by Location and Hazard Potential



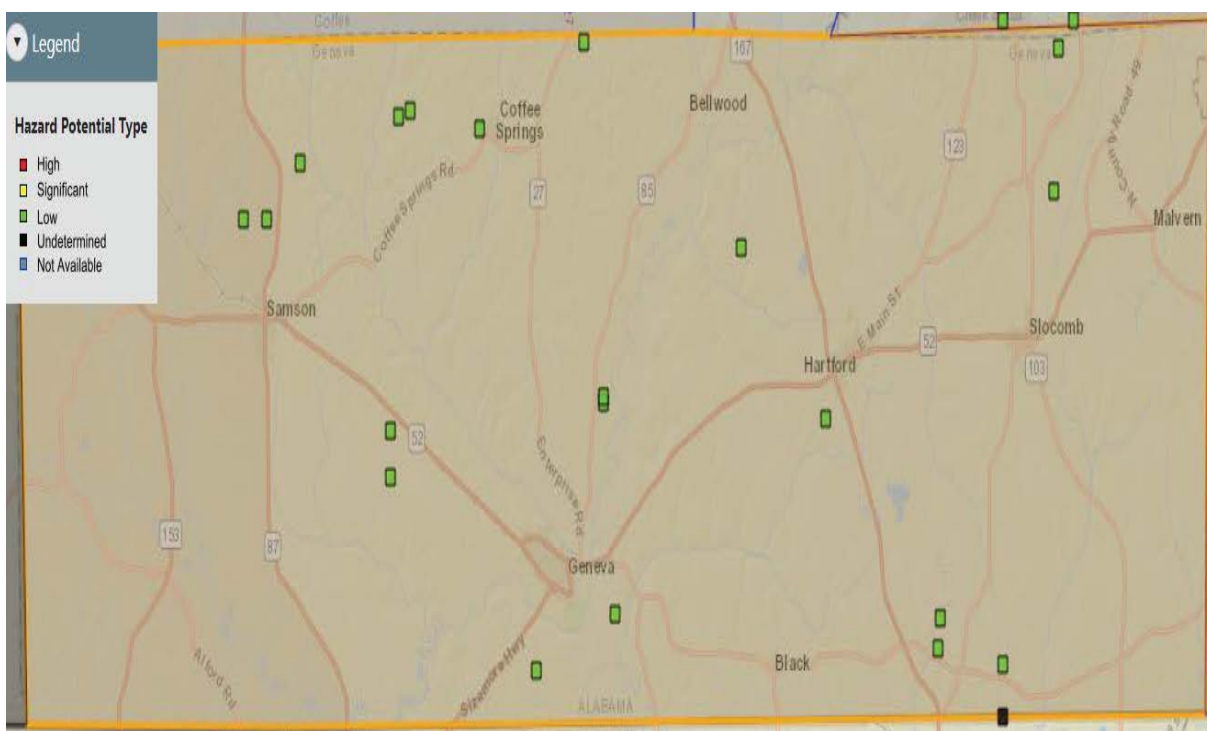
Source: U.S. Army Corps of Engineers, National Inventory of Dams,  
<https://nid.sec.usace.army.mil/ords/f?p=105:113:10162056943452::NO::>



**Figure 4.6: Dale County Dams by Location and Hazard Potential**



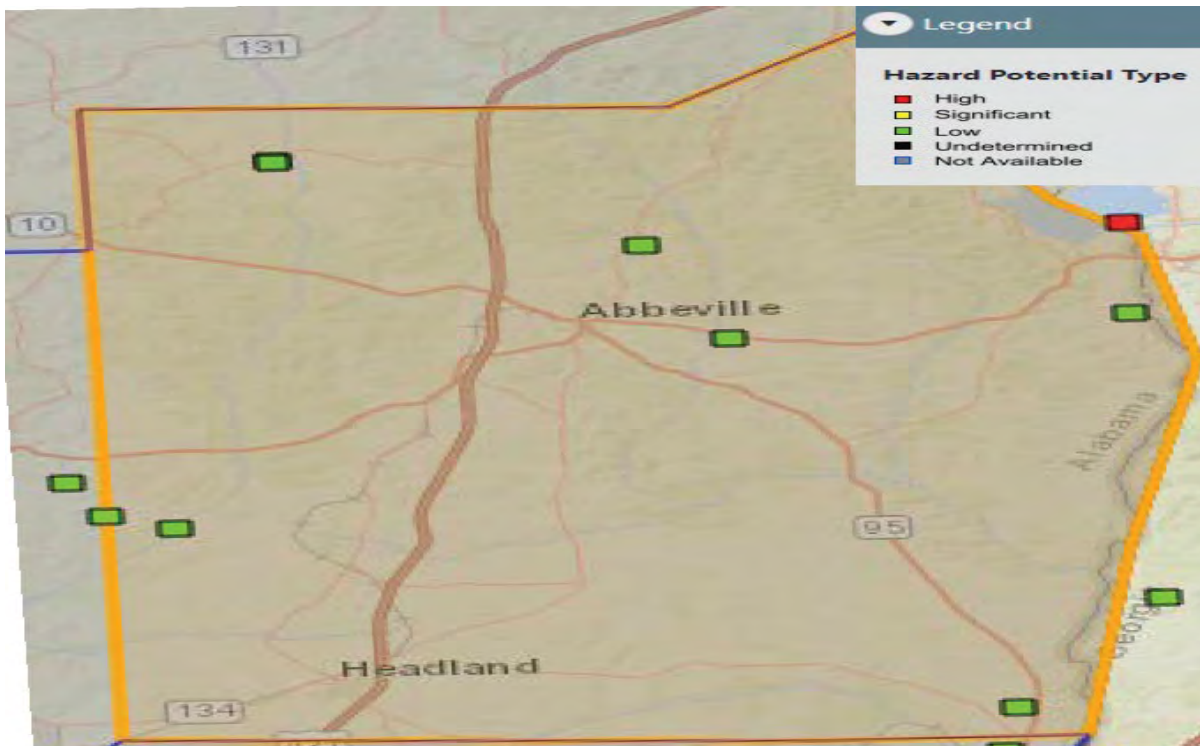
**Figure 4.7: Geneva County Dams by Location and Hazard Potential**



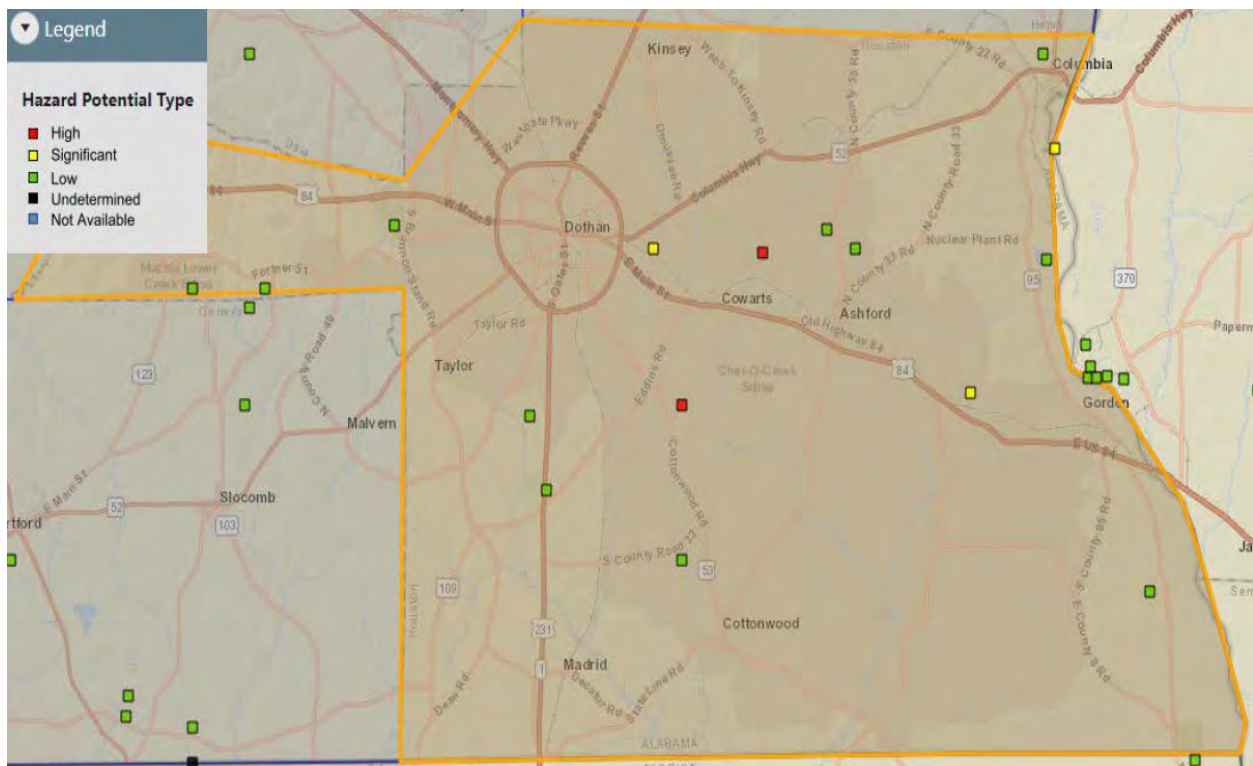
Source: U.S. Army Corps of Engineers, National Inventory of Dams,  
<https://nid.sec.usace.army.mil/ords/f?p=105:113:10162056943452::NO::>



**Figure 4.8: Henry County Dams by Location and Hazard Potential**

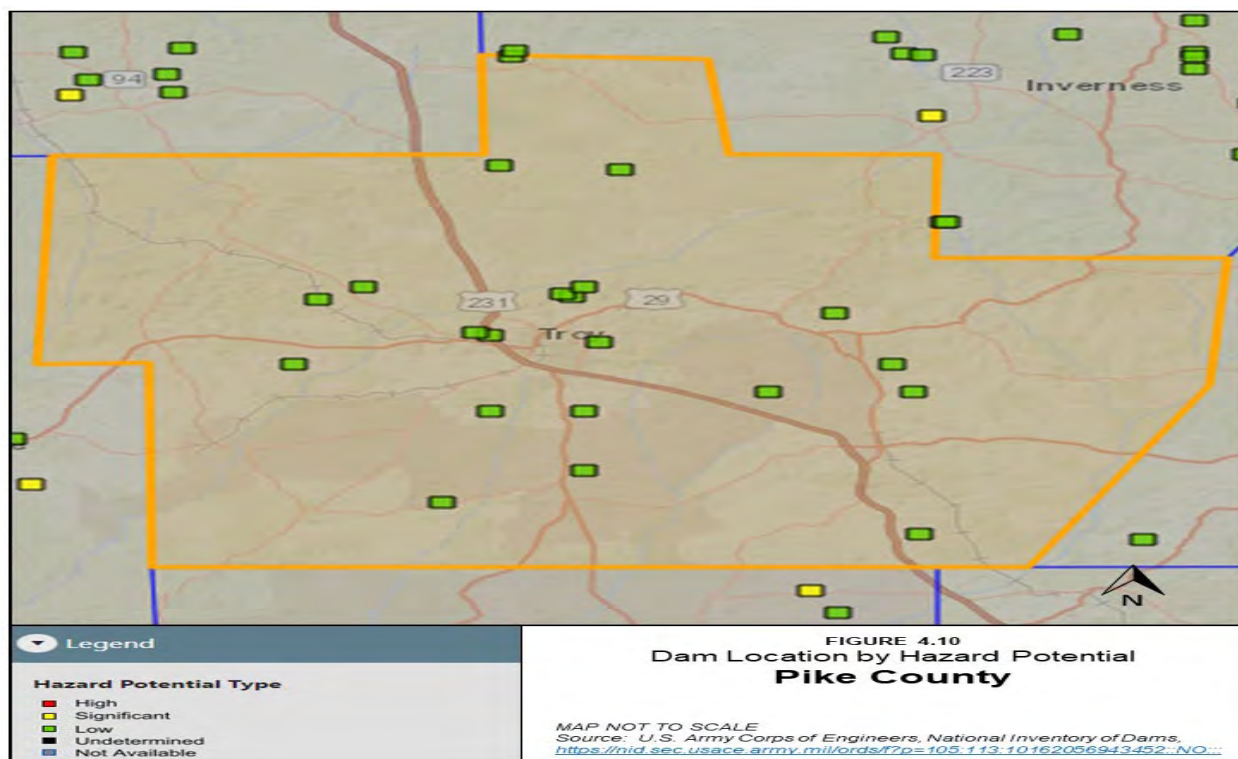


**Figure 4.9: Houston County Dams by Location and Hazard Potential**



Source: U.S. Army Corps of Engineers, National Inventory of Dams,  
<https://nid.sec.usace.army.mil/ords/f?p=105:113:10162056943452::NO:>

**Figure 4.10: Pike County Dams by Location and Hazard Potential**



Source: U.S. Army Corps of Engineers, National Inventory of Dams,  
<https://nid.sec.usace.army.mil/ords/f?p=105:113:10162056943452::NO::>

### **Extent.**

The potential extent of dam failure may be classified by their “hazard potential”. The “hazard potential” for dams indicates the probable damage that would occur if the dam failed, in regard to human life and property damage. The Federal Guidelines for Dam Safety presents three classifications for Dam Hazard Potential:

High:	Loss of human life is likely if the dam fails;
Significant:	No probable loss of human life but can cause economic loss, environmental damage, disruption of essential services/utilities, or impact other concerns;
Low:	Failure or mis-operation will result in no probable loss of human life and low economic and/or environmental loss.

There are no dams in Barbour County rated as a high-hazard dam; however, one dam is rated as having a significant hazard potential. The dam rated as having a significant hazard potential is located near the Town of Blue Springs. The dam rated as having a significant hazard potential is 11 feet high.

As shown in the Figure 1 maps, there is one dam in Crenshaw County that is rated as a high-hazard dam; and six dams in Butler County and four in Crenshaw County that are rated as having a significant hazard potential. Of the six dams in Butler County with a rated as a significant hazard potential, two are located in Greenville and two are located in Georgiana. The other two are located in sparsely populated rural areas. Of the six dams rated as having a significant hazard potential,

the tallest is 25 feet high with storage of 106 acre feet. This is the Sportsmen Club Lake Dam located north of the Greenville Bypass.

The Crenshaw County dam that is rated as a high-hazard dam is located at Crenshaw County Lake. It is an earthen dam built in 1954 that is 24 feet high with a storage capacity of 370 acre feet. Of the Crenshaw County dams that have a significant hazard potential rating, one is located in Luverne, one is located just northeast of Dozier, and the other two are located in unincorporated parts of the county. The highest of these four dams is the Clark Lake Dam, built in 1965 near Dozier, at 27 feet with a storage capacity of 64 acre feet. The Bozeman Pond Dam near Glenwood was built in 1960 at a height of 20 feet and a storage capacity of 102 acre feet.

Of the 15 dams in Houston County, 2 have a high hazard risk, 2 with significant risk, and the remaining 11 have a low hazard risk.

None of the 21 dams in Pike County are rated as having either a significant hazard potential or a high hazard potential. There are, however, three dams in Pike County that are taller than 25 feet. The Harris Lake Dam, built in 1977 in the Tennille Community, is 35 feet high with a storage capacity of 249 acre feet. The W.R. Chapman Lake Dam, in northwest Troy, was built in 1976 with a height of 29 feet and storage capacity of 19 acre feet. And, the Robert Dunn Dam, built in 1981 in the Tarentum Community, is 26 feet high with a storage capacity of 437 acre feet.

Localized studies of the NID data conducted by the Alabama Office of Water Resources (OWR) have shown that many NID points are not spatially accurate and do not represent the potential hazards with the particular dams. There are also private dams in many areas that are not necessarily known by local authorities. In 2008, the OWR began the process of developing a dam inventory, which will include classifying hazard potential. However, the OWR inventory has not been completed at this time.

### ***Historical Occurrences.***

There is no record of dam failure in Butler, Crenshaw or Pike Counties. On November 24, 2001, however, a flooding incident listed in the National Centers for Environmental Information Storm Events Database reported that a small earthen dam, located near Highway 10 west of Interstate 65, broke and some side roads in the area were closed. Alabama is the only state in the nation that does not have a dam safety program nor is there any regulatory authority or any dam reporting requirements. It is likely that the lack of reporting requirements may impact the number of known local dam failures if they were not of major significance.

### ***Probability of Future Events.***

No documented occurrence of dam failure within the planning area and only rarely in neighboring counties associated with a large rainfall event and major flooding situation. Because of dated and incomplete information pertaining to dam classification in Alabama, it is difficult to ascertain which dams are more susceptible to failure than others until the Alabama Office of Water Resources (OWR) completes their dam inventory. Hazard mitigation planning participants all ten counties feel that dam failure is an unlikely occurrence and will be considered to have a Low likelihood of probability.

**Table 4.22: Dam Failure Summary and Probability by Jurisdiction**

Jurisdiction	Historical Events	Extent	Probability of Impactful Future Events
<b>Butler County</b>	<b>1 Event</b>	<b>0</b>	<b>Low</b>
Unincorporated Butler County	0 Events	0	Low
Georgiana	0 Events	0	Low
Greenville	1 Event	0	Low
McKenzie	0 Events	0	Low
<b>Crenshaw County</b>	<b>0 Events</b>	<b>0</b>	<b>Low</b>
Unincorporated Crenshaw County (Includes schools)	0 Events	0	Low
Brantley (Includes schools)	0 Events	0	Low
Dozier	0 Events	0	Low
Glenwood	0 Events	0	Low
Luverne (Includes schools)	0 Events	0	Low
Petrey	0 Events	0	Low
Rutledge	0 Events	0	Low
<b>Pike County</b>	<b>0 Events</b>	<b>0</b>	<b>Low</b>
Unincorporated Pike County	0 Events	0	Low
Banks	0 Events	0	Low
Brundidge (Includes schools)	0 Events	0	Low
Goshen (Includes schools)	0 Events	0	Low
Troy (Includes schools)	0 Events	0	Low
<b>Barbour County</b>	<b>0 Events</b>	<b>0</b>	<b>Low</b>
Unincorporated Barbour County	0 Events	0	Low
Baker Hill	0 Events	0	Low
Blue Springs	0 Events	0	Low
Clayton (Includes schools)	0 Events	0	Low
Clio	0 Events	0	Low
Louisville	0 Events	0	Low
Eufaula (Includes schools)	0 Events	0	Low
<b>Coffee County</b>	<b>0 Events</b>	<b>0</b>	<b>Low</b>
Unincorporated Coffee County	0 Events	0	Low
Elba (Includes schools)	0 Events	0	Medium
Enterprise (Includes schools)	0 Events	0	Low
Kinston (Includes schools)	0 Events	0	Low
New Brockton (Includes schools)	0 Events	0	Low
<b>Covington County</b>	<b>0 Events</b>	<b>0</b>	<b>Low</b>
Unincorporated Covington County	0 Events	0	Low
Andalusia (Includes schools)	0 Events	0	Low
Babbie	0 Events	0	Low
Carolina	0 Events	0	Low

Floral (Includes schools)	0 Events	0	Low
Gantt	0 Events	0	Low
Heath	0 Events	0	Low
Horn Hill	0 Events	0	Low
Libertyville	0 Events	0	Low
Lockhart	0 Events	0	Low
Opp (Includes schools)	0 Events	0	Low
Red Level (Includes schools)	0 Events	0	Low
River Falls	0 Events	0	Low
Sanford	0 Events	0	Low
<b>Dale County</b>	0 Events	0	Low
Unincorporated Dale County	0 Events	0	Low
Ariton (Includes schools)	0 Events	0	Low
Daleville (Includes schools)	0 Events	0	Low
Clayhatchee	0 Events	0	Low
Grimes	0 Events	0	Low
Midland City	0 Events	0	Low
Napier Field	0 Events	0	Low
Newton (Includes schools)	0 Events	0	Low
Pinckard (Includes schools)	0 Events	0	Low
<b>Geneva County</b>	0 Events	0	Low
Unincorporated Geneva County	0 Events	0	Low
Black	0 Events	0	Low
Coffee Springs	0 Events	0	Low
Hartford (Includes schools)	0 Events	0	Low
Malvern	0 Events	0	Low
Samson (Includes schools)	0 Events	0	Low
Slocumb (Includes schools)	0 Events	0	Low
<b>Henry County</b>	0 Events	0	Low
Unincorporated Henry County	0 Events	0	Low
Abbeville (Includes schools)	0 Events	0	Low
Haleburg	0 Events	0	Low
Headland (Includes schools)	0 Events	0	Low
Newville	0 Events	0	Low
<b>Houston County</b>	0 Events	0	Low
Unincorporated Houston County	0 Events	0	Low
Ashford (Includes schools)	0 Events	0	Low
Avon	0 Events	0	Low
Columbia (Includes schools)	0 Events	0	Low
Cottonwood (Includes schools)	0 Events	0	Low
Cowarts	0 Events	0	Low
Dothan (Includes schools)	0 Events	0	Low
Gordon	0 Events	0	Low

Kinsey	0 Events	0	Low
Madrid	0 Events	0	Low
Rehobeth (Includes schools)	0 Events	0	Low
Taylor	0 Events	0	Low
Webb	0 Events	0	Low

## DROUGHT / EXTREME HEAT

### *Description.*

Drought occurs when there is below-average precipitation over an extended period of time, gradually affecting hydrological, agricultural, and social concerns. The Alabama State Hazard Mitigation Plan (published July 18, 2018) states, “Although there is no single, concise definition of a drought, droughts can be grouped into four general types.” The four types of drought are shown in Table 4.23.

**Table 4.23: Types of Drought**

Drought Type	Description/Definition
<b>Meteorological</b>	Defined solely on the degree of dryness, expressed as a departure of actual precipitation from an expected average or normal amount based on monthly, seasonal, or annual time scales.
<b>Hydrological</b>	Related to the effects of precipitation shortfalls on stream flows and reservoir, lake, and groundwater levels.
<b>Agricultural</b>	Defined principally in terms of soil moisture deficiencies relative to water demands of plant life, usually crops.
<b>Socioeconomic</b>	Associates the supply and demand of economic goods or services with elements of meteorological, hydrologic, and agricultural drought. Socioeconomic drought occurs when the demand for water exceeds the supply as a result of a weather-related supply shortfall. This type of drought may also be called a water management drought.

Source: State Hazard Mitigation Plan, State of Alabama; July 18, 2018.

[https://alabamaema.files.wordpress.com/2018/11/state-of-alabama\\_state-hazard-mitigation-plan-2018-update\\_final\\_07182018.pdf](https://alabamaema.files.wordpress.com/2018/11/state-of-alabama_state-hazard-mitigation-plan-2018-update_final_07182018.pdf)

Extreme heat is defined as a period of high heat and humidity with temperatures above 90 degrees for at least two to three days. A heat wave is an extended period of extreme heat and is often accompanied by high humidity. These abnormally high temperatures can disproportionately affect the elderly, very young, and those with health concerns if exposed to the conditions, especially those without effective climate control systems.

### *Location.*

All of AEMA Division B is susceptible to drought and extreme heat due to its location, which is prone to unpredictable precipitation patterns including extended periods of below-average rainfall. Temperatures of 90 degrees or more are regularly observed in the summer months, with 100-degree temperatures being possible. These conditions can be dangerous and even life-threatening for humans who do not take the proper precautions. Throughout the planning area, extreme heat tends to occur in conjunction with drought conditions.

### *Extent.*



According to the U.S. Drought Monitor, located at the National Drought Mitigation Center at the University of Nebraska-Lincoln, no two states experience the same set of impacts during a drought. Therefore, tables were developed with drought impacts that have been reported in each state, for each U.S. Drought Monitor (USDM) category, during the onset of a major drought. For extent of drought, the U.S. Drought Monitor classifies drought in five levels of severity, based on multiple indicators including soil moisture, streamflow levels, precipitation levels, and local observations. These classifications for Alabama, ranging from D0 to D4, are listed in Table 4.24.

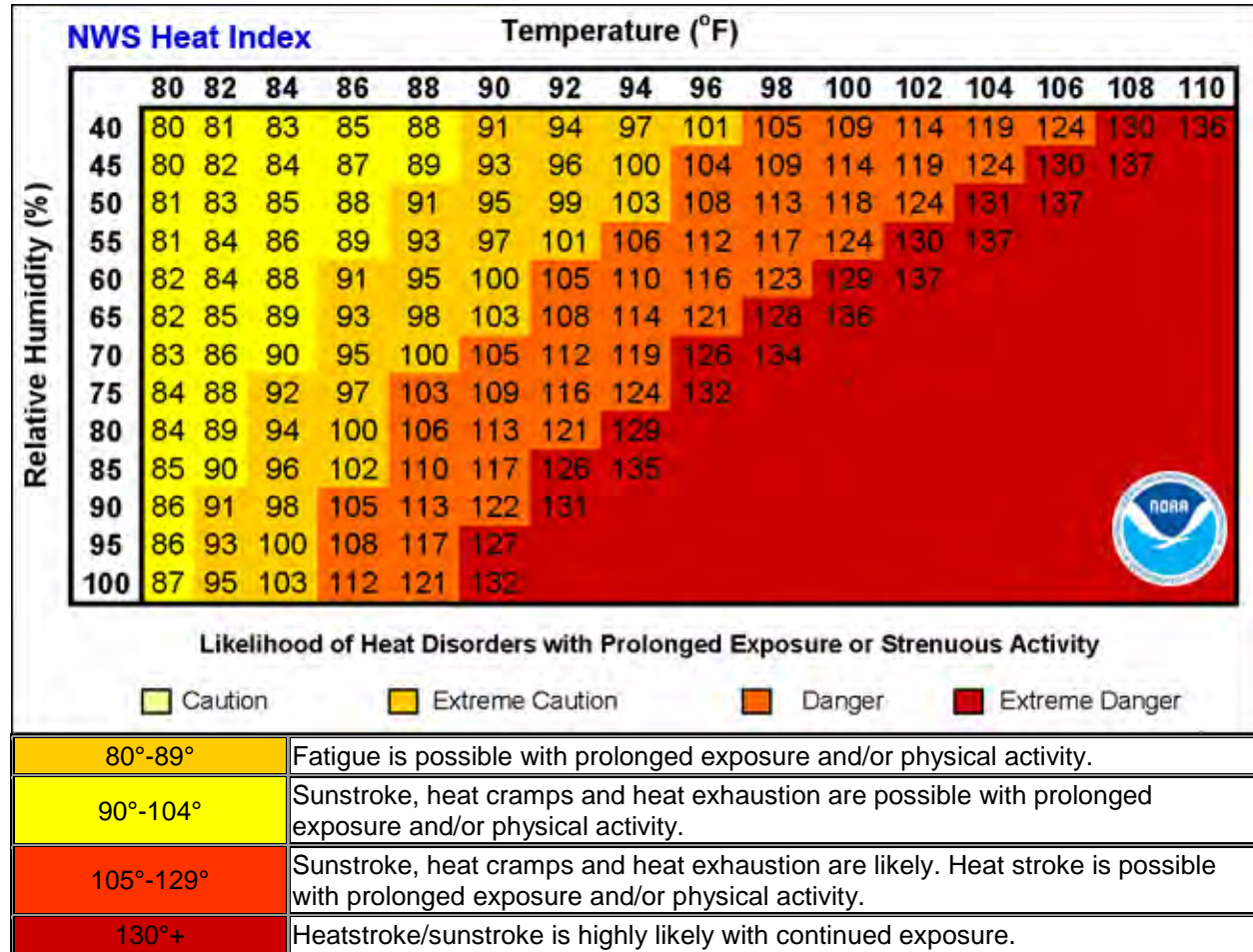
**Table 4.24: Drought Monitor Classification Scheme for Alabama**

Category	Impact
<b>D0 Abnormally Dry</b>	<ul style="list-style-type: none"> <li>• Forage crops and pasture are stressed; producers feed livestock early</li> <li>• Ground is hard</li> <li>• Agriculture ponds and creeks begin to decline</li> </ul>
<b>D1 Moderate Drought</b>	<ul style="list-style-type: none"> <li>• Cash crop growth and yield are low</li> <li>• National forests implement campfire and firework bans</li> <li>• Streams and ponds are low</li> <li>• Fire activity increases</li> </ul>
<b>D2 Severe Drought</b>	<ul style="list-style-type: none"> <li>• Crops are damaged, especially dryland corn</li> <li>• Burn bans begin</li> <li>• Large cracks appear in foundations of homes</li> <li>• Large surface water levels drop; agricultural ponds, streams have dried up</li> <li>• Saltwater intrusion occurs in rivers and bays; saltwater wildlife migrates upstream</li> <li>• Hydroelectric power decreases; navigation is limited</li> </ul>
<b>D3 Extreme Drought</b>	<ul style="list-style-type: none"> <li>• Soybean pods shatter</li> <li>• Large-scale hay shortages occur; producers sell livestock</li> <li>• Wildfire count and fire danger continue to increase</li> <li>• Landscape growth is stunted and needs irrigation; Christmas tree growth is stunted</li> <li>• Ground has noticeable cracks; road damage has occurred</li> <li>• Low flow in rivers and lakes affects recreation</li> <li>• Water mains break daily in large municipalities; water conservation is implemented</li> <li>• Air quality is poor</li> </ul>
<b>D4 Exceptional Drought</b>	<ul style="list-style-type: none"> <li>• Trees and shrubs are defoliated; grass is brown; landscaping projects are delayed</li> <li>• Wildfire count is very high</li> <li>• Lakes are extremely low; large municipalities implement water restrictions; water prices increase</li> </ul>

Source: United States Drought Monitor. <https://droughtmonitor.unl.edu/Data/StateImpacts.aspx>

The extent of extreme heat can be quantified in terms of the heat index which is a measure of how hot it really feels when relative humidity is factored in with the actual air temperature. As an example, if the air temperature is 96°F and the relative humidity is 65 percent, the heat index, or how hot it feels, is 121°F. The National Weather Service provides a heat index chart, shown in Figure 4.11 that enables calculation of the heat index depending on local temperatures and humidity. The heat index is color-coded and categorized into four levels of danger: caution, extreme caution, danger and extreme danger. The danger levels are also defined in Figure 4.11. The National Weather Service will initiate alert procedures when the heat index is expected to exceed 105°F to 110°F for at least two consecutive days. Extreme heat can endanger the health of persons living and working within Butler County and can also threaten economical damage by resulting in crop losses. Health conditions that result from extreme heat range from mild to severe. These conditions include sunburn, heat cramps, heat exhaustion, and heat stroke.

Figure 4.11: National Weather Service Heat Index Chart

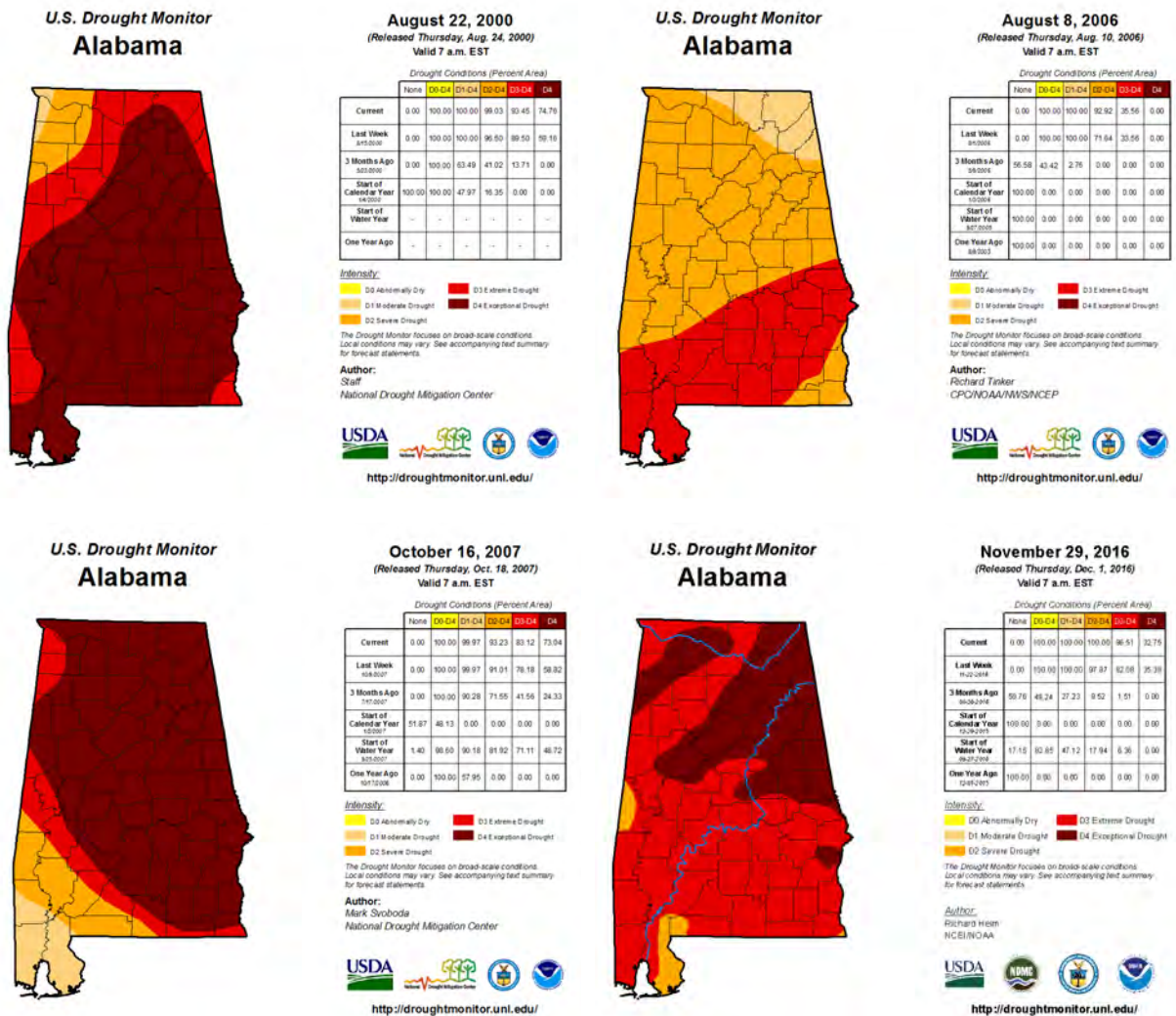


Source: NOAA, National Weather Service. <https://www.weather.gov/safety/heat-index>

According to the U.S. Drought Monitor, all counties in the AEMA Division B region have experienced drought conditions with regularity over the last 20 years, as shown in Figure 4.12, with most counties experiencing extreme drought in 2000 and 2007. Since the AEMA Division B region has significant agricultural uses that are adversely affected by drought conditions, drought and extreme heat are potentially serious economic threats to the counties. Drought can also be a contributing factor to wildfires in the forested areas of the region. Similarly, since high temperatures and humidity are possible and occur frequently during the summer months, heat wave conditions are possible in the area. Most of the counties have a public water supply that is drawn from groundwater sources, so extended periods of exceptional drought can potentially limit water supply. The Figure 4.13 series of graphics provides a timeline of the extent of drought conditions for each county.



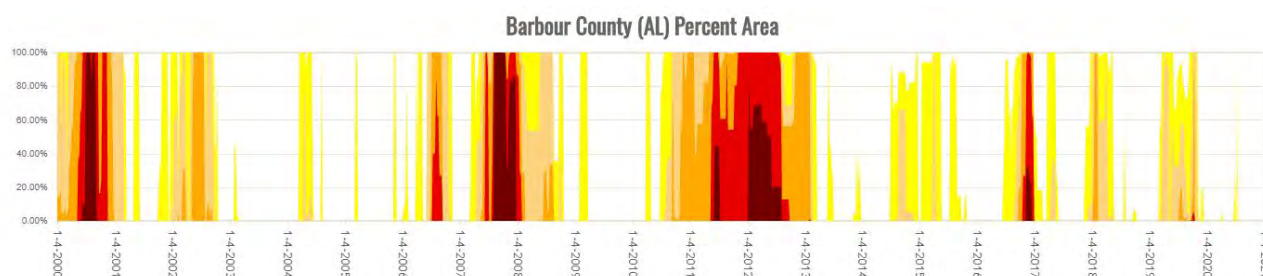
Figure 4.12: U.S. Drought Monitor Conditions, 2000, 2006, 2007 and 2016



Source: U.S. Drought Monitor, <https://droughtmonitor.unl.edu/Maps/MapArchive.aspx>

Barbour County had D3 extreme drought conditions affecting the entire county from June through November 2000; June through August 2006; November through December 2016. Barbour County experienced D4 exceptional drought conditions from March through August, 2000, October through December 2007, July 2011, January through March 2012, and December 2016.

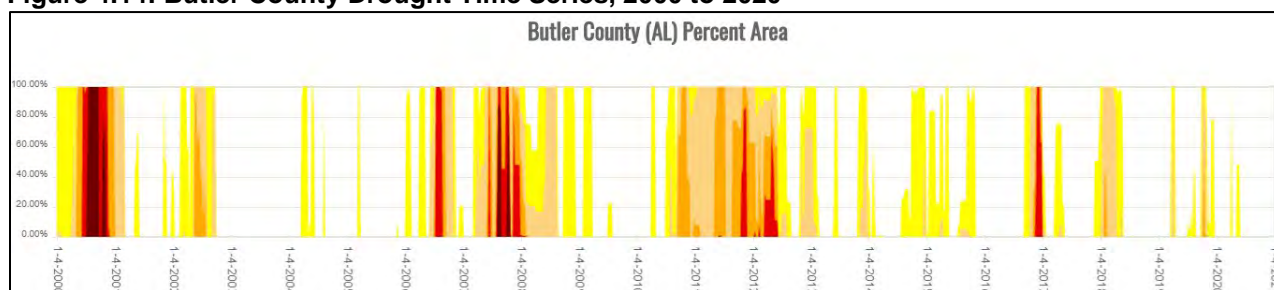
Figure 4.13: Barbour County Drought Time Series, 2000 to 2020



Source: U.S. Drought Monitor, <https://droughtmonitor.unl.edu/Data/Timeseries.aspx>

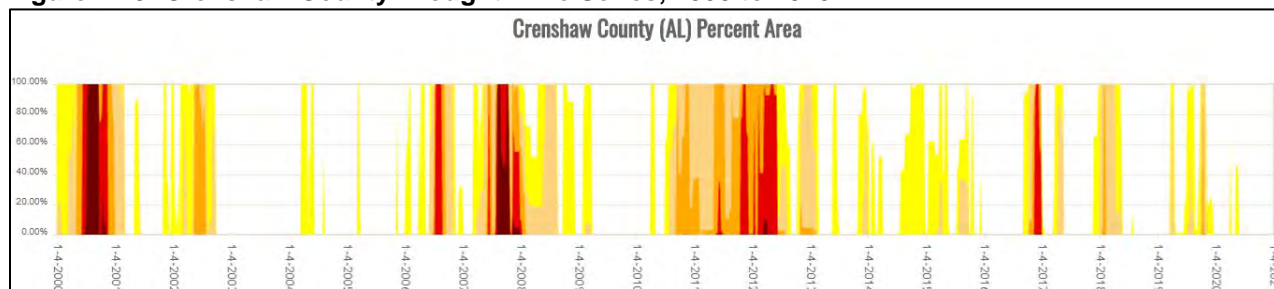
Butler County experienced D4 exceptional drought conditions from July through October 2000 and August through October 2007. Periods of D3 extreme drought conditions affecting the entire county have occurred in 2000, 2006, 2007, and 2016; and approximately 80 percent of Butler County had D3 drought conditions in 2011 and 2012.

**Figure 4.14: Butler County Drought Time Series, 2000 to 2020**



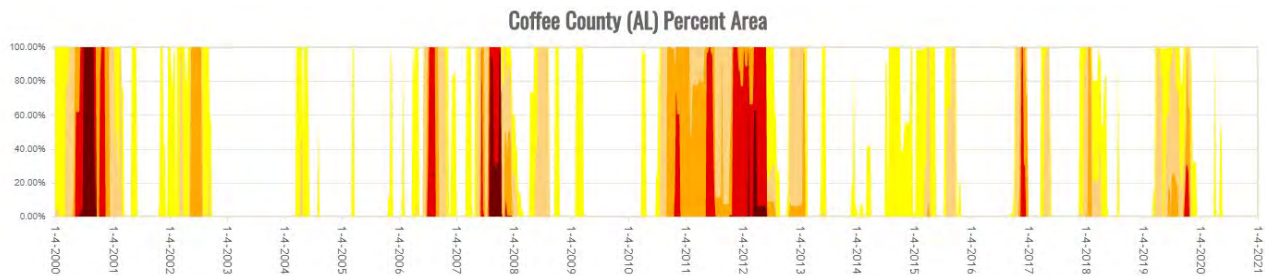
Crenshaw County experienced D4 exceptional drought conditions affecting the entire county from July through October 2000 and August through October 2007, as well as shorter D4 periods affecting less than 20 percent of the county in late 2000, late 2007, and 2012. Periods of D3 extreme drought conditions affecting the entire county have occurred in 2000, 2006, 2007, 2011, 2012 and 2016.

**Figure 4.15: Crenshaw County Drought Time Series, 2000 to 2020**



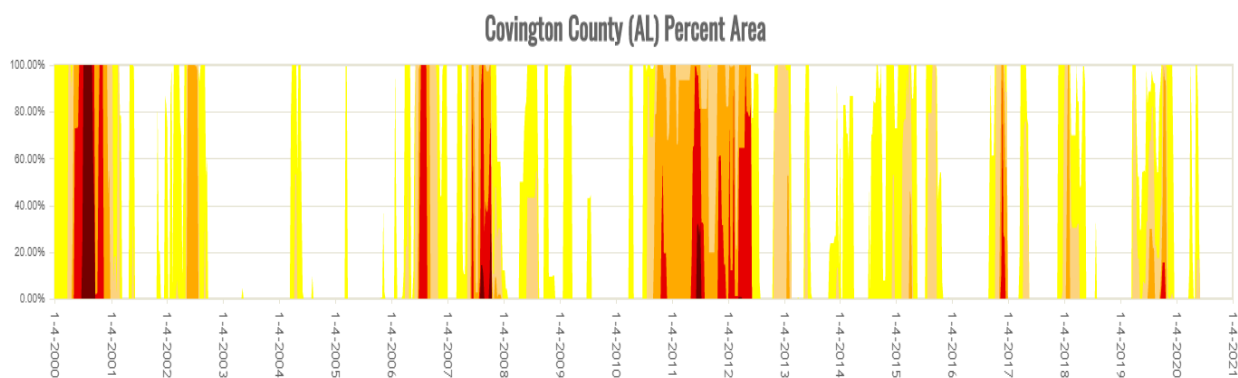
Coffee County had D3 extreme drought conditions affecting the entire county from June through November 2000; June through August 2006; November through December 2016. Coffee County experienced D4 exceptional drought conditions from March through August, 2000, October through December 2007, July 2011, January through March 2012, and December 2016.

**Figure 4.16: Coffee County Drought Time Series, 2000 to 2020**



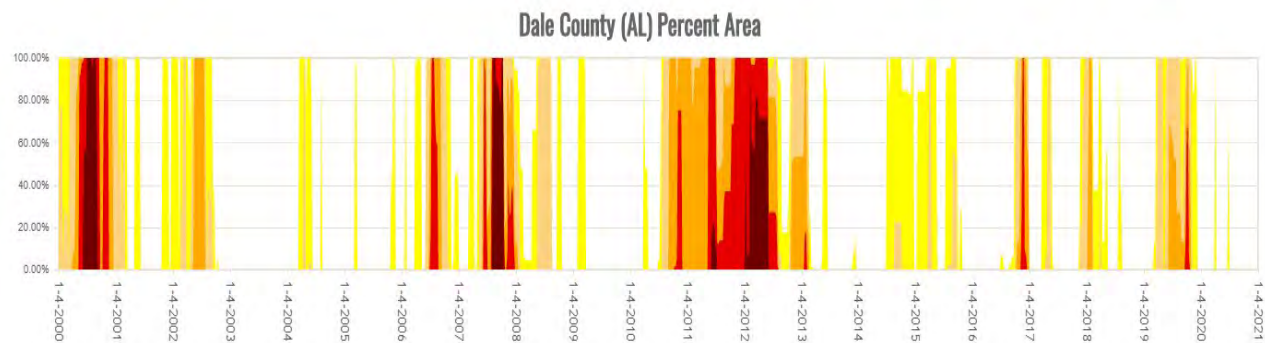
According to the U.S. Drought Monitor, Covington County has not experienced many drought conditions compared to other counties in the region over the last 20 years, as shown in Figure 4.17.

**Figure 4.17: Covington County Drought Time Series, 2000 to 2020**



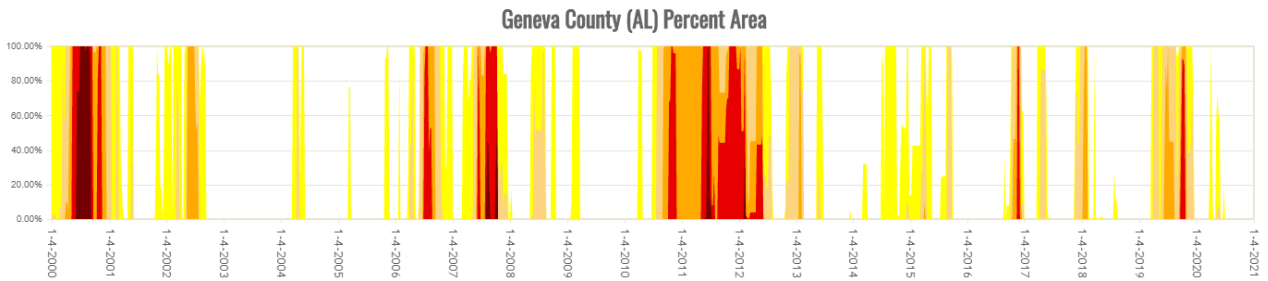
According to the U.S. Drought Monitor, Dale County has experienced drought conditions with regularity over the last 20 years, as shown in Figure 4.18.

**Figure 4.18: Dale County Drought Time Series, 2000 to 2020**



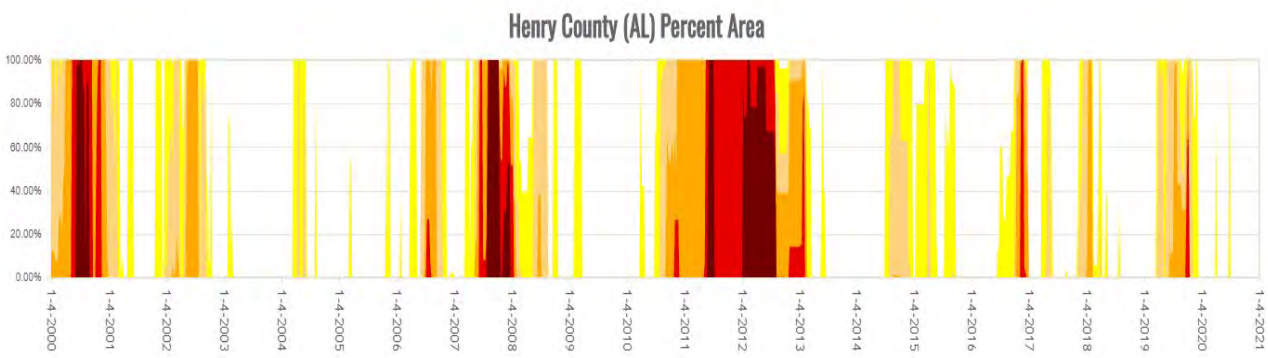
According to the U.S. Drought Monitor, Geneva County has experienced drought conditions with regularity over the last 20 years, as shown in Figure 4.19.

**Figure 4.19: Geneva County Drought Time Series, 2000 to 2020**



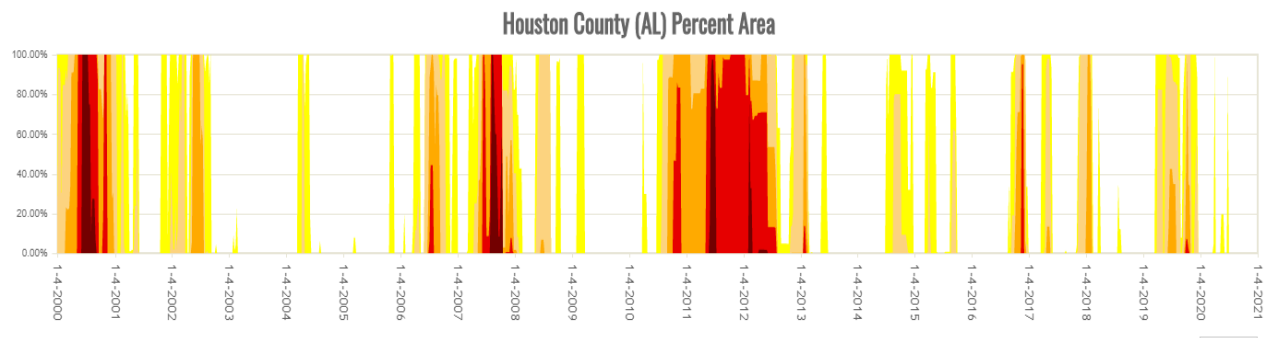
According to the U.S. Drought Monitor, Henry County has experienced drought conditions with regularity over the last 20 years, as shown in Figure 4.20

**Figure 4.20: Henry County Drought Time Series, 2000 to 2020**



According to the U.S. Drought Monitor, Houston County has experienced drought conditions with regularity over the last 20 years, as shown in Figure 4.21.

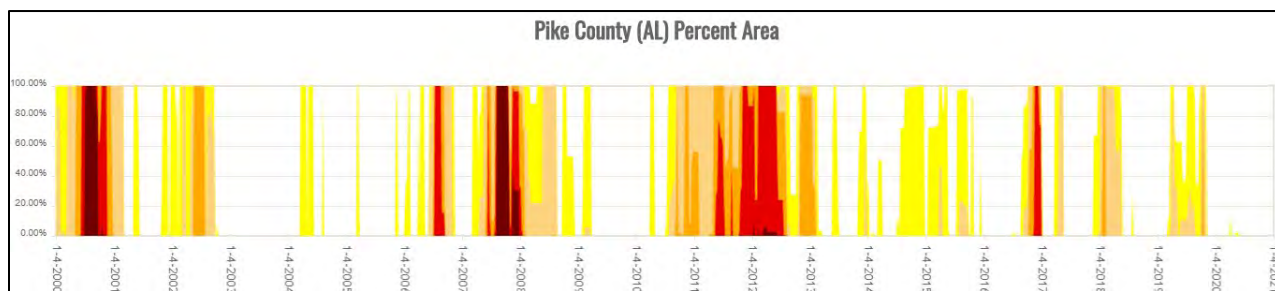
**Figure 4.21: Houston County Drought Time Series, 2000 to 2020**



Pike County experienced D4 exceptional drought conditions affecting the entire county from July through October 2000 and August through October 2007. Periods of D3 extreme drought conditions affecting the entire county have occurred in 2000, 2006, 2007, and 2016, with an extended D3 drought lasting from 2011 through 2012.

**Figure 4.22: Pike County Drought Time Series, 2000 to 2020**



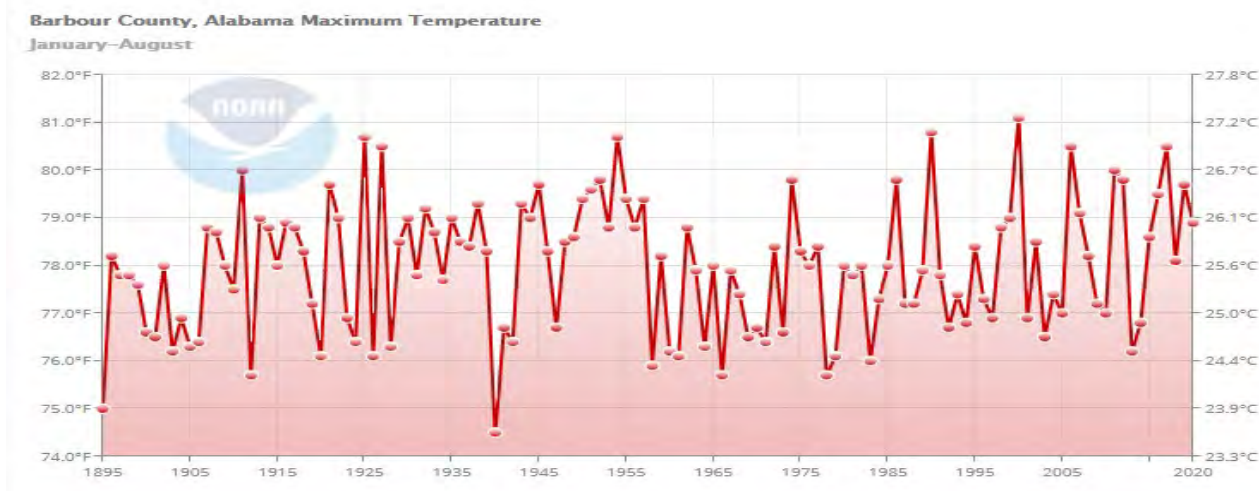


Source: U.S. Drought Monitor, <https://droughtmonitor.unl.edu/Data/Timeseries.aspx>

August is the generally the hottest month throughout the AEMA Division B region. According to the NCEI Climate at a Glance data, all three counties had record high temperatures in August 1954, with Butler County at 98.0°F, Crenshaw County at 97.9°F, and Pike County at 98.2°F. Figures 4.23 through 4.32 provides a NCEI Climate at a Glance graph of maximum temperatures in August since 1895. A heat index value for these temperature dates is not available. If a moderate relative humidity of 65% is applied, any temperature above 92.0°F would result in a heat index in the danger zone, and temperatures of 98.0°F and above would be in the extreme danger zone.

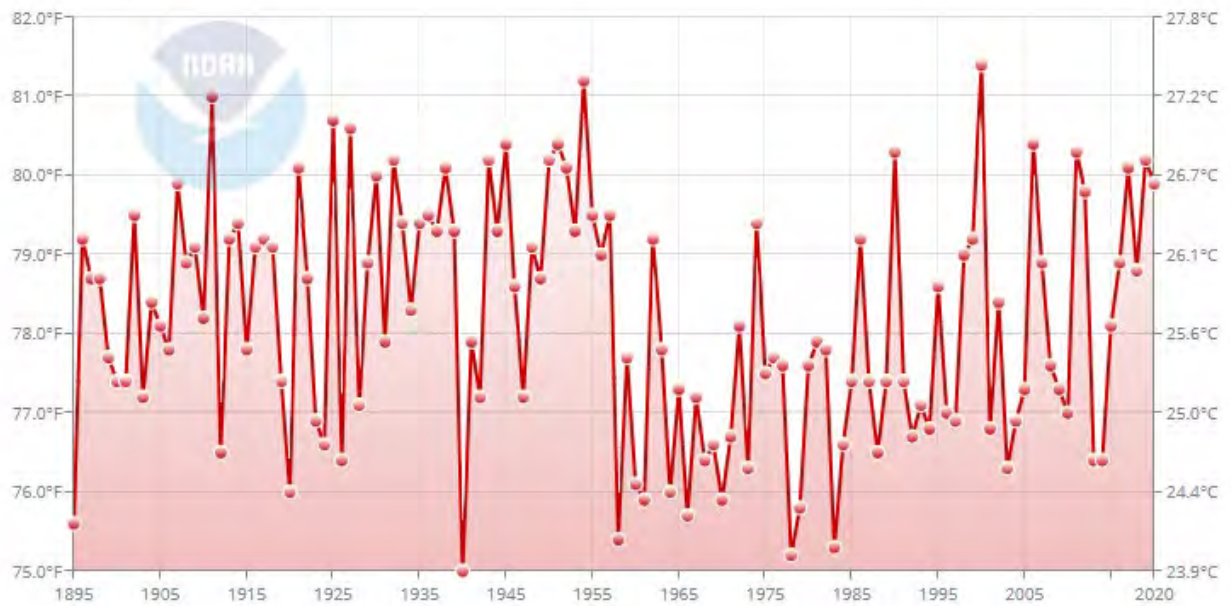
Event notes in the NCEI Storm Events Database report that in July 2000, Butler and Crenshaw Counties had 100 degree temperatures for ten and five days out of the month, respectively. In Greenville (Butler County), the hottest day was 104.0°F and in Highland Home (Crenshaw County), the hottest day was 103.0°F. NCEI Database Notes from an August 2007 event for Butler, Crenshaw and Pike Counties state that heat advisories were issued for a combination of high temperatures and high humidity, with heat index values between 110 and 115 degrees. In Pike County, 16 people were injured in this event. Statewide, at least 408 people required medical treatment due to the heat, and 11 people died due to heat-related illness during the 2007 event.

**Figure 4.23: Maximum Temperatures for Barbour County Jan-August, 1895 to 2020**



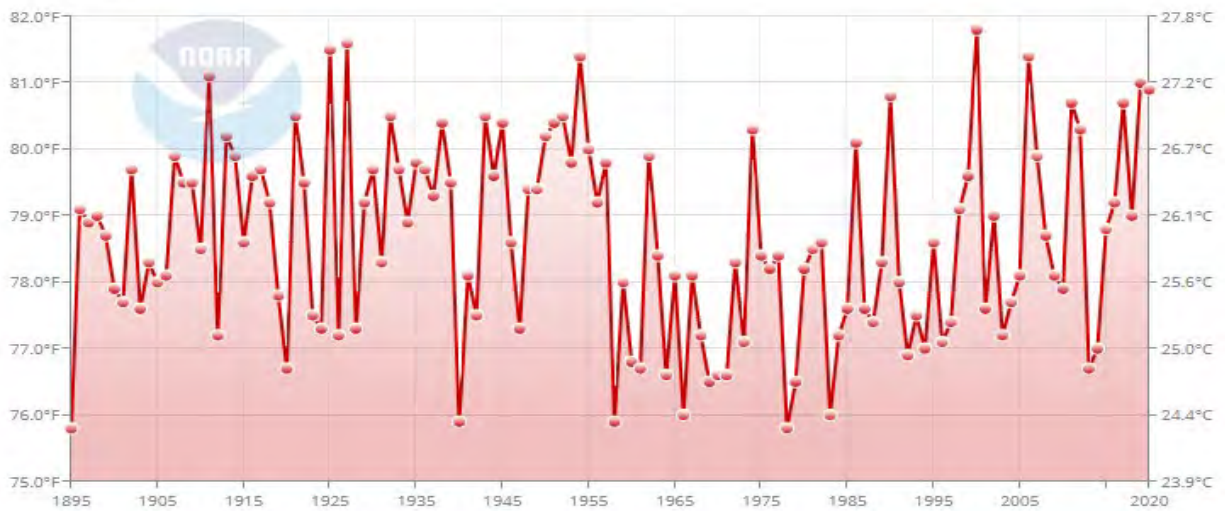
**Figure 4.24: Maximum Temperatures for Butler County Jan-August, 1895 to 2020**

**Butler County, Alabama Maximum Temperature**  
**January–August**



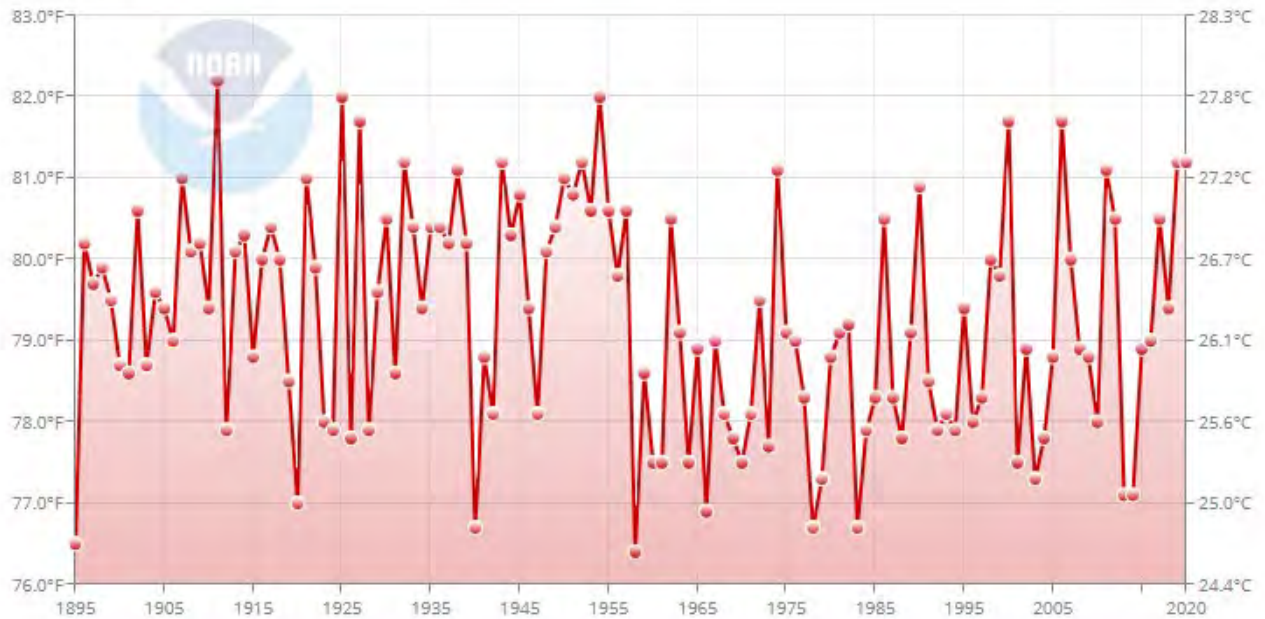
**Figure 4.25: Maximum Temperatures Jan-August for Coffee County, 1895 to 2020**

**Coffee County, Alabama Maximum Temperature**  
**January–August**



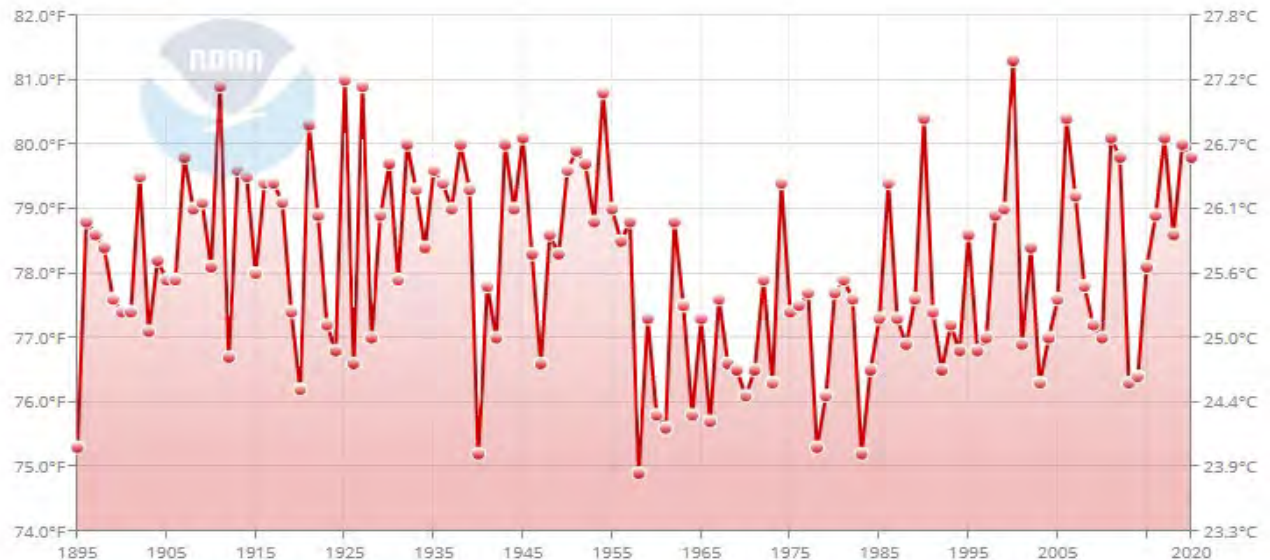
**Figure 4.26: Maximum Temperatures Jan-August for Covington County, 1895 to 2020**

**Covington County, Alabama Maximum Temperature**  
**January–August**



**Figure 4.27: Maximum Temperatures Jan-August for Crenshaw County, 1895 to 2020**

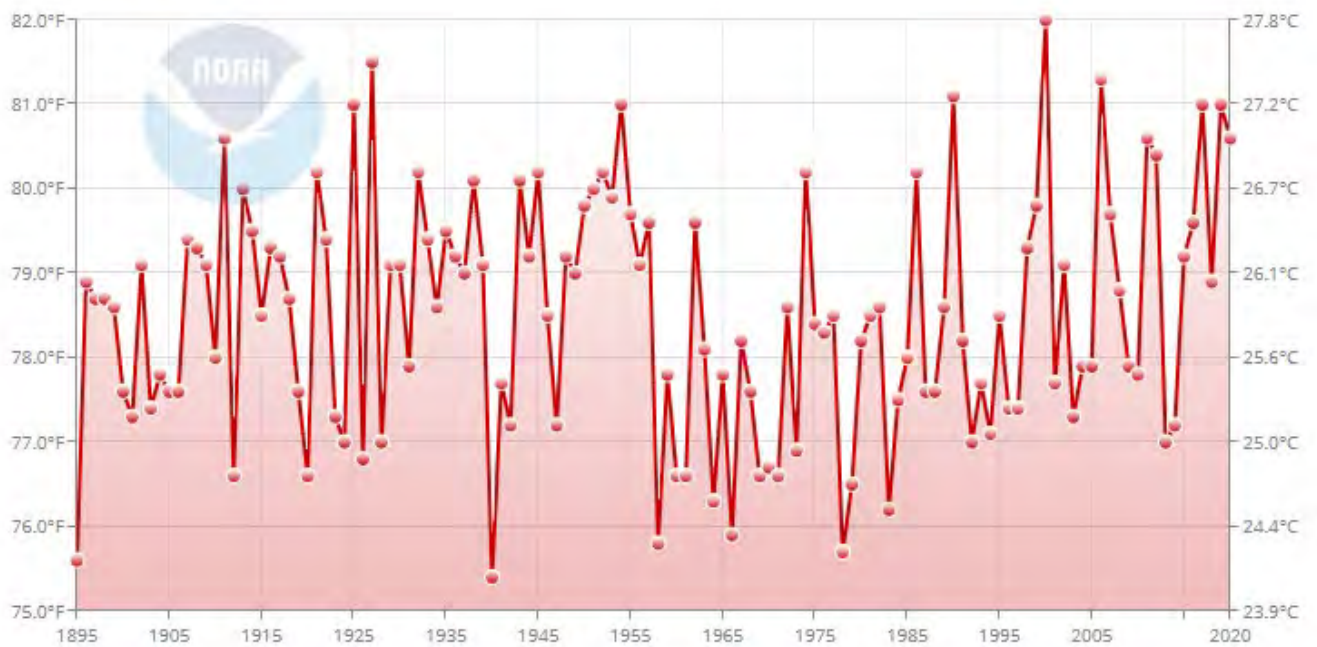
**Crenshaw County, Alabama Maximum Temperature**  
**January–August**





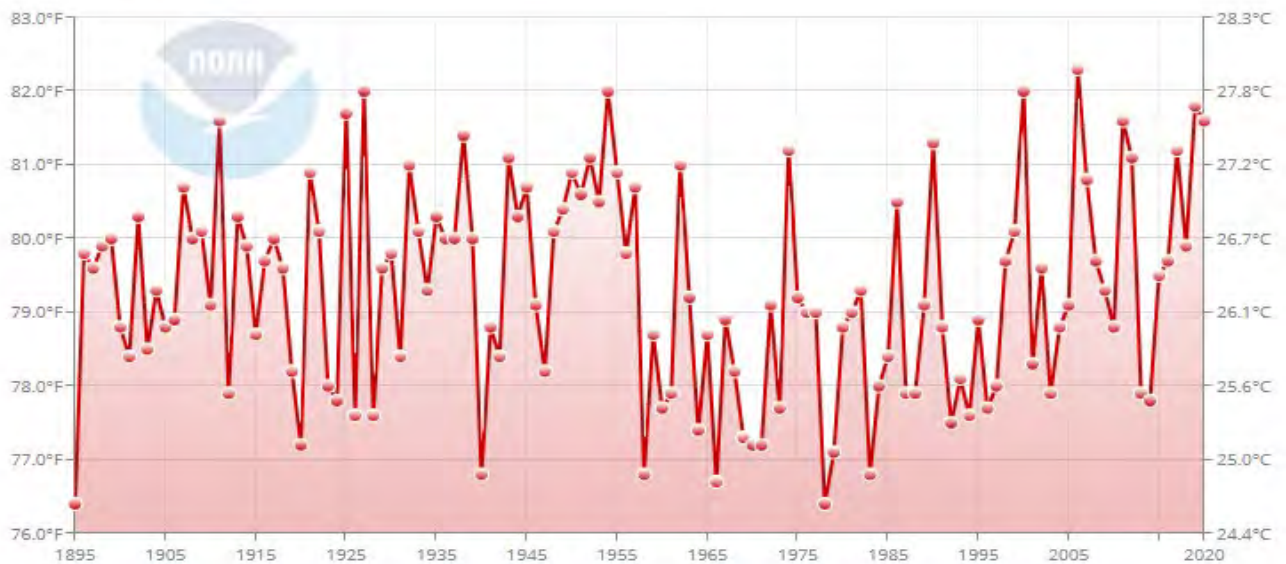
**Figure 4.28: Maximum Temperatures Jan-August for Dale County, 1895 to 2020**

**Dale County, Alabama Maximum Temperature**  
**January–August**



**Figure 4.29: Maximum Temperatures Jan-August for Geneva County, 1895 to 2020**

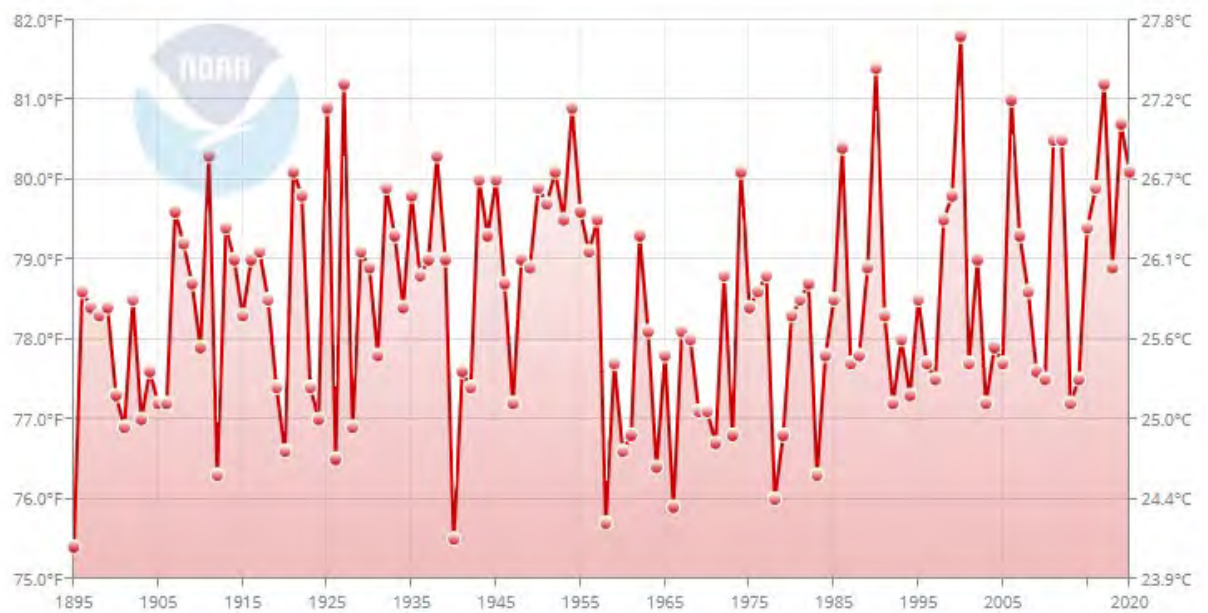
**Geneva County, Alabama Maximum Temperature**  
**January–August**





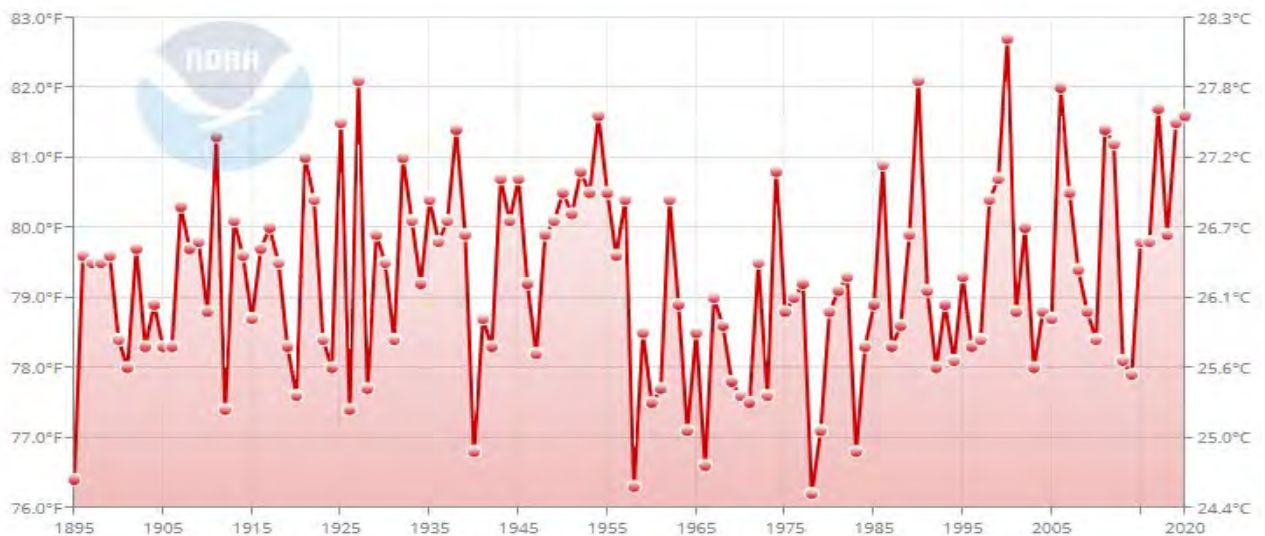
**Figure 4.30: Maximum Temperatures Jan-August for Henry County, 1895 to 2020**

Henry County, Alabama Maximum Temperature  
January–August



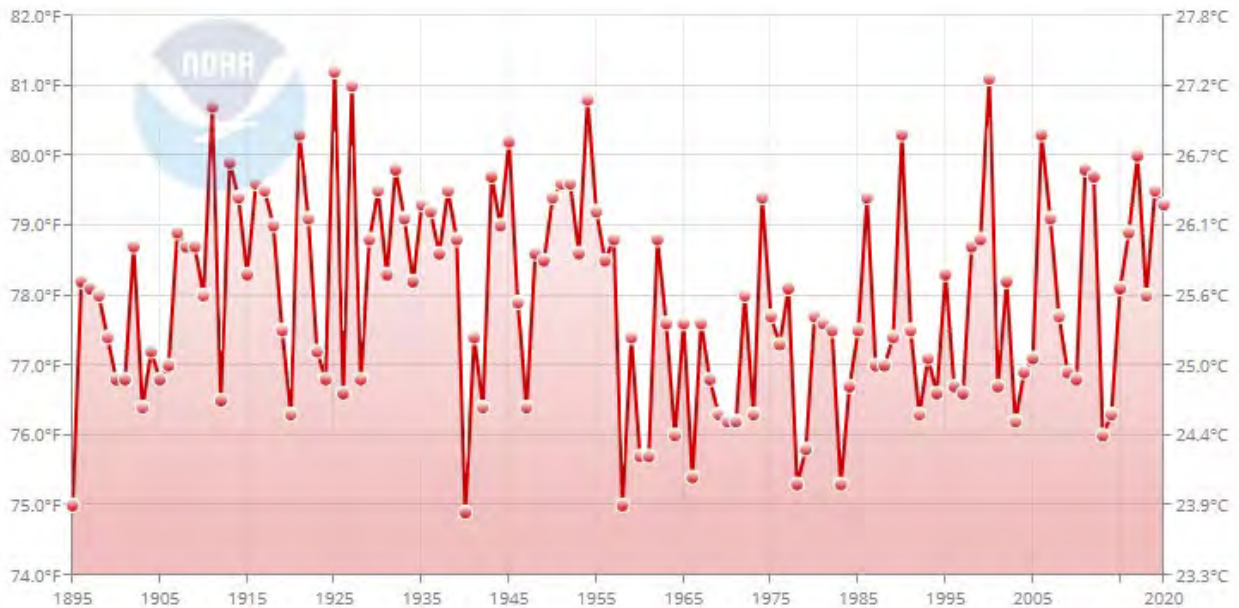
**Figure 4.31: Maximum Temperatures Jan-August for Houston County, 1895 to 2020**

Houston County, Alabama Maximum Temperature  
January–August



**Figure 4.32: Maximum Temperatures Jan-August for Pike County, 1895 to 2020**

Pike County, Alabama Maximum Temperature  
January–August



NOAA National Centers for Environmental Information, *Climate at a Glance: County Mapping*.

[https://www.ncdc.noaa.gov/cag/county/time-series/AL-013/tmax/1/8/1895-2020?base\\_prd=true&begbaseyear=1901&endbaseyear=2000](https://www.ncdc.noaa.gov/cag/county/time-series/AL-013/tmax/1/8/1895-2020?base_prd=true&begbaseyear=1901&endbaseyear=2000)

### ***Historical Occurrences.***

On July 20, 1977, FEMA announced an emergency declaration for drought covering the State of Alabama, including Butler County. Public assistance was provided to local governments, however the declaration was not eligible for individual assistance. Quantification of drought occurrences are not easily classified, due to those conditions providing differing effects based on reliance on agricultural, hydrological, or socioeconomic concerns. Therefore, the NOAA National Centers for Environmental Information (NCEI) and the U.S. Drought Monitor were utilized to obtain data for drought and extreme heat events from January 1, 2000 through May 31, 2020. NCEI data indicates that there were two drought events and two extreme heat events affecting Butler County in the 20-year time period, none of which resulted in death, injury, property damage or crop damage, as shown in Table 4.25.

**Table 4.25: Drought and Extreme Heat Summary and Probability by Jurisdiction 2000-2020**

Jurisdiction	Historical Events	Drought Extent/ Extreme Heat Extent	Probability of Impactful Future Events
Barbour County	5 Events	D4 Drought	Medium
Butler County	4 Events	D4 Drought/ Extreme Danger @ 104°F	Medium
Unincorporated Butler County	4 Events	D4 Drought/ Extreme Danger @ 104°F	Medium
Georgiana	4 Events	D4 Drought/ Extreme Danger @ 104°F	Medium
Greenville	4 Events	D4 Drought/ Extreme Danger @ 104°F	Medium

McKenzie	4 Events	D4 Drought/ Extreme Danger @ 104°F	Medium
<b>Coffee County</b>	<b>9 Events</b>	<b>D4 Drought</b>	<b>Medium</b>
<b>Covington County</b>	<b>2 Events</b>	<b>D4 Drought/ Extreme Danger @ 104°F</b>	<b>Medium</b>
<b>Crenshaw County</b>	<b>4 Events</b>	<b>D4 Drought/ Extreme Danger @ 103°F</b>	<b>Medium</b>
Unincorporated Crenshaw County	4 Events	D4 Drought/ Extreme Danger @ 103°F	Medium
Brantley	4 Events	D4 Drought/ Extreme Danger @ 103°F	Medium
Dozier	4 Events	D4 Drought/ Extreme Danger @ 103°F	Medium
Glenwood	4 Events	D4 Drought/ Extreme Danger @ 103°F	Medium
Luverne	4 Events	D4 Drought/ Extreme Danger @ 103°F	Medium
Petrey	4 Events	D4 Drought/ Extreme Danger @ 103°F	Medium
Rutledge	4 Events	D4 Drought/ Extreme Danger @ 103°F	Medium
<b>Dale County</b>	<b>6 Events</b>	<b>D4 Drought/ Extreme Danger @ 103°F</b>	<b>Medium</b>
<b>Geneva County</b>	<b>6 Events</b>	<b>D4 Drought/</b>	<b>Medium</b>
<b>Henry County</b>	<b>5 Events</b>	<b>D4 Drought/ Extreme Danger @ 103°F</b>	<b>Medium</b>
<b>Houston County</b>	<b>6 Events</b>	<b>D4 Drought/ Extreme Danger @ 103°F</b>	<b>Medium</b>
<b>Pike County</b>	<b>0 Events</b>	D4 Drought/ Extreme Danger	<b>Medium</b>
Unincorporated Pike County	0 Events	D4 Drought/ Extreme Danger	Medium
Banks	0 Events	D4 Drought/ Extreme Danger	Medium
Brundidge	0 Events	D4 Drought/ Extreme Danger	Medium
Goshen	0 Events	D4 Drought/ Extreme Danger	Medium
Troy	0 Events	D4 Drought/ Extreme Danger	Medium

Source: NOAA, National Centers for Environmental Information, Storm Events Database.

<https://www.ncdc.noaa.gov/stormevents/choosedates.jsp?statefips=1%2CALABAMA>

### ***Probability of Future Events.***

The probability of future events of drought and extreme heat in Region B counties are relatively high. Most jurisdictions, however, are capable of managing mild cases of drought and occasional heat waves, rendering minor impacts a majority of the time. Therefore, the likelihood of probability

for impactful drought and extreme heat events for the county is Medium, with probable major damage in a 10 to 50-year period.

## **EARTHQUAKE**

### ***Description.***

An earthquake is ground shaking caused by a sudden movement of rock in the earth's crust. Such movements occur along faults, which are thin zones of crushed rock separating blocks of crust. When one block suddenly slips and moves relative to the other along a fault, the energy released creates vibrations called seismic waves that radiate up through the crust to the earth's surface, causing the ground to shake. Earthquakes are caused by stress that builds up over time as blocks of crust attempt to move but are held in place by friction along a fault. If the pressure to move becomes stronger than the friction holding them together, adjoining blocks of crust can suddenly slip, rupturing the fault and creating an earthquake.

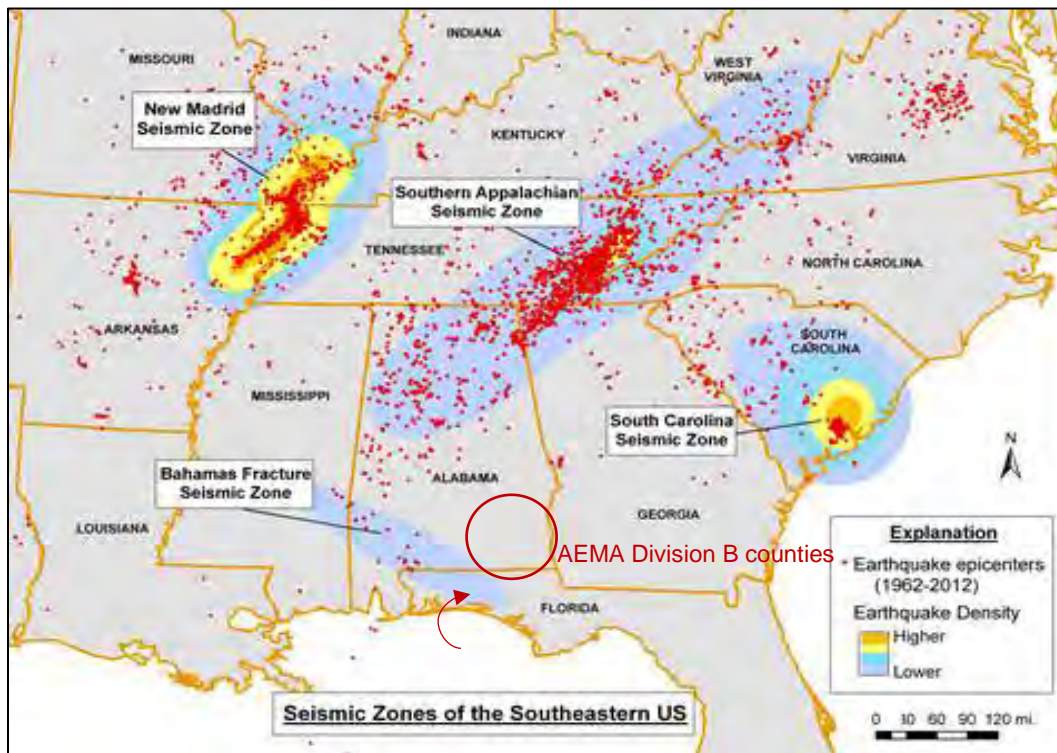
### ***Location.***

There has been no reports of earthquake activity in Barbour, Butler, Coffee, Covington, Dale, Henry, Houston, Crenshaw or Pike Counties. Two sources were consulted regarding the location of earthquake hazards in relation to three counties: Geological Survey of Alabama (GSA) and the US Geological Survey (USGS). According to the GSA, the four zones of frequent earthquake activity affecting Alabama, as shown in Figure 4.33, are the New Madrid Seismic Zone, the Southern Appalachian Seismic Zone, the South Carolina Seismic Zone, and the Bahamas Fracture Seismic Zone. GSA further states that most of the earthquakes experienced in Alabama are associated with the Southern Appalachian Seismic Zone (an extension of the East Tennessee Seismic Zone) that runs along the Appalachian Mountains from the northeastern corner into the central part of the state and the Bahamas Fracture Seismic Zone in southern Alabama. The Seismic Zones of the Southeastern United States Map indicates that Region B is located in an area outside of any of the four seismic zones and are in an area of lower earthquake density.

The 2018 Long-Term National Seismic Hazard Map (Figure 4.34), available through USGS, shows peak ground accelerations have a 2 percent probability of being exceeded in 50 years, for a firm rock site. USGS states, "The map is based on the most recent USGS models for the conterminous U.S. (2018), Hawaii (1998), and Alaska (2007). The models are based on seismicity and fault-slip rates and take into account the frequency of earthquakes of various magnitudes." USGS further states that locally, the hazard may be greater than shown in the long-term seismic hazard map, because site geology may amplify ground motions. Given the location of Butler, Crenshaw, and Pike Counties in relation to seismic zones and probable seismic hazard areas shown in the two aforementioned maps, it becomes apparent that Butler, Crenshaw and Pike Counties are not at risk from an earthquake event; however, there remains the potential of minor effects from seismic activity in other Alabama locations.



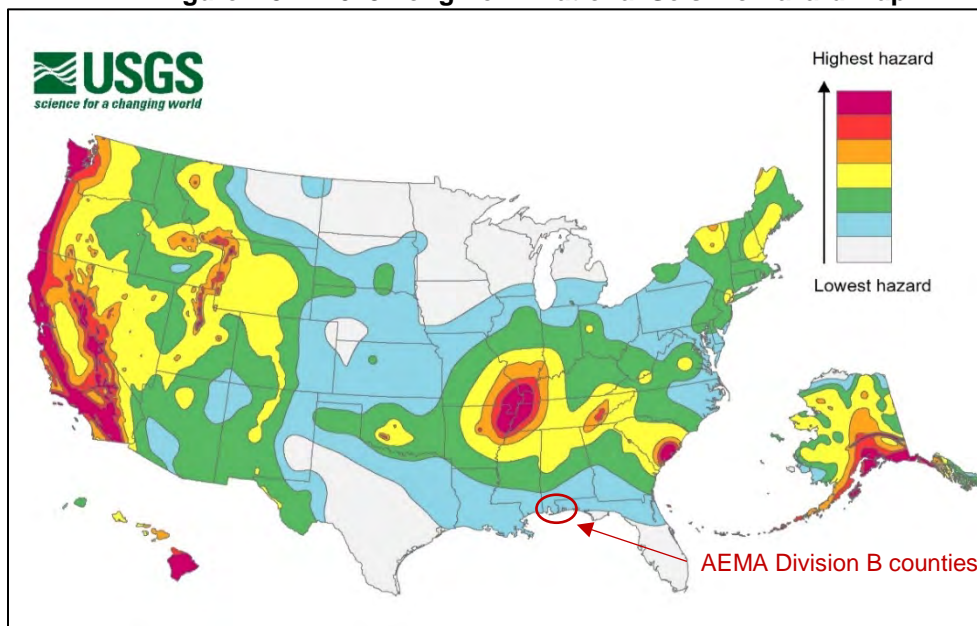
**Figure 4.33: Seismic Zones of the Southeastern United States**



Source: Geological Survey of Alabama, Geological Hazards.

<https://gsa.state.al.us/gsa/geologic/hazards/earthquakes/alquakes#:~:text=Four%20zones%20of%20frequent%20earthquake,the%20Bahamas%20Fracture%20Seismic%20Zone.>

**Figure 4.34: 2018 Long-Term National Seismic Hazard Map**



Source: US Geological Survey (USGS), Earthquake Hazards Program.

<https://www.usgs.gov/media/images/2018-long-term-national-seismic-hazard-map>

### **Extent.**

According to the USGS Earthquake Hazard Program, earthquakes are measured using two types of measurements: magnitude and intensity. The magnitude is a number that characterizes the relative size of an earthquake. Magnitude is based on measurement of the maximum motion recorded by a seismograph. Several scales have been defined, but the most commonly used are (1) local magnitude (ML), commonly referred to as "Richter magnitude", (2) surface-wave magnitude (Ms), (3) body-wave magnitude (Mb), and (4) moment magnitude (Mw). The most accurate of the four scales is the moment magnitude (Mw) scale, which is based on the concept of seismic moment and is uniformly applicable to all sizes of earthquakes. Magnitude is the most common measure for an earthquake's size and is the same number no matter where it is located and regardless of what the earthquake's shaking feels like at any given location.

**Intensity** is a measure of the shaking and damage caused by the earthquake. The intensity value changes from one location to another, based on the proximity of the earthquake. Earthquake intensity is a Roman numeral describing the severity of an earthquake in terms of its effects on the earth's surface and on humans and their structures. One of the most commonly used scales to measure intensity in the United States, and the one that will be used in this plan, is the Modified Mercalli scale, which is shown and explained in Table 4.16. The Modified Mercalli Intensity Scale has measurements from I to XII, with it being hardly felt, if at all, and XII being total destruction of the surface.

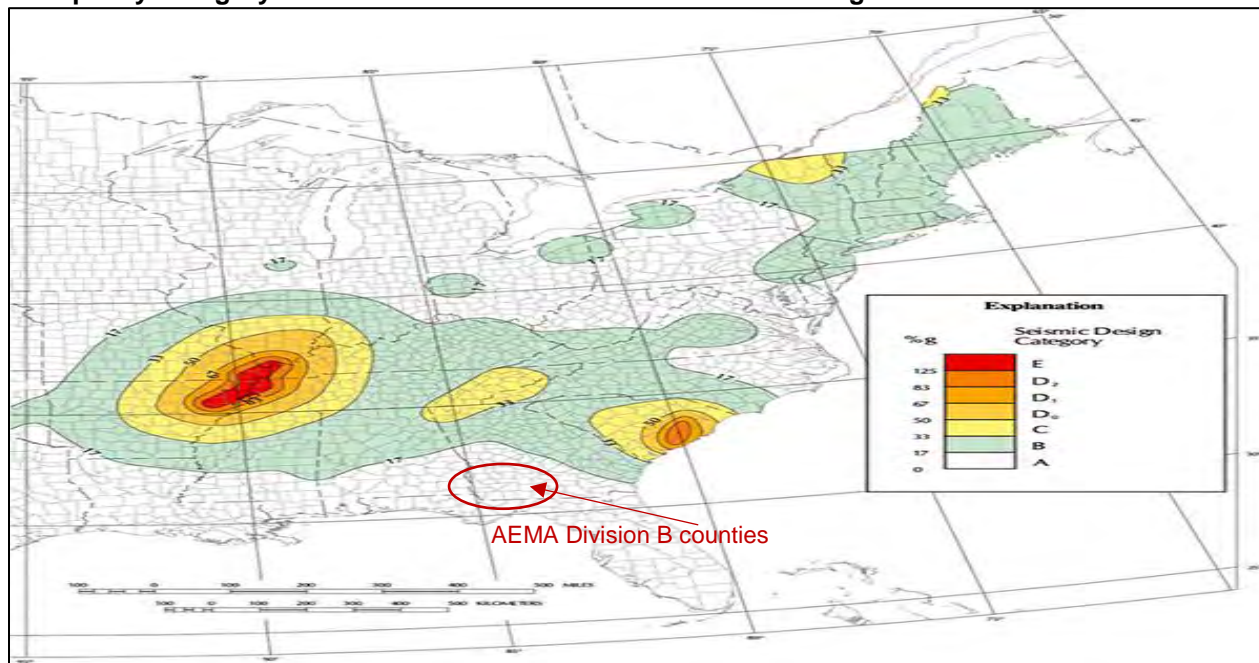
**Table 4.16: Modified Mercalli Scale**

Intensity	Shaking	Description/Damage
I	Not felt	Not felt except by a very few under especially favorable conditions.
II	Weak	Felt only by a few persons at rest, especially on upper floors of buildings.
III	Weak	Felt quite noticeably by persons indoors, especially on upper floors of buildings. Many people do not recognize it as an earthquake. Standing motor cars may rock slightly. Vibrations similar to the passing of a truck. Duration estimated.
IV	Light	Felt indoors by many, outdoors by few during the day. At night, some awakened. Dishes, windows, doors disturbed; walls make cracking sound. Sensation like heavy truck striking building. Standing motor cars rocked noticeably.
V	Moderate	Felt by nearly everyone; many awakened. Some dishes, windows broken. Unstable objects overturned. Pendulum clocks may stop.
VI	Strong	Felt by all, many frightened. Some heavy furniture moved; a few instances of fallen plaster. Damage slight.
VII	Very strong	Damage negligible in buildings of good design and construction; slight to moderate in well-built ordinary structures; considerable damage in poorly built or badly designed structures; some chimneys broken.
VIII	Severe	Damage slight in specially designed structures; considerable damage in ordinary substantial buildings with partial collapse. Damage great in poorly built structures. Fall of chimneys, factory stacks, columns, monuments, walls. Heavy furniture overturned.
IX	Violent	Damage considerable in specially designed structures; well-designed frame structures thrown out of plumb. Damage great in substantial buildings, with partial collapse. Buildings shifted off foundations.
X	Extreme	Some well-built wooden structures destroyed; most masonry and frame structures destroyed with foundations. Rails bent.

Source: US Geological Survey, *Earthquake Hazards Program*. [https://www.usgs.gov/natural-hazards/earthquake-hazards/science/modified-mercalli-intensity-scale?qt-science\\_center\\_objects=0#qt-science\\_center\\_objects](https://www.usgs.gov/natural-hazards/earthquake-hazards/science/modified-mercalli-intensity-scale?qt-science_center_objects=0#qt-science_center_objects)

Using an abbreviated version of the Modified Mercalli scale, FEMA provides seismic design category map for low rise structures on sites with average soil conditions. The Seismic Design Categories Map for the Eastern United States, shown in Figure 4.35 with category definitions provided in Table 4.26, indicates that Region B Counties are in Category A, which has a very small probability of experiencing damaging earthquake effects.

**Figure 4.35: Seismic Design Categories (SDC) Map of the Eastern United States for low-rise Occupancy Category I and II structures located on sites with average alluvial soil conditions.**



Source: FEMA, Earthquake Hazard Maps. <https://www.fema.gov/earthquake-hazard-maps>

**Table 4.26: Seismic Design Categories (SDC) Map Definitions**

SDC	Map Color	Earthquake Hazard	Potential Effects of Shaking*
A	White	Very small probability of experiencing damaging earthquake effects.	
B	Gray	Could experience shaking of moderate intensity.	Moderate shaking—Felt by all, many frightened. Some heavy furniture moved; a few instances of fallen plaster. Damage slight.
C	Yellow	Could experience strong shaking.	Strong shaking—Damage negligible in buildings of good design and construction; slight to moderate in well-built ordinary structures; considerable damage in poorly built structures.
D <sub>0</sub>	Light brown	Could experience very strong shaking (the darker the color, the stronger the shaking).	Very strong shaking—Damage slight in specially designed structures; considerable damage in ordinary substantial buildings with partial collapse. Damage great in poorly built structures.
D <sub>1</sub>	Darker brown		
D <sub>2</sub>	Darkest brown		
E	Red	Near major active faults capable of producing the most intense shaking.	Strongest shaking—Damage considerable in specially designed structures; frame structures thrown out of plumb. Damage great in substantial buildings, with partial collapse. Buildings shifted off foundations. Shaking intense enough to completely destroy buildings.

\* Abbreviated descriptions from The Modified Mercalli Intensity Scale.

Source: FEMA, Earthquake Hazard Maps. <https://www.fema.gov/earthquake-hazard-maps>

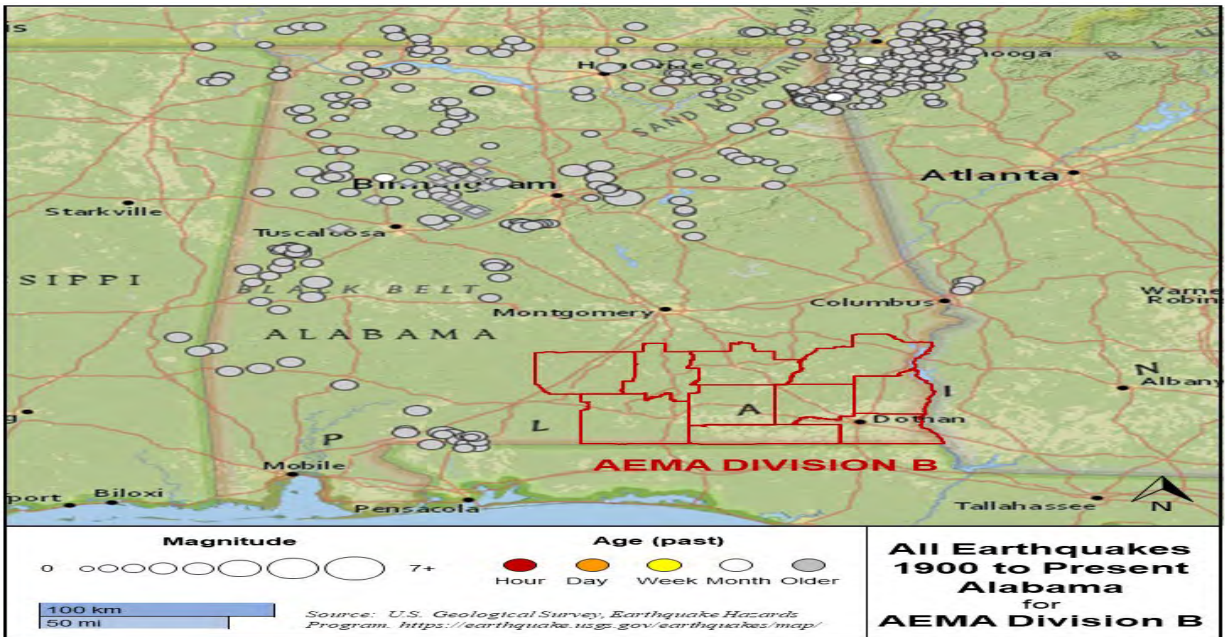
### **Historical Occurrences.**

It is locally assumed that there has been no recent or past earthquake activity in the Butler County area. Both the US Geological Survey and the Geological Survey of Alabama maintain catalogs of earthquake events affecting Alabama that date back to 1886. FEMA also provides a map by state of all earthquake events from 1900 to present, which is shown in the Figure 4.36 series for each county. A review of both past event catalogs, along with the map of past



earthquakes in relation to the location of Butler, Crenshaw and Pike Counties, confirms that there are no historical occurrences of earthquakes in the three counties.

**Figure 4.36: Historical Earthquakes in Alabama in Relation to AEMA Division B**

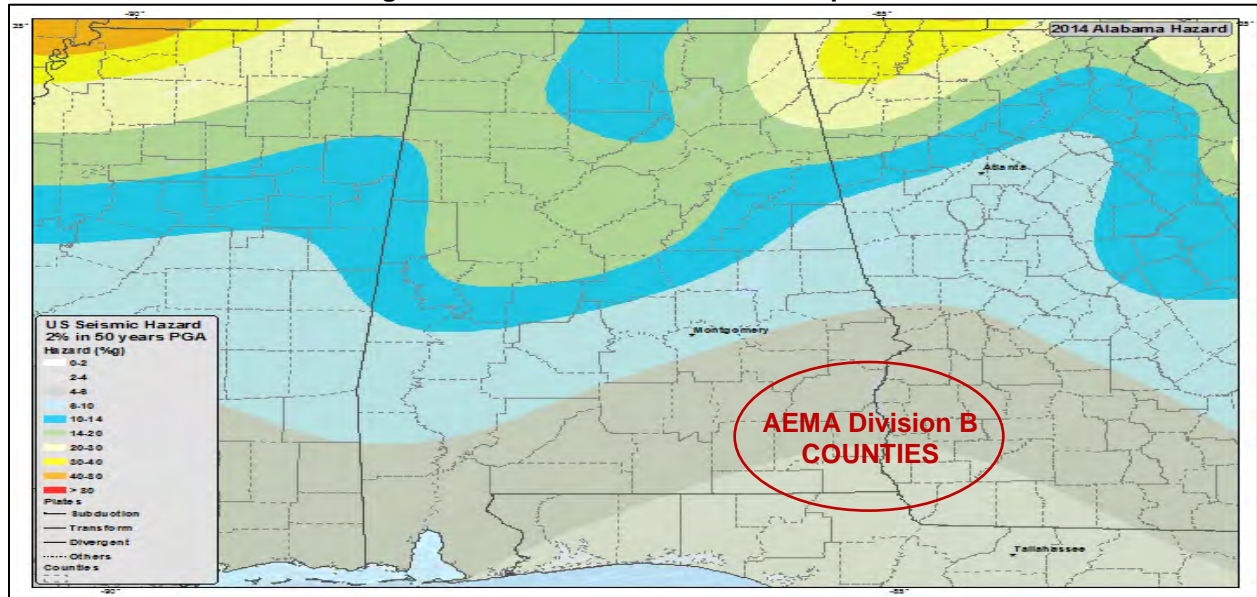


### ***Probability of Future Events.***

Given the AEMA Division B location outside of seismic zone activity and history of no past earthquakes, the probability of future earthquake events in the county is very low. Figure 4.37 provides a seismic hazard map available from USGS. These maps display earthquake ground motions for various probability levels across the United States and are applied in seismic provisions of building codes, insurance rate structures, risk assessments, and other public policy. For Butler County, the earthquake peak ground acceleration (PGA) that has a 2 percent chance of being exceeded in 50 years has a value between 4 and 6%.



Figure 4.37: 2014 Seismic Hazard Map of Alabama



Source: US Geological Survey (USGS), Earthquake Hazards Program.  
<https://www.usgs.gov/media/images/2014-seismic-hazard-map-alabama>

Table 4.27: Earthquake Summary and Probability by Jurisdiction

Jurisdiction	Historical Events	Maximum Extent	Probability of Impactful Future Events
<b>Butler County</b>	<b>0 Events</b>	<b>None</b>	<b>Low</b>
Unincorporated Butler County	0 Events	None	Low
Georgiana	0 Events	None	Low
Greenville	0 Events	None	Low
McKenzie	0 Events	None	Low
<b>Crenshaw County</b>	<b>0 Events</b>	<b>None</b>	<b>Low</b>
Unincorporated Crenshaw County	0 Events	None	Low
Brantley	0 Events	None	Low
Dozier	0 Events	None	Low
Glenwood	0 Events	None	Low
Luverne	0 Events	None	Low
Petrey	0 Events	None	Low
Rutledge	0 Events	None	Low
<b>Pike County</b>	<b>0 Events</b>	<b>None</b>	<b>Low</b>
Unincorporated Pike County	0 Events	None	Low
Banks	0 Events	None	Low
Brundidge	0 Events	None	Low
Goshen	0 Events	None	Low
Troy	0 Events	None	Low
<b>Barbour County</b>	<b>0 Events</b>	<b>None</b>	<b>Low</b>
Unincorporated Barbour County	0 Events	None	Low
Baker Hill	0 Events	None	Low

Blue Springs	0 Events	None	Low
Clayton	0 Events	None	Low
Clio	0 Events	None	Low
Louisville	0 Events	None	Low
Eufaula	0 Events	None	Low
<b>Coffee County</b>	0 Events	None	Low
Unincorporated Coffee County	0 Events	None	Low
Elba	0 Events	None	Low
Enterprise	0 Events	None	Low
Kinston	0 Events	None	Low
New Brockton	0 Events	None	Low
<b>Covington County</b>	0 Events	None	Low
Unincorporated Covington County	0 Events	None	Low
Andalusia	0 Events	None	Low
Babbie	0 Events	None	Low
Carolina	0 Events	None	Low
Floral	0 Events	None	Low
Gantt	0 Events	None	Low
Heath	0 Events	None	Low
Horn Hill	0 Events	None	Low
Libertyville	0 Events	None	Low
Lockhart	0 Events	None	Low
Opp	0 Events	None	Low
Red Level	0 Events	None	Low
River Falls	0 Events	None	Low
Sanford	0 Events	None	Low
<b>Dale County</b>	0 Events	None	Low
Unincorporated Dale County	0 Events	None	Low
Daleville	0 Events	None	Low
Ozark	0 Events	None	Low
Clayhatchee	0 Events	None	Low
Ariton	0 Events	None	Low
Grimes	0 Events	None	Low
Midland City	0 Events	None	Low
Napier Field	0 Events	None	Low
Newton	0 Events	None	Low
Pickard	0 Events	None	Low
<b>Geneva County</b>	0 Events	None	Low
Unincorporated Geneva County	0 Events	None	Low
Geneva	0 Events	None	Low
Black	0 Events	None	Low
Hartford	0 Events	None	Low

Malvern	0 Events	None	Low
Samson	0 Events	None	Low
Slocomb	0 Events	None	Low
<b>Henry County</b>	0 Events	None	Low
Unincorporated Henry County	0 Events	None	Low
Abbeville	0 Events	None	Low
Haleburg	0 Events	None	Low
Headland	0 Events	None	Low
Newville	0 Events	None	Low
<b>Houston County</b>	0 Events	None	Low
Ashford	0 Events	None	Low
Avon	0 Events	None	Low
Columbia	0 Events	None	Low
Cottonwood	0 Events	None	Low
Cowarts	0 Events	None	Low
Dothan	0 Events	None	Low
Gordon	0 Events	None	Low
Kinsey	0 Events	None	Low
Madrid	0 Events	None	Low
Rehobeth	0 Events	None	Low
Taylor	0 Events	None	Low
Webb	0 Events	None	Low

## FLOODING

### *Description.*

Flooding is considered the most frequent and costly natural hazard in the United States. A flood, or flooding, is a general and temporary condition of partial or complete inundation of two or more acres of normally dry land or two or more properties are inundated by water or mudflow. Conditions that can result in a flood include, but are not limited to, hurricanes, overtopped levees, outdated or clogged drainage systems, and rapid accumulation of rainfall. Most floods fall into one of three major categories: (1) Riverine Flooding; (2) Coastal Flooding (which does not affect Region B); or (3) Shallow Flooding.

When a river channel receives too much water, the excess flows over its banks and into the adjacent floodplain. Flooding that occurs along a channel is called riverine flooding. Riverine flooding includes overbank flooding, flash flooding, and riverine erosion. Overbank flooding occurs when downstream channels receive more rain or snowmelt from their watershed than normal, or a channel is blocked by an ice jam or debris. A severe storm that drops rainfall in a short time can generate a flash flood. Flash floods are more prevalent in areas with steep slopes and narrow stream valleys and along banks of small tributary streams. In urban areas, flash flooding can occur where impervious surfaces, gutters, and storm sewers speed runoff. A meander is a curve in a channel. On the outside of a meander (known as a cut bank), the banks are subject to erosion as the water scours against them. Areas on the inside of meanders (known as point bars) receive deposits of sand and sediment transferred from the eroded sites.

The counties are susceptible to shallow flooding which occurs in flat areas where a lack of channels prevents water from draining easily. Shallow flood problems include flooding and drainage issues related to land development, including sheet flow, ponding, and urban drainage. Sheet flow occurs where there are inadequate drainage channels and floodwater spreads out over a large area at a somewhat uniform depth. Sheet flows occur after an intense or prolonged rainfall during which the rain cannot soak into the ground. During sheet flow, the floodwaters move downhill and cover a wide area. In some flat areas, runoff collects in depressions and cannot drain out, creating a ponding effect. Ponding floodwaters do not move or flow away. Floodwaters will remain in the temporary ponds until they infiltrate into the soil, evaporate or are pumped out. An urban drainage system is generally made up of the ditches, storm sewers, retention ponds and other facilities constructed to store runoff or carry it to a receiving stream, lake or the ocean. Other man-made features in such a system include yards and swales that collect runoff and direct it to the sewers and ditches. When larger storms overload an urban drainage system, the result is backed-up sewers and overloaded ditches that produce shallow flooding.

### ***Locations.***

The Office of Water Resources, located within the Alabama Department of Economic and Community Affairs, maintains the Alabama Flood Risk Information System (FRIS) which provides floodplain maps for Alabama communities. The following information was compiled from the Alabama FRIS and Flood Insurance Studies for each county.

#### **Barbour County**

Flood hazard maps have been created to show different degrees of risk for each community. Flood Insurance Rate Maps (FIRM), have been developed for all of Barbour County. Barbour County includes the Town of Baker Hill, which does not contain any Special Flood Hazard Areas (SFHAs) and is considered non flood-prone. Detailed FIRMs are available for communities in Barbour County. Figure 4.38 shows the location of the currently mapped flood hazard areas in Barbour County; and Figures 4.39 through 4.44 provide a detailed view of flood hazard areas in the more populated parts of the county found in Baker Hill, Blue Springs, Clayton, Clio, Eufaula, and Louisville.

Barbour County is in the gulf coastal plain. It is fairly low lying land with an average elevation of 270 ft. There are numerous rivers, lakes and swamps. The Chattahoochee River forms the boundary between Alabama and Georgia on the eastern side of the county. Cowikee Creek and its tributaries drain northeastern Barbour County, flowing eastward into the Walter F. George Reservoir. The headwaters of the Choctawhatchee River rise in Barbour County and drain the southern third of the county. The Pea River forms the western boundary and its tributaries drain the western third of the county. The Town of Clayton is located where the three principal watersheds converge. Barbour County has experienced flooding in the past as the result of severe storms and hurricanes both of which generally occur in the summer months. Within the City of Eufaula, flooding problems are due primarily to the overflow of the Chattahoochee River and Lake Eufaula (Walter F. George Reservoir). The West Barbour Water Authority, Cowikee Water Authority and the Mount Andrew Water Authority are located in rural unincorporated areas of Barbour County. These areas are affected by primarily flooding during times of intense rain fall in low lying areas.

The Barbour County School System consist of a primary school, an intermediate school and a high school which are all located in the City of Clayton. The Barbour County School system does not experience frequent riverine flooding and are not considered a flood hazard.

**Figure 4.38: Barbour County Flood Hazard Areas**





Figure 4.39: Baker Hill Flood Hazard Areas

## Baker Hill Flood Map

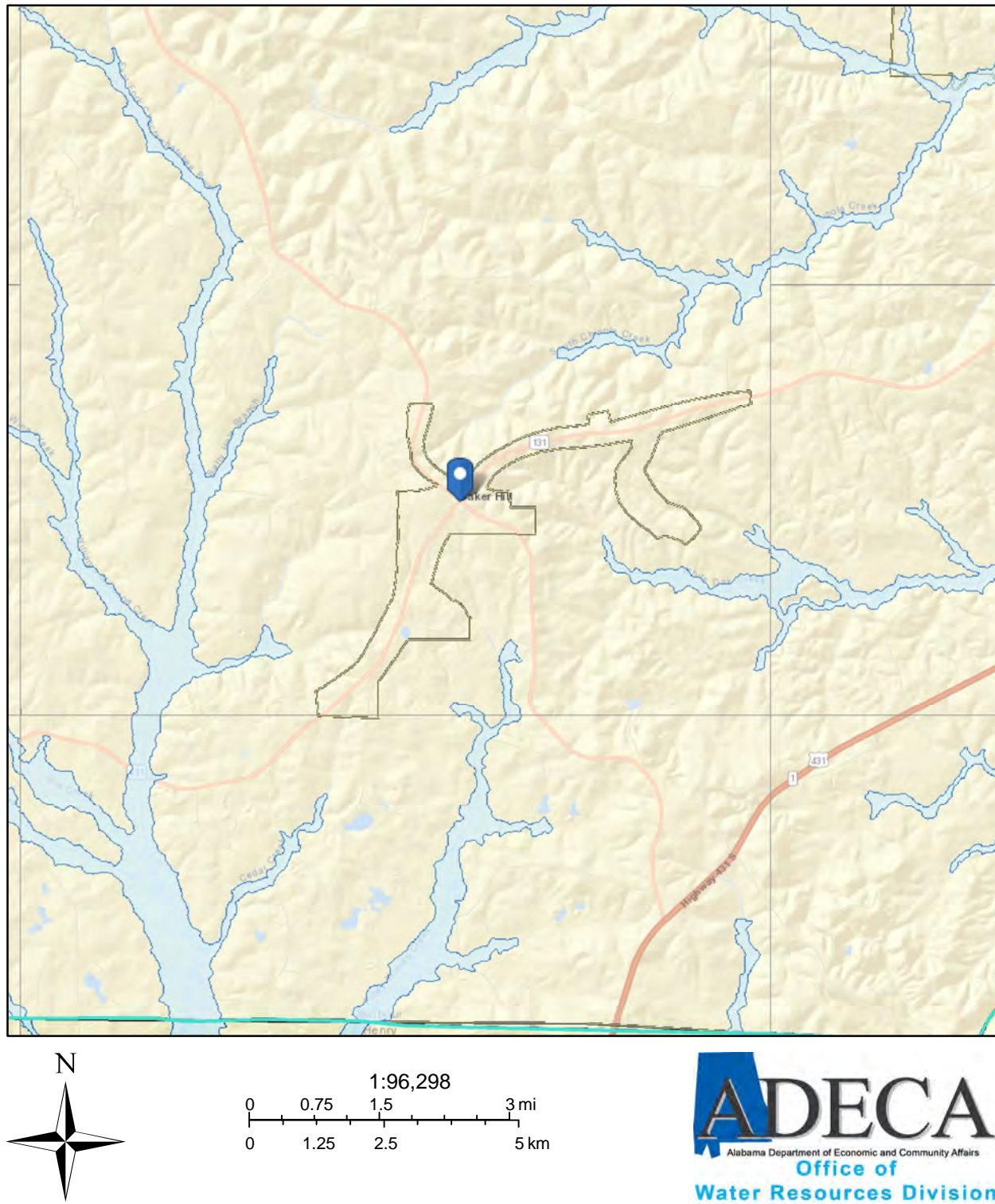


Figure 4.40: Blue Springs Flood Hazard Areas

## Blue Springs Flood Map

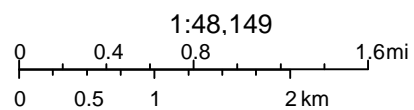
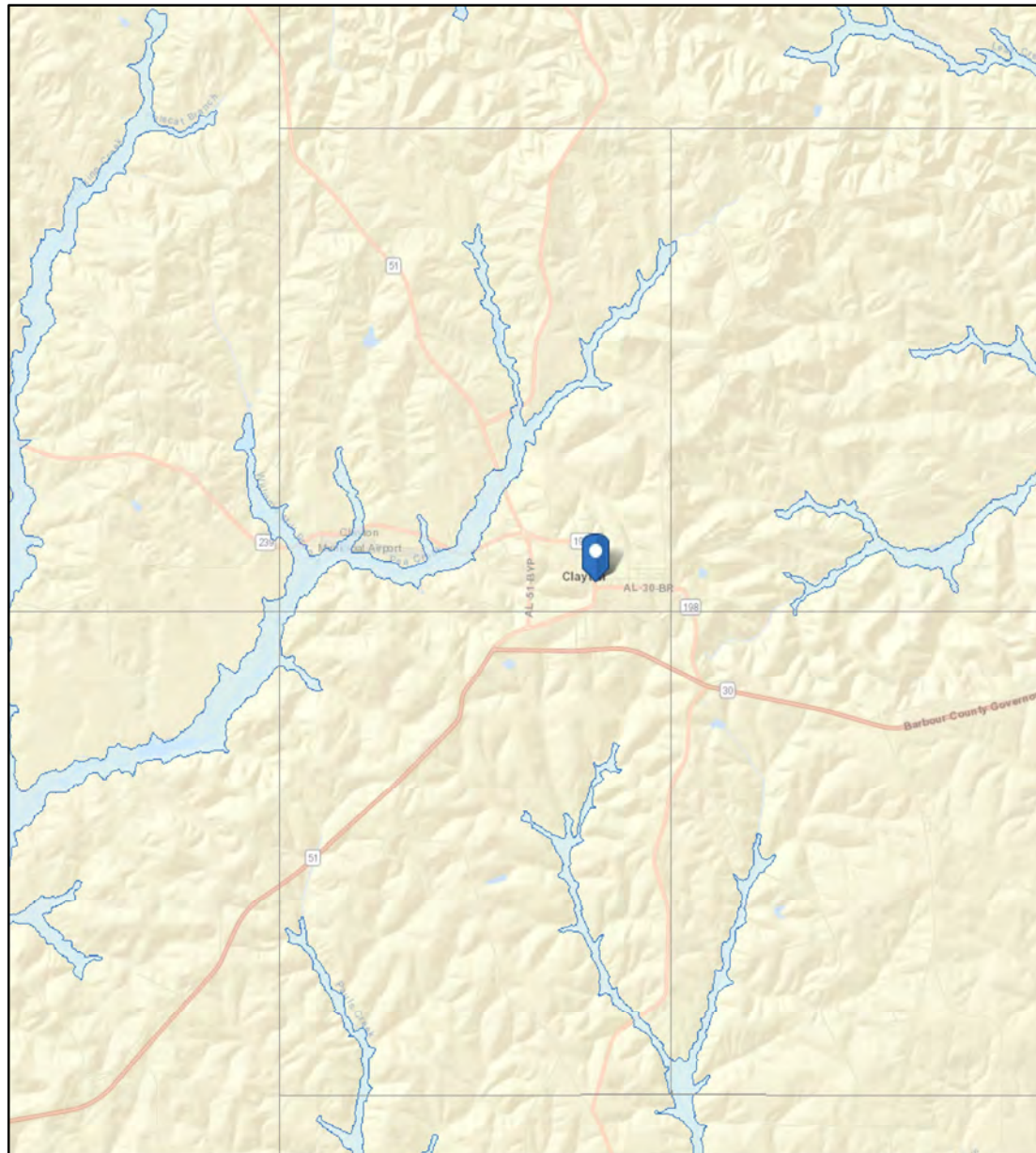




Figure 4.41: Clayton Flood Hazard Areas (Includes Barbour County Schools)

### Clayton Flood Map



1:96,298  
0 0.75 1. 3m  
0 1.25 2. 5k



Figure 4.42: Clio Flood Hazard Areas

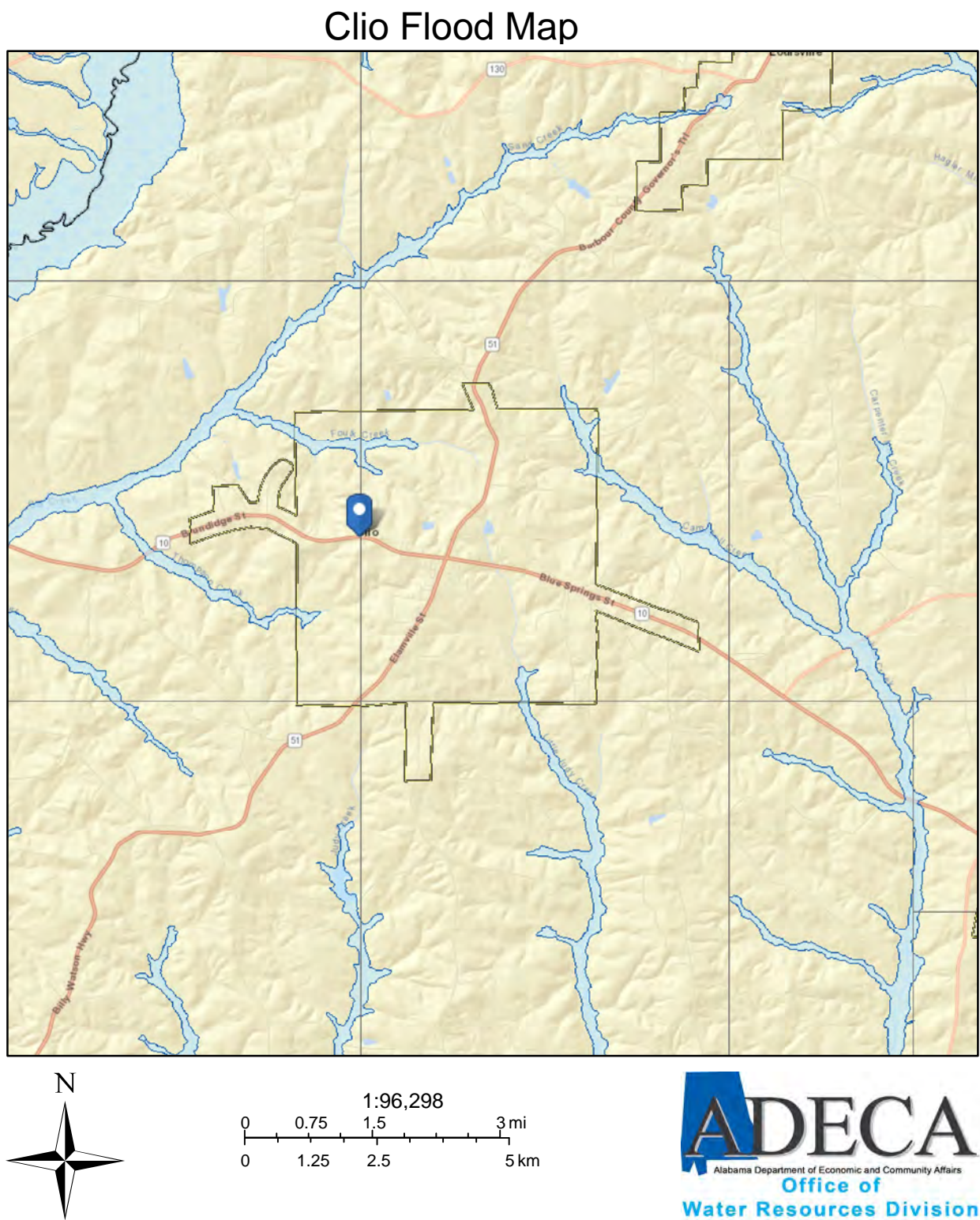




Figure 4.43: Eufaula Flood Hazard Areas (Includes Eufaula City Schools)

## Eufaula Flood Map

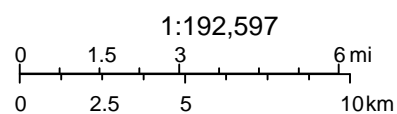
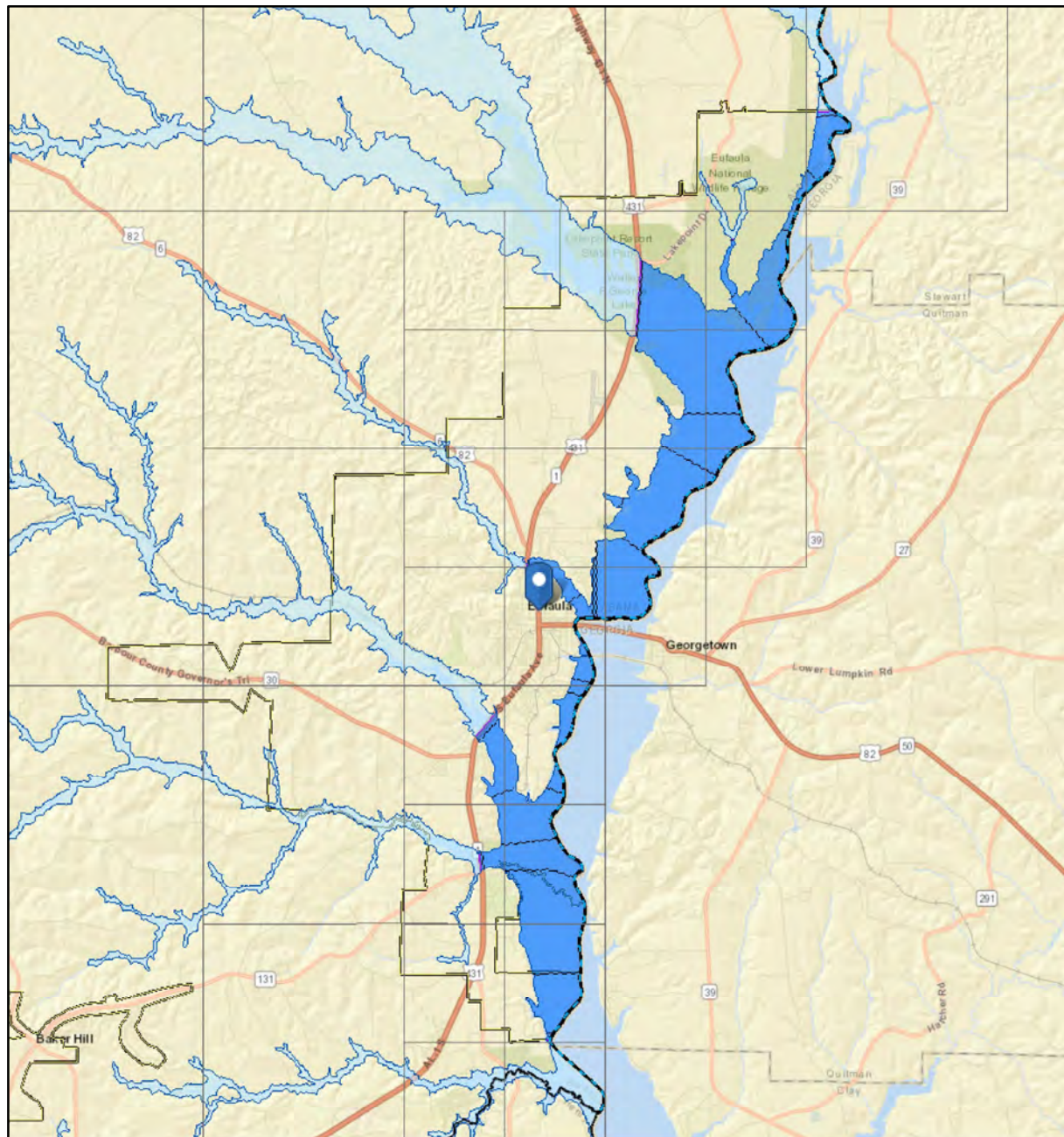
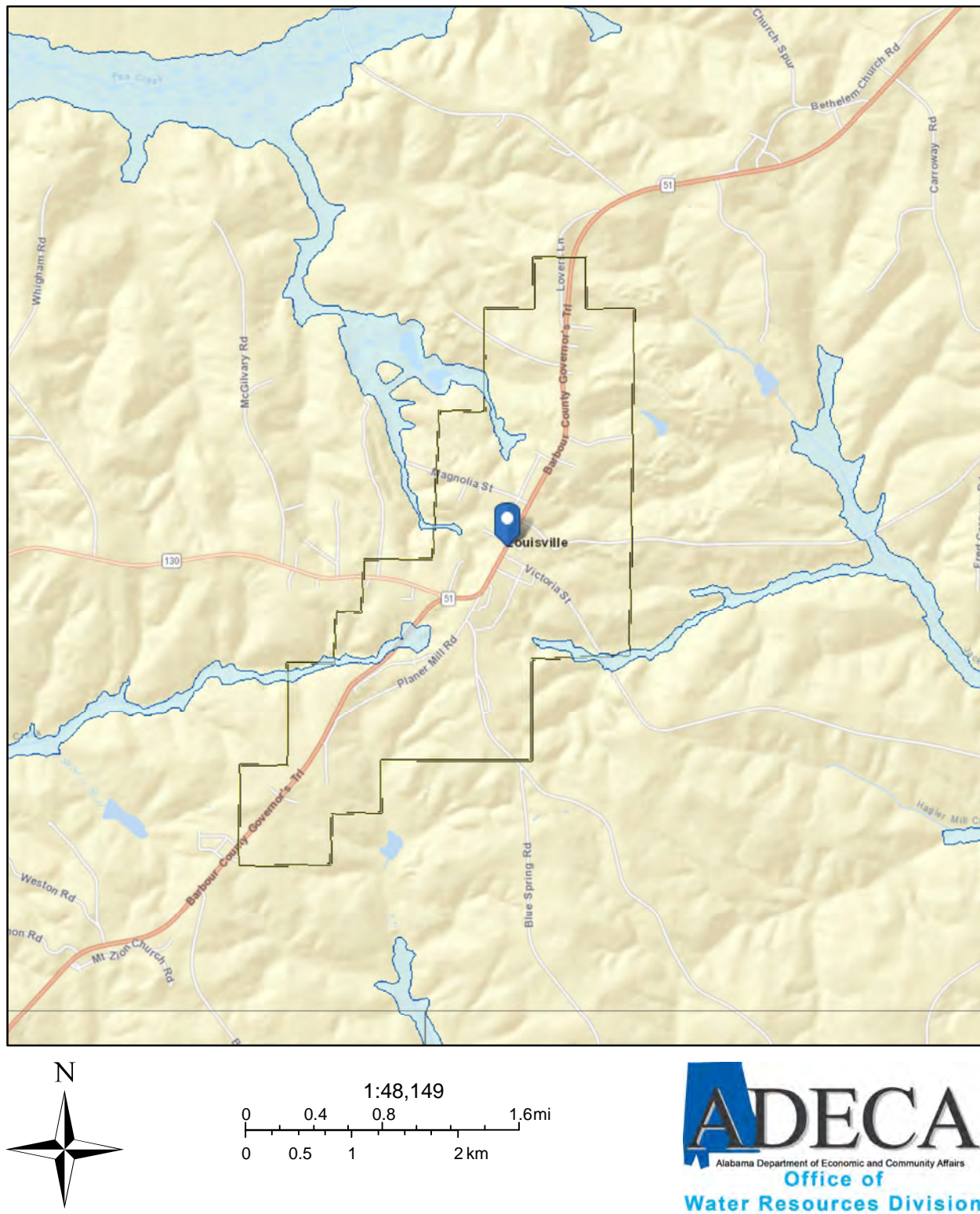


Figure 4.44: Louisville Flood Hazard Areas

## Louisville Flood Map



## Butler County

Flood hazard maps have been created to show different degrees of risk for each community. Flood Insurance Rate Maps (FIRM), effective 2009, have been developed for all of Butler County. Detailed FIRMs are available for Georgiana and Greenville. A detailed study has not been conducted for the Town of McKenzie. Figure 4.45 shows the location of the currently mapped flood hazard areas in Butler County; and Figures 4.46 through 4.48 provide a detailed view of flood hazard areas in the more populated parts of the county found in Georgiana, Greenville, and McKenzie. Based on a review of the FRIS maps, and the associated Flood Insurance Rate Maps (FIRM) for more detailed areas, flooding in Butler County is most likely to be of a riverine nature in the floodplain areas found along the Pigeon Creek and Persimmon Creek, along with several smaller streams and tributaries.

Most of the floodplain areas in Butler County are narrow and linear in nature, following stream beds and larger tributaries of the Pigeon, Persimmon, Rocky, Panther, Long, and Cedar Creeks. Pigeon Creek Swamp, located between Alabama Highway 10 and Halso Mill Road in the eastern part of Butler County, is an exception to a traditional floodplain. An unnamed wetland/swamp area that follows Persimmon Creek, south of Georgiana, and Rocky Creek, east of Georgiana, also is except from a traditional floodplain. All of the flood hazard areas are designated Zone A (one-percent annual chance flood), with the exception of seven smaller Zone AE (one-percent annual chance flood with elevation) designations found in Greenville along small lengths of Peavy Creek, Stallings, Creek, Tanyard Branch, and tributaries to Persimmon Creek.

The Town of McKenzie is considered to be a non-floodprone community due to the lack of flood areas or flood plains located within the McKenzie corporate boundaries.

Along with the riverine flooding potential, there have been reports of flash flooding due to heavy rains in various locations throughout Butler County. According to the National Centers for Environmental Information Storm Database, most flooding events have occurred on secondary roads in the unincorporated parts of the county as a result of heavy rains. In the southern part of Butler County, there are several roads that are flooded as much as two to three feet during heavy rain events.

The Butler County School System consists of Greenville Elementary School, Greenville Middle School, Greenville High School, W.O. Parmer Elementary School, Georgiana School, and McKenzie School. The Butler County School system does not experience frequent riverine flooding and are not considered a flood hazard.



Figure 4.45: Butler County Flood Hazard Areas

### Butler County Flood Map

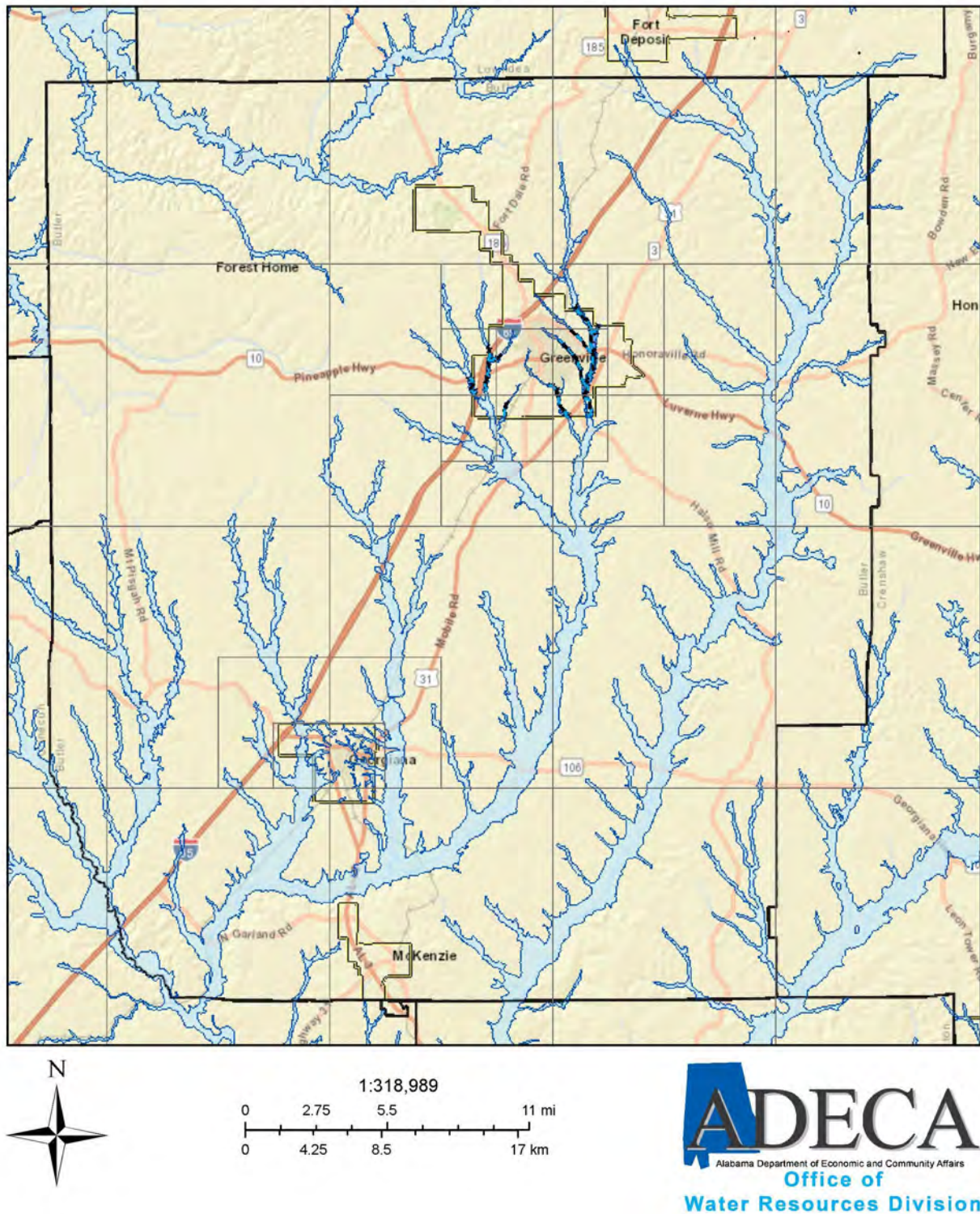


Figure 4.46: Georgiana Flood Hazard Areas (Includes Butler County Schools)

### Georgiana Flood Map

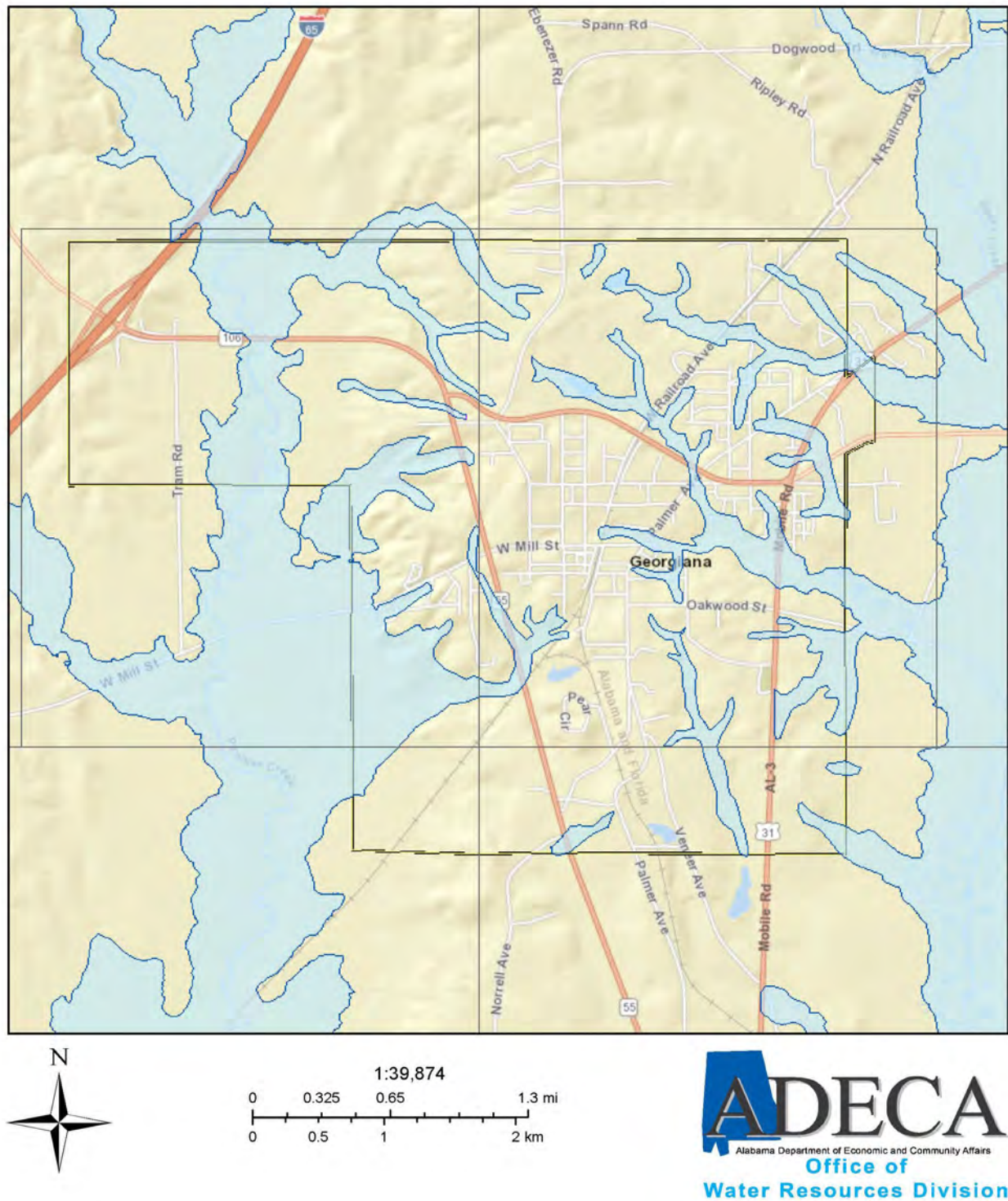




Figure 4.47: McKenzie Flood Hazard Areas (Includes Butler County Schools)

## McKenzie Flood Map

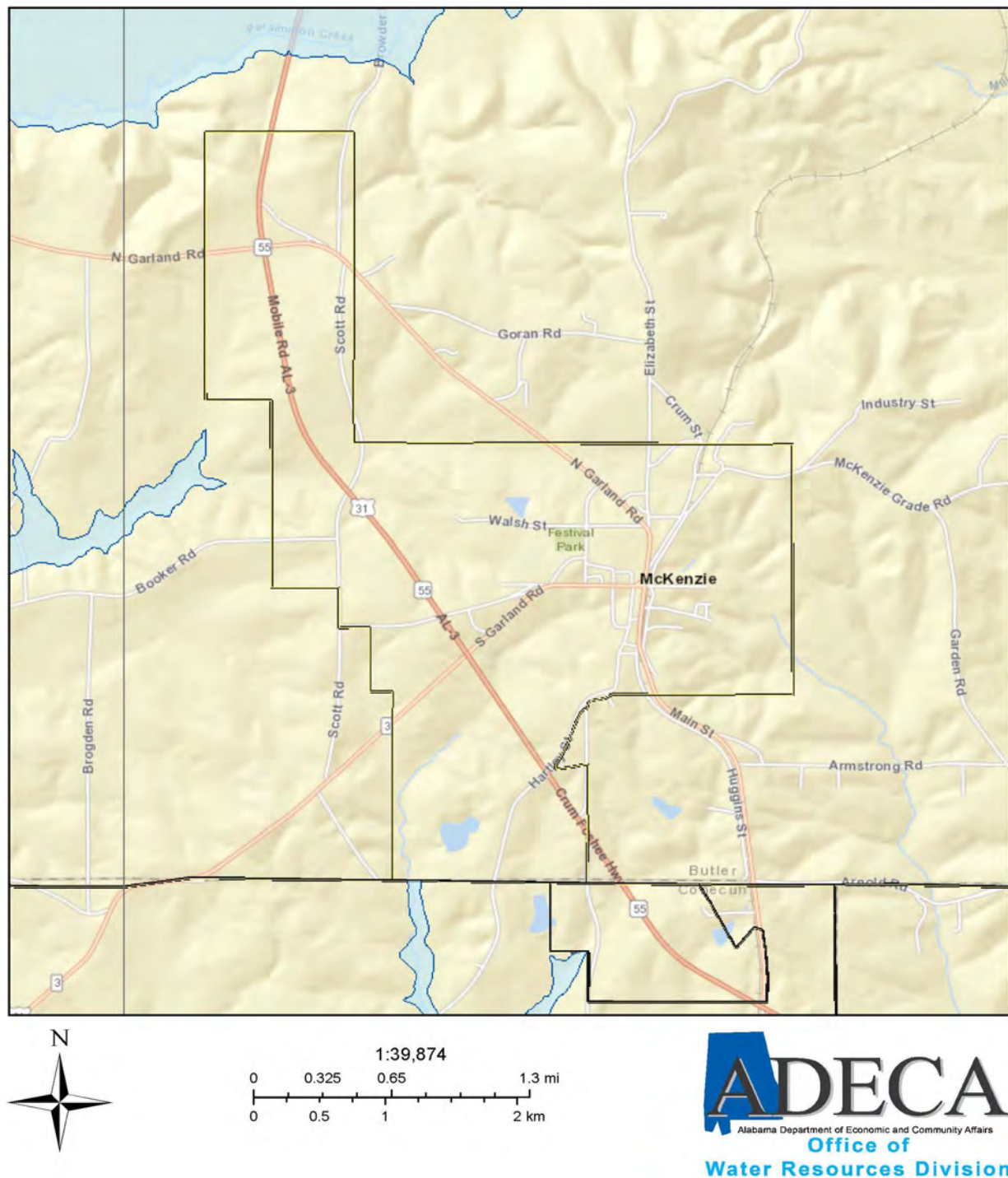
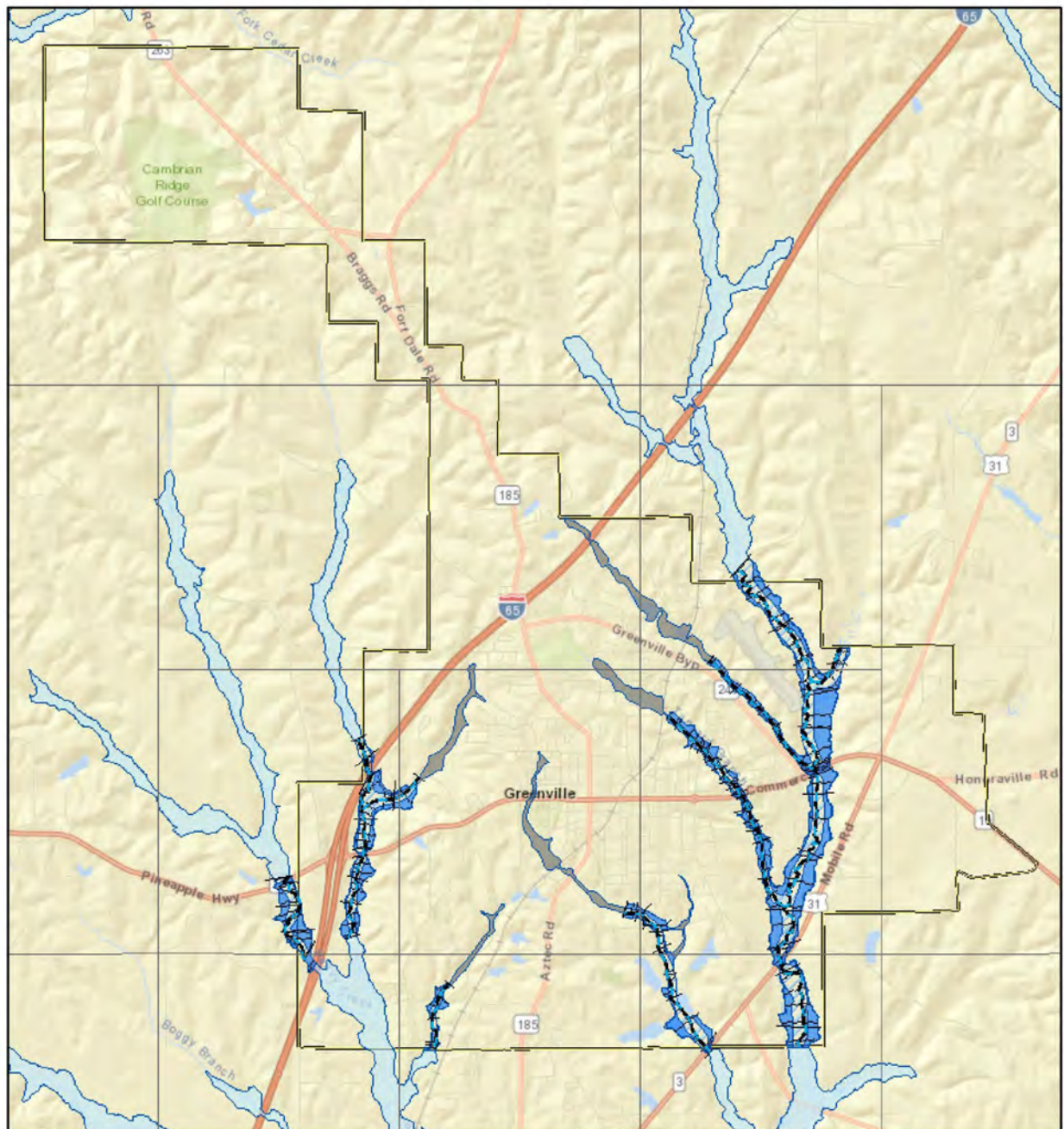


Figure 4.48: Greenville Flood Hazard Areas (Includes Butler County Schools)

## Greenville Flood Map



1:79,747

0 0.5 1 2 mi

0 1 2 4 km



## Coffee County

Flood hazard maps have been created to show different degrees of risk for each community. Flood Insurance Rate Maps (FIRM), have been developed for all of Coffee County however, there are varying effective dates for the different jurisdictions in the county, as listed below.

- City of Elba October 11, 1972
- City of Enterprise July 2, 1980
- Town of Kinston December 30, 1977
- Unincorporated Coffee County December 5, 1990
- Town of New Brockton July 22, 1977

The principal sources of flooding in Coffee County, Alabama, are Pea River, Beaver dam, Blanket, Cowpen, Harrand, Patrick, and Whitewater Creeks. Low-lying areas located along Pea River and Blanket, Cowpen, Harrand, Patrick and Whitewater Creeks are occasionally flooded. The most severe flooding will occur along the upper reaches of Blanket Creek and its tributaries, Harrand Creek and its tributaries where the greatest amount of streambed encroachment has already occurred. The standard project flood on these streams is the flood which may be expected from the most severe combination of meteorological and hydrological conditions reasonably characteristic of the geographical area. On the Pea River at Elba, flood waters would reach heights as much as nine and one-half feet above the March 1938 flood. The Jack Water Authority is located in the rural unincorporated region of Coffee County north of the City of Elba. This area is affected primarily by creek and riverine flooding in low lying areas.

Claybank Creek Begins at the confluence with the Choctawhatchee River in Geneva County and extends north into Dale and Coffee Counties. Double Bridges Creek Begins at the confluence with the Choctawhatchee River in Geneva County and extends north into Coffee County and consists of nearly 13% of the Upper Choctawhatchee Watershed's drainage area. The Pea River Watershed drainage area covers over half of Coffee County. It is a headwater basin stretching north of Coffee County, and flowing south into the Lower Choctawhatchee Basin. The Upper Choctawhatchee River Watershed is composed of the main channel, the West and East Forks of the Choctawhatchee and 24 major tributaries. The main channel is approximately 90 miles long.

There are three separate school systems within Coffee County. Coffee County Schools consist of New Brockton and Kinston Schools. Elba City Schools, and Enterprise City Schools are city schools located in Elba and Enterprise respectively. The Coffee County School system does not experience frequent riverine flooding and are not considered a flood hazard. After being frequently damaged by flooding the Elba City Schools relocated to an area outside of the flood zone. Enterprise City Schools are also not considered a flood hazard.



Figure 4.49: Coffee County Flood Hazard Areas

## Coffee County Flood Map

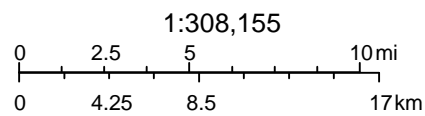
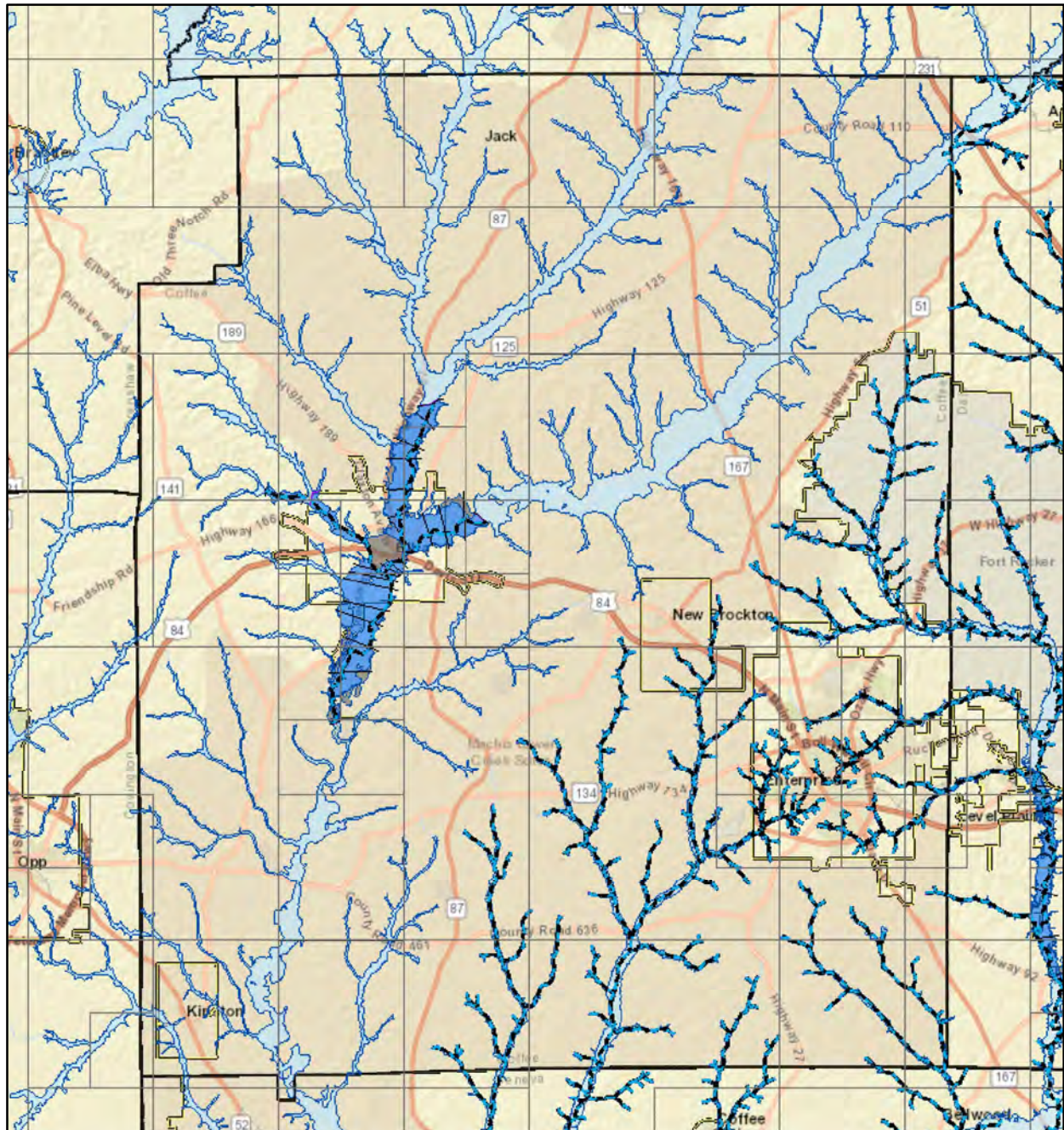




Figure 4.50: Elba Flood Hazard Areas (Includes Elba City Schools)

## Elba Flood Map

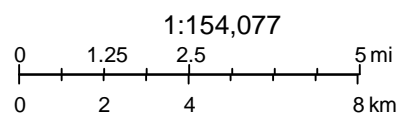
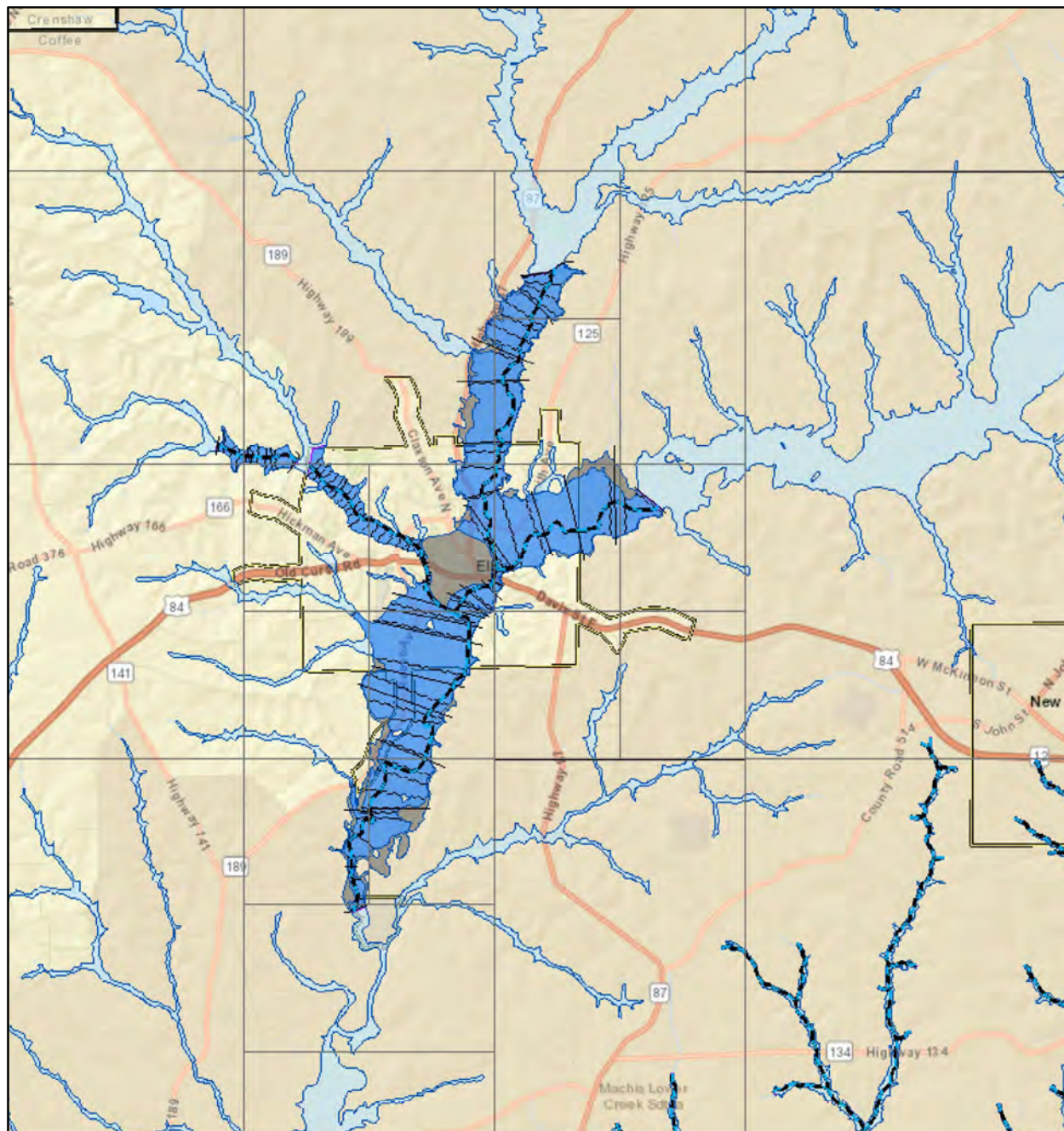


Figure 4.51: Enterprise Flood Hazard Areas (Includes Enterprise City Schools)

## Enterprise Flood Map

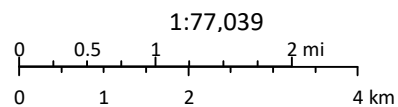
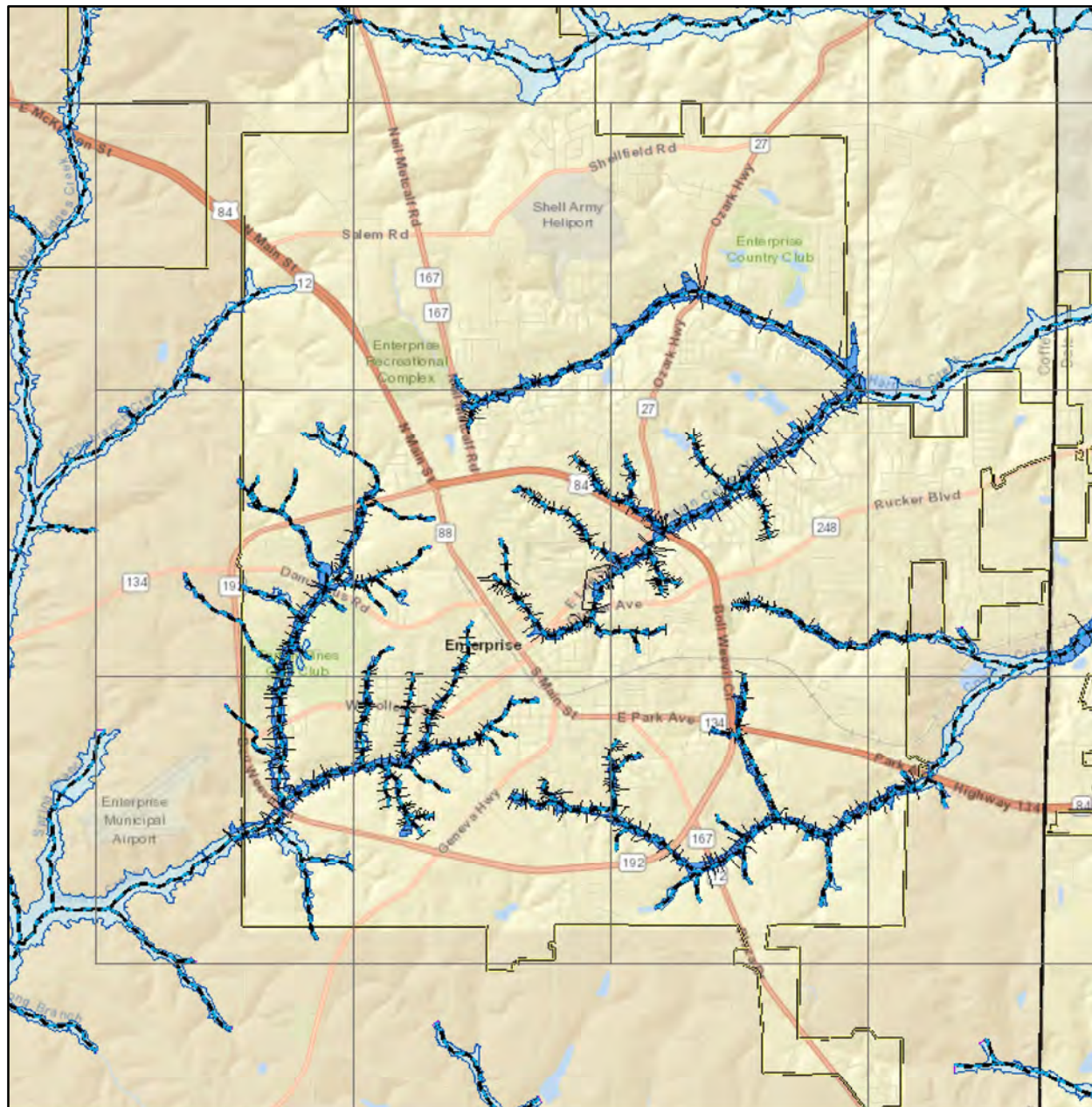




Figure 4.52: Kinston Flood Hazard Areas (Includes Coffee County Schools)

## Kinston Flood Map

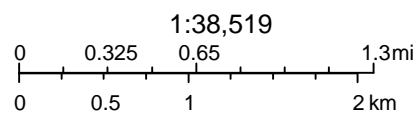
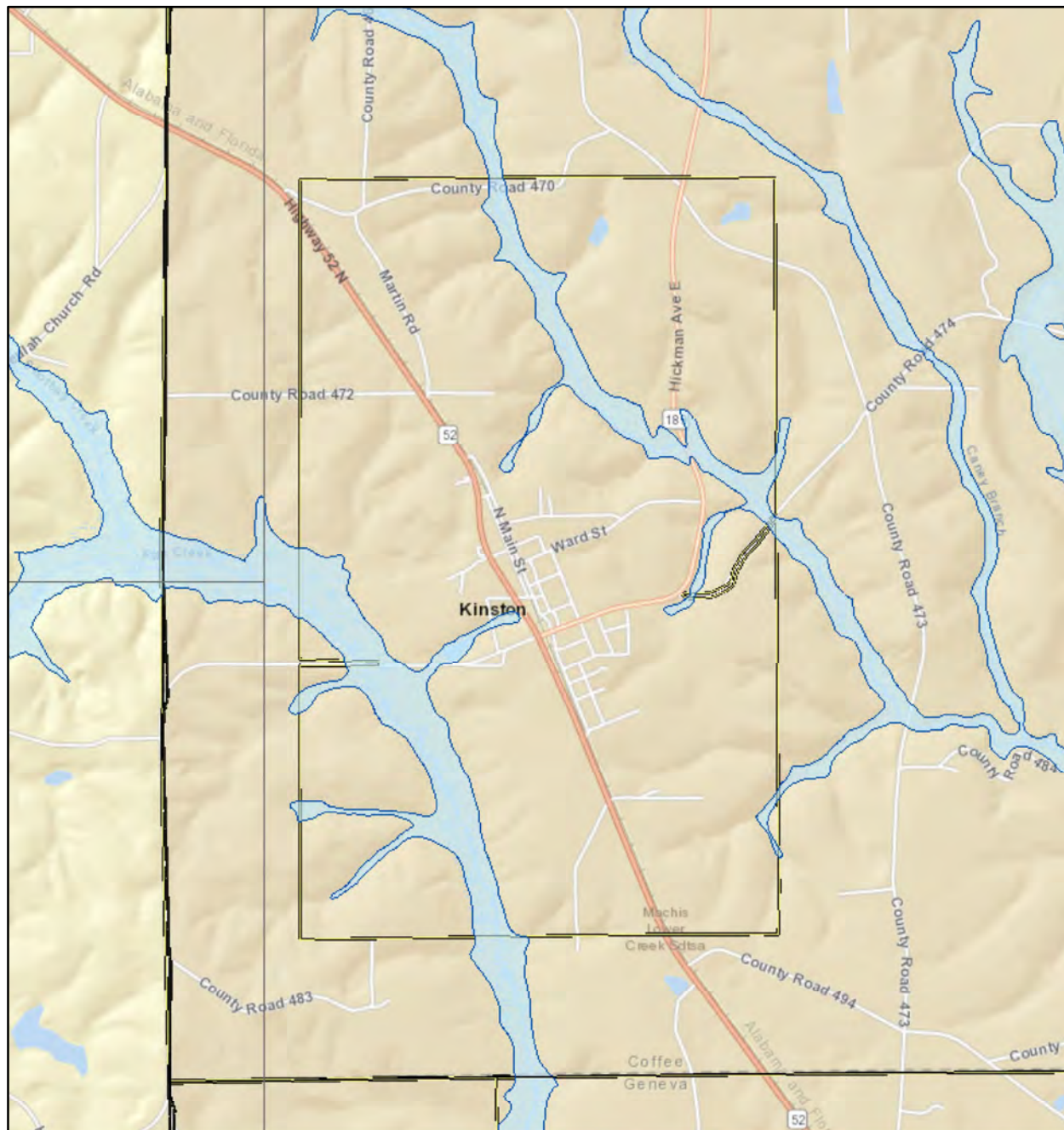
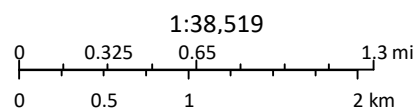
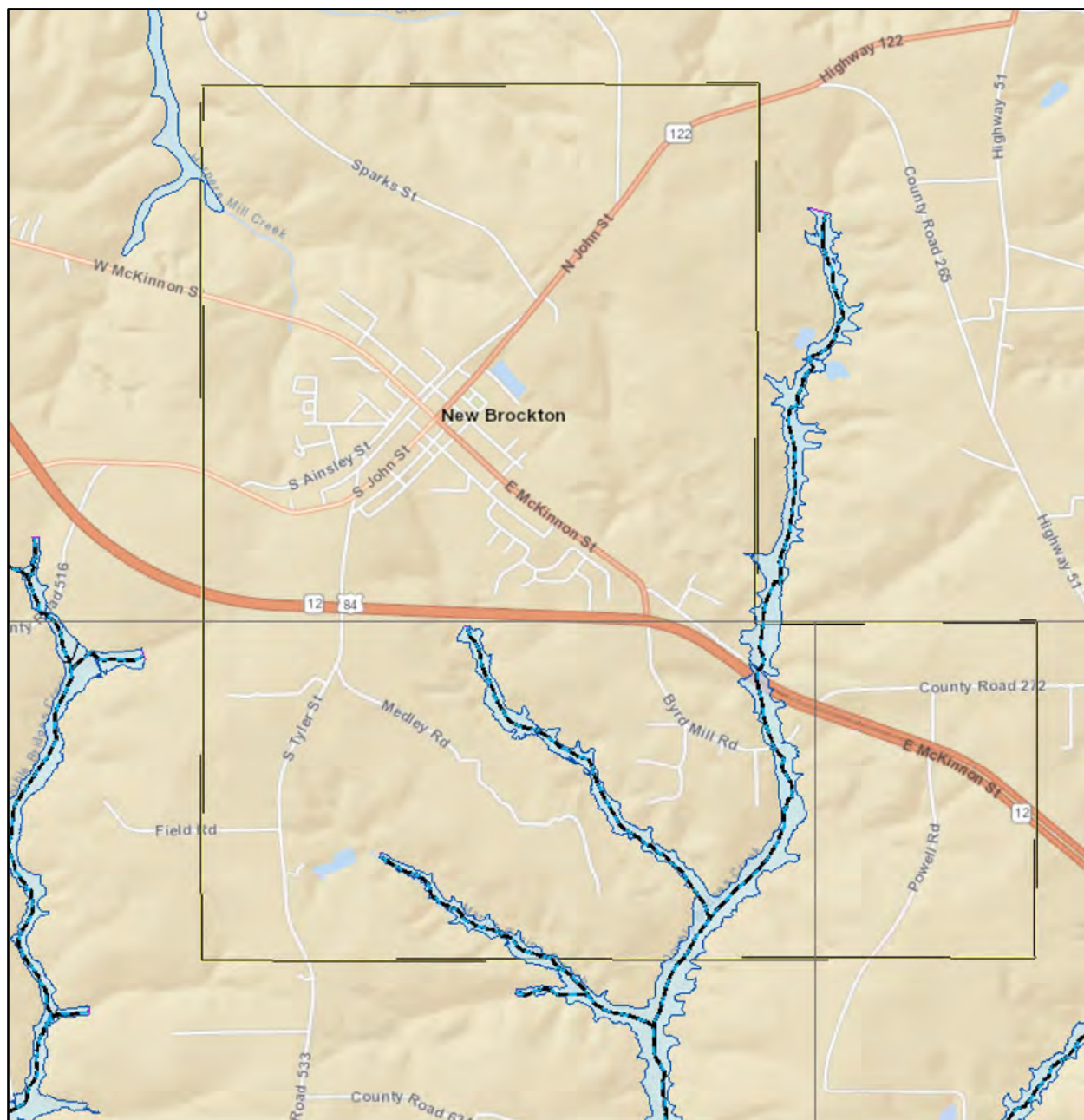


Figure 4.53: New Brockton Flood Hazard Areas (Includes Coffee County Schools)

## New Brockton Flood Map



## Covington County

The Towns of Onycha, and Sanford are considered non-flood prone. Flood Insurance Rate Maps (FIRM) have been developed for Covington County, however, there are varying effective dates for the different jurisdictions in the county, as listed below.

- |                                   |                   |
|-----------------------------------|-------------------|
| • City of Andalusia               | November 4, 2009  |
| • Town of Babbie                  | November 4, 2009  |
| • Town of Carolina                | November 4, 2009  |
| • Unincorporated Covington County | September 1, 1990 |
| • City of Florala                 | November 4, 2009  |
| • Town of Gantt                   | November 4, 2009  |
| • Town of Heath                   | November 4, 2009  |
| • Town of Horn Hill               | November 4, 2009  |
| • Town of Libertyville            | November 4, 2009  |
| • Town of Lockhart                | November 4, 2009  |
| • Town of Onycha                  | None              |
| • City of Opp                     | July 18, 1985     |
| • Town of Red Level               | November 4, 2009  |
| • Town of River Falls             | July 8, 1977      |
| • Town of Sanford                 | None              |

The principal flooding sources within Covington County include Conecuh River, Five Runs Creek, Patsaliga River, Pigeon Creek, and their associated tributaries. Other areas prone to flooding in Covington County include poorly drained low lying areas and along unimproved county roads within unincorporated areas of the county. The Town of River Falls is particularly vulnerable to flooding due to its location near the Conecuh River and numerous small creeks and streams.

The Covington County School System consist of Fleeta Junior High School, Florala High School, Red Level High School, Red Level Elementary School, Pleasant Home School, Straughn Elementary School, Straughn Middle School, Straughn High School and W.S. Harlan Elementary School. The Cities of Andalusia and Opp also have city school systems. Covington County Schools, Andalusia City Schools and Opp City Schools do not experience frequent riverine flooding and are not considered a flood hazard.



Figure 4.54: Covington County Flood Hazard Areas

## Covington County Flood Map

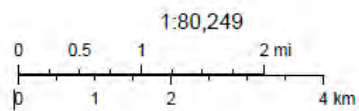


Figure 4.55: Andalusia Flood Hazard Areas (Includes Andalusia City Schools)

## Andalusia, Alabama

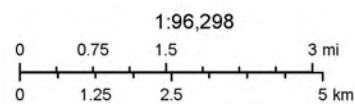
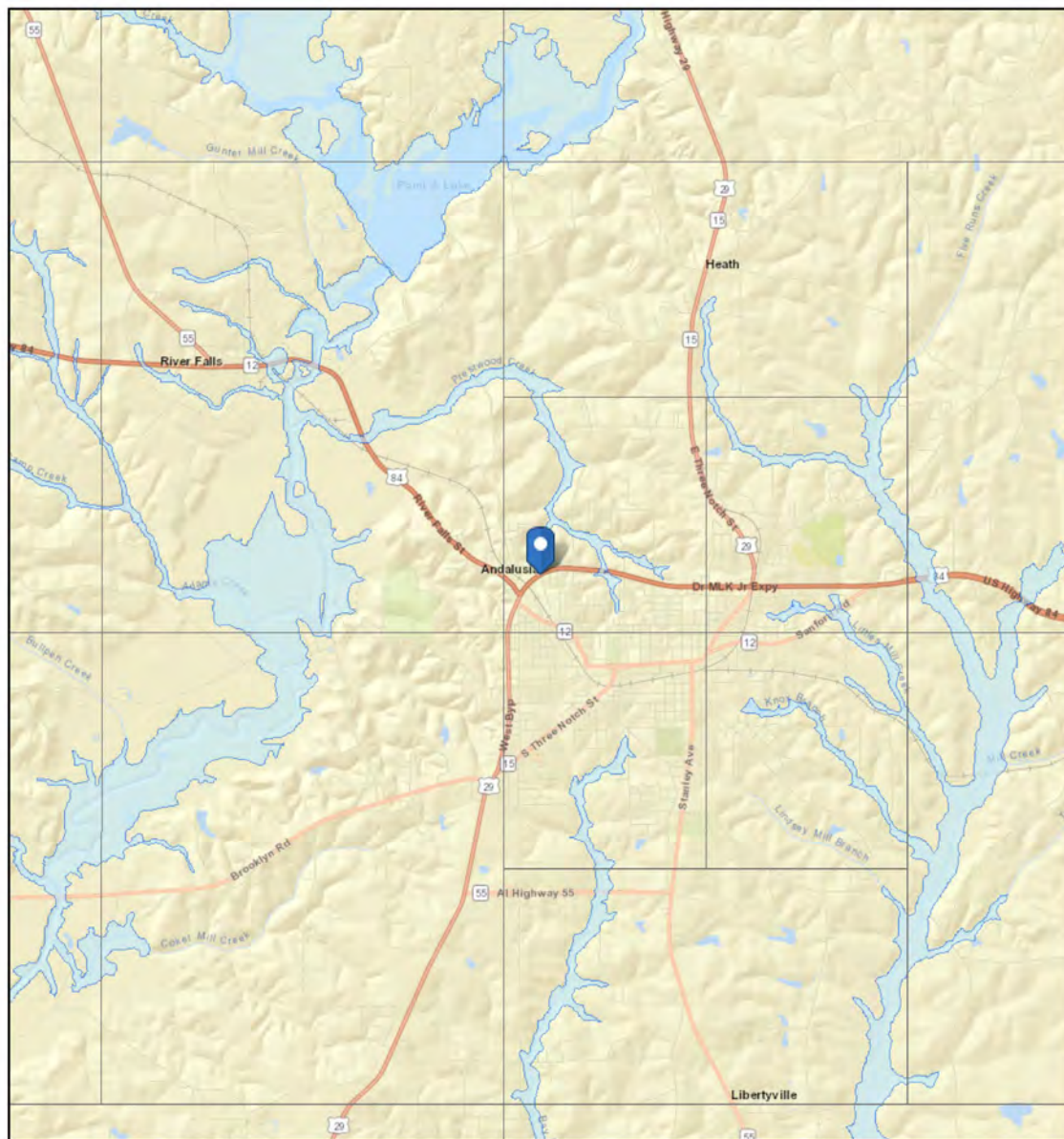
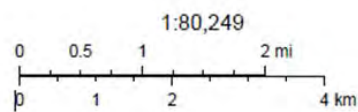


Figure 4.56: Babbie Flood Hazard Areas

Babbie, Alabama





**Figure 4.57: Carolina Flood Hazard Areas**

Carolina, Alabama



Figure 4.56: Florala Flood Hazard Areas (Includes Covington County Schools)

### Florala, Alabama

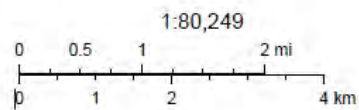




Figure 4.57: Gantt Flood Hazard Areas

## Gantt, Alabama

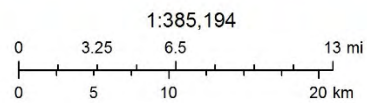
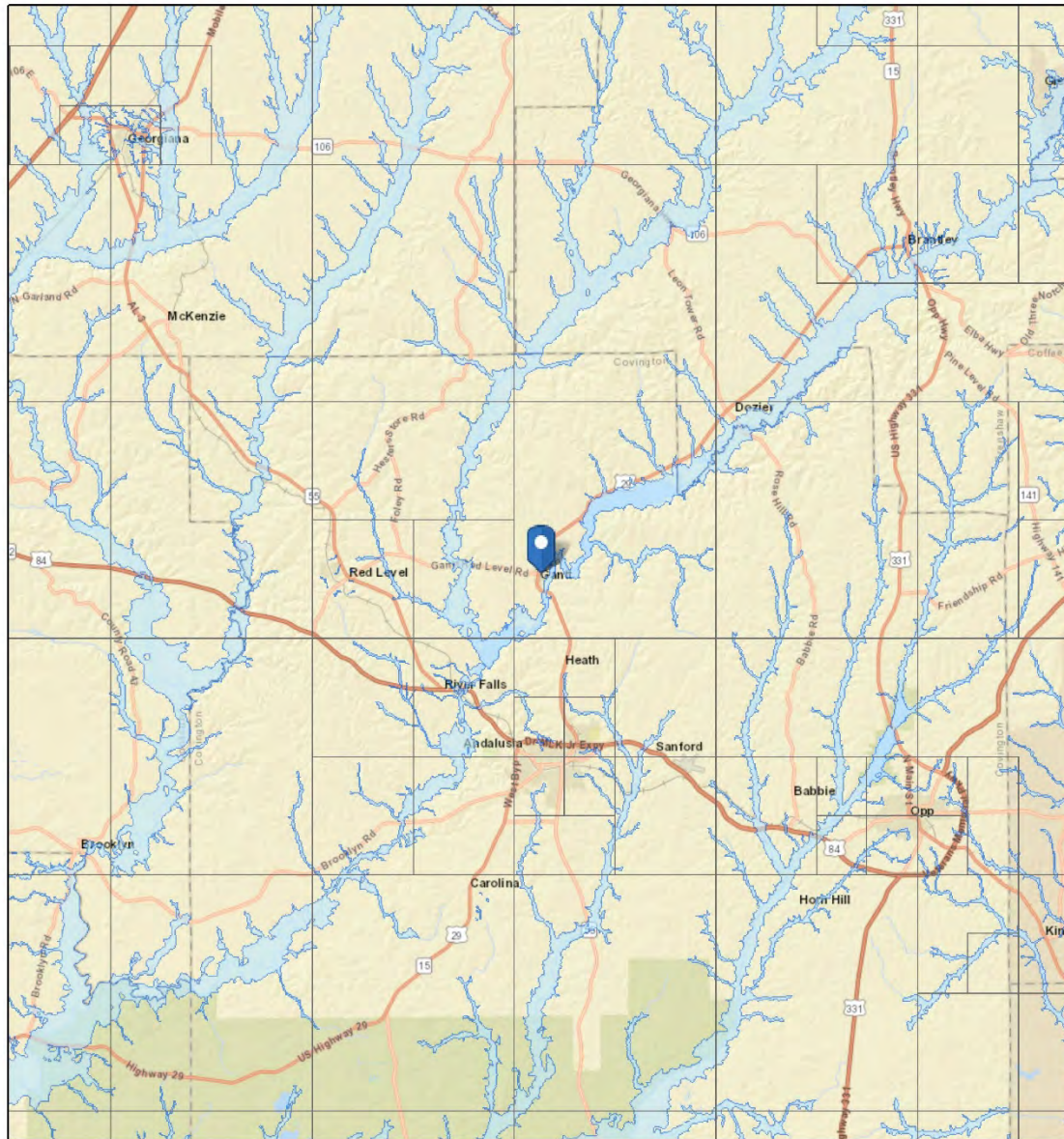


Figure 4.58: Heath Flood Hazard Areas

### Heath, Alabama

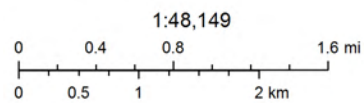
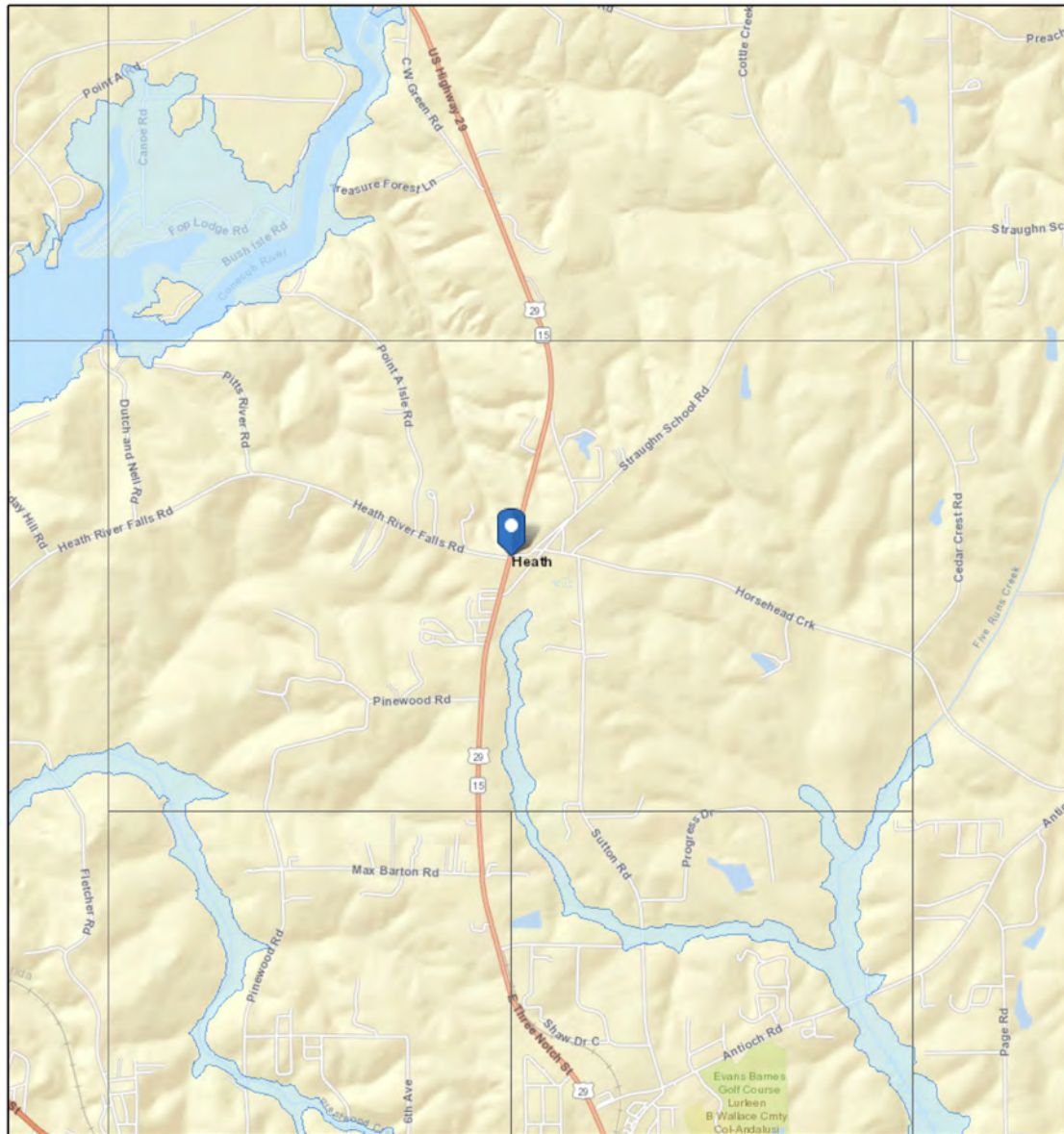




Figure 4.59: Horn Hill Flood Hazard Areas

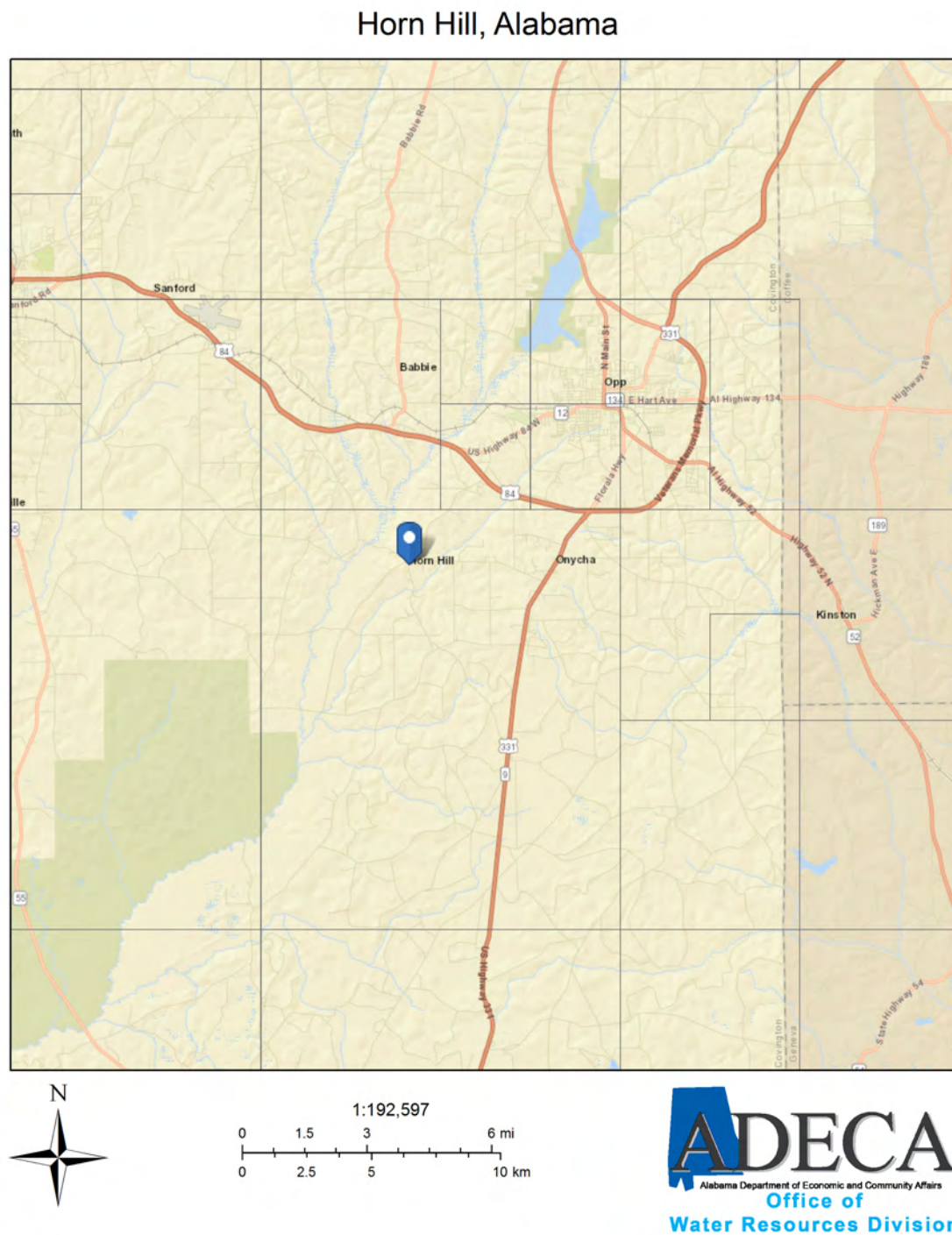


Figure 4.60: Liberyville Flood Hazard Areas

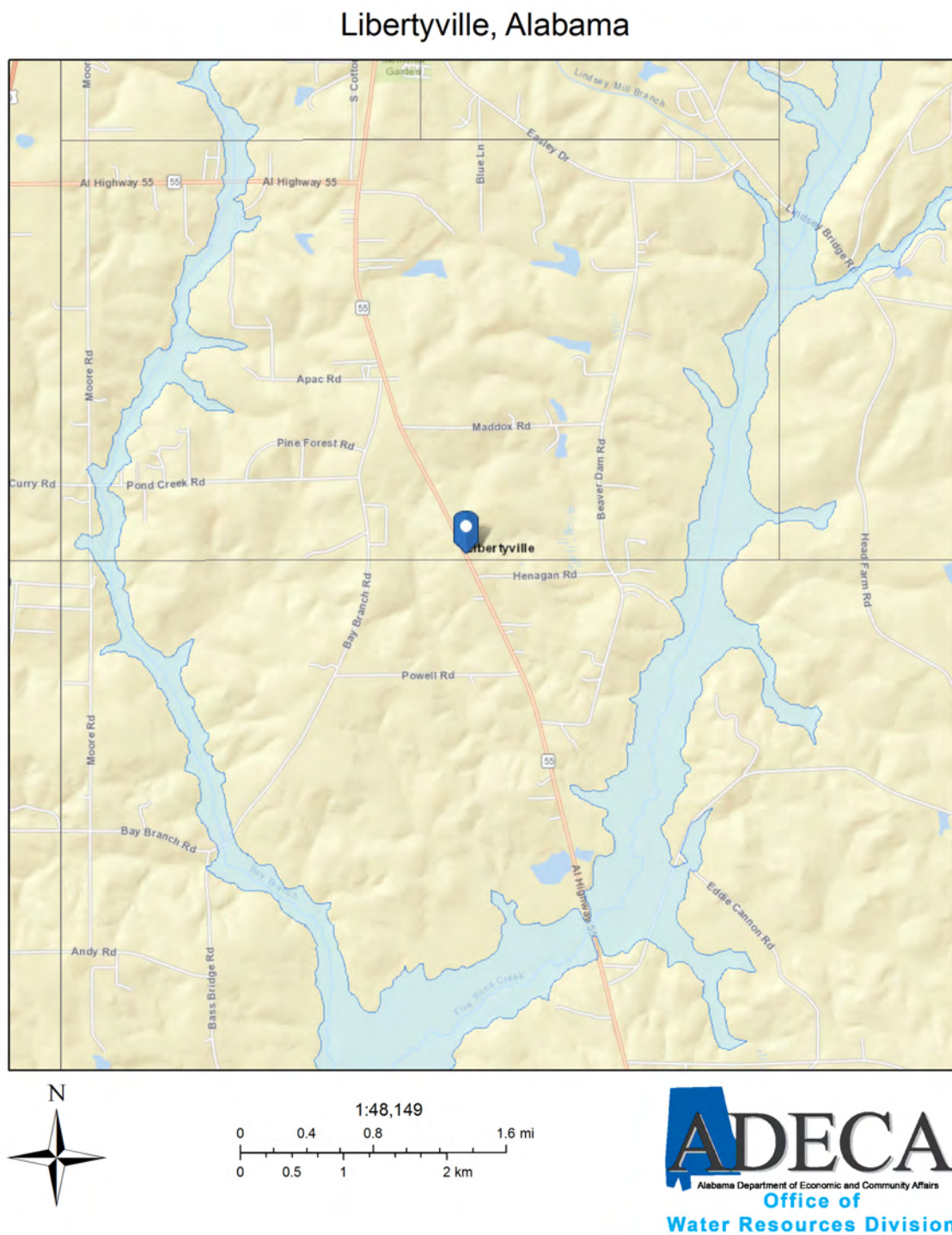




Figure 4.61: Lockhart Flood Hazard Areas

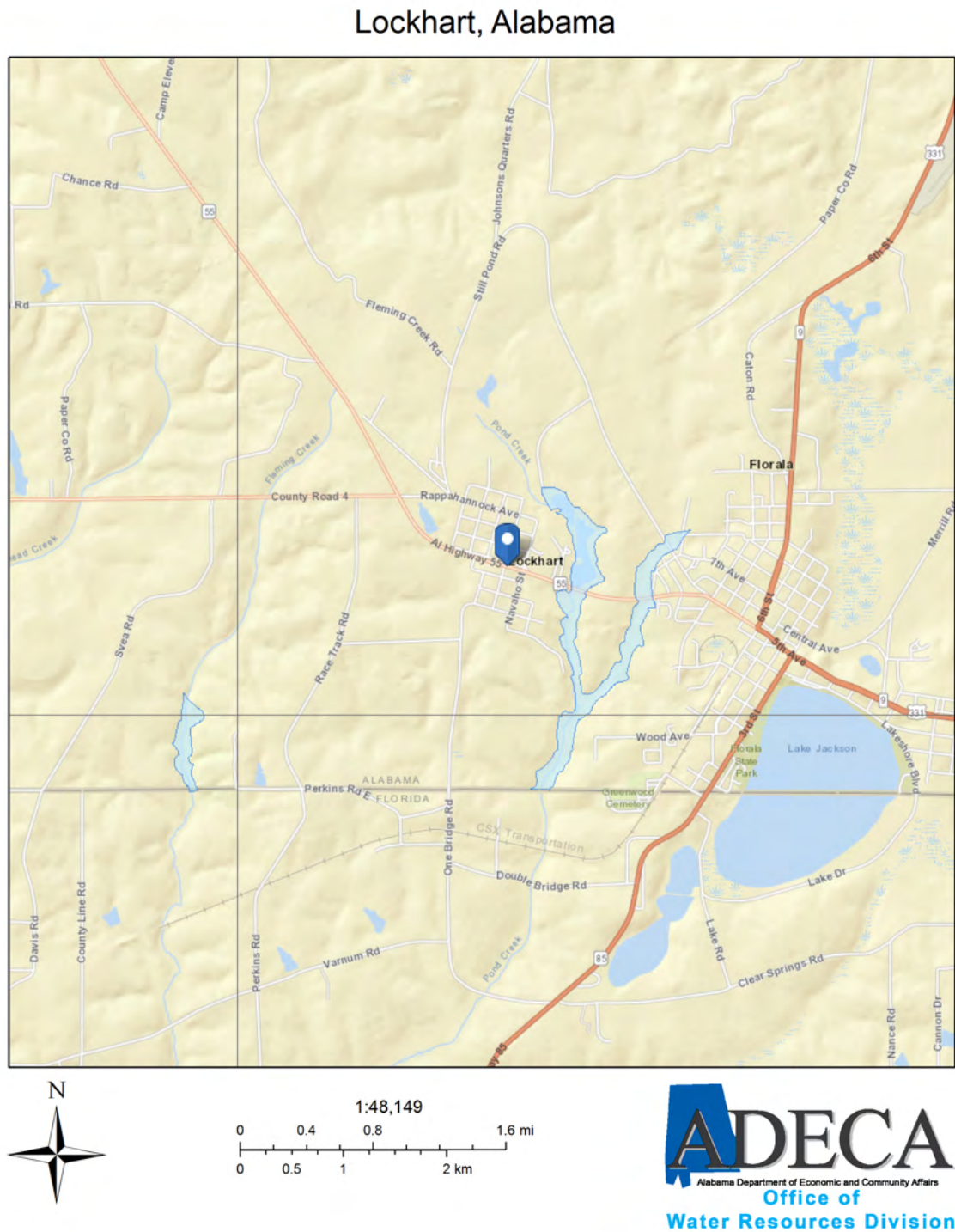


Figure 4.62: Onycha Flood Hazard Areas

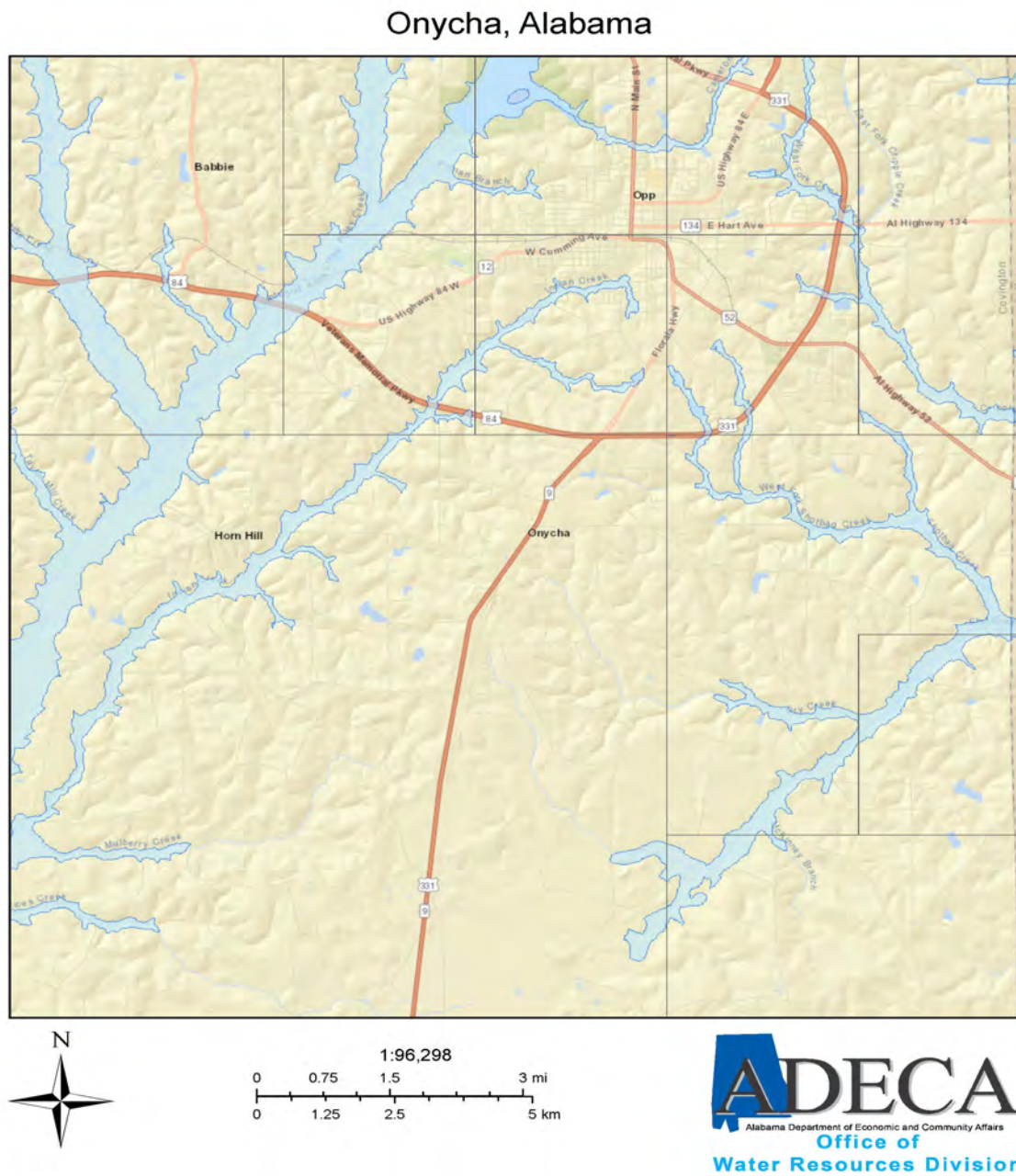




Figure 4.63: Opp Flood Hazard Areas (Includes Opp City Schools)

### Opp Flood Map

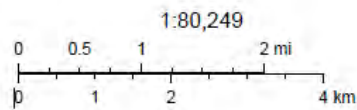


Figure 4.64: Red Level Flood Hazard Areas (Includes Covington County Schools)

### Red Level Flood Map

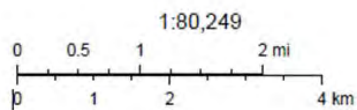


Figure 4.65: River Falls Flood Hazard Areas

### River Falls Flood Map

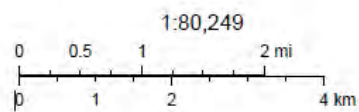
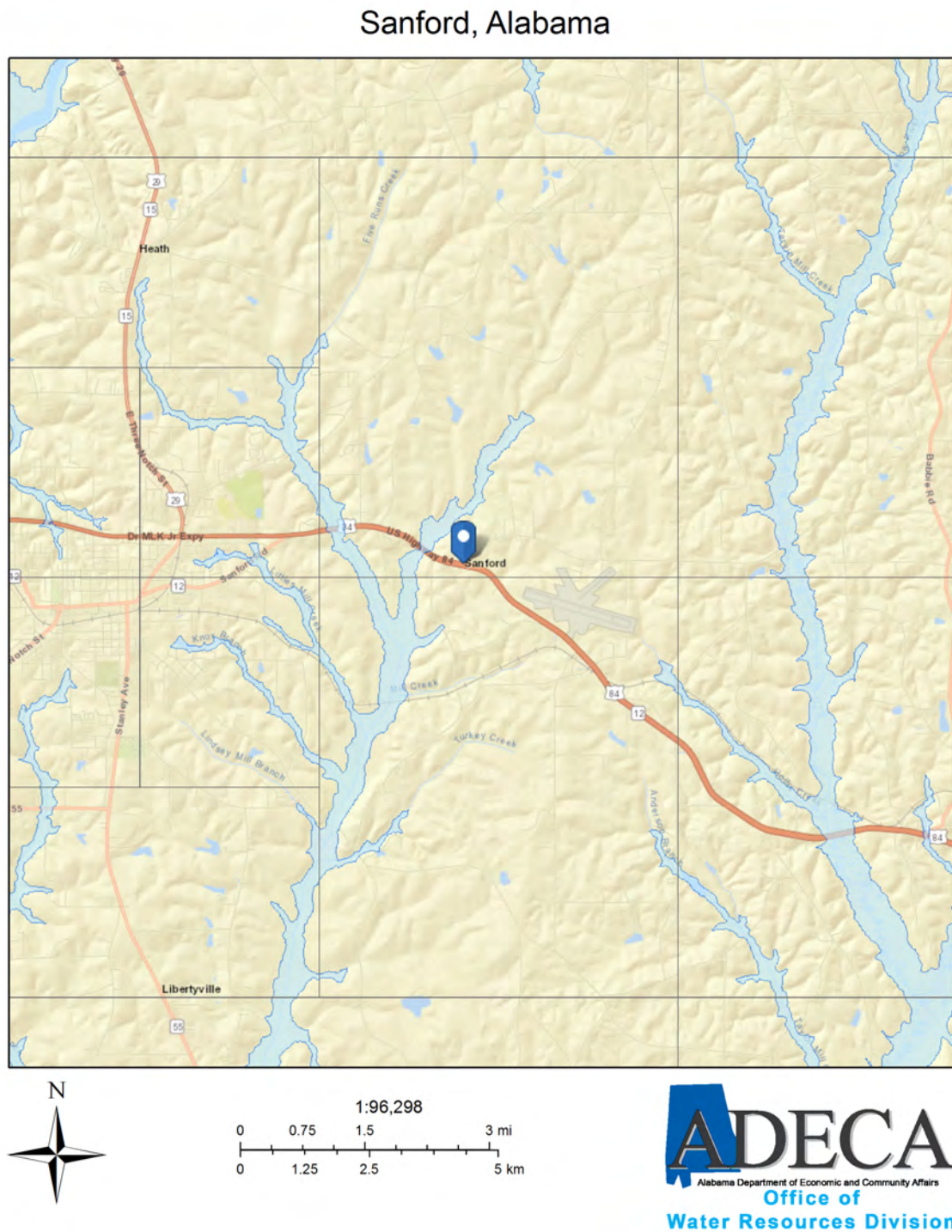




Figure 4.66: Sanford Flood Hazard Areas





### Crenshaw County

Flood Insurance Rate Maps (FIRM) have been developed for Crenshaw County, however, there are varying effective dates for the seven different jurisdictions in the county. The FIRM Effective Date for Brantley, Glenwood, Petrey and Rutledge is October 16, 2009. The effective date for the Town of Dozier is March 1, 1995; for the unincorporated parts of Crenshaw County is July 17, 1986; and for the City of Luverne is June 24, 1977. No detailed FIRMs or base flood elevations have been developed for any part of the county.

According to the 2009 Crenshaw County Flood Insurance Study, the principal sources of flooding in Crenshaw County, Alabama, are the Conecuh River, Patsaliga Creek, and Lightwood Knot Creek. Based on a review of the FRIS maps, flooding in Crenshaw County is most likely to be of a riverine nature, with the southern parts of Brantley, Dozier and Glenwood being in the floodplain areas found along the Conecuh River; Luverne being in the floodplain associated with the Patsaliga Creek, and Petry being in the flood plain associated with Blue Creek. There are no flood plains located within the Town of Rutledge.

Along with the riverine flooding potential, there have been reports of flash flooding due to heavy rains in various locations throughout Crenshaw County. In the photographs below, a house located on U.S. Highway 29 between Luverne and Brantley is flooded by Dry Creek as a result of over five inches of rain falling with one hour. It is estimated that the depth of flooding was two to three feet. The top pictures show the pre-flooding condition while the bottom picture shows the rescue by boat during the flood event.

The Crenshaw County School System consist of several schools at various locations throughout the county. The Crenshaw County School system does not experience frequent riverine flooding and are not considered a flood hazard.





Figure 4.67: Crenshaw County Flood Hazard Areas

## Crenshaw County, Alabama

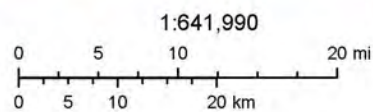
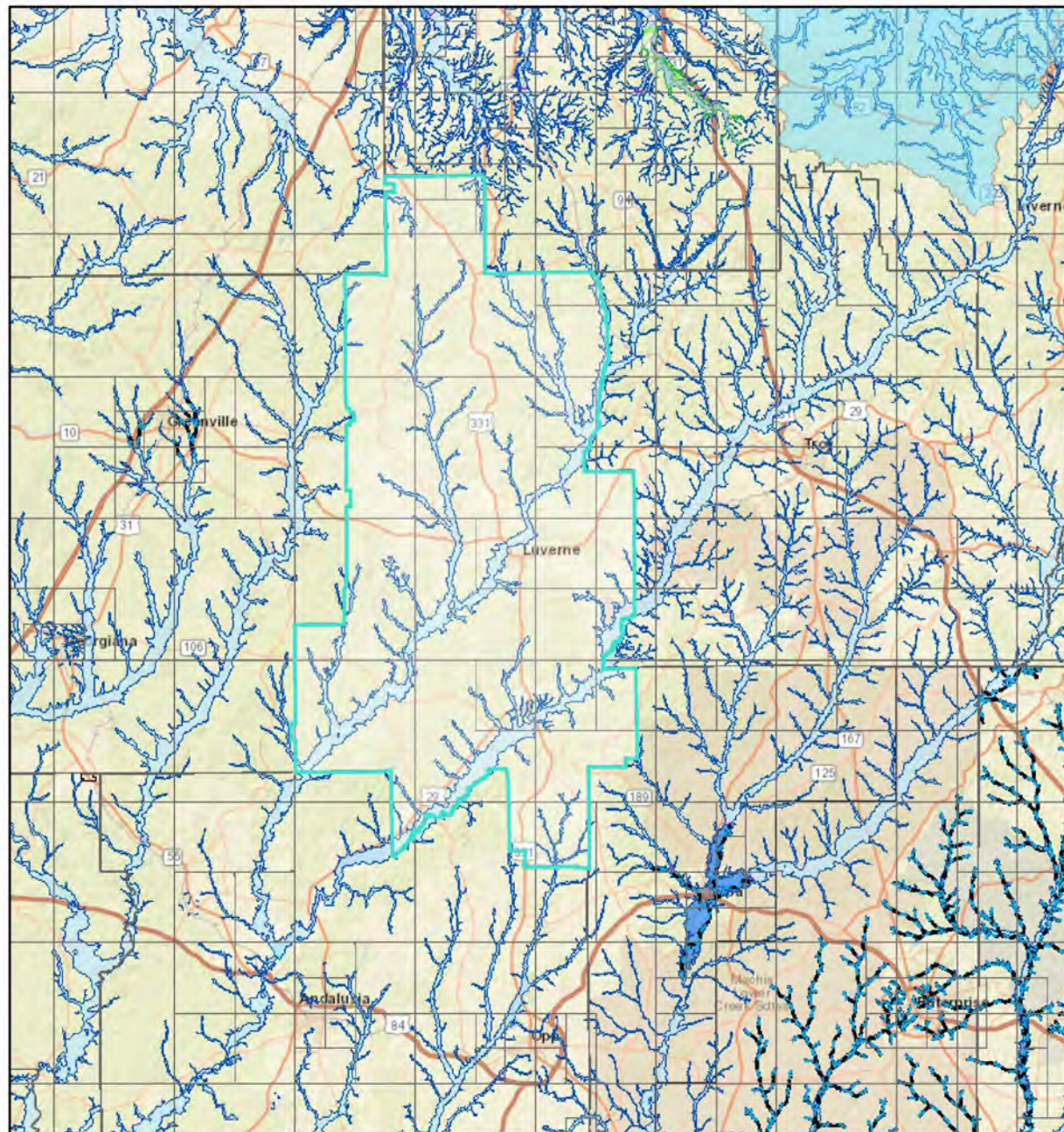




Figure 4.68: Town of Brantley Flood Hazard Areas (Includes Crenshaw County Schools)

## Brantley, Alabama

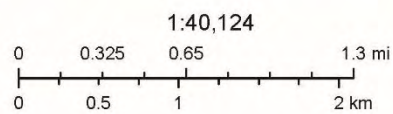
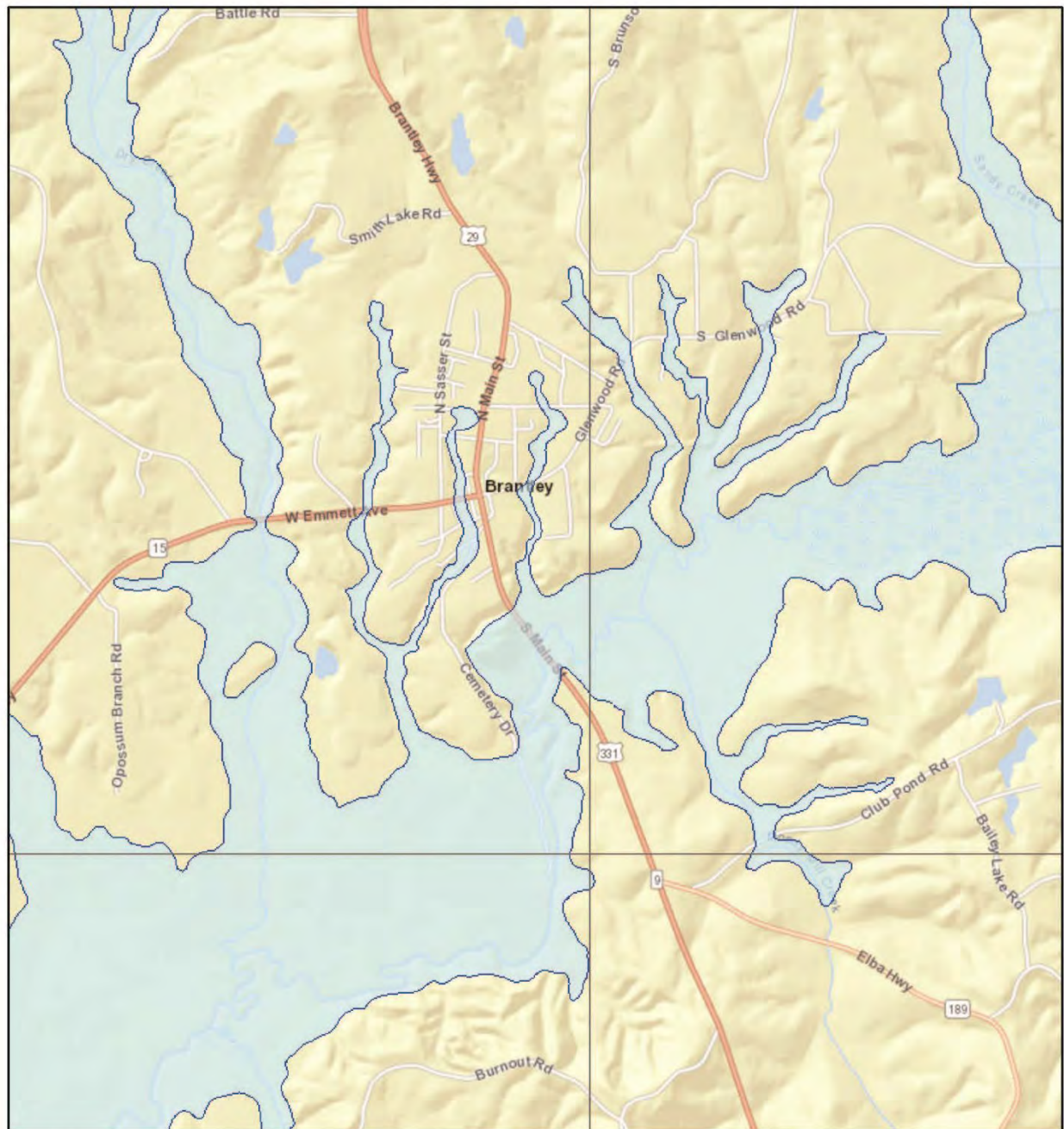


Figure 4.69: Town of Dozier Flood Hazard Areas

## Dozier, Alabama

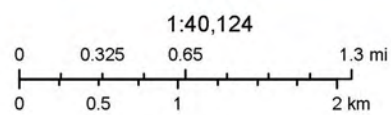
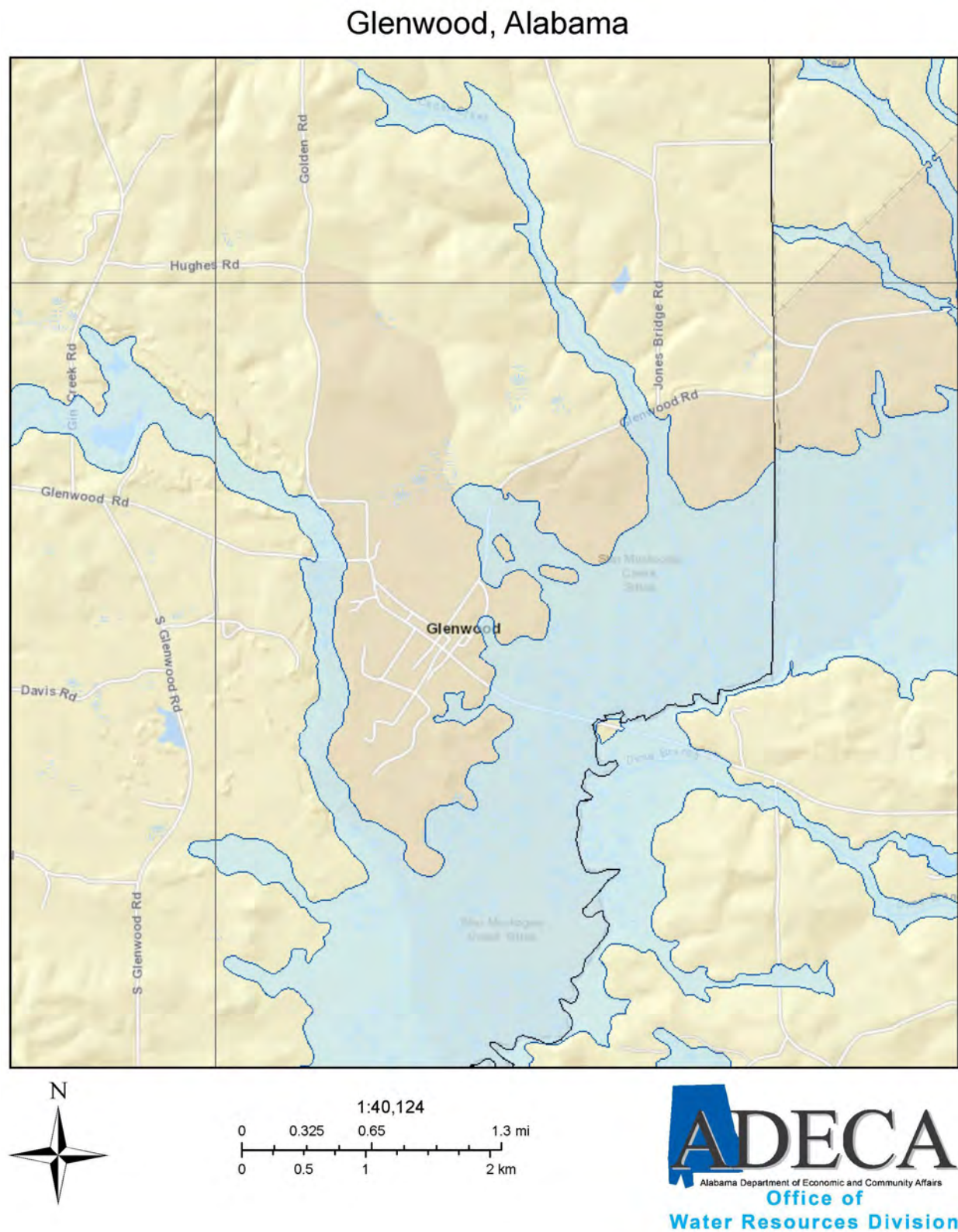




Figure 4.70: Town of Glenwood Flood Hazard Areas



**Figure 4.71: City of Luverne Flood Hazard Areas (Includes Crenshaw County Schools)**  
**Luverne, Alabama**

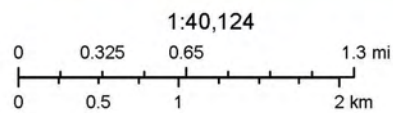




Figure 4.72: Town of Petrey Flood Hazard Areas

## Petrey, Alabama

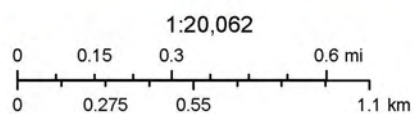
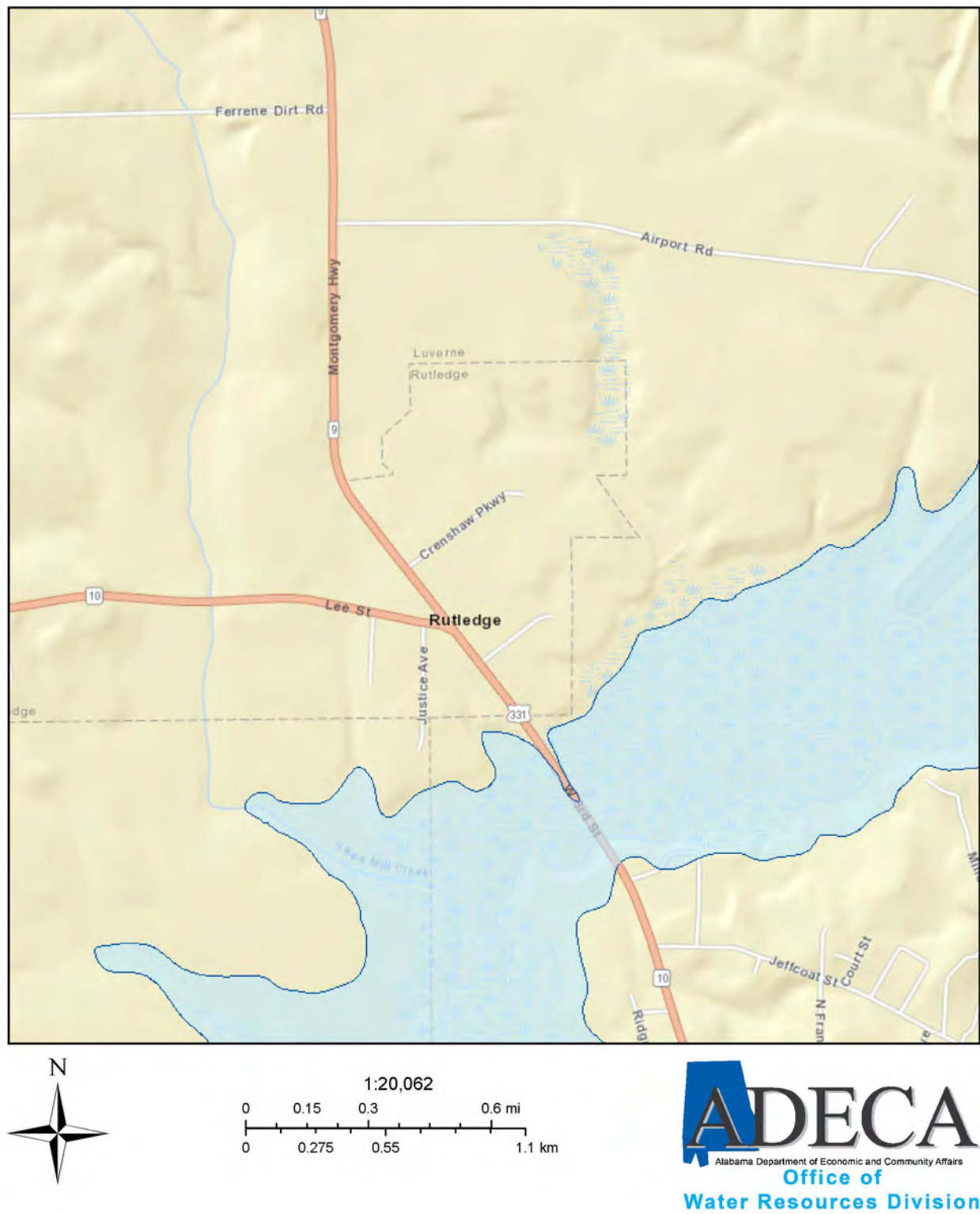


Figure 4.73: Town of Rutledge Flood Hazard Areas

## Rutledge, Alabama





## Dale County

Flood Insurance Rate Maps (FIRM) have been developed for Dale County, however, there are varying effective dates for the different jurisdictions in the county, as listed below.

- Town of Arifton August 16, 2007
- Town of Clayhatchee August 16, 2007
- Unincorporated Dale County July 4, 1989
- City of Daleville September 4, 1975
- Town of Grimes August 16, 2007
- City of Level Plains August 3, 1989
- City of Midland City August 5, 1986
- Town of Napier Field August 16, 2007
- Town of Newton July 5, 1993
- City of Ozark August 5, 1985
- Town of Pinckard September 4, 1975

According to the 2016 Dale County Flood Insurance Study, the principal sources of flooding in Dale County are the Choctawhatchee River Watershed, and the Pea River Watershed. Based on a review of the FRIS maps, flooding in Dale County is most likely to be of a riverine nature, with parts of Newton, Daleville and Clayhatchee being in the floodplain areas found along the Choctawhatchee River, Claybank Creek, and the Little Choctawhatchee River. The City of Ozark is located near the Little Claybank Creek flood zone and associated wetlands which is drained by Lake Tholocco on Fort Rucker.

The Dale County School System consist of seven schools at various locations throughout the county. Daleville City Schools and Ozark City Schools are the two city school systems in Dale County. The Dale County School system, Ozark City Schools and Daleville City Schools does not experience frequent riverine flooding and are not considered a flood hazard.

Figure 4.74: Dale County Flood Hazard Areas

## Dale County, Alabama

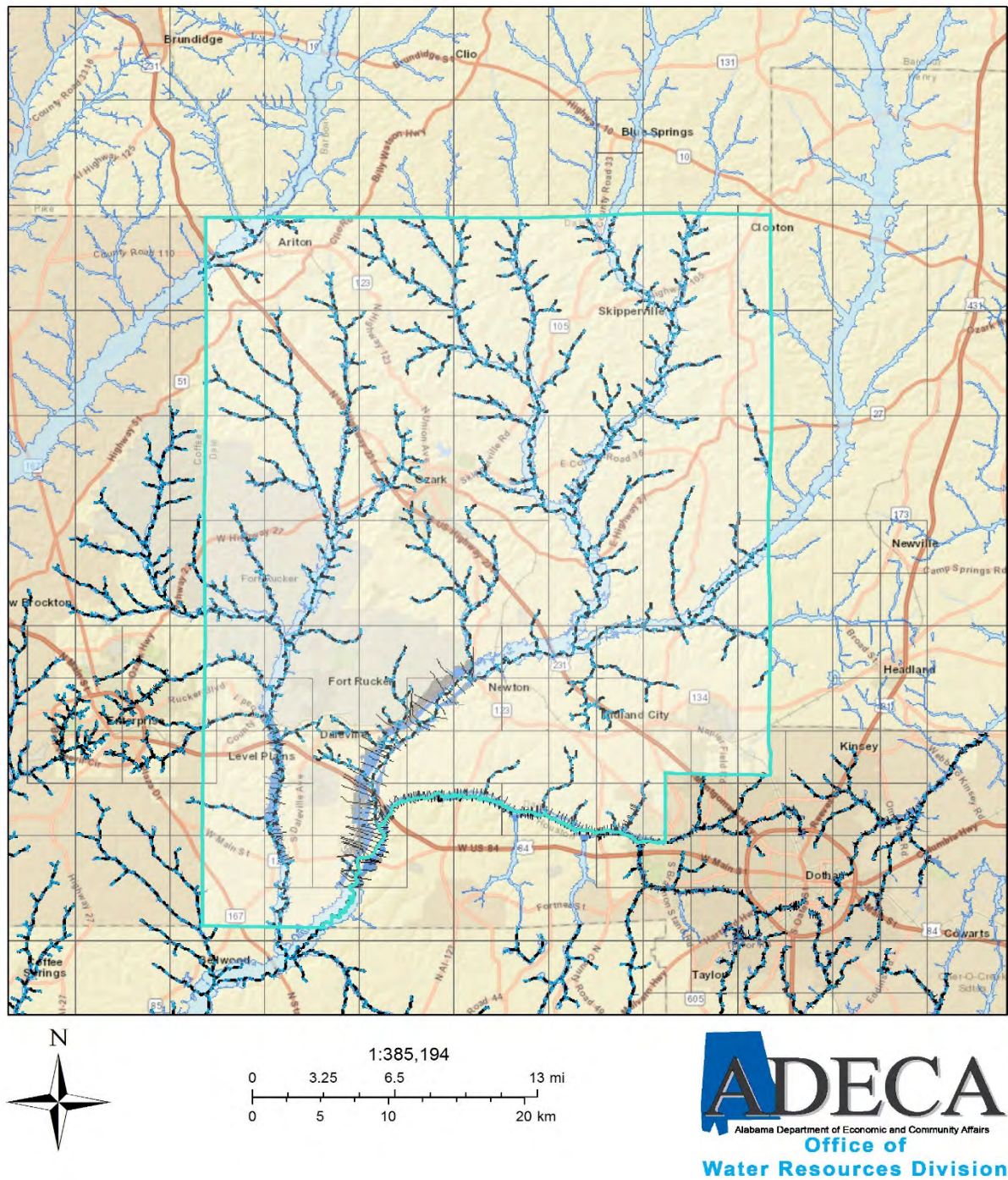




Figure 4.75: Ariton Flood Hazard Areas (Includes Dale County Schools)

## Ariton, Alabama

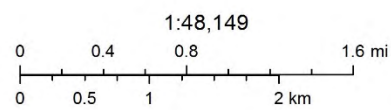
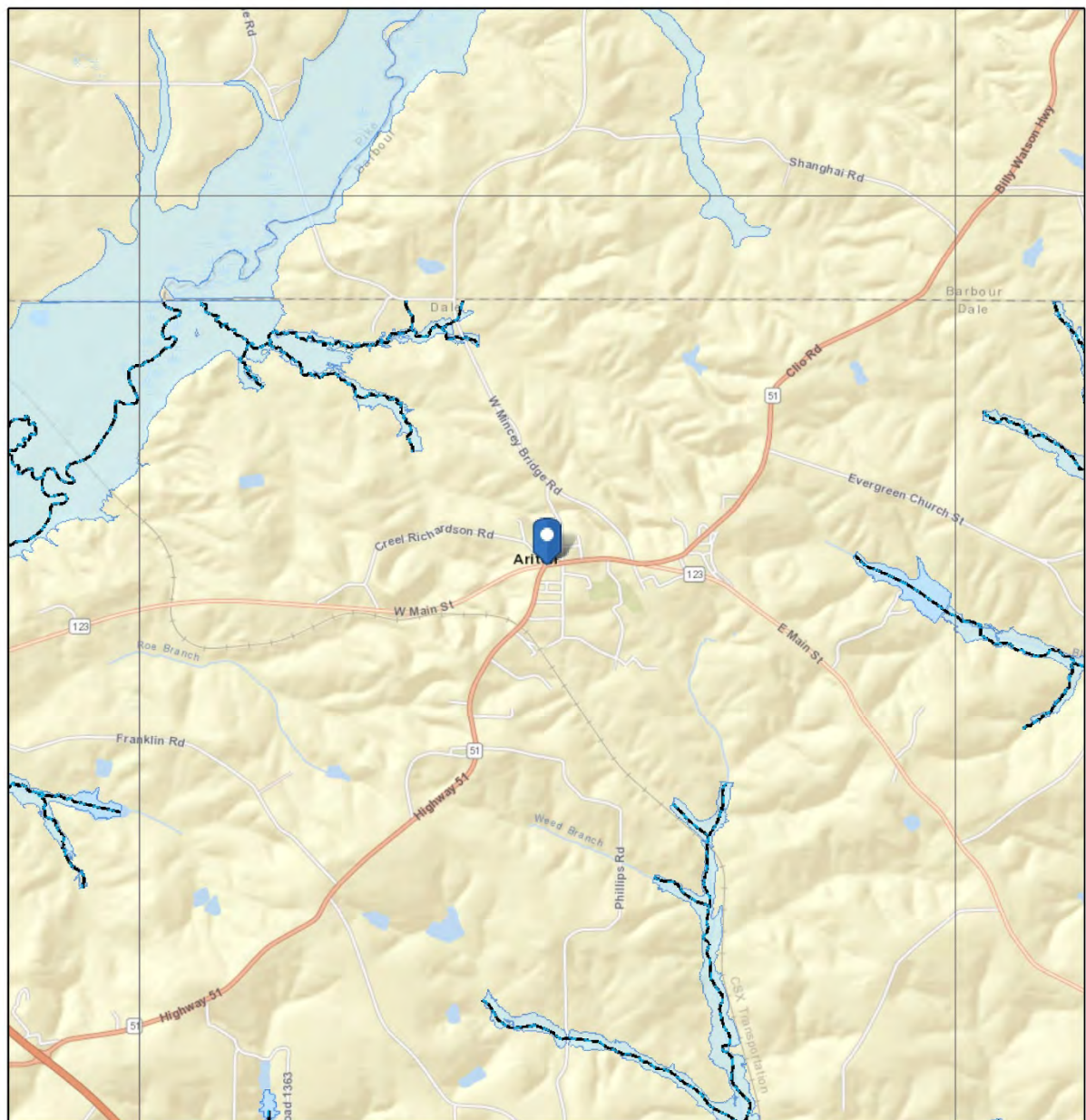


Figure 4.76: Clayhatchee Flood Hazard Areas

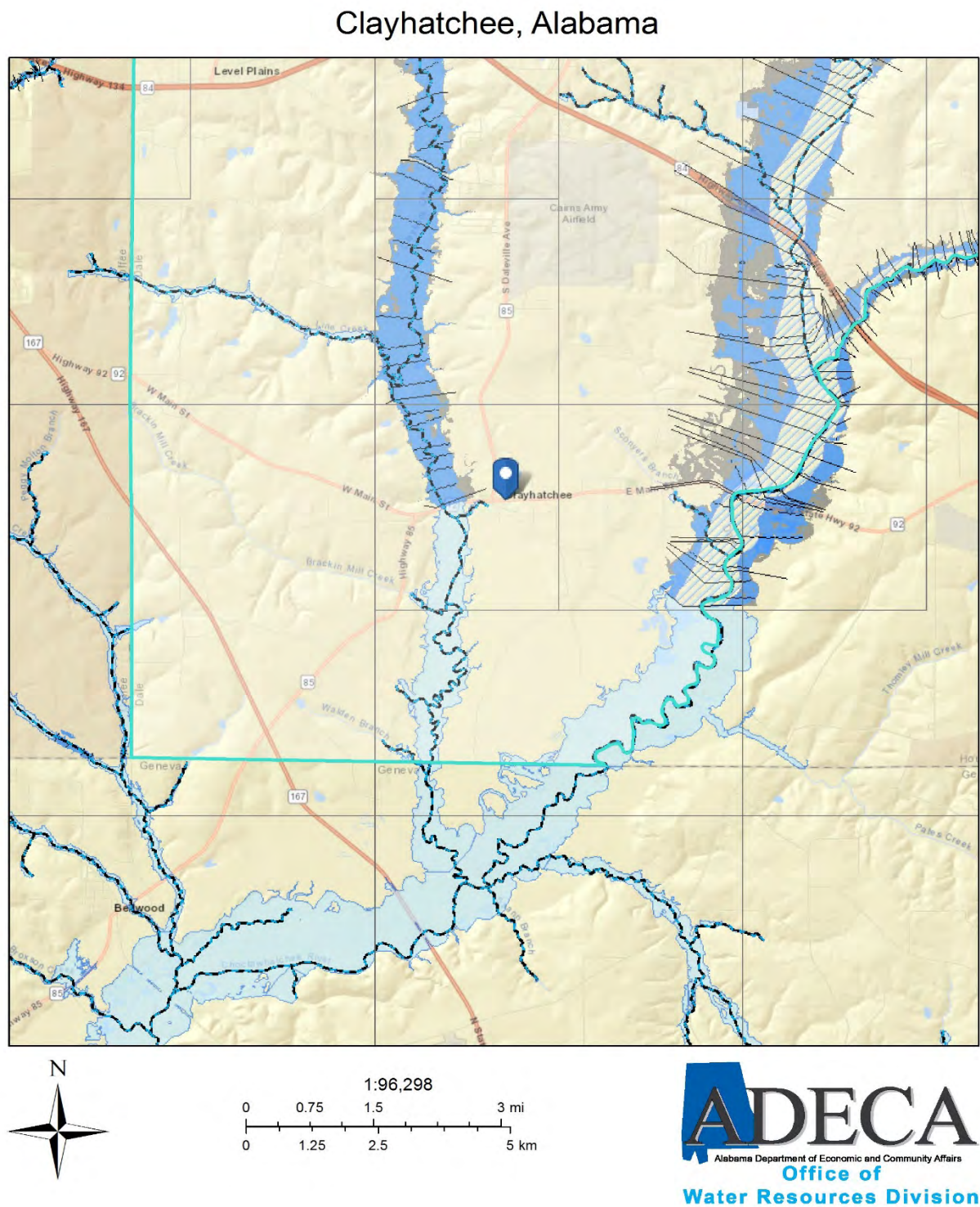




Figure 4.77: Daleville Flood Hazard Areas (Includes Daleville City Schools)

## Daleville, Alabama

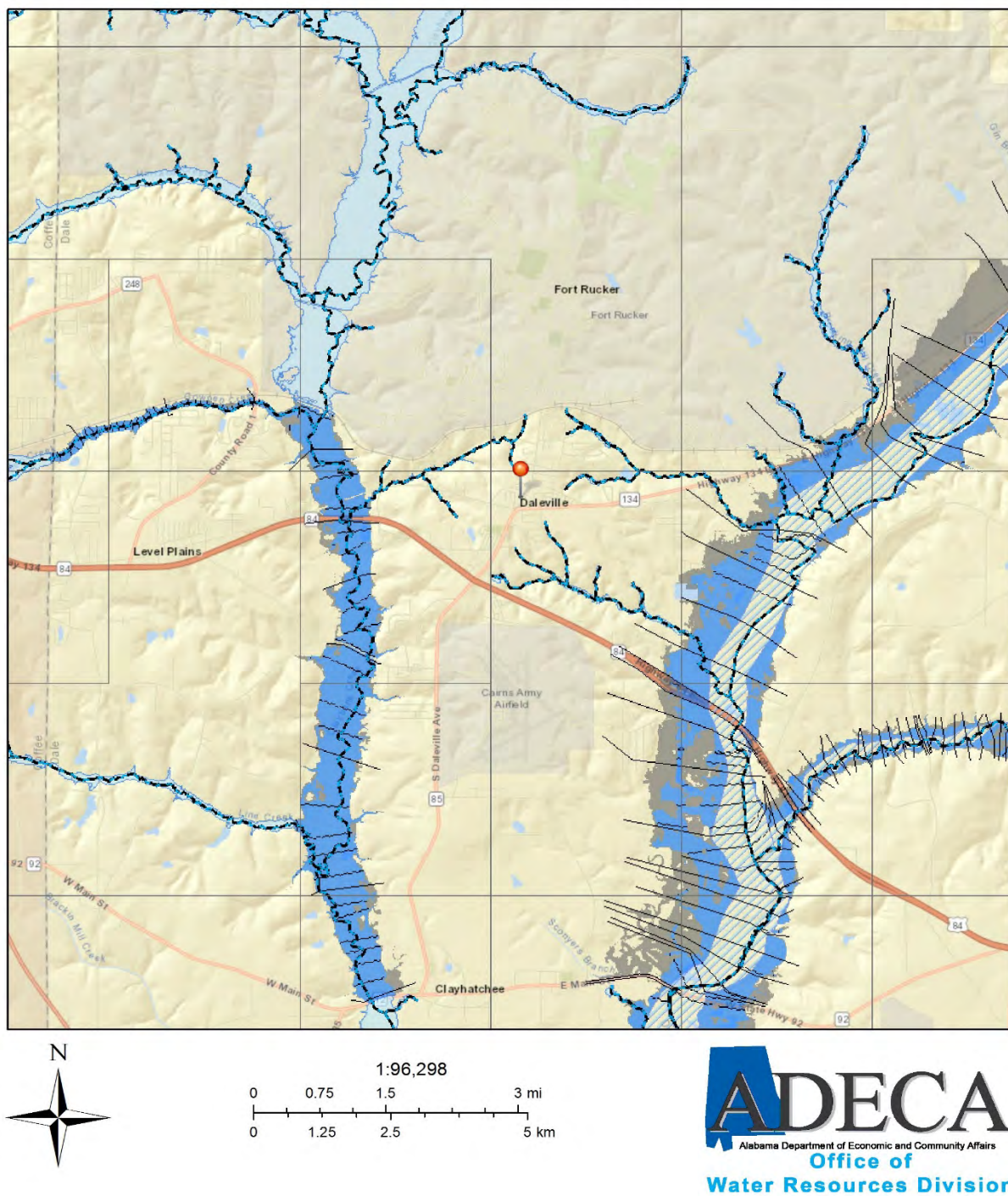


Figure 4.78: Grimes Flood Hazard Areas

## Grimes, Alabama

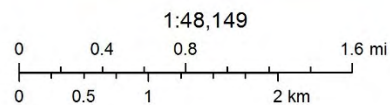
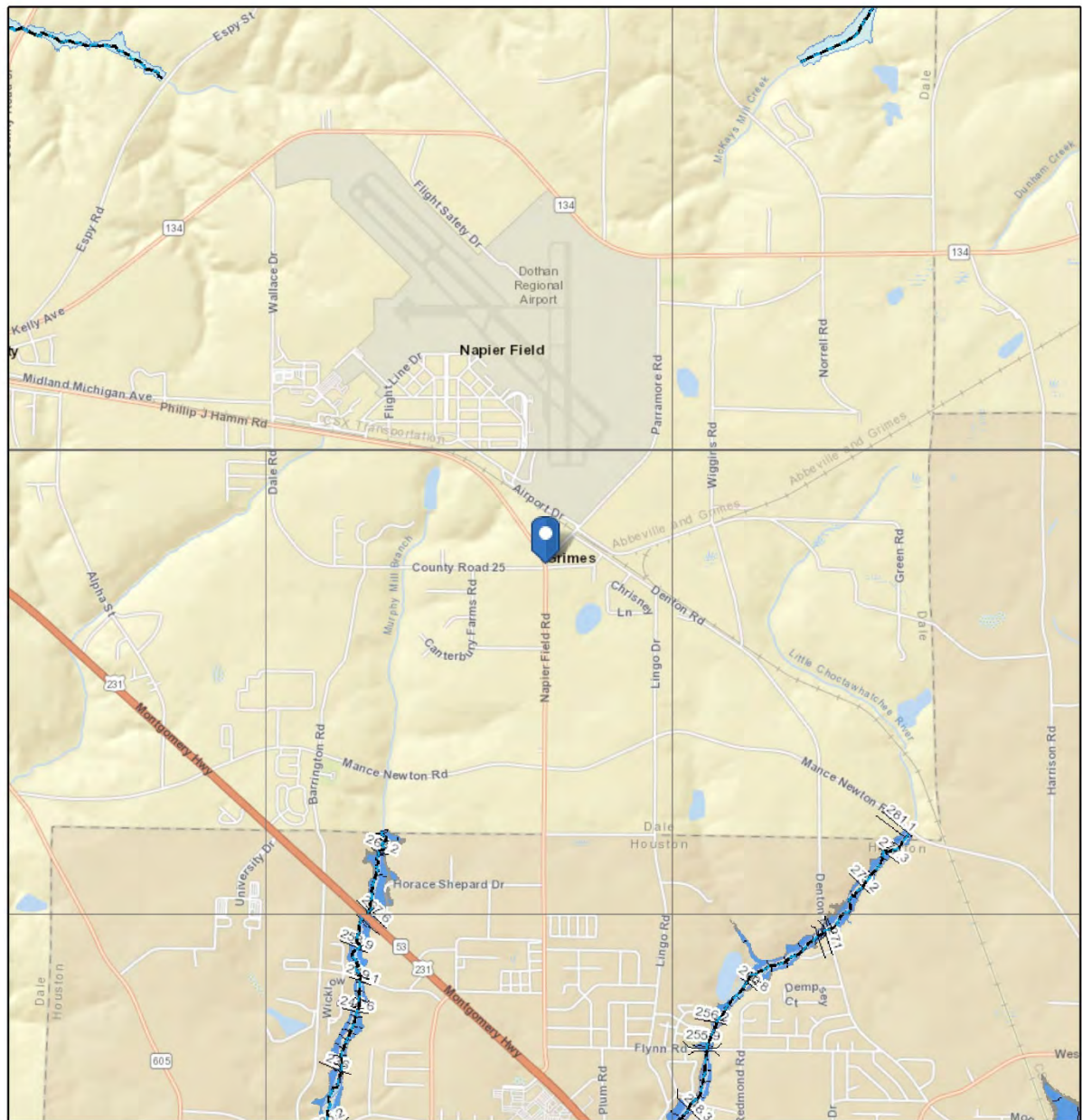
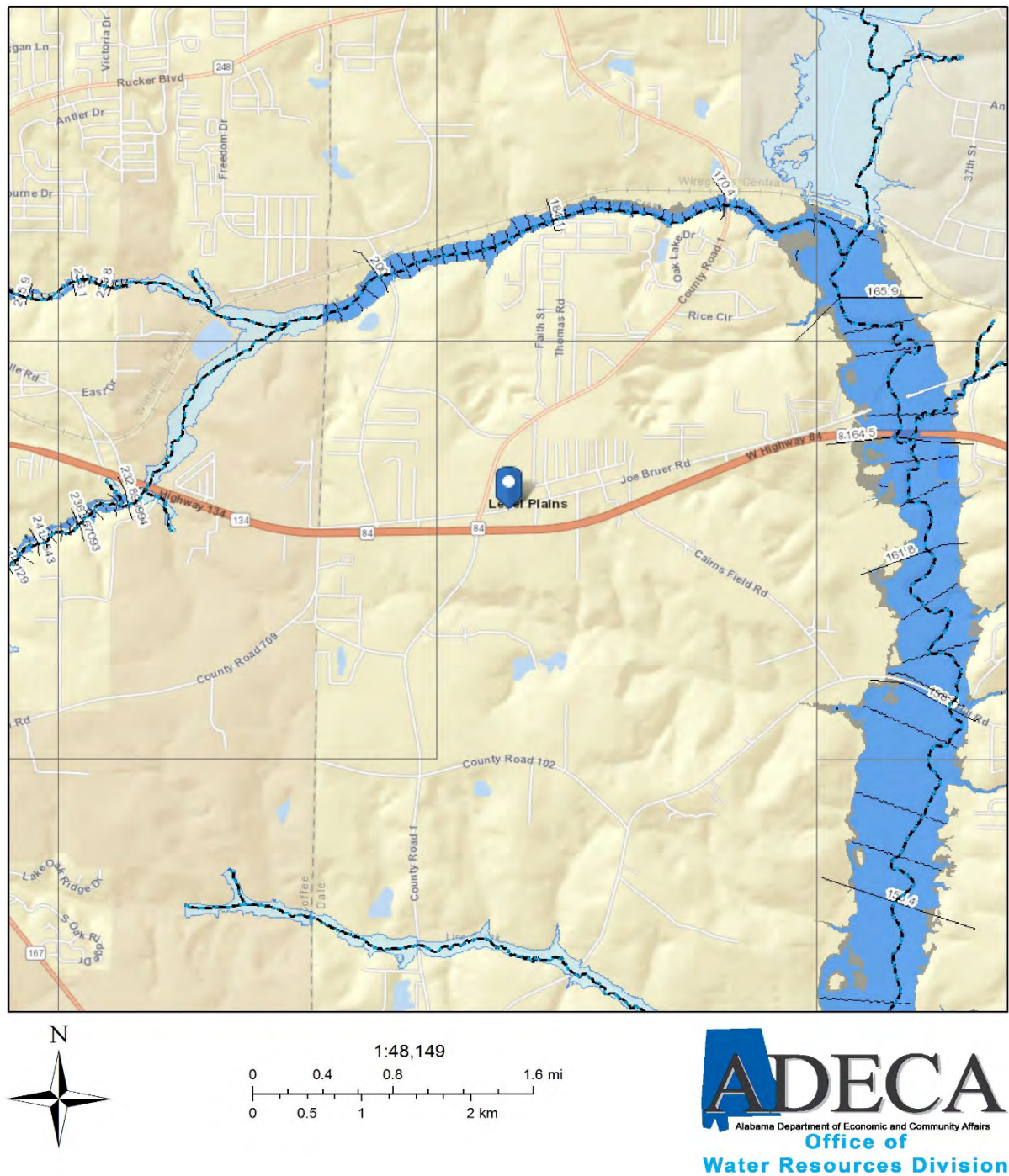




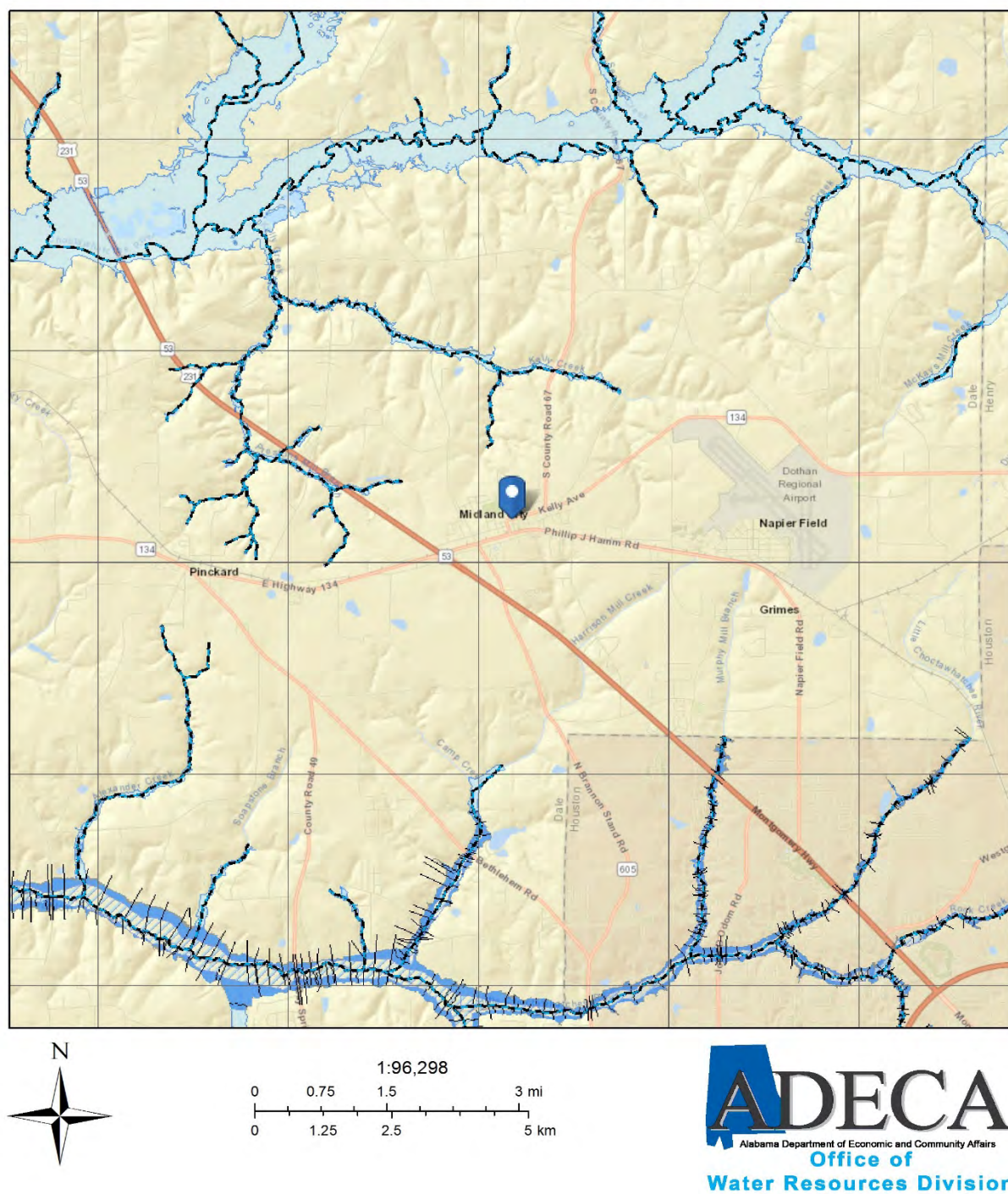
Figure 4.79: Level Plains Flood Hazard Areas

### Level Plains, Alabama



**Figure 4.80: Midland City Flood Hazard Areas (Includes Dale County Schools)**

## Midland City, Alabama





## Napier Field, Alabama



Figure 4.82: Newton Flood Hazard Areas (Includes Dale County Schools)

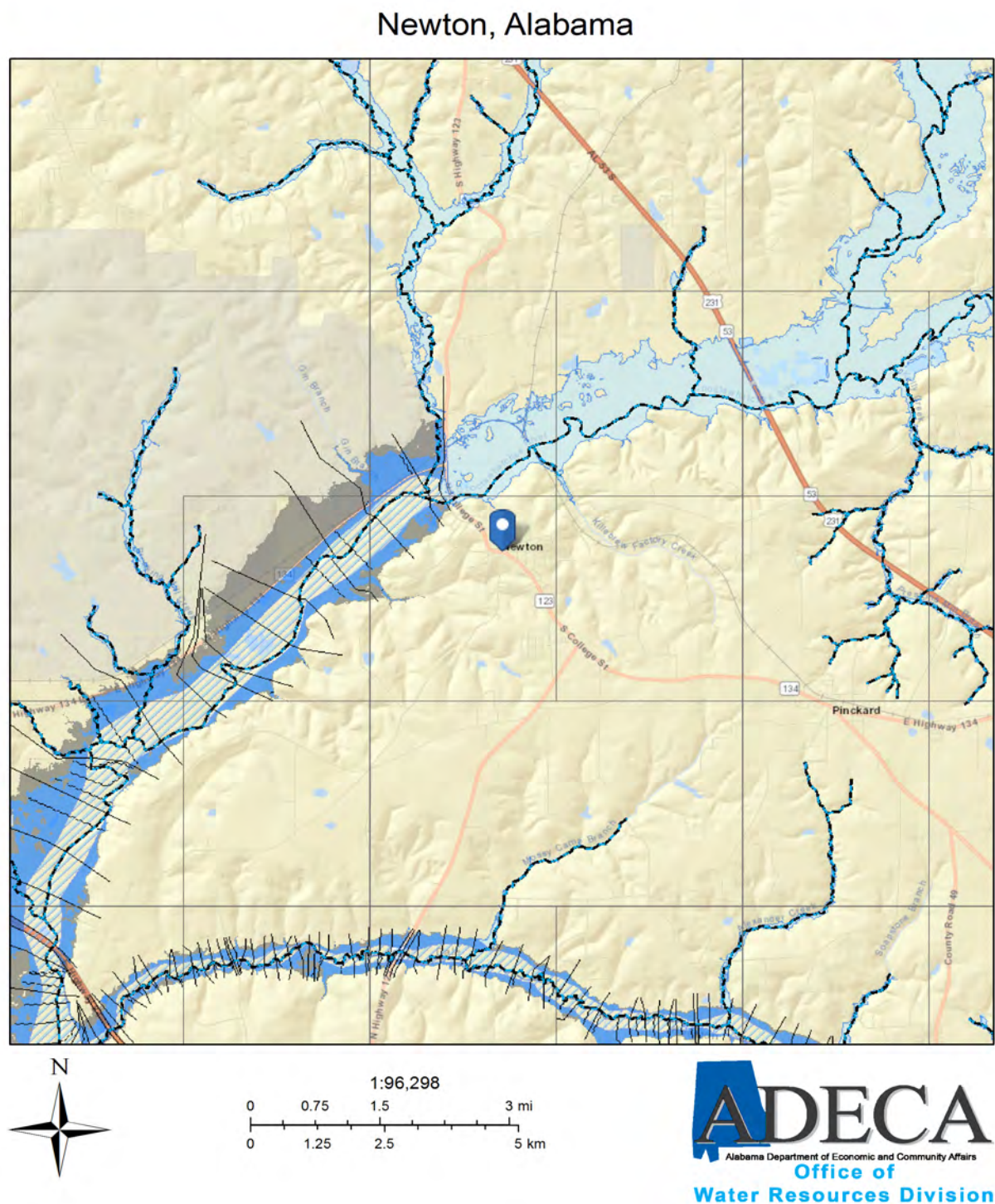
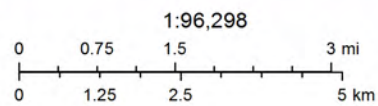
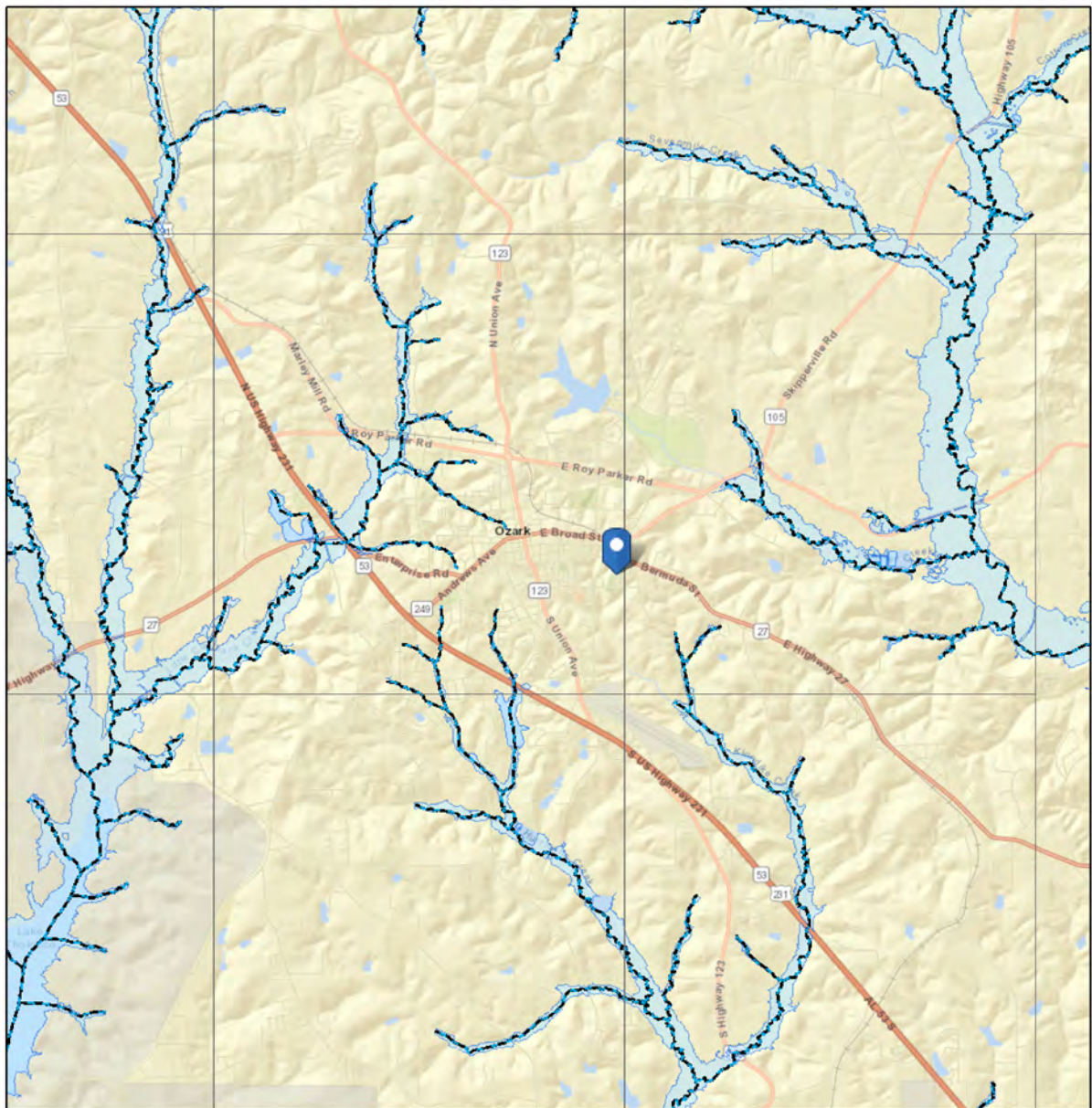


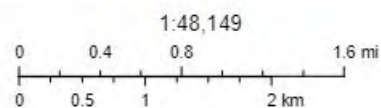
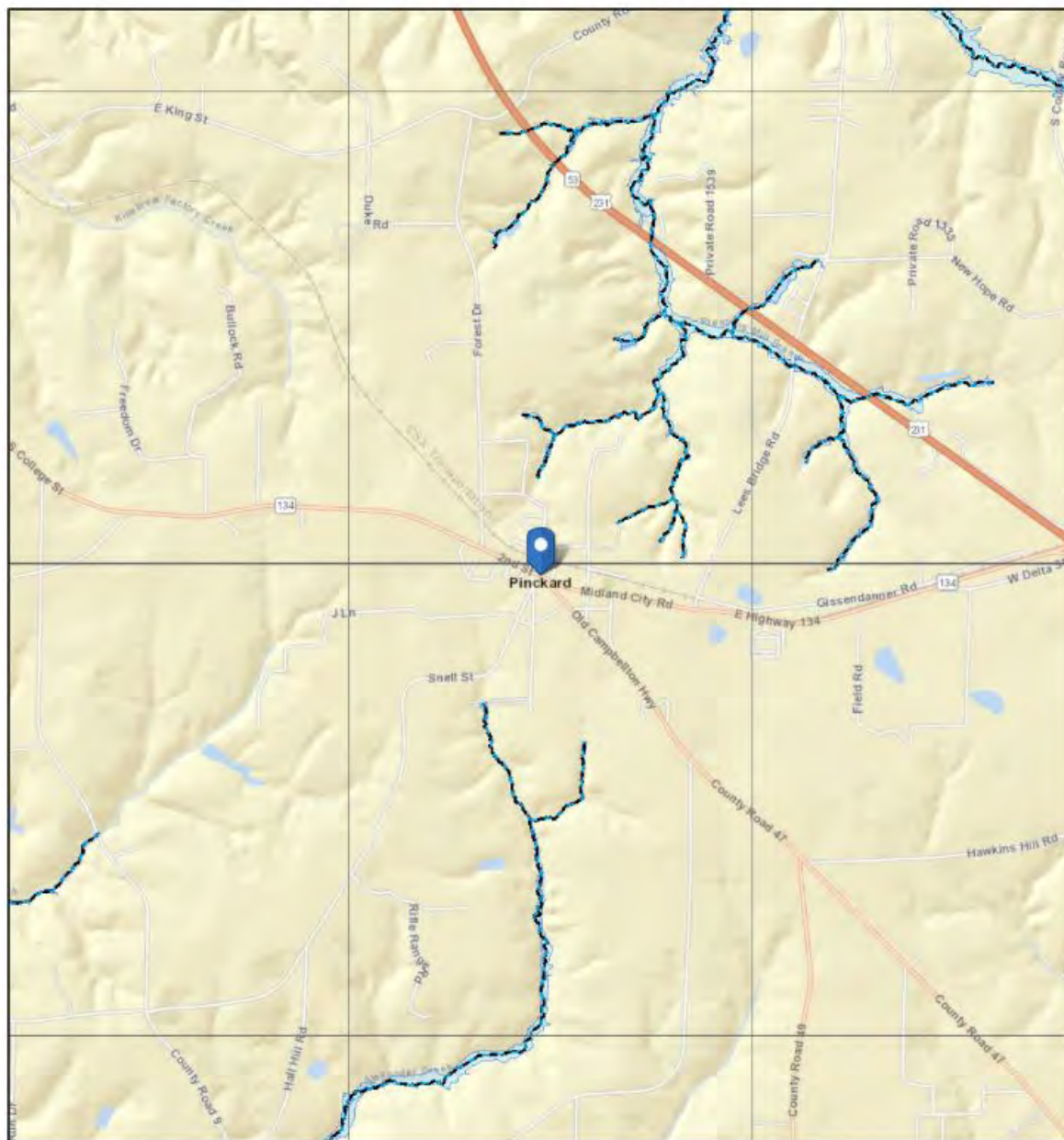


Figure 4.83: Ozark Flood Hazard Areas (Includes Ozark City Schools)

## Ozark, Alabama



**Figure 4.84: Pinckard Flood Hazard Areas**  
Pinckard, Alabama





## Geneva County

Flood Insurance Rate Maps (FIRM) have been developed for Geneva County, however, there are varying effective dates for the different jurisdictions in the county, as listed below:

- |                                |                   |
|--------------------------------|-------------------|
| • Town of Black                | February 20, 2008 |
| • Town of Coffee Springs       | February 20, 2008 |
| • City of Geneva               | July 2, 1980      |
| • City of Hartford             | July 22, 1977     |
| • Unincorporated Geneva County | May 1, 1995       |
| • Town of Malvern              | February 24, 1978 |
| • City of Samson               | February 24, 1978 |
| • City of Slocumb              | December 16, 1977 |
| • Town of Taylor               | November 21, 2002 |

The history of Geneva County is closely tied to flooding from the Choctawhatchee and Pea Rivers and Double Bridges Creek. The city was plagued by flooding from these streams until a levee was built around the city in the 1930s by the Work Progress Administration. The levee has not been breached since construction; however, some local flooding has occurred within the protection area as a result of ponding of local runoff. Some development exists outside the levee which is subjected to flooding. Several residences along Watson Street and Westville Avenue are located in the Pea River floodplain. Residential areas exist on Cumbra Street and in the area across from the County Courthouse north of Maple Avenue that are in the floodplain of Double Bridges Creek. Several residences located on Highway 27 between Double Bridges Creek and Choctawhatchee River are subject to flooding.

The Geneva County School System consists of several schools at various locations throughout the county. Geneva City Schools are also located in Geneva County. The Geneva County School system and the Geneva City Schools do not experience frequent riverine flooding and are not considered a flood hazard.

Figure 4.85: Geneva County Flood Hazard Areas

### Geneva County, Alabama

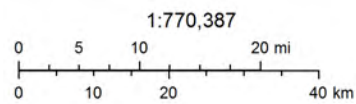
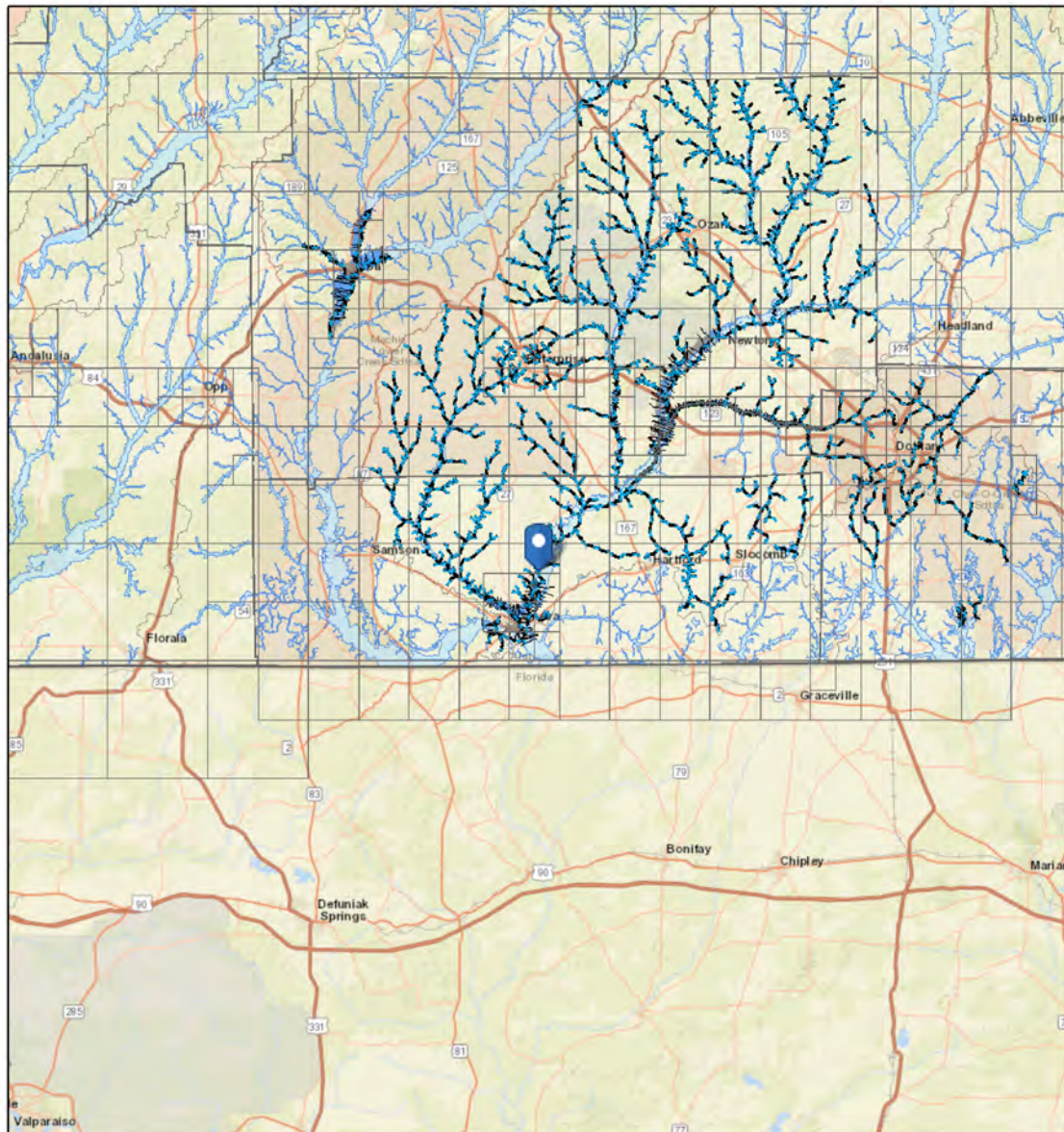


Figure 4.86: Black Flood Hazard Areas

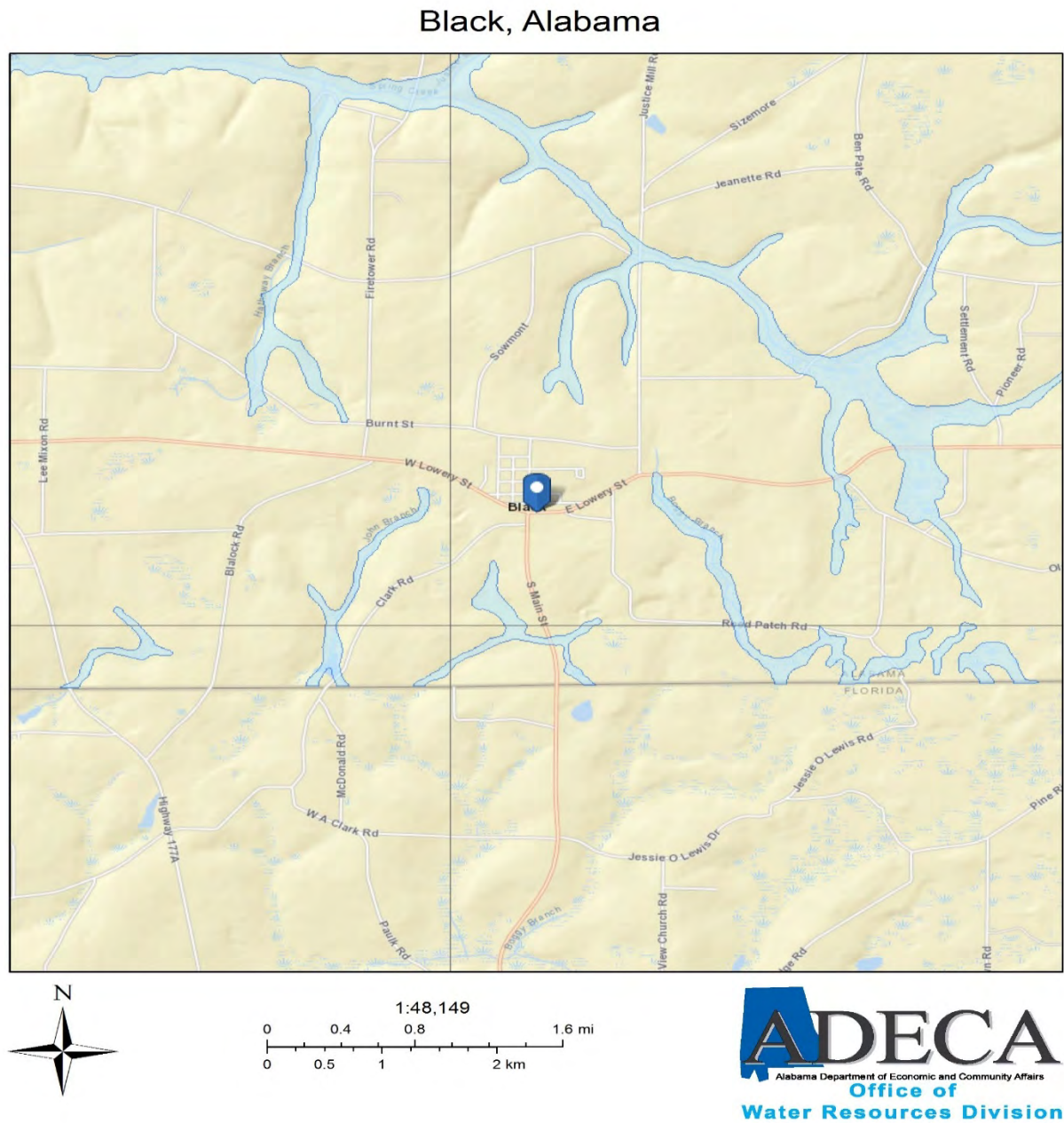




Figure 4.87: Coffee Springs Flood Hazard Areas

### Coffee Springs, Alabama

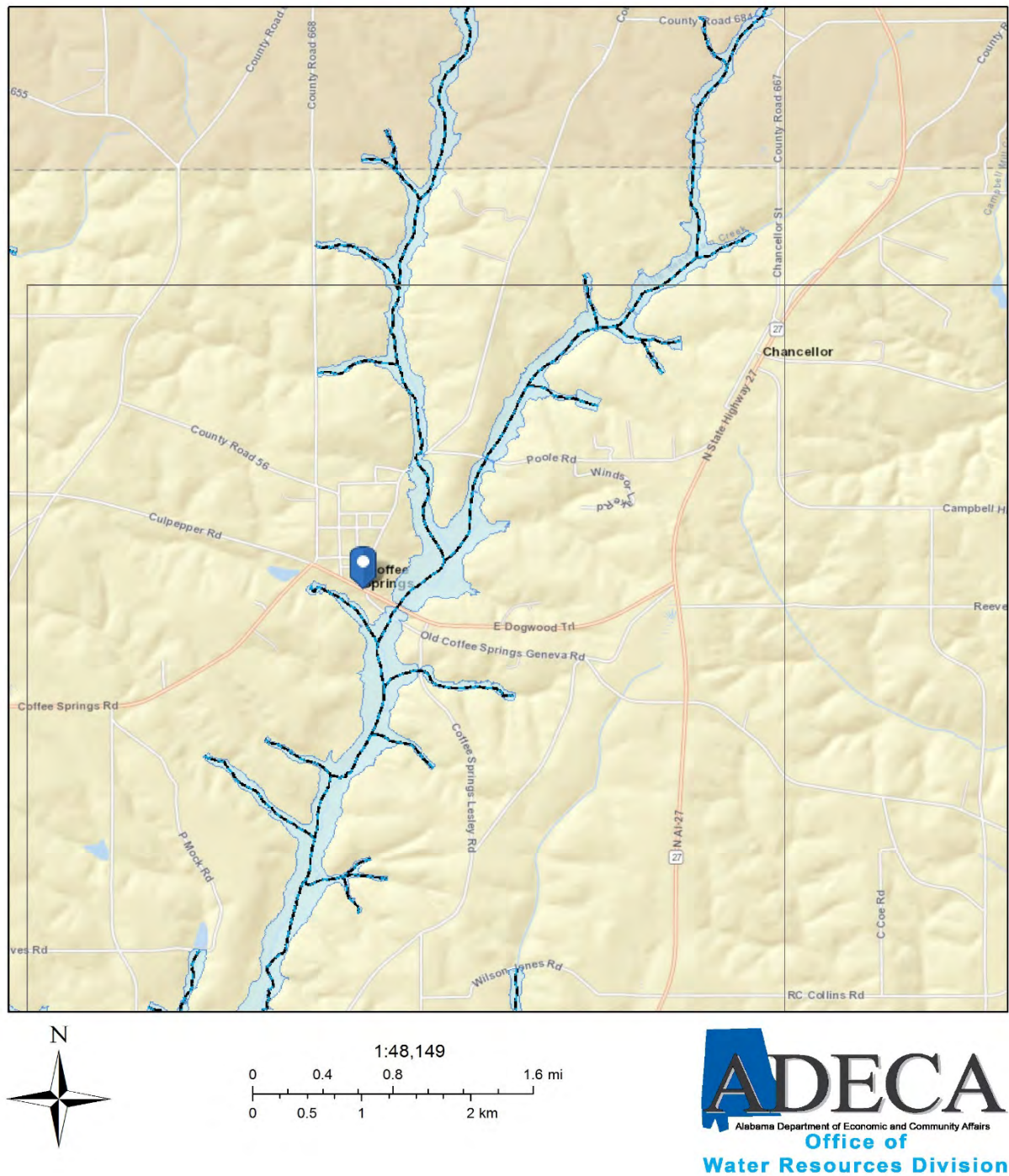




Figure 4.88: Geneva Flood Hazard Areas (Includes Geneva City Schools)

## Geneva, Alabama

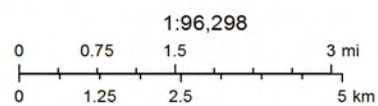
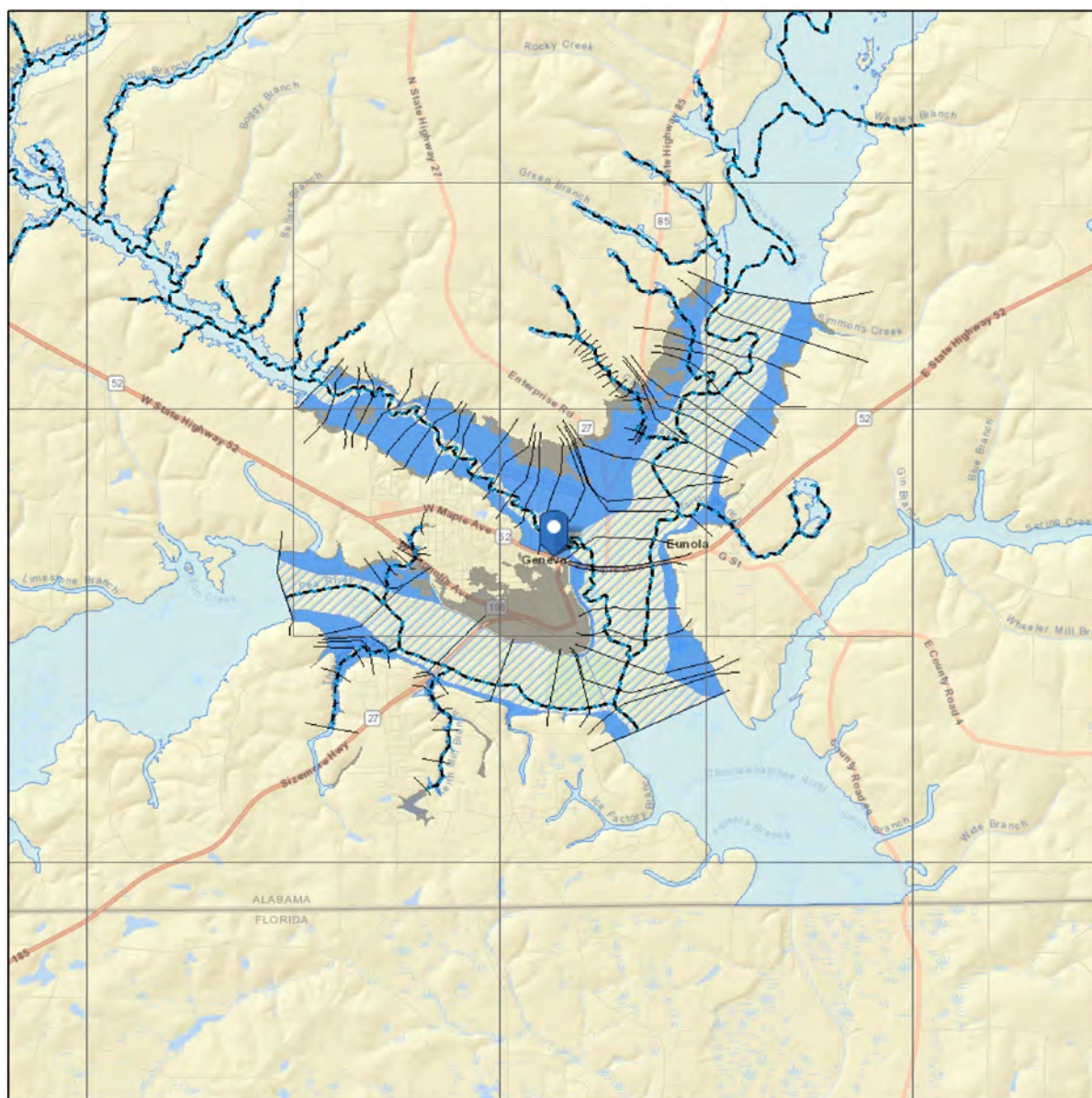


Figure 4.89: Hartford Flood Hazard Areas (Includes Geneva County Schools)

### Hartford, Alabama

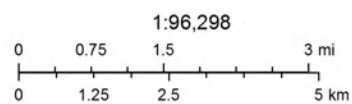
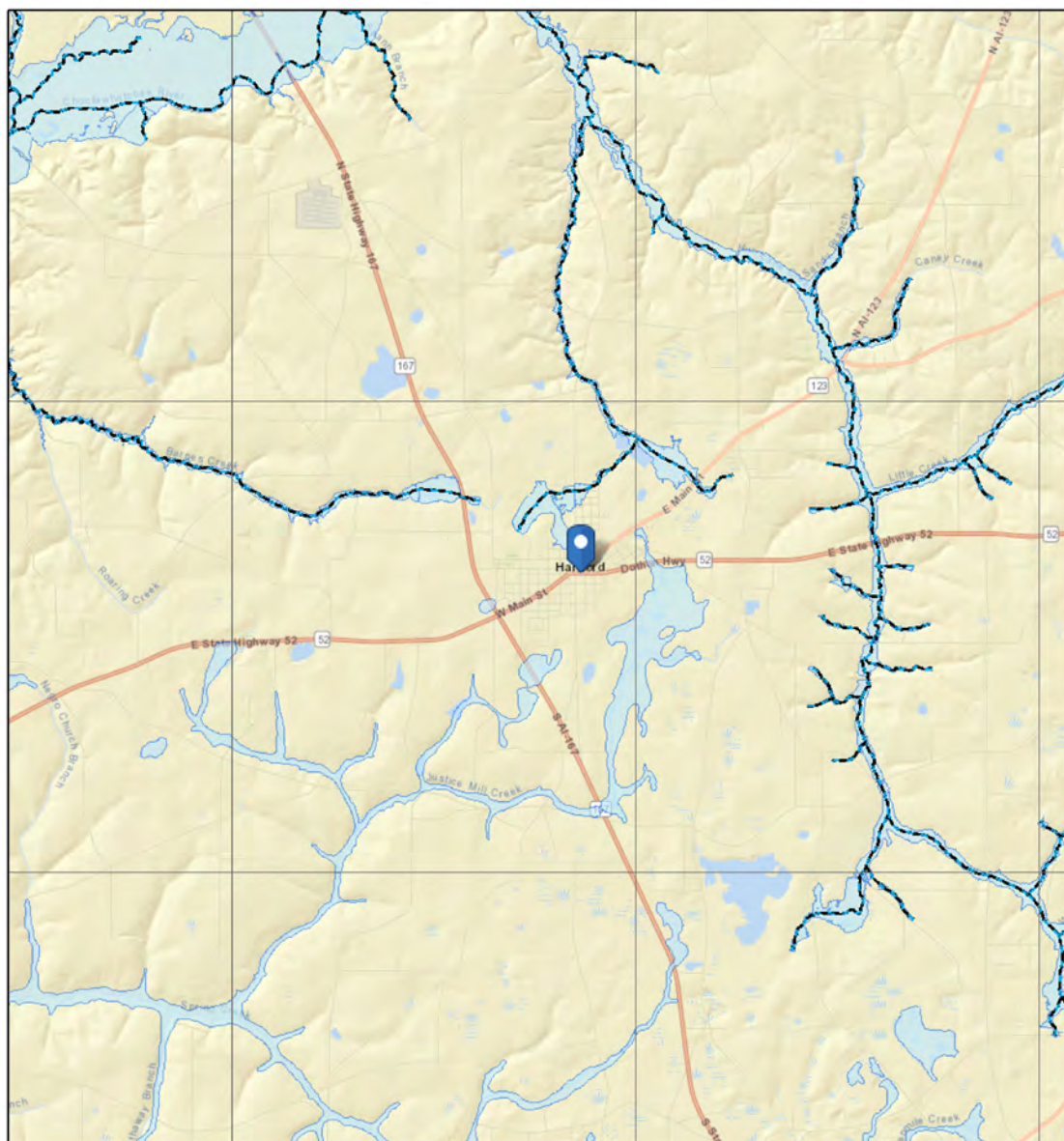




Figure 4.90: Malvern Flood Hazard Areas

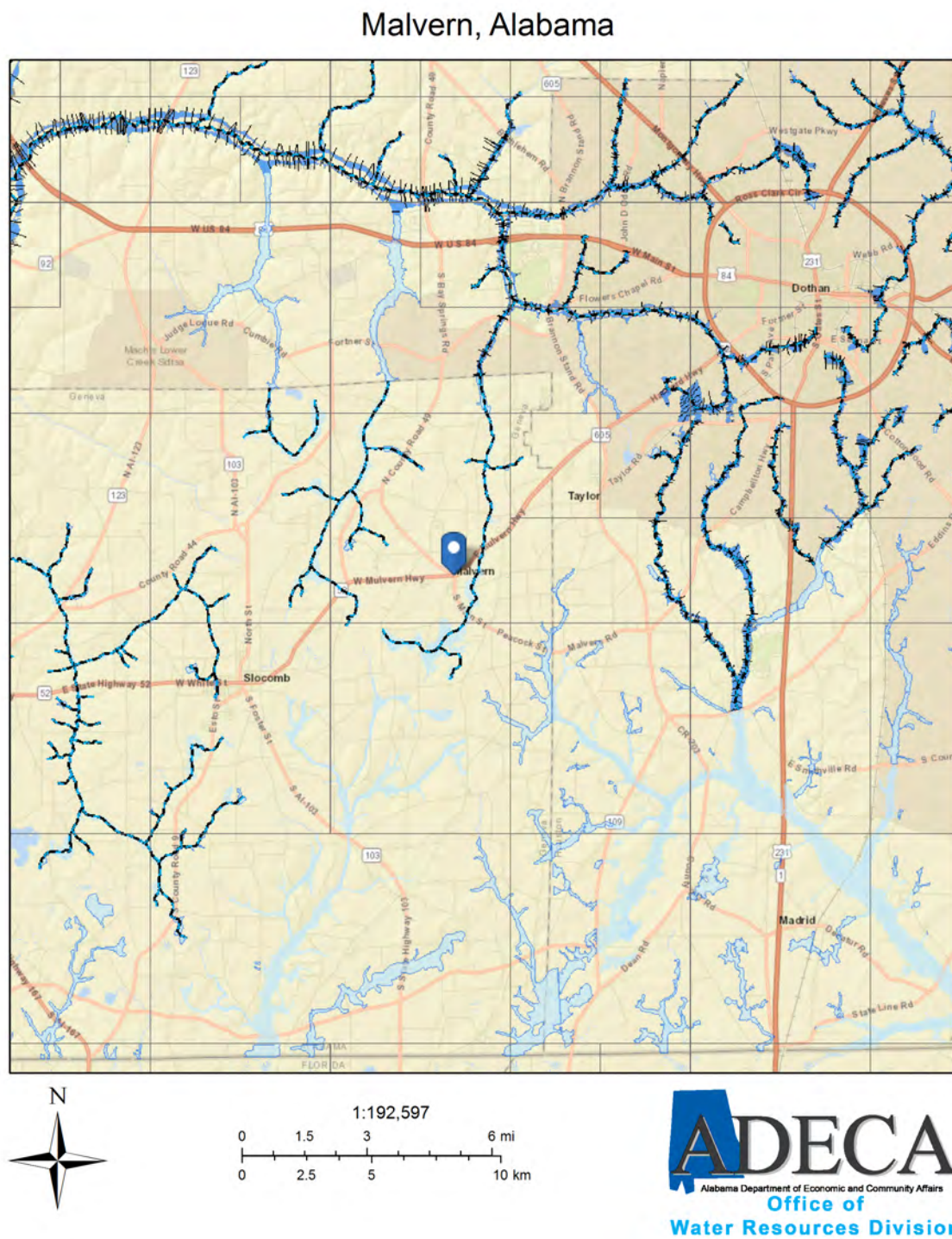


Figure 4.91: Samson Flood Hazard Areas (Includes Geneva County Schools)

### Samson, Alabama

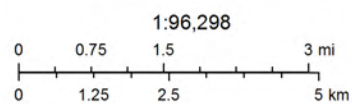
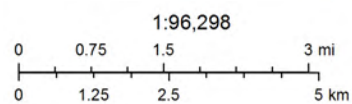
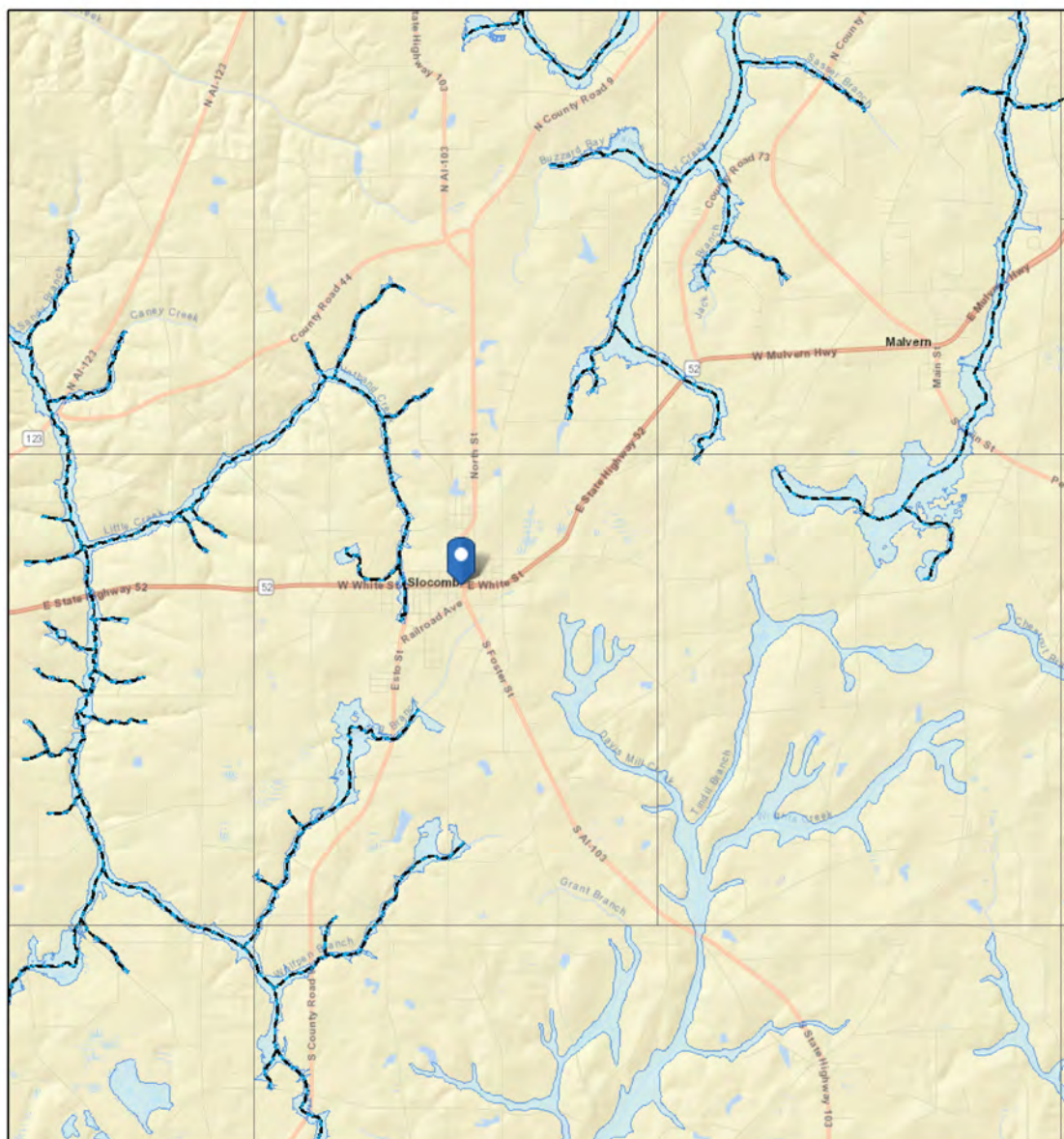




Figure 4.92: Slocomb Flood Hazard Areas (Includes Geneva County Schools)

### Slocomb, Alabama



## Henry County

Flood Insurance Rate Maps (FIRM) have been developed for Henry County, however, there are varying effective dates for the seven different jurisdictions in the county. A Flood Insurance Rate Map has not been developed for the Town of Haleburg. Flood Insurance Rate Maps (FIRM) have been developed for Geneva County, however, there are varying effective dates for the different jurisdictions in the county, as listed below:

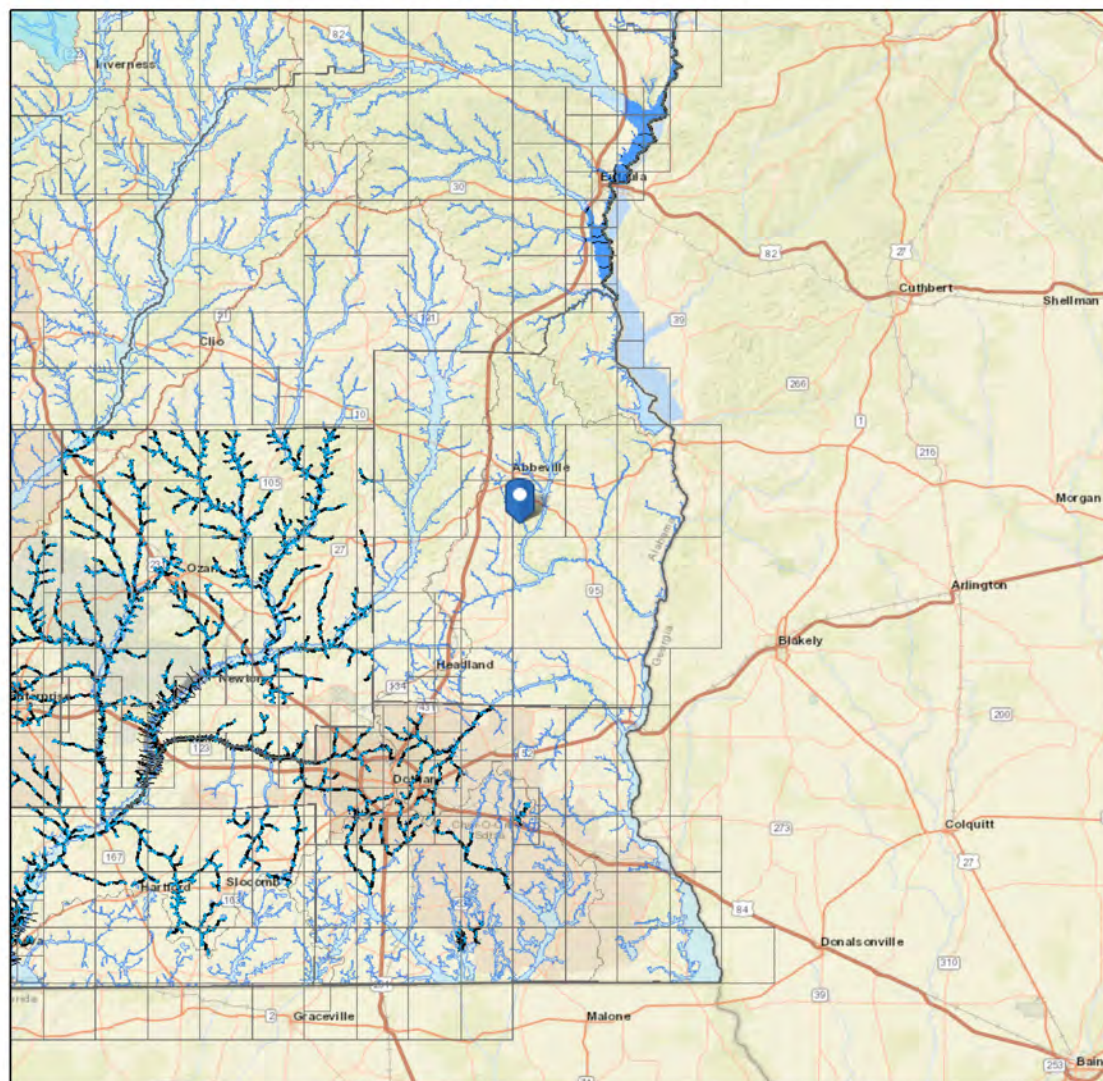
- City of Abbeville                      September 4, 1985
- City of Headland                      August 19, 1986
- Unincorporated Henry County      August 1, 1987
- Town of Newville                      September 29, 1986

There are no special flood hazard areas in Henry County. According to the September 2007 Henry County Flood Insurance Study, the principal sources of flooding in Henry County are the Choctawhatchee River Watershed, and the Pea River Watershed. Based on a review of the FRIS maps, flooding in Henry County is most likely to be caused by heavy rainfall and ponding conditions on unimproved county roads. There are several areas in the northern part of the county that border Abbie Creek that experience minor flooding issues.

The Henry County School System consist of schools in the cities of Abbeville and Headland. There are no city school systems in Henry County. The Henry County School system do not experience frequent riverine flooding and are not considered a flood hazard.

**Figure 4.93: Henry County Flood Hazard Areas**

## Henry County, Alabama



1:770,387

A horizontal scale bar with two rows of markings. The top row is labeled 'mi' and has major markings at 0, 5, 10, and 20. The bottom row is labeled 'km' and has major markings at 0, 10, 20, and 40. The scale represents a distance of 1:770,387.





Figure 4.94: Abbeville Flood Hazard Areas (Includes Henry County Schools)

### Abbeville, Alabama

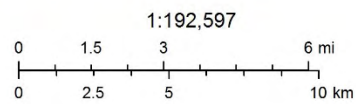
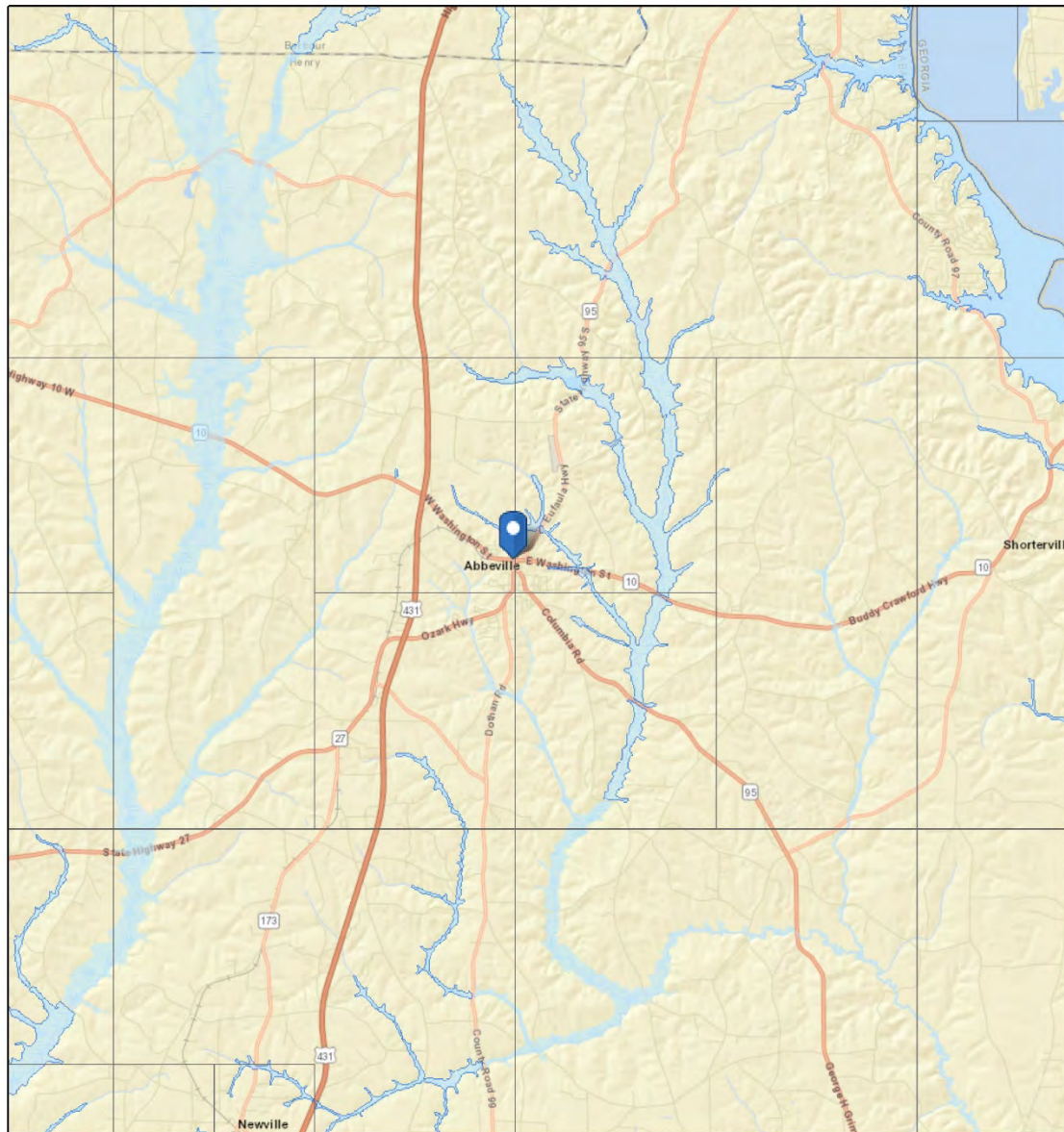


Figure 4.95: Haleburg Flood Hazard Areas

## Haleburg, Alabama

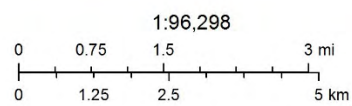
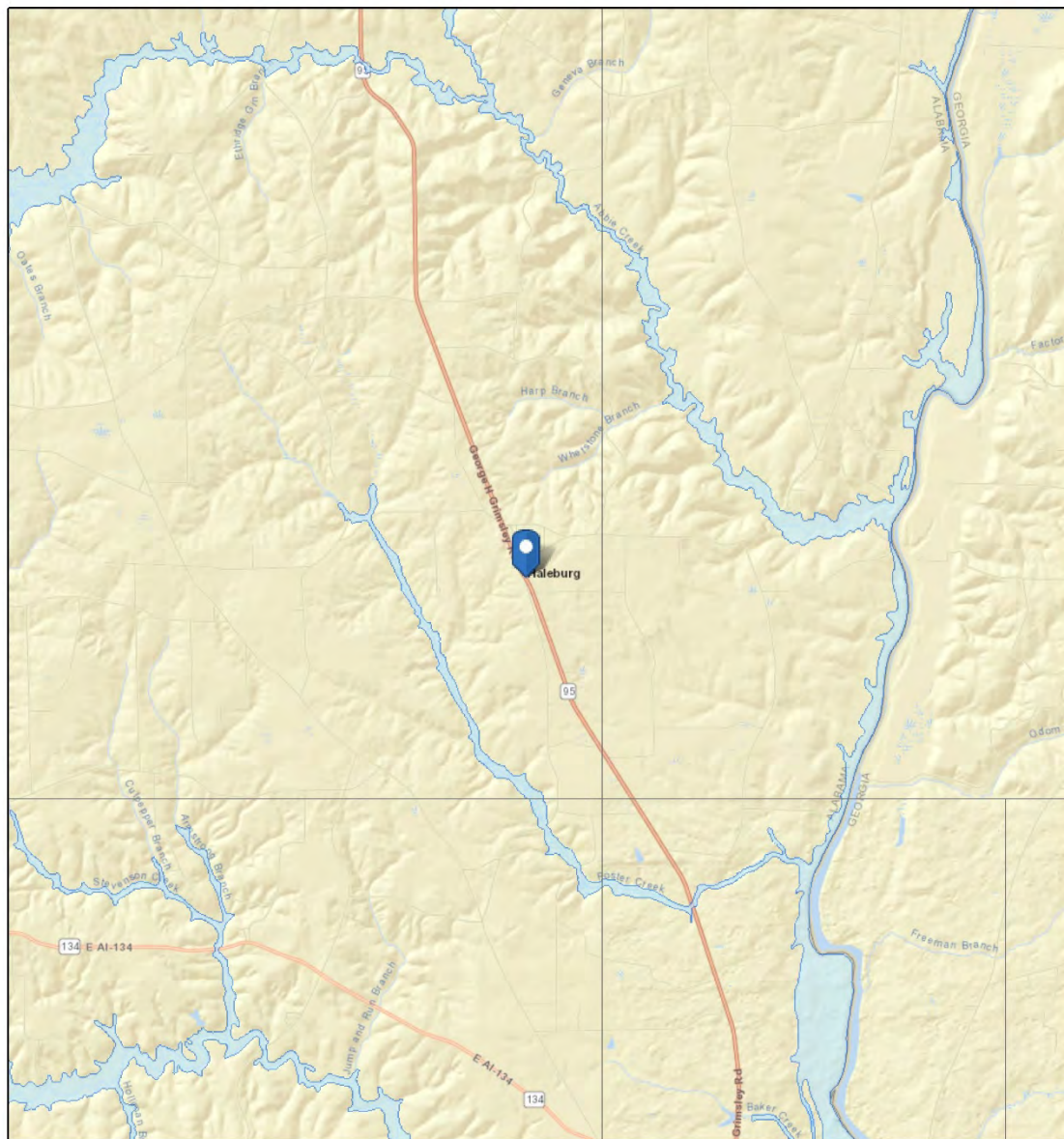




Figure 4.96: Headland Flood Hazard Areas (Includes Henry County Schools)

## Headland, Alabama

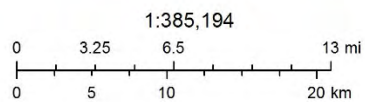
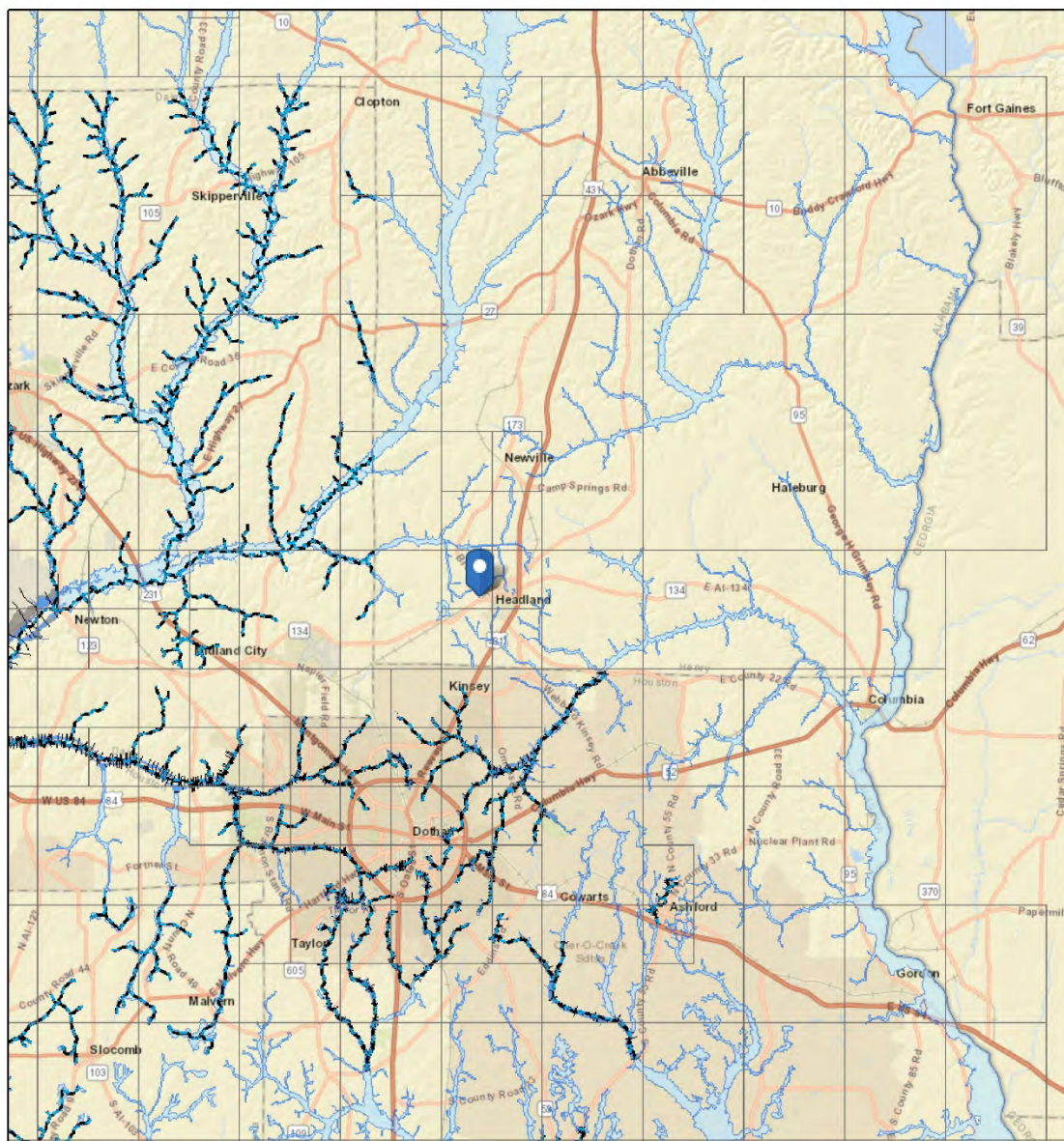
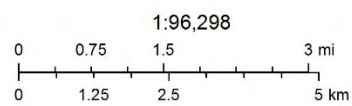
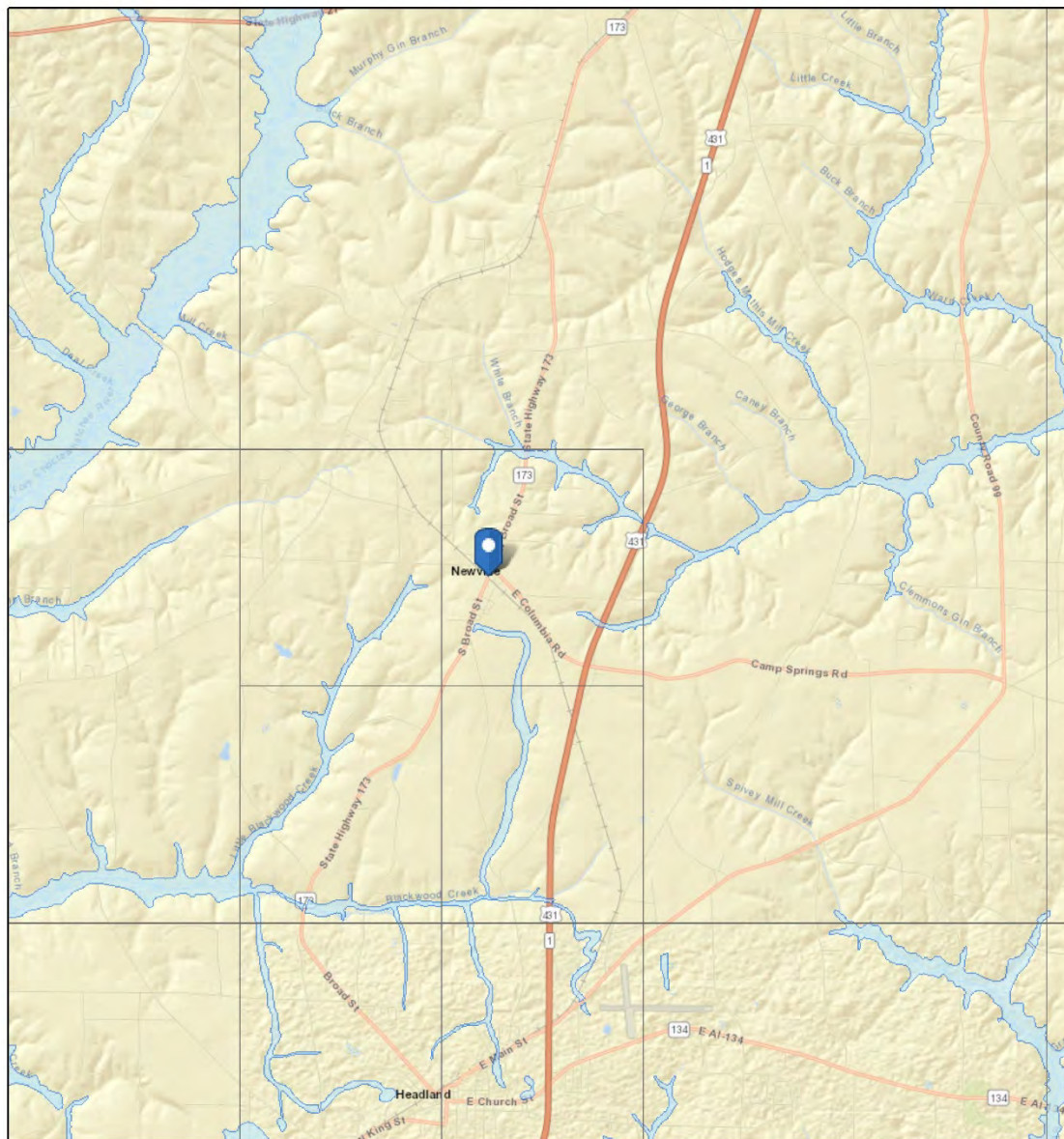




Figure 4.97: Newville Flood Hazard Areas

## Newville, Alabama



## Houston County

Flood Insurance Rate Maps (FIRM) have been developed for Houston County, however, there are varying effective dates for the seven different jurisdictions in the county as listed below:

• City of Ashford	September 4, 1985
• Town of Avon	September 1, 1986
• Town of Columbia	September 4, 1985
• Town of Cottonwood	April 5, 1988
• Town of Cowarts	N/A
• City of Dothan	January 15, 1988
• Town of Gordon	April 2, 1986
• Unincorporated Houston County	September 29, 1989
• Town of Kinsey	September 29, 1986
• Town of Madrid	July 18, 1985
• Town of Rehobeth	N/A
• City of Taylor	N/A
• Town of Webb	N/A

The Town of Webb is the only location of a special flood hazard in Houston County. According to Houston County's flood risk report the primary areas affected by riverine flooding in Houston County are along the Chattahoochee River, Choctawhatchee River, Little Choctawhatchee River, Newton Creek, Beaver Creek, Chipola Creek, Cowarts Creek, and Limestone Creek. Large floods occurred on Choctawhatchee River in 1929, 1960, 1970, and 2009. Other areas inside the floodplains are streams and creeks throughout the county and the municipalities. Flooding problems in the Town of Cottonwood are primarily due to overflow of Boggy Creek, Buck Creek, and their tributaries. No records of major flooding or high-water marks are available..

The Houston County School System consist of several schools at various locations throughout the county. Dothan City Schools are also located in Houston County. The Houston County School system and the Dothan City Schools do not experience frequent riverine flooding and are not considered a flood hazard.

Figure 4.98: Houston County Flood Hazard Areas

### Houston County, Alabama

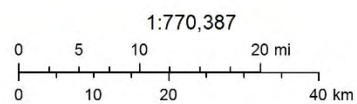
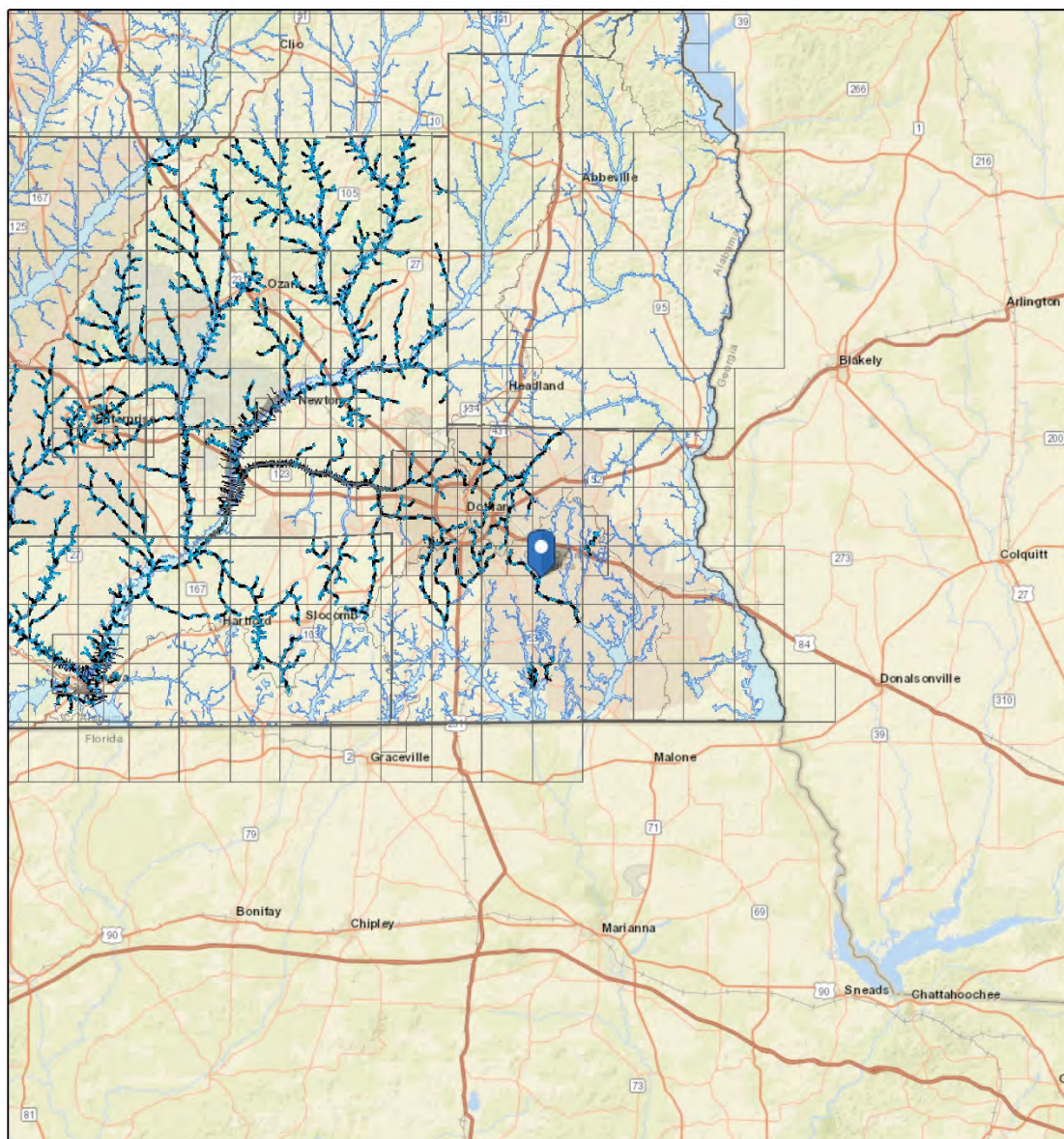




Figure 4.99: Ashford Flood Hazard Areas (Includes Houston County Schools)

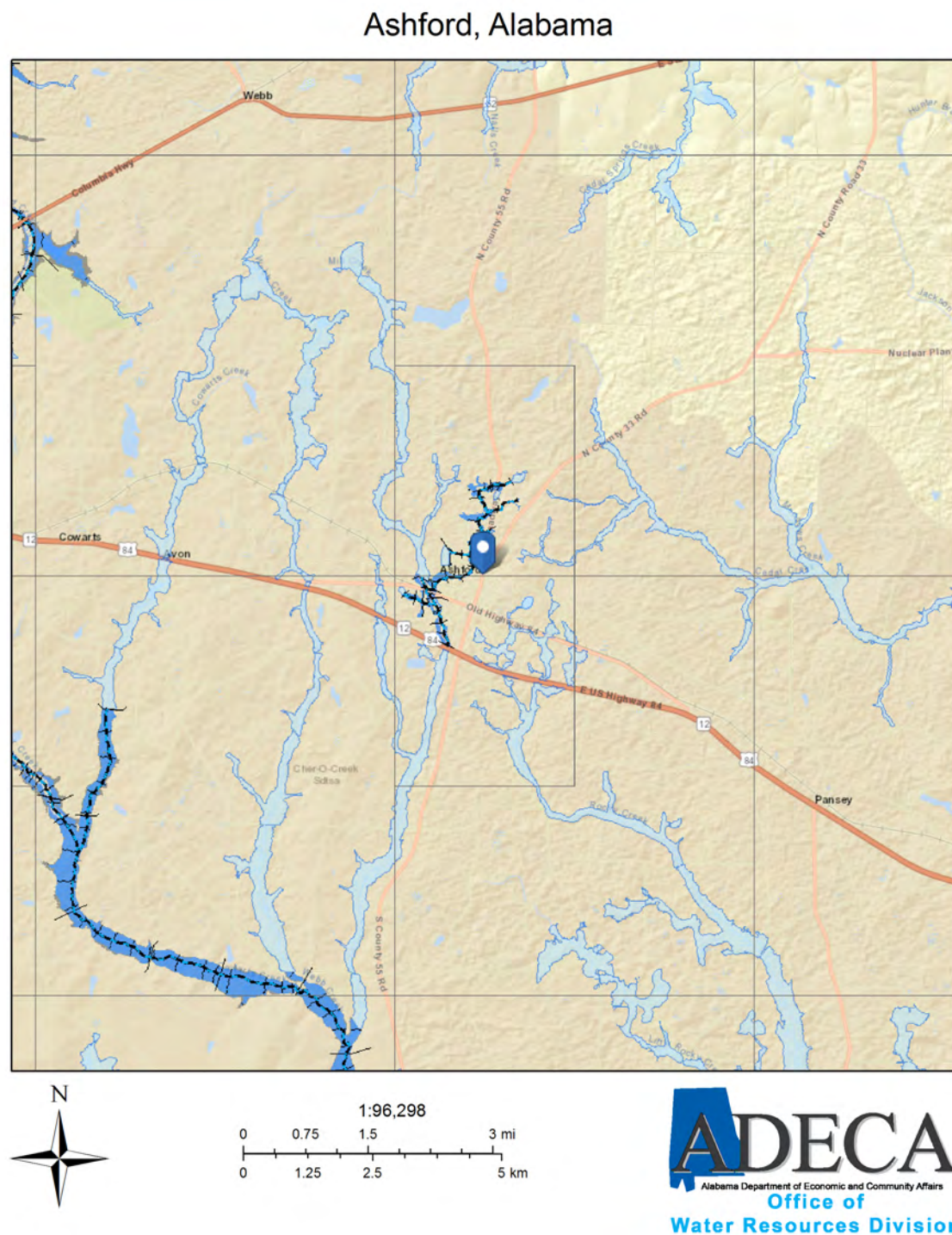


Figure 4.100: Avon Flood Hazard Areas

## Avon, Alabama

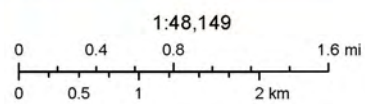
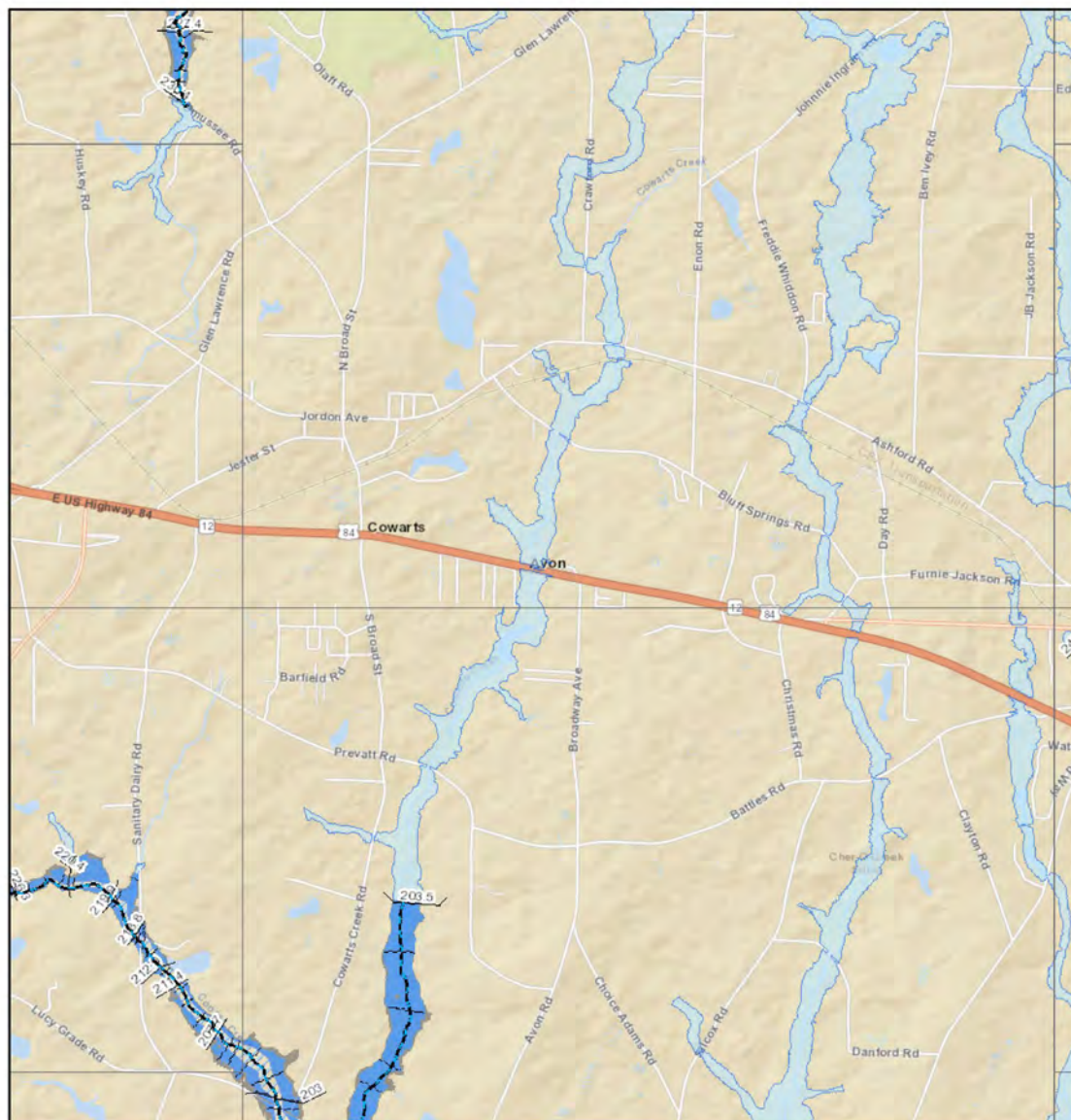




Figure 4.101: Columbia Flood Hazard Areas (Includes Houston County Schools)

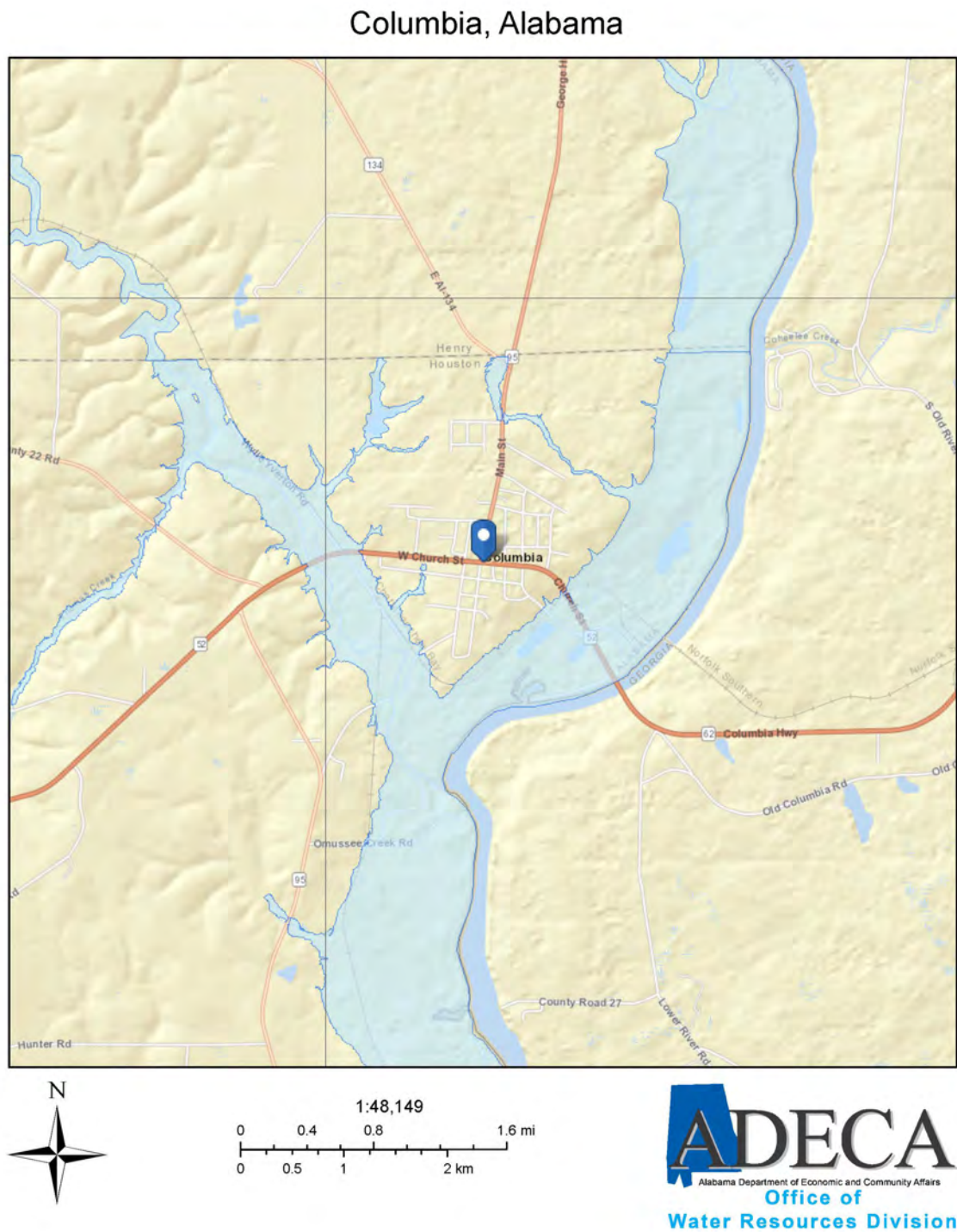




Figure 4.102: Cottonwood Flood Hazard Areas (Includes Houston County Schools)

### Cottonwood, Alabama

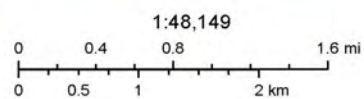
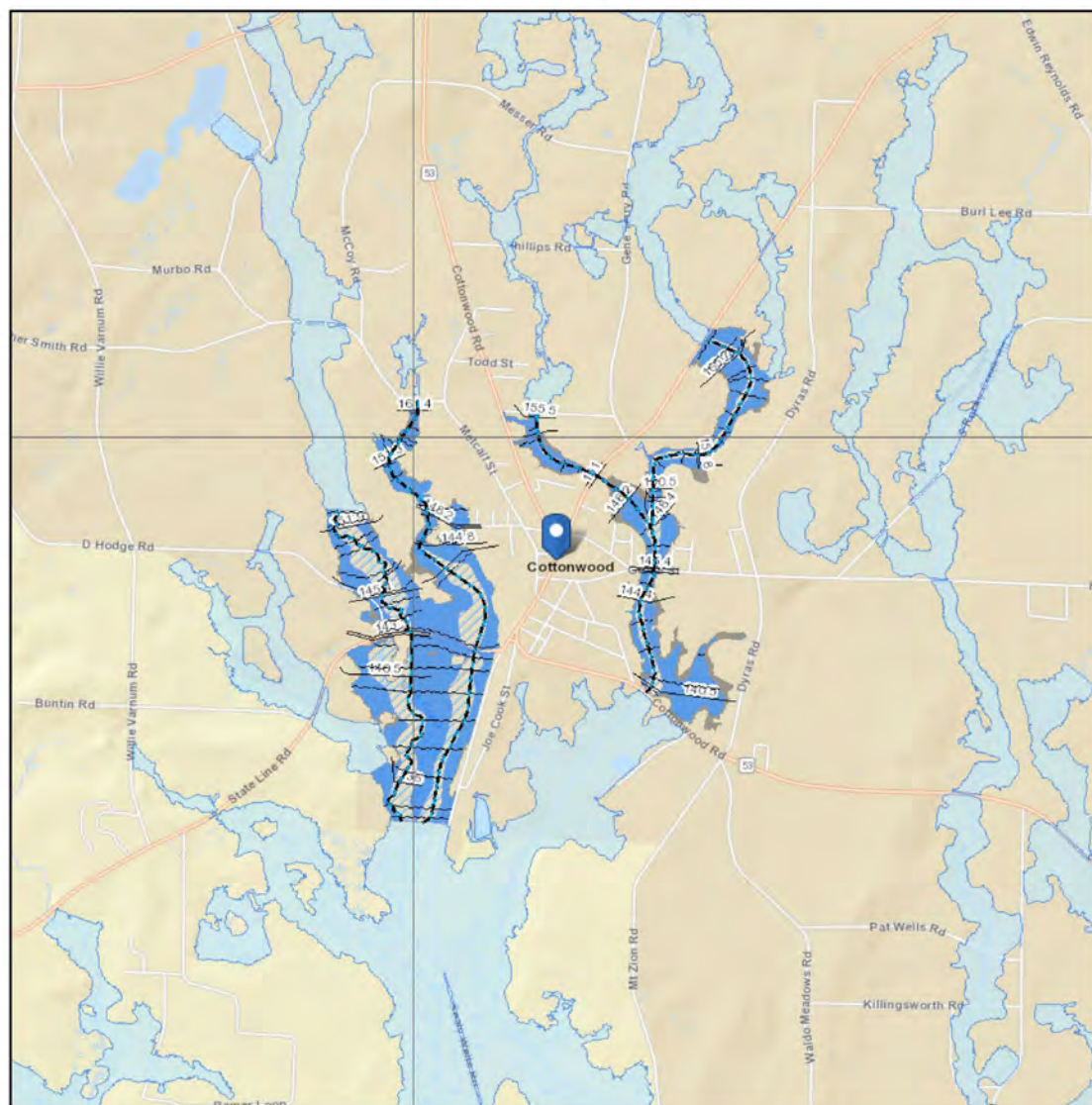


Figure 4.103: Cowarts Flood Hazard Areas

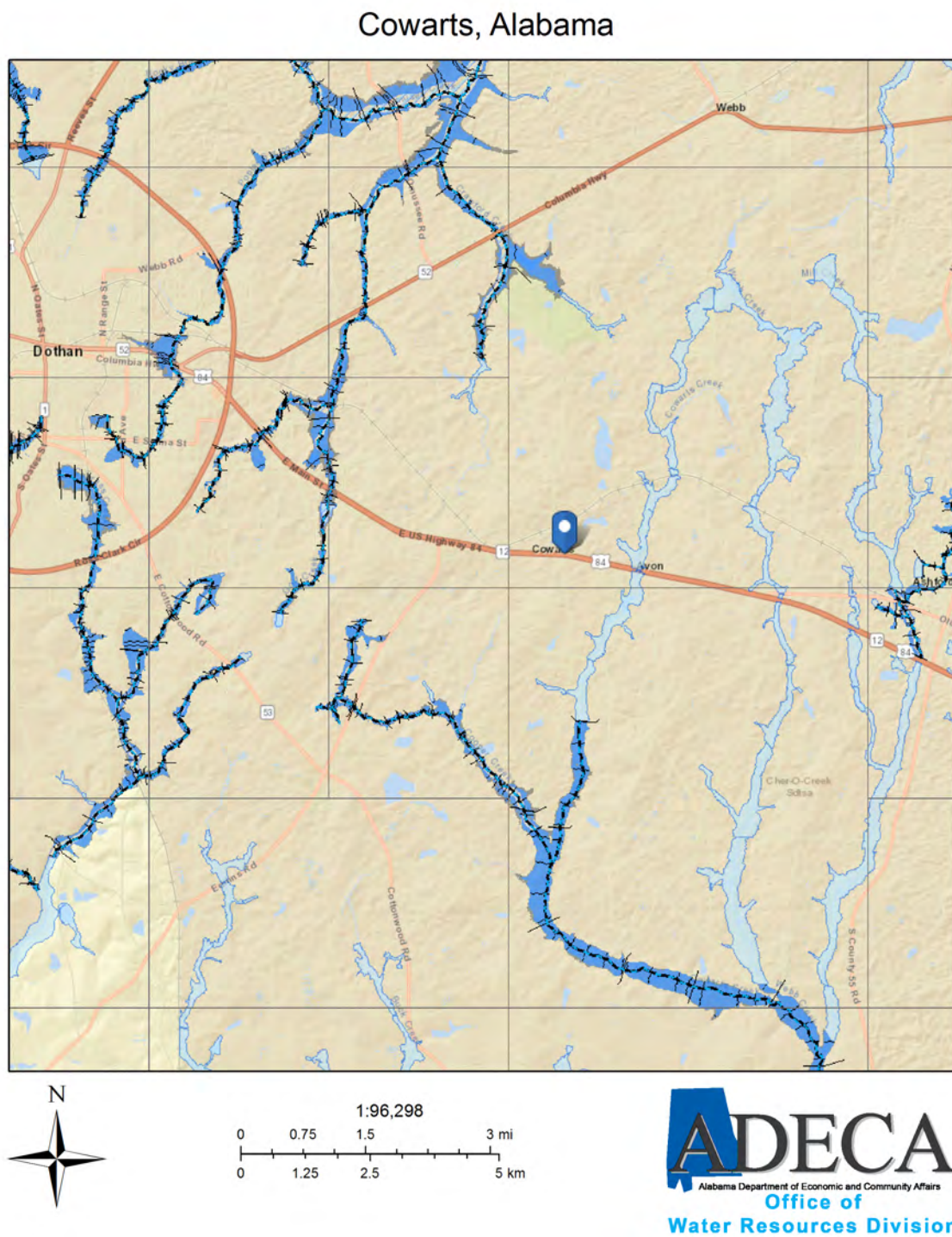




Figure 4.104: Dothan Flood Hazard Areas (Includes Dothan City Schools)

# Dothan, Alabama

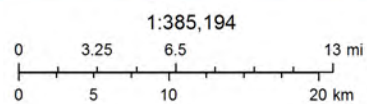
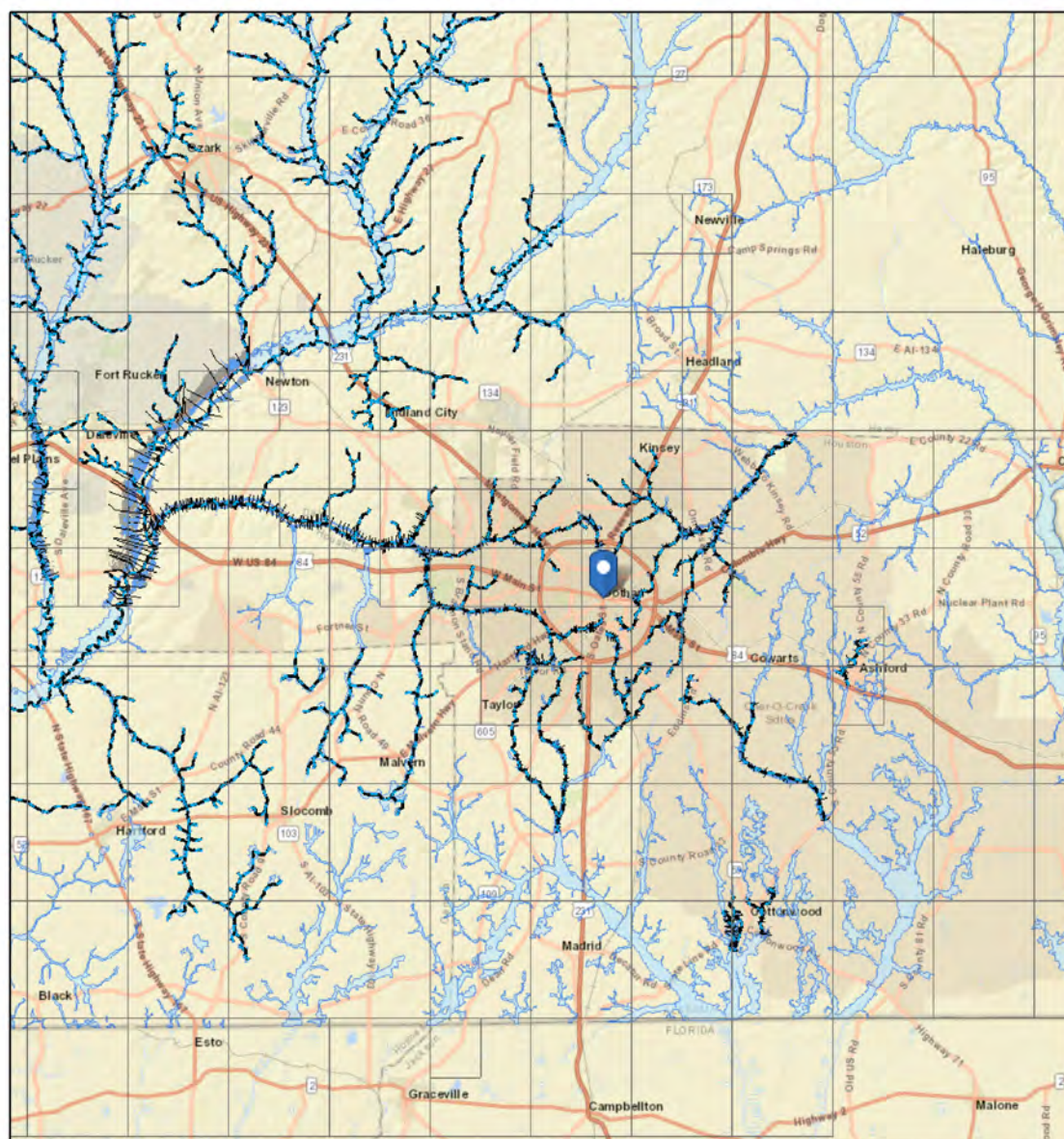




Figure 4.105: Gordon Flood Hazard Areas

### Gordon, Alabama

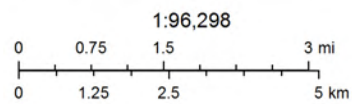


Figure 4.106: Kinsey Flood Hazard Areas

## Kinsey, Alabama

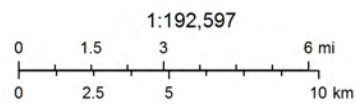
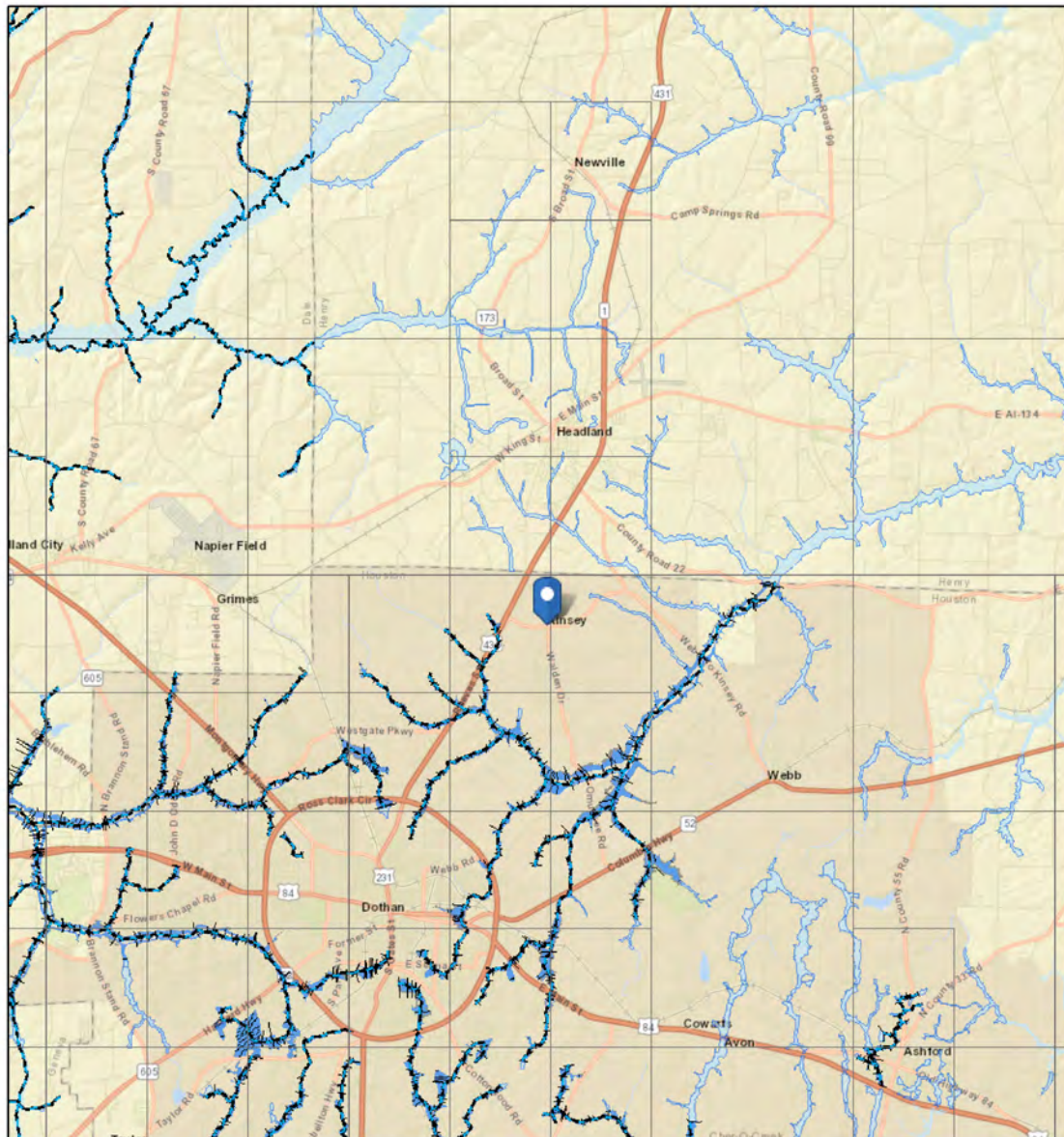
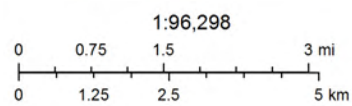
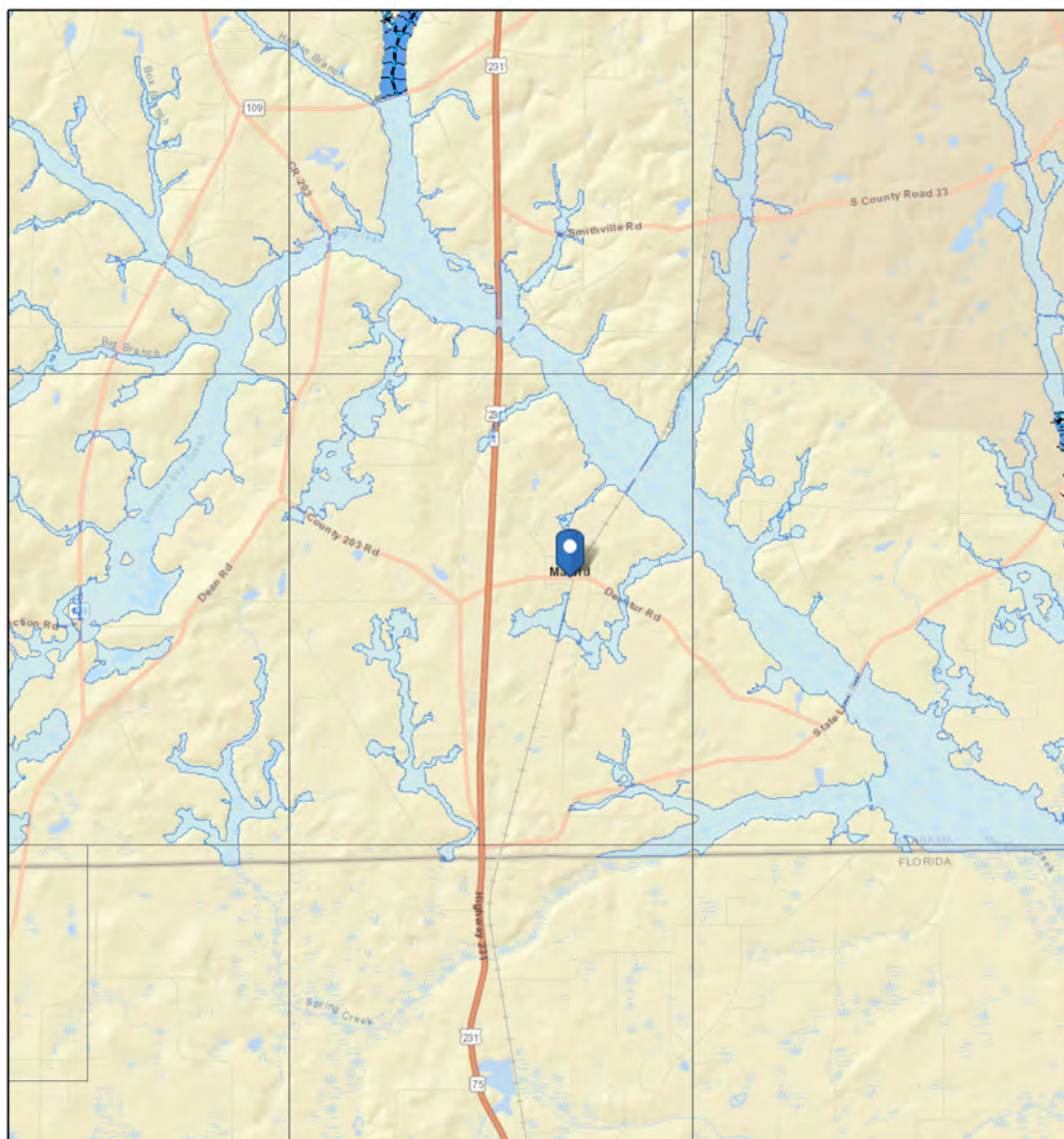




Figure 4.107: Madrid Flood Hazard Areas

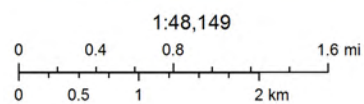
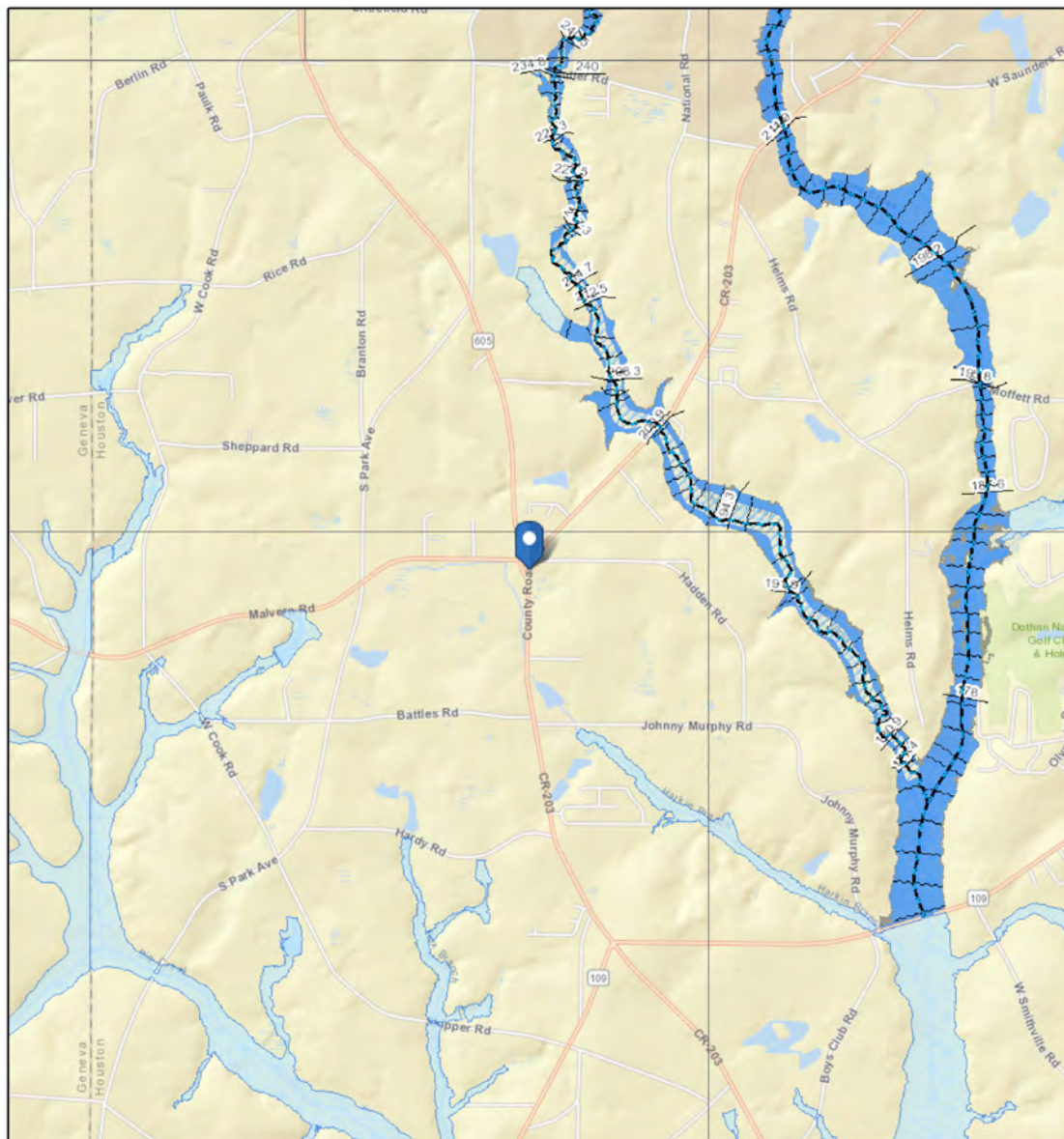
### Madrid, Alabama





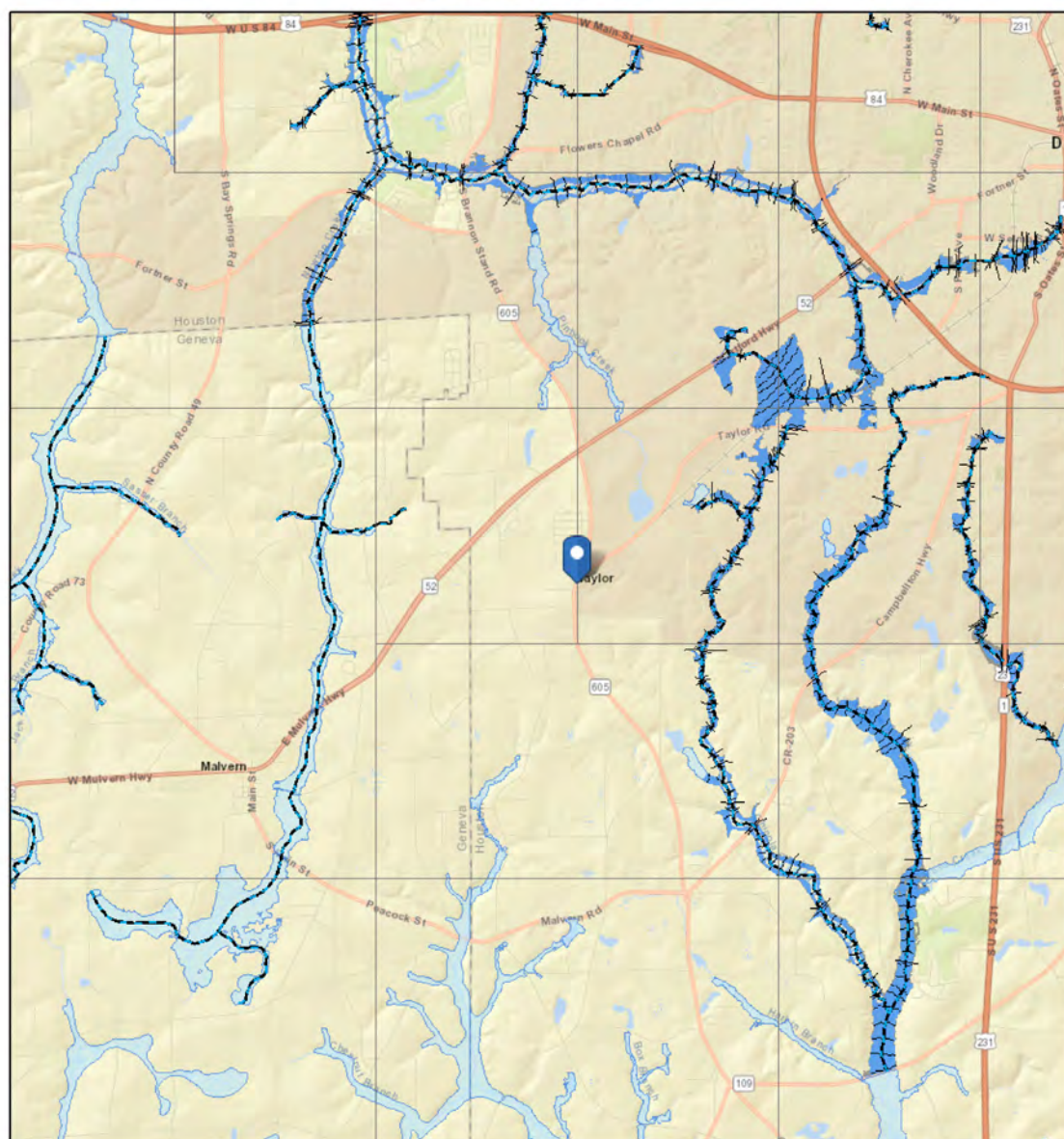
**Figure 4.108: Rehobeth Flood Hazard Areas (Includes Houston County Schools)**

# Rehobeth, Alabama



**Figure 4.109: Taylor Flood Hazard Areas**

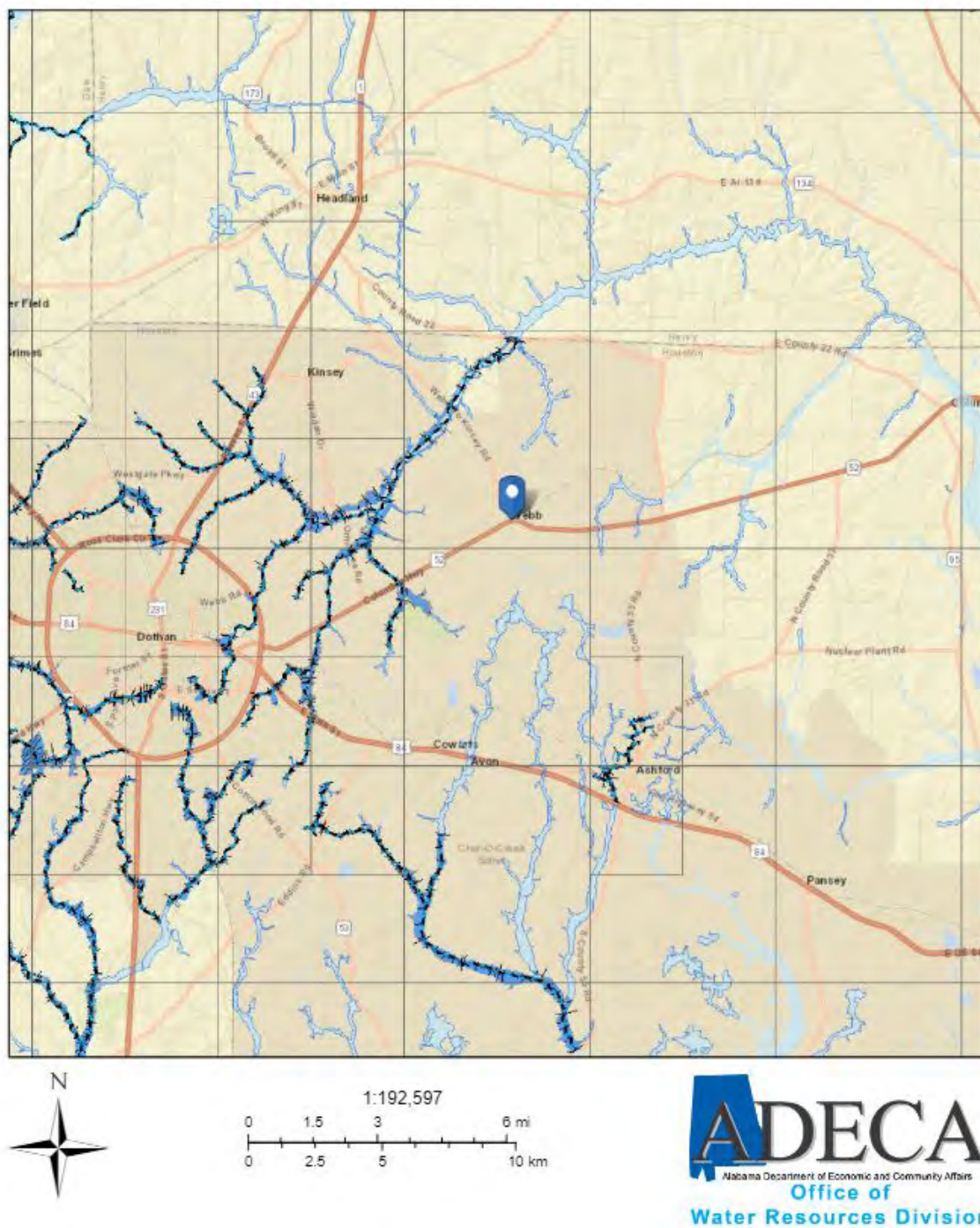
Taylor, Alabama





**Figure 4.110: Webb Flood Hazard Areas**

## Webb, Alabama





### Pike County

Flood Insurance Rate Maps (FIRM) have been developed for Pike County, however, there are varying effective dates for the five different jurisdictions in the county, as listed below:

- Town of Banks September 19, 2007
- City of Brundidge June 1, 1994
- Town of Goshen April 2, 1986
- City of Troy September 18, 1985
- Unincorporated Pike County August 1, 1987

No detailed FIRMs or base flood elevations have been developed for any part of the county.

The 2009 Pike County Flood Insurance Study states that although “there are no records of flooding problems found in readily available sources, available stage records for Conecuh River and Indian Creek near city of Troy, Alabama, indicate heavy discharge in Conecuh River in 1990 and Indian Creek in 1975 that could have resulted in significant flooding.”

Based on a review of the FRIS maps, the most significant flood plain in Pike County is associated with the Conecuh River, impacting the Town of Goshen and the northwest side of the City of Troy. Additionally, there are a number of smaller flood plains associated with tributaries to the Pea River which forms the eastern boundary of the county. These tributary flood plains extend from Troy and Brundidge south to the Pea River.

Along with the riverine flooding potential, there have been reports of flash flooding due to heavy rains in various locations throughout Pike County. Local reports also cite heavy rains for the cause of road washing and deterioration. Local reports have identified repetitive flood Pike County Road 4427 at the Barefoot Creek crossing, located southeast of Brundidge, and on Pike County Road 3319 at the Whitewater Creek crossing, located southwest of Brundidge.

The Pike County School System consist of several schools at various locations throughout the county. Troy City Schools are also located in Pike County. The Pike County School system and the Troy City Schools do not experience frequent riverine flooding and are not considered a flood hazard.

Figure 4.111: Pike County Flood Hazard Areas

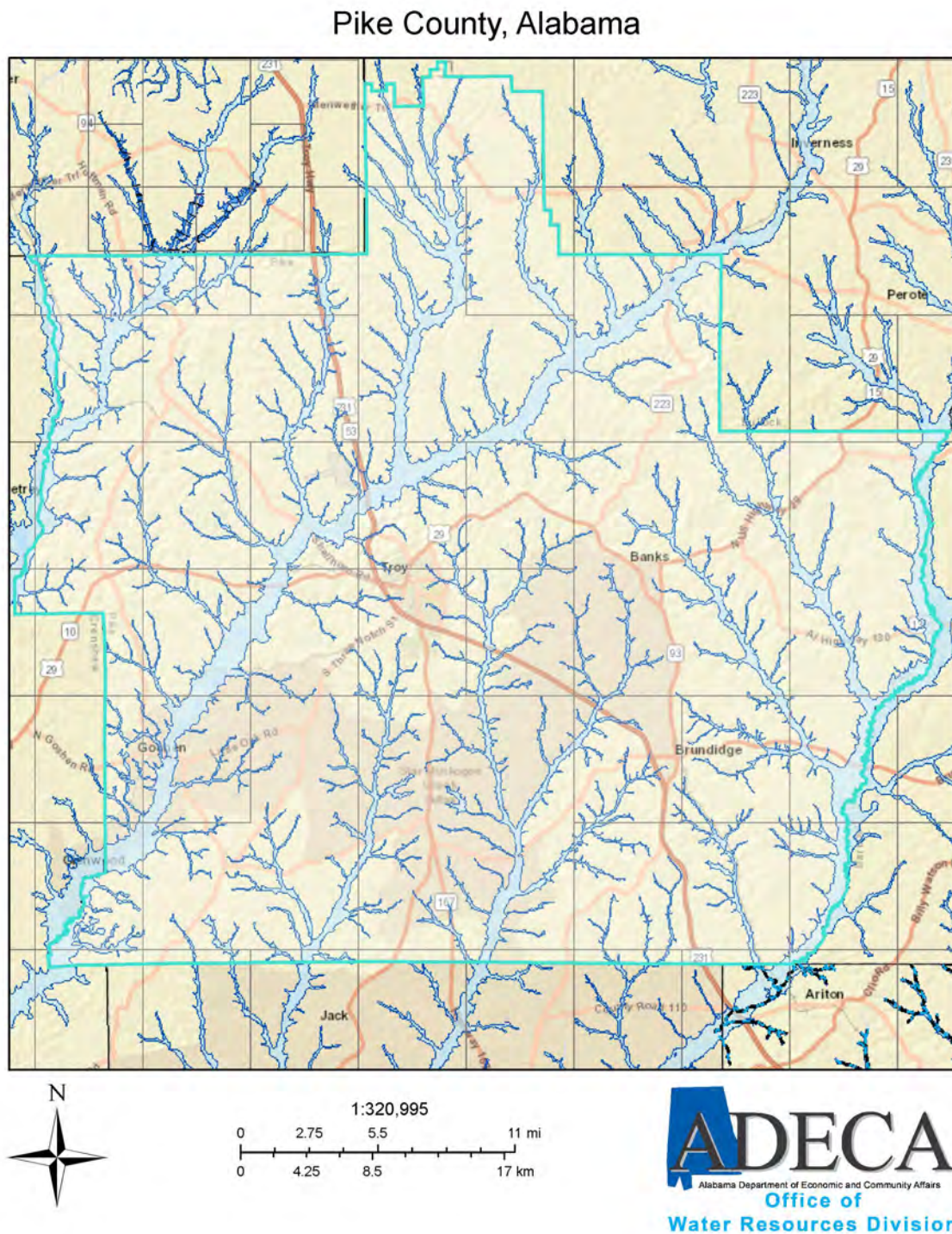


Figure 4.112: Town of Banks Flood Hazard Areas (Includes Pike County Schools)

### Banks, Pike County, Alabama

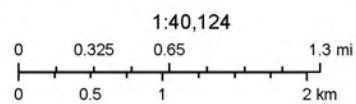




Figure 4.113: Brundidge Flood Hazard Areas (Includes Pike County Schools)

### Brundidge, Pike County, Alabama

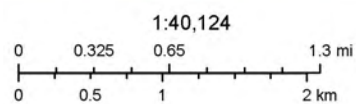


Figure 4.114: Town of Goshen Flood Hazard Areas (Includes Pike County Schools)

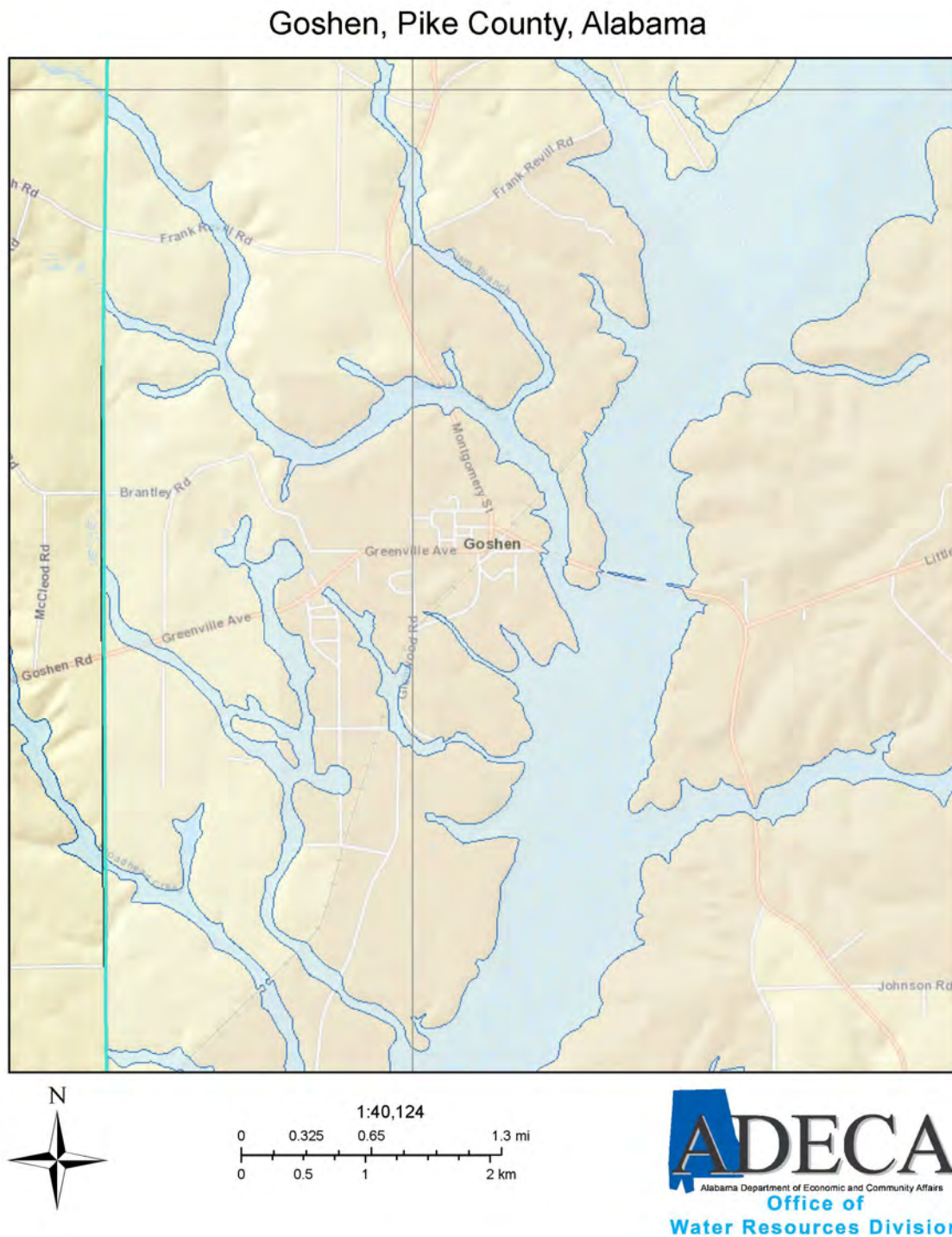
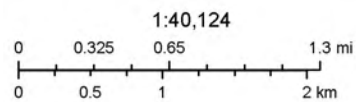
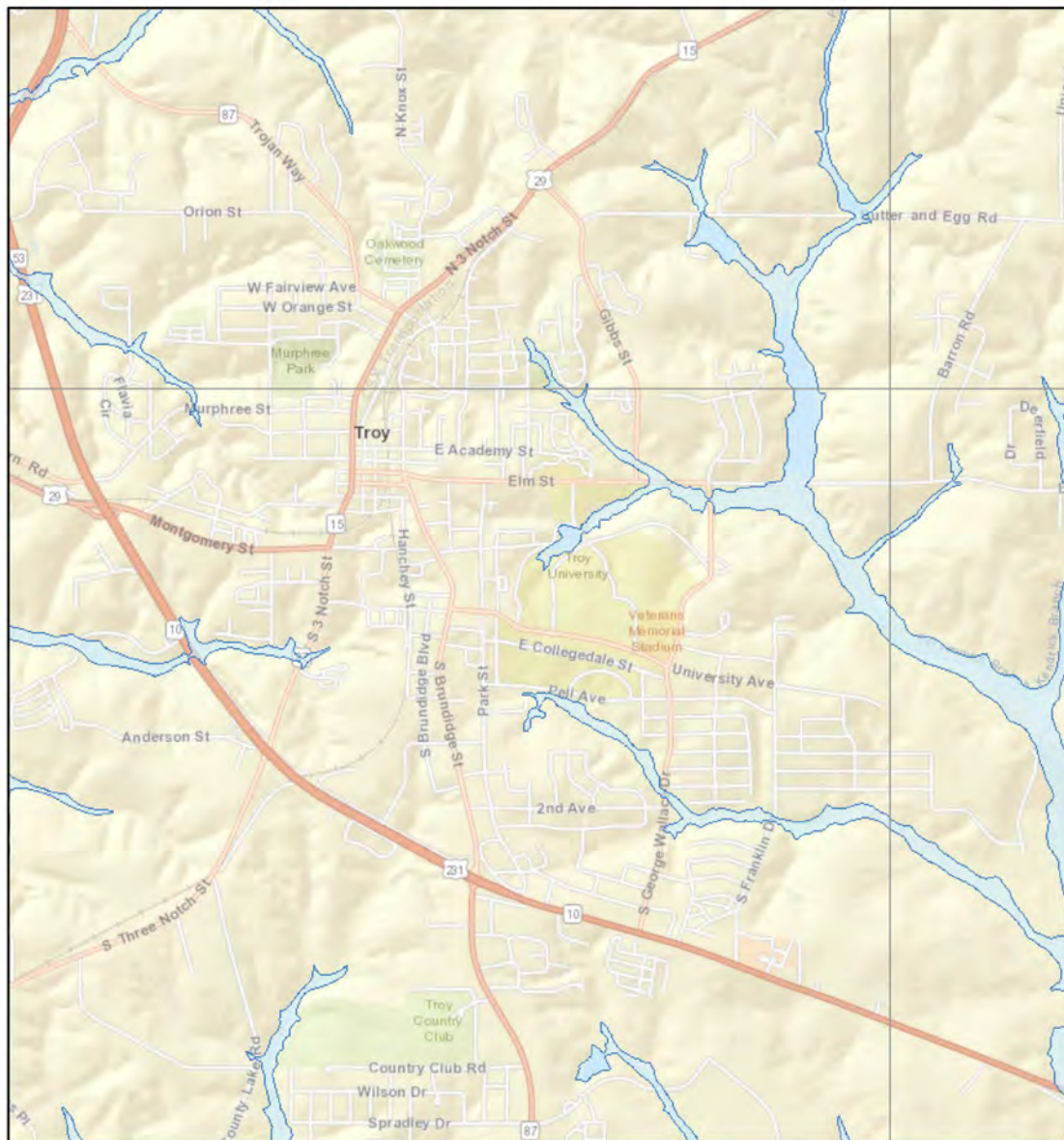




Figure 4.115: City of Troy Flood Hazard Areas (Includes Troy University)

# Troy, Pike County, Alabama





### ***Extent***

The severity of a riverine flood event is typically dependent on several factors, including drainage basin topography, recent precipitation and weather occurrences, and land surface. Periodic riverine flooding on adjacent lands is a natural occurrence. The most common method used to express flood frequency is a percent chance of occurrence in a given year, or annual probability within a FEMA identified floodplain. A 100-year flood event has a one percent (1%) chance of occurring in any year within that floodplain. However, these type floods can occur multiple times during a 100-year period. Within the floodplain, a flood event can be expected to inundate the area with several feet of water, which varies across the region, but can be upwards of almost two feet above flood stage as noted by the highest recorded floods described at multiple points in the region.

As stated in the flood location section, the effective FIRM maps are quite dated in some instance and very few base flood elevations have been developed in the AEMA Division B region, as shown on the map in Figure 13. Those areas that do have base flood elevations include Daleville, Dothan, Elba, Enterprise, Eufaula, Greenville, and Newton. Using the graphs available for those areas with base flood elevations in Butler County, Table 4.26 provides an estimated extent of possible flooding at some critical roads was in Greenville. These estimates are based on the increase between the base flood elevation and the 0.2 percent annual chance of flood at these specific roadway locations.

The extent of the flood hazard to Barbour County is primarily located in the City of Eufaula due to the presence of Lake Eufaula and the Chattahoochee River. Within the City of Eufaula, flooding problems are due primarily to the overflow of the Chattahoochee River and Lake Eufaula (Walter F. George Reservoir). At the East Fork Choctawhatchee River gage in rural Barbour County, the maximum average daily river level of 6.58 feet occurred on December 24, 2015, when the cumulative rainfall was 5.07 inches on December 23 and December 24. From this river gage, average daily river levels during the water year were either at or above normal, with maximum average daily river levels recorded in late December 2015.

**Table 4.26: Butler County Flood Insurance Study Cross Section Flood Extent**

<b>Waterbody</b>	<b>Road</b>	<b>Cross Section</b>	<b>0.2% Annual Chance Flood</b>	
Persimmon Creek Trib #4	Alabama Highway 10	H	1	ft
Persimmon Creek Trib #1	US Highway 31 (south of Halso Mill Road)	A-B	1	ft
	School Highland Road	G-H	1	ft
	Oglesby Street	I-J	1	ft
Persimmon Creek Trib #3 - Tanyard Creek	Cunningham Street	C	1	ft
	Commerce Street	F-G	1	ft
	First Street	H-I	1	ft
	Thames Street	K-L	1	ft
	North Conecuh Street	M-N	1	ft
Stallings Creek	Alabama Highway 10	D-E	1	ft
	Interstate 65 (north of Exit 130)	G-H	3	ft
Stallings Creek Trib #1	County Road 22	A-B	1	ft
Stallings Creek Trib #2	Alabama Highway 10 (west of I-65)	D-E	2	ft

The magnitude of flooding events is not available through the National Centers for Environmental Information and there are no local official records of flooding magnitude on file. Local verbal reports, however, state that flood waters reach as high as three feet on some roads in the southern part of Butler County, two to three feet in Crenshaw County, and one foot in Pike County. The extent of a flash flooding event varies greatly depending on the local geography and rainfall intensity and duration. Normally the extent of flash flooding is not as widespread as a riverine flooding event but is more variable due to the lack of advance warning before the occurrence of flooded streets and property damage that may occur during these events.

The extent of the flood hazard for Coffee County is primarily located in the City of Elba near the Pea River. The City of Elba has experienced frequent and extensive flooding through the years. Elba has recorded floods in 1990, 1992, 1998 and 2015. A river / precipitation gage located on U.S. Highway 84 on the Pea River provides constant data on the Pea River levels during times of heavy rainfall. 40.56 feet occurred on December 26, 2015, when the cumulative rainfall from December 21 through December 24, 2015, was 10.64 inches.

The extent of the flood hazard in Covington County is primarily located near the Yellow River and in low lying areas with poor drainage throughout the county. The Yellow River Alabama Highway 55 precipitation/river level gage is located at Alabama Highway 55 in Covington County on the Yellow River. The maximum average daily river level of 21.57 feet occurred on December 25, 2015 for the unadjusted values, when the cumulative rainfall from December 21 through December 24, 2015, was 4.32 inches. River levels during the entire 2016 water year were either within the normal range or above.

Dale County is one of the more flood prone counties in Division B because several bodies of water are located within the county. The primary rivers located in Dale County include the Pea River, the Choctawhatchee River and Claybank Creek. The Ariton precipitation/river level gage is located near Ariton on U.S. Highway 231 North in Dale County on the Pea River. River level data for this gage dates to February 27, 2000. The long-term hydrograph shows the periods of high river levels during rain events and low river levels during times of significantly less rainfall, along with the normal level of the river. From the hydrograph, the maximum average daily river level of 23.54 feet occurred on December 25, 2015, when the cumulative rainfall from December 21 through December 24, 2015, was 13.84 inches. The Daleville 1 precipitation/river level gage is located near Daleville on U.S. Highway 84 West in Dale County on Claybank Creek. River level data for this gage dates to August 2, 2000. The maximum average daily river level of 18.45 feet occurred on December 15, 2009, when the cumulative rainfall from December 12 through December 15, 2009, was 7.92 inches.

Geneva County is vulnerable to extensive flooding because of its proximity to the Pea River and the Choctawhatchee River. The levee has not been breached since construction; however, some local flooding has occurred within the protection area as a result of ponding of local runoff. Some development exists outside the levee which is subjected to flooding. Several residences along Watson Street and Westville Avenue are located in the Pea River floodplain. Residential areas exist on Cumbra Street and in the area across from the County Courthouse north of Maple Avenue that are in the floodplain of Double Bridges Creek. Several residences located on Highway 27 between Double Bridges Creek and Choctawhatchee River are subject to flooding. Geneva has had significant floods in The Geneva precipitation/river level gage is located near Geneva on

Alabama Highway 52 East in Geneva County on the Choctawhatchee River. River level data for this gage dates to March 17, 2000.

Henry County has experienced localized flooding from heavy rainfalls and poor drainage facilities. This flooding primarily occurs on rural county roads and unimproved dirt roads. A precipitation/river level gage is located near Alabama Highway 27 East in Henry County on the East Fork Choctawhatchee River. River level data for this gage dates to November 29, 2001. Data from the gage indicates the maximum average daily river level of 15.93 feet occurred on April 28, 2005, when the cumulative rainfall from April 26 through April 27, 2005, was 3.9794 inches. Data from the East Fork gage for the period of from 2001 through 2016 shows river levels during the water year were within the normal range or above during the majority of the year, with the exception of mid-March 2016 and parts of June, July, and August 2016. Maximum average daily river levels were recorded on January 1, 2016.

In Houston County the primary areas affected by riverine flooding in Houston County are along the Chattahoochee River, Choctawhatchee River, Little Choctawhatchee River, Newton Creek, Beaver Creek, Chipola Creek, Cowarts Creek, and Limestone Creek. Large floods occurred on Choctawhatchee River in 1929, 1960, 1970, and 2009. Other areas inside the floodplains are streams and creeks throughout the county and the municipalities. 15 Flooding problems in the Town of Cottonwood are primarily due to overflow of Boggy Creek, Buck Creek, and their tributaries. No records of major flooding or high-water marks are available. Rock Creek and Limestone Creek have experienced some flooding due to an increase in development of their drainage basins in the City of Dothan. Flooding problems occur on Rock Creek in various locations – structures flood west of Westgate Parkway and near Brookside Drive; water crossed Headland Avenue in July 1994; and flooding occurs on Rock Creek Tributary at Plaza Drive, Cherokee Drive, the Garden District, and Girard Ditch. Omusee Road Bridge abutment at Omusee Creek washed out during a March 1998 storm. On Poplar Springs Branch, Dunn Road is overtopped and structures on State Highway 52/Columbia Highway and Plant Street are flooded during heavy rains. On Cypress Creek, flooding has occurred in the Aberdeen and Shamrock Road area and at the intersection of Third Avenue and the Atlanta and St. Andrews Bay Railway. During the March 1998 storm, Cypress Creek Tributary 2 overtopped Mimosa Drive and State Highway 53/Cottonwood Road. Flowers Hospital, along with Grove Park, Chapel wood, and Spann Farm Subdivisions experience flooding from overland flow and lack of defined waterways. The flooding in March 2009 caused damage to approximately 350 structures, mostly residential and caused an estimated \$1.25 million in flood damage within Houston County. Flash flooding may potentially affect all residents of Houston County and cause runoff that becomes fast-rising waters that can cause property and street damage as well as casualties. Unlike riverine flooding, which can be forecasted over a few days, flash flooding is normally a quick onset hazard with little warning.

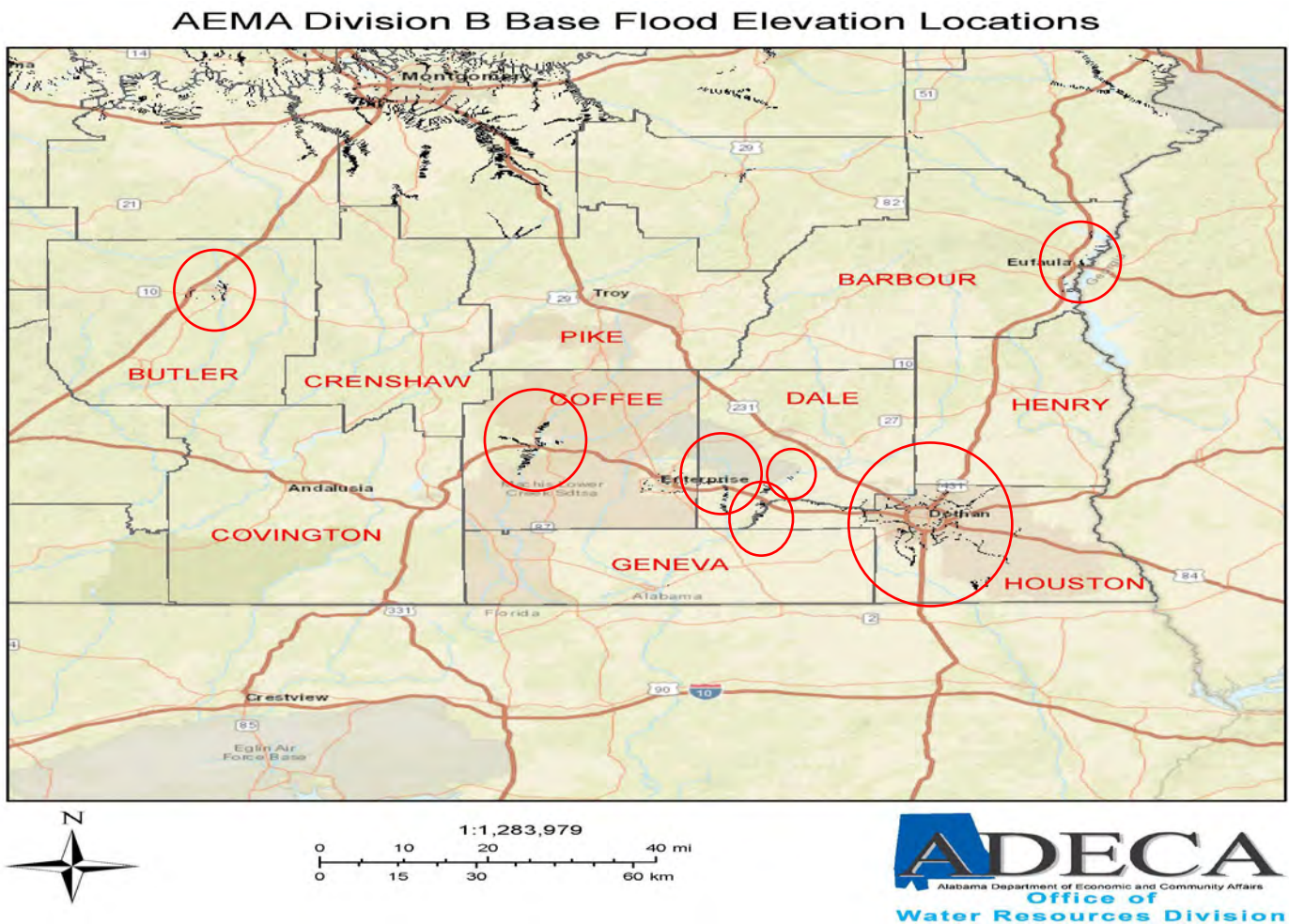
**Table 4.27: Butler County Flood Insurance Study Cross Section Flood Extent**

<b>Waterbody</b>	<b>Road</b>	<b>Cross Section</b>	<b>0.2% Annual Chance Flood</b>	
Persimmon Creek Trib #4	Alabama Highway 10	H	1	ft.
Persimmon Creek Trib #1	US Highway 31 (south of Halso Mill Road)	A-B	3.5	ft.
	School Highland Road	G-H	3	ft.
	Oglesby Street	I-J	5	ft.



Persimmon Creek Trib #3 - Tanyard Creek	Cunningham Street	C	1	ft.
	Commerce Street	F-G	3	ft.
	First Street	H-I	4	ft.
	Thames Street	K-L	4	ft.
	North Conecuh Street	M-N	4	ft.
Stallings Creek	Alabama Highway 10	D-E	1	ft.
	Interstate 65 (north of Exit 130)	G-H	3	ft.
Stallings Creek Trib #1	County Road 22	A-B	2	ft.
Stallings Creek Trib #2	Alabama Highway 10 (west of I-65)	D-E	2	ft.

**Figure 4.117: Base Flood Elevation Locations in AEMA Division B**



***Barbour County Historical Occurrences.***

Per National Centers for Environmental Information data, five flood events occurred in Barbour County from 2000 through 2020 that resulted in \$58,000 in property damage with no crop damage. Of the flooding events, two events were countywide, two events were in the unincorporated part of the county, and one event was in Eufaula. Table 4.28 provides a profile of flooding events in Barbour County.

Most recently Barbour County was included in disaster declaration 4563 which was declared as a results of Hurricane Sally which resulted in widespread rainfall and flooding events in Barbour County. Additionally, local residents report occasional minor flooding and road washing and erosion as a result of heavy rains and localized flash floods

**Table 4.28: Barbour County Flooding Events, 2000 to 2020**

DATE	LOCATION	Type of Event	Mag	Death	Injuries	Property Damage	Crop Damage
5/19/2001	COUNTYWIDE	Flash Flood		0	0	\$25,000	\$0
9/16/2004	COUNTYWIDE	Flash Flood		0	0	\$3,000	\$0
12/14/2009	EUFULA	Flash Flood		0	0	\$25,000	\$0
12/14/2009	TERESE	Flash Flood		0	0	\$5,000	\$0
12/24/2015	BAXTERS	Flash Flood		0	0	\$0	\$0
<b>Jurisdictional Summary: Flooding</b>							
Countywide		2 Events		0	0	\$28,000	\$0
Baker Hill		1 Event		0	0	\$0	\$0
Blue Springs		0 Events		0	0	\$0	\$0
Clayton		0 Events		0	0	\$0	\$0
Clio		0 Events		0	0	\$0	\$0
Eufaula		2 Events		0	0	\$30,000	\$0
Louisville		1 Events		0	0	\$0	\$0

#### ***Butler County Historical Occurrences.***

Per National Centers for Environmental Information data, ten flood events occurred in Butler County from 2000 through 2020 that resulted in \$620,000 in property damage with no crop damage. Of the flooding events, three events were countywide, three events were in the unincorporated part of the county, and four events were in Greenville. Table 4.29 provides a profile of flooding events in Butler County, as available from the National Centers for Environmental Information.

Most recently, Butler County was included in a federal disaster declaration, DR-4546, which was a result of strong storms and flooding. Additionally, local residents report occasional minor flooding and road washing and erosion as a result of heavy rains and localized flash floods. To date, there are no reported instances of repetitive structural loss due to flooding in the county; however, there are some local reports of road flooding in the southern part of Butler County.

The most significant flooding event occurred in 2015 and was the only riverine flood event in the 20-year period. The flooding was the result of several rounds of heavy rainfall that impacted southwest and south central Alabama at the end of December 2015. It is reported that locations received between six and eight inches of rain, and up to 15 inches in some locations. Earlier periods of heavy rain had helped to saturate ground conditions. Additional heavy rainfall from December 24<sup>th</sup> through early December 25<sup>th</sup> resulted in the flooding event. The extensive flooding of rivers, creeks, and streams impacted numerous roads. The response time for the flooding was generally greater than 6 hours and was the result of the long duration of the rain event. Two flash flood events resulted in property damage in 2001. Countywide flash flooding occurred in March 2001 when heavy rains across the area caused secondary roads to washout in many areas. Radar estimated that four to six inches of rainfall fell across the area. On November 24, 2001, a small

earthen dam, located near Alabama Highway 10 west of Interstate 65 in Greenville, broke and resulted in the closure of some side roads.

**Table 4.29: Butler County Flooding Events, 2000 to 2020**

Date	Location	Type of Event	Mag.	Death	Injuries	Property Damage	Crop Damage
3/3/2001	Butler County	Flash Flood		0	0	\$10,000	\$0
11/24/2001	Greenville	Flash Flood		0	0	\$10,000	\$0
7/10/2005	Butler County	Flash Flood		0	0	\$0	\$0
8/29/2005	Butler County	Flash Flood		0	0	\$0	\$0
9/4/2012	Greenville	Flash Flood		0	0	\$0	\$0
9/4/2012	Greenville	Flash Flood		0	0	\$0	\$0
9/4/2012	Greenville - Mun. Airport	Flash Flood		0	0	\$0	\$0
12/24/2015	Unincorp. Butler County: Searcy	Flood		0	0	\$600,000	\$0
6/22/2017	Unincorp. Butler County: Chapman	Flash Flood		0	0	\$0	\$0
5/29/2018	Unincorp. Butler County: Searcy	Flash Flood		0	0	\$0	\$0
<b>Total</b>		<b>10 Events</b>		<b>0</b>	<b>0</b>	<b>\$620,000</b>	<b>0</b>
<b>Jurisdictional Summary: Flooding</b>							
Countywide		3 Events		0	0	\$10,000	\$0
Georgiana		0 Events		0	0	\$0	\$0
Greenville		4 Events		0	0	\$10,000	\$0
McKenzie		0 Events		0	0	\$0	\$0
Unincorporated Butler County		3 Events		0	0	\$600,000	\$0

Source: NOAA, National Centers for Environmental Information, Storm Events Database.

<https://www.ncdc.noaa.gov/stormevents/choosedates.jsp?statefips=1%2CALABAMA>

### ***Coffee County Historical Occurrences.***

Per National Centers for Environmental Information data, seven flood events occurred in Coffee County from 2000 through 2020 that resulted in \$1,785,000 in property damage with no crop damage. Of the flooding events, two events were countywide, two events were in the unincorporated part of the county, and one event was in Eufaula. Table 4.30 provides a profile of flooding events in Coffee County.

**Table 4.30: Coffee County Flooding Events, 2000 to 2020**

DATE	LOCATION	Type of Event	Mag	Death	Injuries	Property Damage	Crop Damage
12/10/2008	ELBA	Flood		0	0	\$0	\$0
12/10/2008	UNINCORP	Flood		0	0	\$5,000	\$0
12/11/2013	UNINCORP	Flood		0	0	\$60,000	\$0
4/18/2014	UNINCORP	Flood		0	0	\$0	\$0
12/24/2015	UNINCORP	Flood		0	0	\$0	\$0
10/08/2017	UNINCORP	Flood		2	0	\$1,720,000	\$0
10/08/2017	UNINCORP	Flood		0	0	\$0	\$0
<b>Jurisdictional Summary: Flooding</b>							
Elba		1 Event		0	0	\$0	\$0
Enterprise		0 Event		0	0	\$0	\$0
Kinston		0 Events		0	0	\$0	\$0



New Brockton	0 Events	0	0	\$0	\$0
Unincorporated County	6 Events	2	0	\$1,785,000	\$0

### ***Covington County Historical Occurrences.***

Per National Centers for Environmental Information data, twelve flood events (including flash floods) occurred in Covington County from 2000 through 2020 that resulted in \$3.26 million in property damage with no crop damage. Table 4.31 provides a profile of flooding events in Covington County

**Table 4.31: Covington County Flooding Events, 2000 to 2020**

Date	Location	Type of Event	Mag.	Death	Injuries	Property Damage	Crop Damage
3/3/2001	COUNTYWIDE	Flash Flood		0	0	\$10000	\$0
7/10/2005	NORTHWEST PORTION	Flash Flood		0	0	\$0	\$0
12/10/2008	ANDALUSIA	Flash Flood		0	0	\$0	\$0
12/14/2009	ANDALUSIA	Flash Flood		0	0	\$0	\$0
3/9/2011	HEATH	Flash Flood		0	0	\$0	\$0
3/9/2011	LIBERTYVILLE	Flash Flood		0	0	\$0	\$0
9/4/2012	ANDALUSIA	Flash Flood		0	0	\$0	\$0
5/14/2014	LOANGO	Flash Flood		0	0	\$0	\$0
5/14/2014	RIVER FALLS	Flash Flood		0	0	\$0	\$0
12/24/2015	EODA	Flood		0	0	\$3160000	\$0
8/8/2016	OPP	Flash Flood		0	0	\$0	\$0
5/28/2018	WATKINS BRIDGE	Flash Flood		0	0	\$0	\$0
<b>Total Flood Events</b>		<b>12 Events</b>		<b>0</b>	<b>0</b>	<b>\$3.26m</b>	<b>\$0</b>
<b>Jurisdictional Summary: Flooding</b>							
Countywide	1 Event			0	0	\$10,000	\$0
Andalusia	3 Events			0	0	\$0	\$0
Opp	1 Event			0	0	\$0	\$0
Libertyville	1 Event			0	0	\$0	\$0
Heath	1 Event			0	0	\$0	\$0
River Falls	1 Event			0	0	\$0	\$0
Unincorporated Covington County	7 Events			0	0	\$3.16m	\$0

### ***Crenshaw County Historical Occurrences.***

Per National Centers for Environmental Information data, Crenshaw County has experienced ten flood events between 2000 and 2020 that resulted in \$175,000 in property damage with no crop

damage. Of the flooding events, one event was countywide and four events were in the unincorporated part of the county. Luverne and Rutledge each had three events; and, Brantley and Petrey each had one event. Table 4.32 provides a profile of flooding events in Crenshaw County, as available from the National Centers for Environmental Information.

Of the 13 Crenshaw County flood events, 11 events were flash floods and two events were riverine flooding. Four of the flash flood events were due to heavy rainfall associated with hurricanes. Additionally, local residents report occasional minor flooding and road washing and erosion as a result of heavy rains and localized flash floods. To date, there are no reported instances of repetitive structural loss due to flooding in the county; however, there are some local reports of road flooding during heavy rains.

**Table 4.32: Crenshaw County Flooding Events, 2000 to 2020**

DATE	LOCATION	Type of Event	Mag	Death	Injuries	Property Damage	Crop Damage
3/3/2001	Countywide	Flash Flood		0	0	\$10,000	\$0
6/11/2001	Luverne	Flash Flood		0	0	\$0	\$0
12/24/2002	Luverne	Flash Flood		0	0	\$0	\$0
7/10/2005	Unincorporated West Portion	Flash Flood		0	0	\$0	\$0
8/25/2008	Petrey	Flash Flood		0	0	\$0	\$0
9/15/2008	Rutledge	Flash Flood		0	0	\$25,000	\$0
12/14/2009	Rutledge	Flash Flood		0	0	\$0	\$0
7/13/2013	Unincorporated Bullock	Flash Flood		0	0	\$0	\$0
12/14/2009	Unincorporated Highland Home	Flash Flood		0	0	\$0	\$0
12/14/2009	Brantley	Flash Flood		0	0	\$0	\$0
12/24/2015	Unincorporated Bullock	Flood		0	0	\$135,000	\$0
1/2/2017	Rutledge	Flash Flood		0	0	\$5,000	\$0
08/4/2017	Luverne	Flood		0	0	\$0	\$0
Countywide		1 Event		0	0	\$10,000	\$0
Luverne		3 Events		0	0	\$0	\$0
Rutledge		2 Events		0	0	30,000	\$0
Brantley		1 Event		0	0	\$0	\$0
Petrey		1 Event		0	0	\$0	\$0

Unincorporated	4 Events	0	0	\$135,000	\$0
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***Dale County Historical Occurrences.***

Per National Centers for Environmental Information data, six flood events occurred in Dale County from 2000 through 2020 that resulted in \$238,000 in property damage with no crop damage. Table 4.33 provides a profile of flooding events in Dale County.

**Table 4.33: Dale County Flooding Events, 2000 to 2020**

DATE	LOCATION	Type of Event	Death	Injuries	Property Damage	Crop Damage
3/3/2001	PINCKARD	Flash Flood	0	0	\$5,000	\$0
3/3/2001	MIDLAND CITY	Flash Flood	0	0	\$5,000	\$0
3/27/2005	COUNTYWIDE	Flash Flood	0	0	\$0	\$0
12/15/2009	WATERFORD	Flood	0	0	\$0	\$0
8/7/2012	LOWE ARMY HELIPORT	Flash Flood	0	0	\$0	\$0
7/13/2013	CURRYTOWN	Flash Flood	0	0	\$0	\$0
7/13/2013	CURRYTOWN	Flash Flood	0	0	\$0	\$0
7/13/2013	PINCKARD	Flash Flood	0	0	\$0	\$0
7/23/2013	MIDLAND CITY	Flood	0	0	\$0	\$0
7/23/2013	DILLARD	Flash Flood	0	0	\$0	\$0
4/8/2014	CLOPTON	Flood	0	0	\$50,000	\$0
4/18/2014	MARLEY MILL	Flood	0	0	\$0	\$0
4/18/2014	PLEASANT HILL	Flood	0	0	\$0	\$0
4/19/2015	PLEASANT HILL	Flash Flood	0	0	\$0	\$0
4/19/2015	DEAN CHURCH RD	Flash Flood	0	0	\$0	\$0
4/19/2015	OZARK	Flash Flood	0	0	\$0	\$0
4/19/2015	OZARK	Flash Flood	0	0	\$0	\$0
4/19/2015	DALE COUNTY LAKE	Flash Flood	0	0	\$0	\$0
4/19/2015	DILL	Flash Flood	0	0	\$0	\$0



4/19/2015	OZARK	Flash Flood	0	0	\$0	\$0
4/19/2015	LOWE ARMY HELIPORT	Flash Flood	0	0	\$10,000	\$0
4/19/2015	BEAMON	Flash Flood	0	0	\$10,000	\$0
4/19/2015	SKIPPERVILLE	Flash Flood	0	0	\$10,000	\$0
4/19/2015	GOLDBERG FIELD	Flash Flood	0	0	\$10,000	\$0
12/24/2015	HIGHWAY 231 PEA RIVER BRIDGE	Flood	0	0	\$178,000	\$0
4/1/2016	CURRYTOWN	Flash Flood	0	0	\$0	\$0
4/1/2016	GRIMES	Flash Flood	0	0	\$0	\$0
4/1/2016	CURRYTOWN	Flash Flood	0	0	\$0	\$0
4/1/2016	CURRYTOWN	Flash Flood	0	0	\$0	\$0
1/21/2017	OZARK	Flash Flood	0	0	\$0	\$0
Countywide		0	0	\$0	\$0	
Midland City		0	0	\$5,000	\$0	
Ozark		0	0	\$0	\$0	
Pinckard		0	0	\$5,000	\$0	
Skipperville		0	0	\$10,000	\$0	
Unincorporated Dale County		0	0	\$258,000	\$0	

***Geneva County Historical Occurrences.***

Per National Centers for Environmental Information data, thirty-eight flood events (including flash floods) occurred in Geneva County from 2000 through 2020 that resulted in \$3.215 million in property damage with no crop damage. Table 4.34 provides a profile of flooding events in Geneva County.

**Table 4.34: Geneva County Flooding Events, 2000 to 2020**

Date	Location	Type of Event	Mag.	Death	Injuries	Property Damage	Crop Damage
3/3/2001	SAMSON	Flash Flood		0	0	\$5,000	\$0
11/15/2006	HARTFORD	Flash Flood		0	0	\$5,000	\$0
3/28/2009	GENEVA	Flash Flood		0	0	\$0	\$0
8/7/2012	THURSTON	Flash Flood		0	0	\$0	\$0
2/11/2013	GENEVA	Flash Flood		0	0	\$50,000	\$0

2/11/2013	MALVERN	Flash Flood		0	0	\$100,000	\$0
2/11/2013	SLOCOMB	Flash Flood		0	0	\$0	\$0
2/11/2013	HARTFORD	Flash Flood		0	0	\$0	\$0
2/11/2013	MARL	Flash Flood		0	0	\$0	\$0
2/11/2013	MALVERN	Flash Flood		0	0	\$0	\$0
2/11/2013	Lowery	Flood		0	0	\$2.4m	\$0
2/22/2013	LYTLE	Flash Flood		0	0	\$0	\$0
2/23/2013	HARTFORD	Flash Flood		0	0	\$25,000	\$0
7/4/2013	Eunola	Flood		0	0	\$0	\$0
7/13/2013	GENEVA	Flash Flood		0	0	\$0	\$0
7/13/2013	OAK GROVE	Flash Flood		0	0	\$0	\$0
7/13/2013	HENDRIX CROSSROAD	Flash Flood		0	0	\$25,000	\$0
4/18/2014	Samson	Flood		0	0	\$0	\$0
4/18/2014	Hacoda	Flood		0	0	\$0	\$0
4/30/2014	SLOCOMB	Flash Flood		0	0	\$0	\$0
4/30/2014	BLACK	Flash Flood		0	0	\$0	\$0
4/30/2014	GENEVA MUNICIPAL ARPT	Flash Flood		0	0	\$0	\$0
12/24/2014	FADETTE	Flash Flood		0	0	\$5,000	\$0
12/24/2015	Lowery	Flood		0	0	\$451,000	\$0
12/30/2015	EARLYTOWN	Flash Flood		0	0	\$0	\$0
3/31/2016	MARL	Flash Flood		0	0	\$0	\$0
3/31/2016	COFFEE SPRINGS	Flash Flood		0	0	\$0	\$0
3/31/2016	BELLWOOD	Flash Flood		0	0	\$0	\$0
4/1/2016	PERA	Flash Flood		0	0	\$0	\$0
4/1/2016	SLOCOMB	Flash Flood		0	0	\$0	\$0
4/1/2016	Lowery	Flood		0	0	\$0	\$0
4/2/2016	Geneva	Flood		0	0	\$150,000	\$0
1/1/2017	Black	Flood		0	0	\$0	\$0
1/1/2017	Slocomb	Flood		0	0	\$0	\$0

1/1/2017	Black	Flood		0	0	\$0	\$0
2/11/2018	Slocomb	Flood		0	0	\$0	\$0
11/7/2018	SLOCOMB	Flash Flood		0	0	\$0	\$0
<b>Total Flood Events</b>		<b>38 Events</b>		<b>0</b>	<b>0</b>	<b>\$3.215 m</b>	<b>0</b>
<b>Jurisdictional Summary: Flooding</b>							
Countywide	0 Events			0	0	\$0	\$0
Slocomb	6 Events			0	0	\$0	\$0
Samson	3 Events			0	0	\$5,000	\$0
Black	2 Events			0	0	\$0	\$0
Unincorporated Geneva County	16 Events			0	0	\$2,881,000m	\$0
Geneva	5 Event			0	0	\$200,000	\$0
Hartford	3 Events			0	0	\$30,000	\$0
Malvern	2 Events			0	0	\$100,000	\$0

### ***Henry County Historical Occurrences.***

Per National Centers for Environmental Information data, nine flood events (including flash floods) occurred in Henry County from 2000 through 2020 that resulted in \$5.30m in property damage with no crop damage. Table 4.35 provides a profile of flooding events in Henry County.

**Table 4.35: Henry County Flooding Events, 2000 to 2020**

Date	Location	Type of Event	Death	Injuries	Property Damage	Crop Damage
3/8/1998	Henry Zone	Flood	0	0	\$5,000,000	\$0
6/30/2003	Headland	Flash Flood	0	0	\$5,000	\$0
9/5/2003	Henry Zone	Flood	0	0	\$0	\$0
3/27/2005	Countywide	Flash Flood	0	0	\$0	\$0
12/14/2009	Screamer	Flash Flood	0	0	\$0	\$0
12/24/2009	Abbeville	Flash Flood	0	0	\$0	\$0
4/19/2015	Murphy Station	Flash Flood	0	0	\$0	\$0
4/19/2015	Abbeville	Flash Flood	0	0	\$0	\$0
12/24/2015	Coates	Flood	0	0	\$301,000	\$0
<b>Total Flood Events</b>		<b>12 Events</b>	<b>0</b>	<b>0</b>	<b>\$5.306m</b>	<b>\$0</b>
Countywide		0	0	\$0	\$0	
Abbeville		0	0	\$0	\$0	
Headland		0	0	\$5,000	\$0	
Newville		0	0	\$0	\$0	
Unincorporated Henry County		0	0	\$5.301m	\$0	



***Houston County Historical Occurrences.***

Per National Centers for Environmental Information data, thirty-eight flood events (including flash floods) occurred in Houston County from 2000 through 2020 that resulted in \$88m in property damage with no crop damage. Table 4.36 provides a profile of flooding events in Houston County.

**Table 4.36: Houston County Flooding Events, 2000 to 2020**

Date	Location	Type of Event	Death	Injuries	Property Damage	Crop Damage
3/8/1998	Houston Zone	Flood	0	0	\$850,000.00	\$0
9/5/2003	Houston Zone	Flood	0	0	\$0	\$0
1/1/2006	COUNTYWIDE	Flash Flood	0	0	\$10,000	\$0
3/28/2009	PETERMAN	Flash Flood	0	0	\$500,000	\$0
2/11/2013	DOTHAN	Flash Flood	0	0	\$1000	\$0
2/11/2013	ARDILLA	Flash Flood	0	0	\$0	\$0
2/11/2013	ASHFORD	Flash Flood	0	0	\$0	\$0
2/11/2013	WICKSBURG	Flood	0	0	\$760,000	\$0
2/22/2013	PLEASANT PLAINS	Flash Flood	0	0	\$0	\$0
2/22/2013	BRANNON STAND	Flash Flood	0	0	\$0	\$0
2/22/2013	SMYRNA	Flash Flood	0	0	\$0	\$0
2/22/2013	TAYLOR	Flash Flood	0	0	\$0	\$0
2/22/2013	PEARCE	Flash Flood	0	0	\$0	\$0
2/22/2013	PEARCE	Flash Flood	0	0	\$0	\$0
2/22/2013	POWER DAM ROAD	Flash Flood	0	0	\$0	\$0
2/22/2013	WICKSBURG	Flash Flood	0	0	\$0	\$0
2/22/2013	PETERMAN	Flash Flood	0	0	\$0	\$0
2/22/2013	DOTHAN	Flash Flood	0	0	\$0	\$0
2/22/2013	KELLY SPRINGS	Flash Flood	0	0	\$0	\$0
2/22/2013	DOTHAN	Flash Flood	0	0	\$0	\$0

2/23/2013	DOTHAN	Flash Flood	0	0	\$50,000	\$0
7/13/2013	WICKSBURG	Flash Flood	0	0	\$0	\$0
9/2/2013	TAYLOR	Flash Flood	0	0	\$0	\$0
9/23/2013	TAYLOR	Flash Flood	0	0	\$0	\$0
4/30/2014	MADRID	Flash Flood	0	0	\$0	\$0
4/30/2014	COLUMBIA	Flood	0	0	\$818,460	\$0
9/29/2015	GRANGEBURG	Flash Flood	0	0	\$0	\$0
9/29/2015	LOVE HILL	Flash Flood	0	0	\$0	\$0
11/1/2015	HOLLIS DAIRY RD	Flash Flood	0	0	\$0	\$0
12/24/2015	COLUMBIA	Flood	0	0	\$891,000	\$0
3/31/2016	TAYLOR	Flash Flood	0	0	\$0	\$0
3/31/2016	MEMPHIS	Flash Flood	0	0	\$0	\$0
3/31/2016	TAYLOR	Flash Flood	0	0	\$0	\$0
4/1/2016	WICKSBURG	Flash Flood	0	0	\$0	\$0
4/1/2016	GREEN ACRES	Flash Flood	0	0	\$0	\$0
4/1/2016	POWER DAM ROAD	Flash Flood	0	0	\$0	\$0
7/21/2016	LOVE HILL	Flash Flood	0	0	\$0	\$0
7/21/2016	KEYTONS	Flash Flood	0	0	\$0	\$0
7/21/2016	MERRITTS CROSSROADS	Flash Flood	0	0	\$20,000	\$0
12/5/2016	HODGESVILLE	Flood	0	0	\$0	\$0
12/5/2016	HODGESVILLE	Flood	0	0	\$0	\$0
12/5/2016	MADRID	Flood	0	0	\$0	\$0
12/5/2016	LOVE HILL	Flood	0	0	\$0	\$0
12/5/2016	GRANGEBURG	Flood	0	0	\$0	\$0
1/2/2017	REHOBETH	Flash Flood	0	0	\$0	\$0
2/11/2018	DOTHAN	Flood	0	0	\$0	\$0
2/11/2018	KINSEY	Flood	0	0	\$0	\$0
2/11/2018	JONES CROSSROADS	Flood	0	0	\$5,000	\$0
11/7/2018	PETERMAN	Flash Flood	0	0	\$0	\$0

4/23/2020	KELLY SPRINGS	Flash Flood	0	0	\$0	\$0
<b>Total Flood Events</b>		<b>38 Events</b>	<b>0</b>	<b>0</b>	<b>\$88.05 m</b>	<b>0</b>
Countywide		0	0	\$10000	\$0	
Dothan		0	0	\$51,000	\$0	
Taylor		0	0	\$0	\$0	
Ashford		0	0	\$0	\$0	
Unincorporated Houston County		0	0	\$85.53 m	\$0	
Kinsey		0	0	\$200,000	\$0	
Madrid		0	0	\$30,000	\$0	
Columbia		0	0	\$1.7 m	\$0	
Wicksburg		0	0	\$760,000	\$0	
Ardilla		0	0	\$0	\$0	
Rehobeth		0	0	\$0	\$0	

### ***Pike County Historical Occurrences.***

Per National Centers for Environmental Information data, Pike County has experienced ten flash flood events between 2000 and 2020 that resulted in \$10,000 in property damage with no crop damage. There have been no riverine flooding events reported. Of the flooding events, one event was countywide, three events were in the unincorporated part of the county, and four events were in Troy. Additionally, Brundidge and Goshen each experienced one event each. Table 4.37 provides a profile of flooding events in Pike County, as available from the National Centers for Environmental Information.

**Table 4.37: Pike County Flooding Events, 2000 to 2020**

Date	Location	Type of Event	Mag.	Death	Injuries	Property Damage	Crop Damage
9/2/2004	Countywide	Flash Flood		0	0	\$8,000	\$0
7/14/2005	Goshen	Flash Flood		0	0	\$2,000	\$0
8/23/2008	Troy	Flash Flood		0	0	\$0	\$0
8/21/2009	Brundidge	Flash Flood		0	0	\$0	\$0
8/21/2009	Unincorp	Flash Flood		0	0	\$0	\$0
3/23/2012	Troy	Flash Flood		0	0	\$0	\$0
7/30/2012	Unincorp	Flash Flood		0	0	\$0	\$0
7/30/2013	Troy	Flash Flood		0	0	\$0	\$0
12/24/2015	Unincorp	Flash Flood		0	0	\$0	\$0
8/10/2017	Troy	Flash Flood		0	0	\$0	\$0
<b>Total</b>		10 Events		<b>0</b>	<b>0</b>	<b>\$10,000</b>	<b>\$0</b>
<b>Pike County Jurisdictional Summary: Flooding</b>							
Countywide		1 Event		0	0	\$8,000	\$0
Banks		0 Events		0	0	\$0	\$0
Brundidge		1 Event		0	0	\$0	\$0
Goshen		1 Event		0	0	\$2,000	\$0
Troy		4 Events		0	0	\$0	\$0
Unincorporated Pike County		3 Events		0	0	\$0	\$0

Source: NOAA, National Centers for Environmental Information, Storm Events Database.  
<https://www.ncdc.noaa.gov/stormevents/choosedates.jsp?statefips=1%2CALABA>



### ***Probability of Future Events.***

Flooding is one of the most common hazards in the United States and kills an average of 150 people a year nationwide. While Butler, Crenshaw and Pike Counties are not highly susceptible to severe inundation of flood waters, they are highly susceptible to the rapid occurrence of flash floods that make parts of the county inaccessible by road and interrupt the delivery of services and the ability to respond in an emergency. The probability for future riverine flood events based on magnitude and using best available data is illustrated in the Flood Hazard Area Maps in Figures 4.38 through 4.115, which indicate the county and jurisdictional areas susceptible to the one-percent annual chance flood (100-year floodplain). The probability for future flash flood events is likely to continue to increase, especially in developed areas. In recent years, heavy rainfall events have caused widespread flash flooding that impacts roads and bridges in all parts of the counties. Therefore, the probability of future flood events is considered High throughout Butler County, except for McKenzie where there are no flood plains present. Due to the occurrence of past flash flood events, the probability of future flood events is considered high throughout Crenshaw and Pike Counties.

**Table 4.38: Flooding Summary and Probability by Jurisdiction**

<b>Jurisdiction</b>	<b>Historical Events</b>	<b>Maximum Extent</b>	<b>Probability of Impactful Future Events</b>
<b>Butler County</b>	<b>3 Events</b>	<b>3 feet</b>	<b>High</b>
Unincorporated Butler County	0 Events	3 feet	High
Georgiana	4 Events	3 feet	High
Greenville	0 Events	3 feet	Low
McKenzie	3 Events	None	High
<b>Crenshaw County</b>	<b>1 Event</b>	<b>2-3 feet</b>	<b>High</b>
Unincorporated Crenshaw County	1 Event	2-3 feet	High
Brantley	0 Events	2-3 feet	High
Dozier	0 Events	2-3 feet	High
Glenwood	3 Events	2-3 feet	High
Luverne	1 Event	2-3 feet	High
Petrey	3 Events	2-3 feet	High
Rutledge	4 Events	2-3 feet	High
<b>Coffee County</b>	<b>0 Events</b>	<b>2-3 feet</b>	<b>High</b>
Unincorporated Coffee County	6 Events	2-3 feet	High
Elba	1 Event	2-3 feet	High
Enterprise	0 Events	2-3 feet	High
Kinston	0 Events	Less than 1 foot	High
New Brockton	0 Events	Less than 1 foot	High
<b>Covington County</b>	<b>1 Event</b>	<b>2-3 feet</b>	<b>High</b>
Unincorporated Covington County	7 Events	2-3 feet	High
Andalusia	3 Events	2-3 feet	High
Babbie	0 Events	Less than 1 foot	High
Carolina	0 Events	Less than 1 foot	High
Floral	0 Events	2-3 feet	High
Gantt	0 Events	2-3 feet	High

Heath	1 Events	Less than 1 foot	High
Horn Hill	0 Events	Less than 1 foot	High
Libertyville	1 Events	Less than 1 foot	High
Lockhart	0 Events	Less than 1 foot	High
Opp	1 Events	Less than 1 foot	High
Onycha	1 Events	Less than 1 foot	High
Red Level	0 Events	Less than 1 foot	High
River Falls	1 Events	2-3 feet	High
Sanford	0 Events	Less than 1 foot	High
<b>Dale County</b>	<b>1 Event</b>	<b>2-3 feet</b>	<b>High</b>
Unincorporated Dale County	3 Events	Less than 1 foot	High
Ariton	0 Events	Less than 1 foot	High
Clayhatchee	0 Events	2-3 feet	High
Daleville	0 Events	2-3 feet	High
Grimes	0 Events	Less than 1 foot	High
Midland City	2 Events	2-3 feet	High
Napier Field	0 Events	2-3 feet	High
Newton	1 Event	2-3 feet	High
Ozark	4 Events	2-3 feet	High
Pinckard	2 Events	2-3 feet	High
<b>Geneva County</b>	<b>0 Events</b>	<b>2-3 feet</b>	<b>High</b>
Unincorporated Geneva County	10 Events	2-3 feet	High
Black	2 Events	2-3 feet	High
Geneva	5 Events	3-5 feet	High
Hartford	3 Events	2-3 feet	High
Malvern	2 Events	2-3 feet	High
Samson	3 Events	Less than 1 foot	High
Slocumb	6 Events	2-3 feet	High
<b>Henry County</b>	<b>1 Event</b>	<b>Less than 1 foot</b>	<b>High</b>
Unincorporated Henry County	6 Events	2-3 feet	High
Abbeville	2 Events	Less than 1 foot	High
Haleburg	0 Events	Less than 1 foot	High
Headland	1 Event	Less than 1 foot	High
Newville	0 Events	Less than 1 foot	High
<b>Houston County</b>	<b>1 Event</b>	<b>2-3 feet</b>	<b>High</b>
Unincorporated Houston County	17 Events	Less than 1 foot	High
Ashford	1 Event	2-3 feet	High
Avon	0 Events	Less than 1 foot	High
Columbia	2 Events	2-3 feet	High
Cottonwood	1 Events	2-3 feet	High
Cowarts	0 Events	Less than 1 foot	High
Dothan	5 Events	Less than 1 foot	High
Gordon	0 Events	2-3 feet	High
Kinsey	1 Event	Less than 1 foot	High
Madrid	2 Events	Less than 1 foot	High
Rehobeth	1 Event	Less than 1 foot	High
Taylor	5 Events	Less than 1 foot	High
Webb	0 Events	Less than 1 foot	High

<b>Pike County</b>	1 Event	<b>Less than 1 foot</b>	<b>High</b>
Unincorporated Pike County	0 Events	Less than 1 foot	High
Banks	1 Event	Less than 1 foot	High
Brundidge	1 Event	Less than 1 foot	High
Goshen	4 Events	Less than 1 foot	High
Troy	3 Events	Less than 1 foot	High

## **HIGH WINDS: HAIL, SEVERE STORMS, TORNADOES AND HURRICANES**

Although the National Centers for Environmental Information incident reports categorize hail, high winds, severe storms, thunderstorms and lightening, hurricanes and tornadoes as separate events, they are discussed together here because of the similarity and timing of these events, as well as their similar impacts. The common denominator in all these natural hazards is high winds. NCEI is the primary source of data for the High Wind hazards, covering a 20-year time period from January 2000 to May 31, 2020.

### ***Description.***

Hail is a form of solid precipitation that forms in strong thunderstorm clouds, particularly those with intense updrafts, high liquid water content, great vertical extent, large water droplets, and where a good portion of the cloud layer is below freezing. Hailstones generally fall at higher speeds as they grow in size, though complicating factors such as melting, friction with air, wind, and interaction with rain and other hailstones can slow their descent through Earth's atmosphere. Severe weather warnings are issued for hail when the stones reach a damaging size, as it can cause serious damage to human-made structures and, most commonly, farmers' crops.

Severe storms include thunderstorms and lightening. Thunderstorms are generated by atmospheric imbalance due to the combination of unstable warm air rising rapidly into the atmosphere, sufficient moisture to form clouds and rain, and an upward lift of air currents caused by colliding water fronts, sea breezes, or mountains. Thunderstorms can produce tornados and floods, hail, and high winds. A tornado is a violently rotating column of air extending from a thunderstorm to the ground. The most violent of tornados are capable of tremendous destruction with wind speeds of 250 miles per hour or more. Damage paths can be in excess of 1-mile wide and 50 miles long.

As defined by FEMA, a tropical cyclone is a generic term for a cyclonic, low-pressure system over tropical or subtropical waters. Hurricanes are intense tropical systems that generate winds in excess of 74 mph. These storms are generally characterized by thunderstorms and defined surface wind circulation. They can produce high winds, heavy rains, erosion, flooding, and spawn tornados. Extra-tropical storms generate similar effects but tend to occur in the fall or winter. Because tropical and extratropical cyclones are large, moving storm systems, they can impact not only coastal areas, but inland areas as well. Hurricanes Opal (1995), Ivan (2004), and Katrina (2005) are excellent examples of tropical systems having such a large impact inland.

While the AEMA Division B region is not necessarily susceptible to the full effects of a tropical cyclone making landfall along the coast, it is highly susceptible to the other events that occur or spawn off of the cyclonic system. Floods caused by the storm's rain can make parts of the county inaccessible by road and interrupt the delivery of services and the ability to respond in an emergency. Tornados spawned off of a hurricane can cause loss of life, injuries, and cause damage to buildings and infrastructure.



### ***Locations.***

The occurrence of hail, high winds, thunderstorms and lightning, tornadoes and hurricanes has not been isolated to any one part of the AEMA Division B region as described in each county. Butler County experienced a combined total of 126 high wind events that occurred in all part of the county. Of the total events, 15 events were countywide events, 30 events occurred in the unincorporated part of the county, 23 events occurred in Georgiana, 53 events occurred in Greenville, and five events occurred in McKenzie. Crenshaw County experienced a combined total of 140 high wind events that occurred in all part of the county. Of the total events, 13 events were countywide events, 55 events occurred in the unincorporated part of the county, 21 events occurred in Brantley, ten events occurred in Dozier, three events occurred in Glenwood, 28 events occurred in Luverne, one event occurred in Petrey, and nine events occurred in Rutledge. Pike County experienced a combined total of 171 high wind events that occurred in all part of the county. Of the total events, 67 events were countywide events, 48 events occurred in the unincorporated part of the county, nine events occurred in Brundidge, 11 events occurred in Goshen, three events occurred in Glenwood, and 36 events occurred in Troy.

### ***Extent.***

Severe thunderstorms are defined by the National Weather Service as having one or more of the following: wind speeds of 58 miles per hour or higher, producing hail at least three quarters inch (3/4") in diameter, or possessing tornadic capabilities. The effects of severe thunderstorms have varying spatial effects throughout an area from widespread to localized impacts. Severe thunderstorms with straight line winds that affect an area can create wind gusts up to the equivalence of an EF1 tornado. The extent of hail is measured using the TORRO Scale of the Tornado and Storm Research Organization that classifies the intensity of hail into ten categories based on size and probable kinetic energy, as shown in Table 4.39.

**Table 4.39: TORRO Hailstorm Intensity Scale**

Intensity Category		Typical Hail Diameter (mm)*	Probable Kinetic Energy, J-m <sup>2</sup>	Typical Damage Impacts
H0	Hard Hail	5	0-20	No damage
H1	Potentially Damaging	5-15	>20	Slight general damage to plants, crops
H2	Significant	10-20	>100	Significant damage to fruit, crops, vegetation
H3	Severe	20-30	>300	Severe damage to fruit and crops, damage to glass and plastic structures, paint and wood scored
H4	Severe	25-40	>500	Widespread glass damage, vehicle bodywork damage
H5	Destructive	30-50	>800	Wholesale destruction of glass, damage to tiled roofs, significant risk of injuries
H6	Destructive	40-60		Bodywork of grounded aircraft dented; brick walls pitted
H7	Destructive	50-75		Severe roof damage, risk of serious injuries
H8	Destructive	60-90		(Severest recorded in the British Isles) Severe damage to aircraft bodywork
H9	Super Hailstorms	75-100		Extensive structural damage. Risk of severe or even fatal injuries to persons caught in the open
H10	Super Hailstorms	>100		Extensive structural damage. Risk of severe or even fatal injuries to persons caught in the open

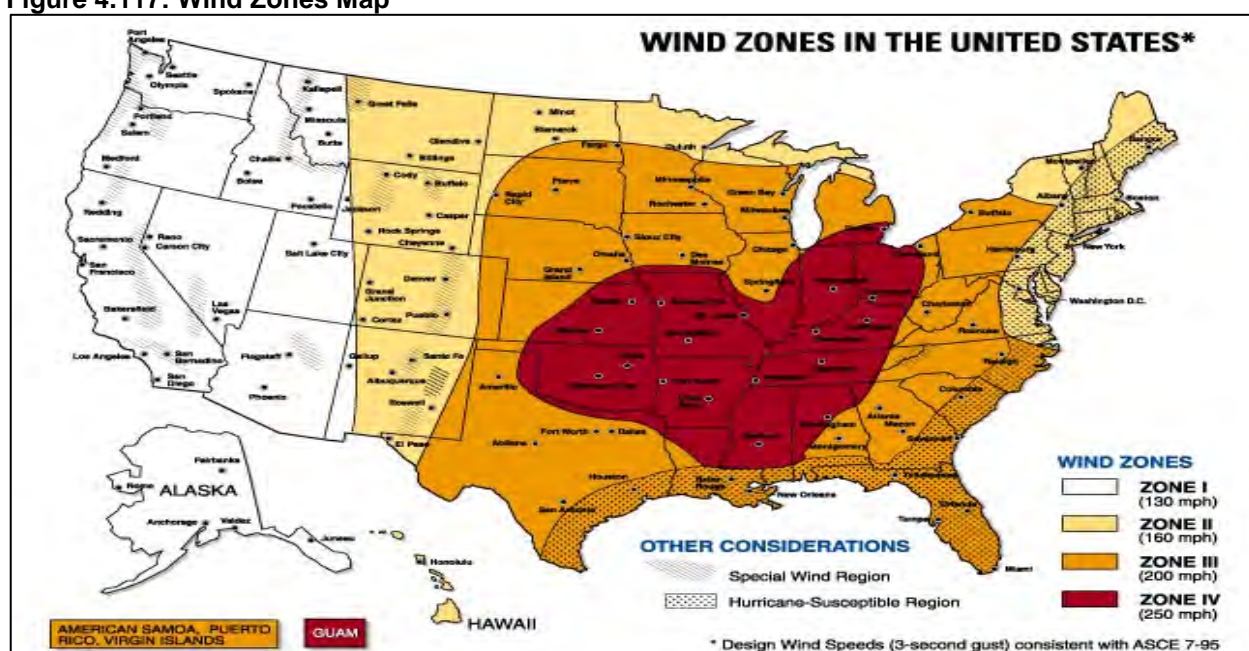
\* Approximate range (typical maximum size in bold), since other factors (e.g. number and density of hailstones, hail fall speed and surface wind speeds) affect severity.

Source: TORRO, The Tornado and Storm Research Organization; <http://www.torro.org.uk/hscale.php>

Just as all of the AEMA Division B region is susceptible to severe thunderstorms, the entire county is also susceptible to the lightning that often accompanies storm conditions. The National Weather Service describes lightning as a giant spark of electricity in the atmosphere of between the atmosphere and the ground. In the initial stages of development, air acts as an insulator between the positive and negative charges in the cloud and between the cloud and the ground; however, when the differences in charges becomes too great, this insulating capacity of the air breaks down and there is a rapid discharge of electricity that is known as lightning. The extent of lightning is measured as lightning density which is the number of lightning strikes over a given period of time.

Tornados are a significant hazard risk for the AEMA Division B region, not due to the frequency of events, but instead, due to the severity of destruction and the limited warning time for response. Butler County is located in Wind Zone III, as shown in Figure 4.117: Wind Zones of the United States map, which is associated with 200 miles per hour wind speeds. Tornado paths are not localized and have the potential to affect any portion of the entire county during a given event. Tornadoes are measured using the Enhanced Fujita Scale (Table 4.40) which assigns a tornado a rating based on estimated wind speeds and related damage.

Figure 4.117: Wind Zones Map



Source: Federal Emergency Management Agency; *Taking Shelter From the Storm: Building a Safe Room Inside Your Home*; [https://www.fema.gov/pdf/library/ism2\\_s1.pdf](https://www.fema.gov/pdf/library/ism2_s1.pdf).

**Table 4.40: Enhanced Fujita Scale**

Category	Sustained Winds	Types of Damage Due to Hurricane Winds
1	74-95 mph 64-82 kt 119-153 km/h	<b>Very dangerous winds will produce some damage:</b> Well-constructed frame homes could have damage to roof, shingles, vinyl siding and gutters. Large branches of trees will snap and shallowly rooted trees may be toppled. Extensive damage to power lines and poles likely will result in power outages that could last a few to several days.
2	96-110 mph 83-95 kt 154-177 km/h	<b>Extremely dangerous winds will cause extensive damage:</b> Well-constructed frame homes could sustain major roof and siding damage. Many shallowly rooted trees will be snapped or uprooted and block numerous roads. Near-total power loss is expected with outages that could last from several days to weeks.
3 (major)	111-129 mph 96-112 kt 178-208 km/h	<b>Devastating damage will occur:</b> Well-built framed homes may incur major damage or removal of roof decking and gable ends. Many trees will be snapped or uprooted, blocking numerous roads. Electricity and water will be unavailable for several days to weeks after the storm passes.
4 (major)	130-156 mph 113-136 kt 209-251 km/h	<b>Catastrophic damage will occur:</b> Well-built framed homes can sustain severe damage with loss of most of the roof structure and/or some exterior walls. Most trees will be snapped or uprooted and power poles downed. Fallen trees and power poles will isolate residential areas. Power outages will last weeks to possibly months. Most of the area will be uninhabitable for weeks or months.
5 (major)	157 mph or higher 137 kt or higher 252 km/h or higher	<b>Catastrophic damage will occur:</b> A high percentage of framed homes will be destroyed, with total roof failure and wall collapse. Fallen trees and power poles will isolate residential areas. Power outages will last for weeks to possibly months. Most of the area will be uninhabitable for weeks or months.

EF-scale	Class	Wind speed		Description
		mph	km/h	
EF-0	weak	65-85	105-137	Gale
EF-1	weak	86-110	138-177	Moderate
EF-2	strong	111-135	178-217	Significant
EF-3	strong	136-165	218-266	Severe
EF-4	violent	166-200	267-322	Devastating
EF-5	violent	> 200	> 322	Incredible

Source: National Weather Service. <https://www.weather.gov>

The Saffir-Simpson Hurricane Wind Scale is used to categorize tropical storms and hurricanes into five categories based on sustained wind speed. Besides the hurricane categories, there are two additional classifications for tropical depressions and tropical storms before these storms reach hurricane strength. Due to Butler County's inland location, it is very unlikely that the county will ever experience hurricane force winds greater than a Category 1. Table 4.41 outlines the Saffir-Simpson Scale categories, wind speeds for each category, and the anticipated damage sustained for each category. Hurricanes reaching Category 3 and higher are considered major hurricanes because of their potential for significant loss of life and damage. Category 1 and 2 storms are still dangerous, however, and require preventative measures.



**Table 4.41: Saffir-Simpson Hurricane Scale**

Category	Sustained Winds	Types of Damage Due to Hurricane Winds
1	74-95 mph 64-82 kt 119-153 km/h	<b>Very dangerous winds will produce some damage:</b> Well-constructed frame homes could have damage to roof, shingles, vinyl siding and gutters. Large branches of trees will snap and shallowly rooted trees may be toppled. Extensive damage to power lines and poles likely will result in power outages that could last a few to several days.
2	96-110 mph 83-95 kt 154-177 km/h	<b>Extremely dangerous winds will cause extensive damage:</b> Well-constructed frame homes could sustain major roof and siding damage. Many shallowly rooted trees will be snapped or uprooted and block numerous roads. Near-total power loss is expected with outages that could last from several days to weeks.
3 (major)	111-129 mph 96-112 kt 178-208 km/h	<b>Devastating damage will occur:</b> Well-built framed homes may incur major damage or removal of roof decking and gable ends. Many trees will be snapped or uprooted, blocking numerous roads. Electricity and water will be unavailable for several days to weeks after the storm passes.
4 (major)	130-156 mph 113-136 kt 209-251 km/h	<b>Catastrophic damage will occur:</b> Well-built framed homes can sustain severe damage with loss of most of the roof structure and/or some exterior walls. Most trees will be snapped or uprooted and power poles downed. Fallen trees and power poles will isolate residential areas. Power outages will last weeks to possibly months. Most of the area will be uninhabitable for weeks or months.
5 (major)	157 mph or higher 137 kt or higher 252 km/h or higher	<b>Catastrophic damage will occur:</b> A high percentage of framed homes will be destroyed, with total roof failure and wall collapse. Fallen trees and power poles will isolate residential areas. Power outages will last for weeks to possibly months. Most of the area will be uninhabitable for weeks or months.

Source: NOAA, National Centers for Environmental Information. <https://www.nhc.noaa.gov/aboutsshws.php>

**Table 4.42: Profile of Hail Events in Barbour County, 2000 to 2020**

Location	Date	Injuries	Property Damage	Crop Damage
TEXASVILLE	8/9/2000	0	\$0	\$0
CLAYTON	5/19/2001	0	\$2,000	\$0
BAKER HILL	6/21/2001	0	\$0	\$0
EUFAULA	3/31/2002	0	\$0	\$0
CLAYTON	4/30/2002	0	\$15,000	\$0
LOUISVILLE	5/11/2002	0	\$0	\$0
COMER	5/30/2002	0	\$0	\$0
LOUISVILLE	4/5/2003	0	\$8,000	\$0
EUFAULA	4/25/2003	0	\$0	\$0
TERESE	5/1/2003	0	\$0	\$0
BAKERHILL	5/1/2003	0	\$0	\$0
CLAYTON	5/18/2003	0	\$0	\$0
CLIO	4/8/2004	0	\$0	\$0
CLIO	4/12/2004	0	\$0	\$0
CLAYTON	4/12/2004	0	\$0	\$0
LOUISVILLE	3/22/2005	0	\$0	\$0
CLAYTON	3/22/2005	0	\$0	\$0
LOUISVILLE	3/26/2005	0	\$35,000	\$0
BAKERHILL	3/26/2005	0	\$4,000	\$0
CLAYTON	3/26/2005	0	\$5,000	\$0
BAKERHILL	3/26/2005	0	\$4,000	\$0

BATESVILLE	3/26/2005	0	\$0	\$0
BATESVILLE	3/27/2005	0	\$0	\$0
BAKERHILL	4/22/2005	0	\$1,000	\$0
LOUISVILLE	4/22/2005	0	\$1,000	\$0
MT ANDREW	4/22/2005	0	\$1,000	\$0
CLIO	4/22/2005	0	\$1,000	\$0
COMER	12/28/2005	0	\$0	\$0
EUFAULA	12/28/2005	0	\$0	\$0
TEXASVILLE	12/28/2005	0	\$0	\$0
CLAYTON	12/28/2005	0	\$6,000	\$0
CLAYTON	4/22/2006	0	\$0	\$0
BAKERHILL	5/14/2006	0	\$0	\$0
SPRING HILL	2/17/2008	0	\$0	\$0
ALSTON	6/25/2008	0	\$0	\$0
EUFAULA	3/26/2011	0	\$0	\$0
EUFAULA	3/27/2011	0	\$0	\$0
MT ANDREW	5/6/2012	0	\$0	\$0
AKINSVILLE	4/5/2017	0	\$0	\$0
BLUE SPRINGS	4/5/2017	0	\$0	\$0
EUFAULA	4/5/2017	0	\$0	\$0
ALSTON	4/5/2017	0	\$0	\$0
<b>Total Hail Events</b>		0	\$83,000	\$0
Countywide		0	\$0	\$0
Baker Hill		0	\$9,500	\$0
Blue Springs		0	\$0	\$0
Clayton		0	\$12,500	\$0
Clio		0	\$4,000	\$0
Louisville		0	\$0	\$0
Eufaula		0	\$8,000	\$0
Unincorporated Barbour County		0	\$49,000	\$0

Source: NOAA, National Centers for Environmental Information. <https://www.nhc.noaa.gov/aboutsshws.php>

**Barbour County Extent.** Hail and thunderstorms have been common events for Barbour County and its municipalities in the past and will continue to be so in the future. The effects of severe thunderstorms have varying spatial effects throughout Barbour County from widespread to localized impacts. Severe thunderstorms with straight line winds that affect Barbour County can create wind gusts up to the equivalence of an EF1 tornado. All jurisdictions in Barbour County have experienced thunderstorm events. Of the recorded thunderstorm events, wind speeds have generally ranged between 50 and 60 miles per hour; however, on one occasion, wind speeds have reached 70 miles per hour. This event occurred in the unincorporated part of Barbour County in the Bethel areas.

Tornados are a significant hazard risk for Barbour County, not due to the frequency of events, but instead, due to the severity of destruction and the limited warning time for response. Barbour County is located in Wind Zone III, as shown in Figure 4.117: Wind Zones of the United States map, which is associated with 200 miles per hour wind speeds. Tornado paths are not localized and have the potential to affect any portion of the entire county during a given event. Tornadoes are measured using the Enhanced Fujita Scale (Table 4.40) which assigns a tornado a rating based on estimated wind speeds and related damage. A total of 28 tornadoes have impacted all jurisdictions of Barbour County between 2000 and 2020. Of these twenty eight tornadoes, fourteen were EF0, ten were EF1, and four EF2 tornadoes' struck Barbour County. Combined, the twenty eight tornadoes resulted in four injuries and \$750,000 in property damage.

Barbour County has been impacted by four tropical storm and no hurricanes. In 2005, spinoff storms from Hurricane Katrina caused about \$500,000 worth of damage across the county, primarily by trees that were blown down. Also in 2005, Tropical Storm Dennis caused about \$27,000 in property damage in Barbour County.

**Butler County Extent.** Hail and thunderstorms have been common events for Butler County and its municipalities in the past and will continue to be so in the future. Between 2000 and 2020, Butler County has had 22 hail events and 65 thunderstorm events with high winds, heavy rains, and/or lightning. The hail and thunderstorm events have caused two deaths, four injuries and an estimated \$1.28 million in property damages. All jurisdictions in Butler County, with the exception of McKenzie have a record of hail events. Most of the hail events have ranged between H2 – Significant and H4 – Severe. One event in Greenville in March 2003 reported hail 1.75 inches in size, which would be in the H6—Destructive category.

All jurisdictions in Butler County have experienced thunderstorm events. Of the recorded thunderstorm events, wind speeds have generally ranged between 50 and 60 miles per hour; however, on four occasions, wind speeds have reached between 70 and 83 miles per hour. These events occurred in Greenville, McKenzie and in the unincorporated part of Butler County in the Butler Springs and Chapman areas.

According to the National Weather Service National Lightning Detection Network Map, the majority of Butler County averages 96 to 160 strikes. There have been four recorded lightning events in Butler County between 2000 and 2020: two in Georgiana and two in Greenville.

A total of 12 tornadoes have impacted all jurisdictions of Butler County between 2000 and 2020. Of these tornadoes, seven were EF0, four were EF1, and one EF2 tornado struck Greenville on April 15, 2011. Combined, the 12 tornadoes resulted in three injuries and \$561,000 in property damage.

The extent of hurricane impact in Butler County during the last 20 years is estimated to be tropical storm level with winds between 50 and 60 miles per hour and approximately \$200,000 in damage from one recorded event. The largest hurricane to impact Butler County, however, occurred in early October 1995 when Hurricane Opal landed as a Category 4 hurricane in the Florida panhandle. As Opal came across Butler County, it was still a Category 1 hurricane, with winds of 92 miles per hour.



**Coffee County Extent.** Hail and thunderstorms have been common events for Coffee County and its municipalities in the past and will continue to be so in the future. Between 2000 and 2020, Coffee County has had 41 hail events and 87 thunderstorm events with high winds, heavy rains, and/or lightening. The hail and thunderstorm events have caused an estimated \$83,000 in property damages.

All jurisdictions in Coffee County, have a record of hail events. The extent of hail is measured using the TORRO Scale of the Tornado and Storm Research Organization that classifies the intensity of hail into ten categories based on size and probable kinetic energy. See Table 4.42. Most of the hail events have ranged between H2 – Significant and H4 – Severe. One event in Eufaula in April 2005 reported hail 2.5 inches in size, which would be in the H6—Destructive category.

Severe thunderstorms are defined by the National Weather Service as having one or more of the following: wind speeds of 58 miles per hour or higher, producing hail at least three quarters inch (3/4”) in diameter, or possessing tornadic capabilities. The effects of severe thunderstorms have varying spatial effects throughout Coffee County from widespread to localized impacts. Severe thunderstorms with straight line winds that affect Coffee County can create wind gusts up to the equivalence of an EF1 tornado. All jurisdictions in Coffee County have experienced thunderstorm events. Of the recorded thunderstorm events, wind speeds have generally ranged between 50 and 60 miles per hour; however, on one occasion, wind speeds have reached 70 miles per hour. This event occurred in the unincorporated part of Coffee County in the Bethel areas.

Tornados are a significant hazard risk for Coffee County, not due to the frequency of events, but instead, due to the severity of destruction and the limited warning time for response. Coffee County is located in Wind Zone III, as shown in Figure 14: Wind Zones of the United States map, which is associated with 200 miles per hour wind speeds. Tornado paths are not localized and have the potential to affect any portion of the entire county during a given event. Tornadoes are measured using the Enhanced Fujita Scale (Table 4.40) which assigns a tornado a rating based on estimated wind speeds and related damage. A total of 28 tornadoes have impacted all jurisdictions of Coffee County between 2000 and 2020. Of these twenty eight tornadoes, fourteen were EF0, ten were EF1, and four EF2 tornadoes’ struck Coffee County. Combined, the twenty eight tornadoes resulted in four injuries and \$750,000 in property damage.

The Saffir-Simpson Hurricane Wind Scale is used to categorize tropical storms and hurricanes into five categories based on sustained wind speed. Besides the hurricane categories, there are two additional classifications for tropical depressions and tropical storms before these storms reach hurricane strength. Because Coffee County is located only 80 miles from the Gulf of Mexico it is likely to experience hurricane strength winds at some time. Table 4.13 outlines the Saffir- Simpson Scale categories, wind speeds for each category, and the anticipated damage sustained for each category. Hurricanes reaching Category 3 and higher are considered major hurricanes because of their potential for significant loss of life and damage. Category 1 and 2 storms are still dangerous, however, and require preventative measures.

Coffee County has been impacted by four tropical storm and no hurricanes. In 2005, spinoff storms from Hurricane Katrina caused about \$500,000 worth of damage across the county,

primarily by trees that were blown down. Also in 2005, Tropical Storm Dennis caused about \$27,000 in property damage in Coffee County.

**Covington County Extent.** Hail and thunderstorms have been common events for Covington County and its municipalities in the past and will continue to be so in the future. Between 2000 and 2020, Covington County has had 18 hail events and 178 thunderstorm events with high winds, heavy rains, and/or lightening. The hail and thunderstorm events have caused zero deaths, one injury and an estimated \$565,651 in property damages.

All municipalities in Covington County, with the exception of Newville have a record of hail events. The extent of hail is measured using the TORRO Scale of the Tornado and Storm Research Organization that classifies the intensity of hail into ten categories based on size and probable kinetic energy. See Table 4.45. Most of the hail events have ranged between H2 – Significant and H4 – Severe. Five events in Covington County from 2004-2011 reported hail 2.5 inches in size or larger, which would be in the H6—Destructive category.

Severe thunderstorms are defined by the National Weather Service as having one or more of the following: wind speeds of 58 miles per hour or higher, producing hail at least three quarters inch (3/4”) in diameter, or possessing tornadic capabilities. The effects of severe thunderstorms have varying spatial effects throughout Covington County from widespread to localized impacts. Severe thunderstorms with straight line winds that affect Covington County can create wind gusts up to the equivalence of an EF1 tornado. All jurisdictions in Covington County have experienced thunderstorm events.

Tornados are a significant hazard risk for Covington County, not due to the frequency of events, but instead, due to the severity of destruction and the limited warning time for response. Covington County is located in Wind Zone III, as shown in Figure 4.117: Wind Zones of the United States map, which is associated with 200 miles per hour wind speeds. Tornado paths are not localized and have the potential to affect any portion of the entire county during a given event. Tornadoes are measured using the Enhanced Fujita Scale (Table 4.40 which assigns a tornado a rating based on estimated wind speeds and related damage. A total of 20 tornadoes have impacted all jurisdictions of Covington County between 2000 and 2020. Of these tornadoes, thirteen were EF0, five were EF1, two EF2, and zero EF3. The most destructive tornado struck Beck on February 17, 2008. Combined, the 20 tornadoes resulted in two deaths, three injuries and \$4.34m in property damage.

The Saffir-Simpson Hurricane Wind Scale is used to categorize tropical storms and hurricanes into five categories based on sustained wind speed. Besides the hurricane categories, there are two additional classifications for tropical depressions and tropical storms before these storms reach hurricane strength. Due to Covington County’s inland location, it is very unlikely that the county will ever experience hurricane force winds greater than a Category 1. Table 4.41 outlines the Saffir- Simpson Scale categories, wind speeds for each category, and the anticipated damage sustained for each category. Hurricanes reaching Category 3 and higher are considered major hurricanes because of their potential for significant loss of life and damage. Category 1 and 2 storms are still dangerous, however, and require preventative measures. Covington County has been impacted by seven tropical storms and one hurricane. All seven tropical storms resulted in \$1.708m in property damage.

**Crenshaw County Extent.** Between 2000 and 2020, Butler County has had 16 hail events and 83 thunderstorm events with high winds, heavy rains, and/or lightning. The hail and thunderstorm events have caused an estimated \$1.58 million in property damages. All jurisdictions in Crenshaw County, with the exception of Glenwood and Petrey have a record of hail events. Most of the hail events have ranged between H2 – Significant and H3 – Severe. In four events, however, the reported hail 1.75 inches (44.45 mm) in size, which would be in the H6—Destructive category. Three of the destructive hail events occurred in the unincorporated parts of the county in the Bradleyton, Highland Home and Honoraville communities, and one event occurred in Luverne.

All jurisdictions in Crenshaw County have experienced thunderstorm events. Of the recorded thunderstorm events, wind speeds have generally ranged between 50 and 61 miles per hour; however, on two occasions, wind speeds have reached between 75 and 78 miles per hour. These events occurred in Luverne and in Dozier.

According to the National Weather Service National Lightning Detection Network Map, the northern part of Crenshaw County averages 64 to 96 strokes, while the southern part of the county generally averages 96 to 160 strokes. There have been no recorded lightning events in Crenshaw County between 2000 and 2020.

A total of 16 funnel clouds and tornadoes have impacted all jurisdictions of Crenshaw County, except Glenwood and Petrey between 2000 and 2020. Of these tornadoes, seven were EF0, five were EF1, and one EF2 tornado struck the Theba community in the unincorporated part of the county on January 4, 2015. Combined, the 12 tornadoes resulted in almost \$1.2 million in property damage but have caused no loss of life.

The extent of hurricane impact in Crenshaw County during the last 20 years is estimated to be tropical storm level with winds between 50 and 55 miles per hour. Larger hurricanes, with wind speeds up to 90 miles per hour (Category 1) have impacted Crenshaw County, however, these events occurred in 1863 and 1902.

**Dale County Extent.** Hail and thunderstorms have been common events for Dale County and its municipalities in the past and will continue to be so in the future. Between 2000 and 2020, Dale County has had 40 hail events and 259 thunderstorm events with high winds, heavy rains, and/or lightening. The hail and thunderstorm events have caused an estimated \$1.97m in property damages.

All jurisdictions in Dale County, have a record of hail events. The extent of hail is measured using the TORRO Scale of the Tornado and Storm Research Organization that classifies the intensity of hail into ten categories based on size and probable kinetic energy. See Table 4.46. Most of the hail events have ranged between H2 – Significant and H4.

Severe thunderstorms are defined by the National Weather Service as having one or more of the following: wind speeds of 58 miles per hour or higher, producing hail at least three quarters inch (3/4”) in diameter, or possessing tornadic capabilities. The effects of severe thunderstorms have varying spatial effects throughout Dale County from widespread to localized impacts. Severe thunderstorms with straight line winds that affect Dale County can create wind gusts up to the equivalence of an EF1 tornado. All jurisdictions in Dale County have experienced thunderstorm events. Of the recorded thunderstorm events, wind speeds have generally ranged between 50 and



60 miles per hour; however, on one occasion, wind speeds have reached 70 miles per hour.

Tornados are a significant hazard risk for Dale County, not due to the frequency of events, but instead, due to the severity of destruction and the limited warning time for response. Dale County is located in Wind Zone III, as shown in Figure 117: Wind Zones of the United States map, which is associated with 200 miles per hour wind speeds. Tornado paths are not localized and have the potential to affect any portion of the entire county during a given event. Tornadoes are measured using the Enhanced Fujita Scale (Table 4.40) which assigns a tornado a rating based on estimated wind speeds and related damage. A total of 19 tornadoes have impacted all jurisdictions of Dale County between 2000 and 2020. Of these nineteen tornadoes, eleven were EF0, seven were EF1, and one EF2 tornado struck Dale County. Combined, the twenty eight tornadoes resulted in 34 injuries and \$8.846m in property damage.

The Saffir-Simpson Hurricane Wind Scale is used to categorize tropical storms and hurricanes into five categories based on sustained wind speed. Besides the hurricane categories, there are two additional classifications for tropical depressions and tropical storms before these storms reach hurricane strength. Due to Dale County's inland location, it is very unlikely that the county will ever experience hurricane force winds greater than a Category 1. Table 4.41 outlines the Saffir- Simpson Scale categories, wind speeds for each category, and the anticipated damage sustained for each category. Hurricanes reaching Category 3 and higher are considered major hurricanes because of their potential for significant loss of life and damage. Category 1 and 2 storms are still dangerous, however, and require preventative measures. Dale County has been impacted by four tropical storms and no hurricanes. In 2005, spinoff storms from Hurricane Katrina caused about \$500,000 worth of damage across the county, primarily by trees that were blown down.

**Geneva County Extent.** Hail and thunderstorms have been common events for Geneva County and its municipalities in the past and will continue to be so in the future. Between 2000 and 2020, Geneva County has had 21 hail events and 153 thunderstorm events with high winds, heavy rains, and/or lightening. The hail and thunderstorm events have caused zero deaths, two injuries and an estimated \$1.937 million in property damages.

All jurisdictions in Geneva County, with the exception of Black and Lowery have a record of hail events. The extent of hail is measured using the TORRO Scale of the Tornado and Storm Research Organization that classifies the intensity of hail into ten categories based on size and probable kinetic energy. See Table 4.47. Most of the hail events have ranged between H2 – Significant and H4 – Severe. Four events in Geneva County from 2004-2011 reported hail 2.75 inches in size, which would be in the H6—Destructive category.

Severe thunderstorms are defined by the National Weather Service as having one or more of the following: wind speeds of 58 miles per hour or higher, producing hail at least three quarters inch (3/4") in diameter, or possessing tornadic capabilities. The effects of severe thunderstorms have varying spatial effects throughout Geneva County from widespread to localized impacts. Severe thunderstorms with straight line winds that affect Geneva County can create wind gusts up to the equivalence of an EF1 tornado. All jurisdictions in Geneva County have experienced thunderstorm events.

Tornados are a significant hazard risk for Geneva County, not due to the frequency of events, but instead, due to the severity of destruction and the limited warning time for response. Geneva County is located in Wind Zone III, as shown in Figure 4.117: Wind Zones of the United States map, which is associated with 200 miles per hour wind speeds. Tornado paths are not localized and have the potential to affect any portion of the entire county during a given event. Tornadoes are measured using the Enhanced Fujita Scale (Table 4.40) which assigns a tornado a rating based on estimated wind speeds and related damage. A total of 14 tornadoes have impacted all jurisdictions of Geneva County between 2000 and 2020. Of these tornadoes, six were EF0, seven were EF1, and one EF2 tornado struck Coffee Springs on May 31, 2004. Combined, the 14 tornadoes resulted in three injuries and \$3.1m in property damage.

The Saffir-Simpson Hurricane Wind Scale is used to categorize tropical storms and hurricanes into five categories based on sustained wind speed. Besides the hurricane categories, there are two additional classifications for tropical depressions and tropical storms before these storms reach hurricane strength. Due to Geneva County's inland location, it is very unlikely that the county will ever experience hurricane force winds greater than a Category 1. Table 4.41 outlines the Saffir-Simpson Scale categories, wind speeds for each category, and the anticipated damage sustained for each category. Hurricanes reaching Category 3 and higher are considered major hurricanes because of their potential for significant loss of life and damage. Category 1 and 2 storms are still dangerous, however, and require preventative measures. Geneva County has been impacted by seven tropical storms and one hurricane. All seven tropical storms resulted in \$1.708m in property damages

**Henry County Extent.** Hail and thunderstorms have been common events for Henry County and its municipalities in the past and will continue to be so in the future. Between 2000 and 2020, Henry County has had 18 hail events and 178 thunderstorm events with high winds, heavy rains, and/or lightening. The hail and thunderstorm events have caused zero deaths, one injury and an estimated \$565,651 in property damages.

All municipalities in Henry County, with the exception of Newville have a record of hail events. The extent of hail is measured using the TORRO Scale of the Tornado and Storm Research Organization that classifies the intensity of hail into ten categories based on size and probable kinetic energy. See Table 4.48. Most of the hail events have ranged between H0 – Hard Hail and H4 – Severe. Four events in Henry County from 2004-2011 reported hail 1.75 inches in size, which would be in the H4—Destructive category. Severe thunderstorms are defined by the National Weather Service as having one or more of the following: wind speeds of 58 miles per hour or higher, producing hail at least three quarters inch (3/4”) in diameter, or possessing tornadic capabilities. The effects of severe thunderstorms have varying spatial effects throughout Henry County from widespread to localized impacts. Severe thunderstorms with straight line winds that affect Henry County can create wind gusts up to the equivalence of an EF1 tornado. All jurisdictions in Henry County have experienced thunderstorm events.

Tornados are a significant hazard risk for Henry County, not due to the frequency of events, but instead, due to the severity of destruction and the limited warning time for response. Henry County is located in Wind Zone III, as shown in Figure 4.117: Wind Zones of the United States map, which is associated with 200 miles per hour wind speeds. Tornado paths are not localized and have the potential to affect any portion of the entire county during a given event. Tornadoes are measured using the Enhanced Fujita Scale (Table 4.40) which assigns a tornado a rating

based on estimated wind speeds and related damage. A total of 21 tornadoes have impacted all jurisdictions of Henry County between 2000 and 2020. Of these tornadoes, seven were EF0, nine were EF1, three EF2, and zero EF3. The most destructive tornado struck Abbeville on March 1, 2007. Combined, the 21 tornadoes resulted in two deaths, thirty injuries and \$21.38m in property damage.

The Saffir-Simpson Hurricane Wind Scale is used to categorize tropical storms and hurricanes into five categories based on sustained wind speed. Besides the hurricane categories, there are two additional classifications for tropical depressions and tropical storms before these storms reach hurricane strength. Due to Henry County's inland location, it is very unlikely that the county will ever experience hurricane force winds greater than a Category 1. Table 4.41 outlines the Saffir-Simpson Scale categories, wind speeds for each category, and the anticipated damage sustained for each category. Hurricanes reaching Category 3 and higher are considered major hurricanes because of their potential for significant loss of life and damage. Category 1 and 2 storms are still dangerous, however, and require preventative measures. Henry County has been impacted by seven tropical storms and one hurricane. All seven tropical storms resulted in \$1.708m in property damage.

**Houston County Extent.** Hail and thunderstorms have been common events for Houston County and its municipalities in the past and will continue to be so in the future. Between 2000 and 2020, Houston County has had 21 hail events and 153 thunderstorm events with high winds, heavy rains, and/or lightening. The hail and thunderstorm events have caused five deaths, seven injuries and an estimated \$4.8 million in property damages.

All jurisdictions in Houston County, with the exception of Black and Lowery have a record of hail events. The extent of hail is measured using the TORRO Scale of the Tornado and Storm Research Organization that classifies the intensity of hail into ten categories based on size and probable kinetic energy. See Table 4.49. Most of the hail events have ranged between H0 – Hard Hail and H4 – Severe. Eleven events in Houston County from 2004-2011 reported hail 1 inch in size, which would be in the H-3 Destructive category.

Severe thunderstorms are defined by the National Weather Service as having one or more of the following: wind speeds of 58 miles per hour or higher, producing hail at least three quarters inch (3/4") in diameter, or possessing tornadic capabilities. The effects of severe thunderstorms have varying spatial effects throughout Houston County from widespread to localized impacts. Severe thunderstorms with straight line winds that affect Houston County can create wind gusts up to the equivalence of an EF1 tornado. All jurisdictions in Houston County have experienced thunderstorm events.

Tornados are a significant hazard risk for Houston County, not due to the frequency of events, but instead, due to the severity of destruction and the limited warning time for response. Houston County is located in Wind Zone III, as shown in Figure 14: Wind Zones of the United States map, which is associated with 200 miles per hour wind speeds. Tornado paths are not localized and have the potential to affect any portion of the entire county during a given event. Tornadoes are measured using the Enhanced Fujita Scale (Table 4.40) which assigns a tornado a rating based on estimated wind speeds and related damage. A total of 17 tornadoes have impacted all jurisdictions of Houston County between 2000 and 2020. Of these tornadoes, seven were EF0, eight were EF1, and two EF2. The most destructive tornado struck Pansey in 2005. Combined, the 17 tornadoes resulted in four injuries and \$1.93m in property damage.



The Saffir-Simpson Hurricane Wind Scale is used to categorize tropical storms and hurricanes into five categories based on sustained wind speed. Besides the hurricane categories, there are two additional classifications for tropical depressions and tropical storms before these storms reach hurricane strength. Due to Houston County's inland location, it is very unlikely that the county will ever experience hurricane force winds greater than a Category 1. Hurricanes reaching Category 3 and higher are considered major hurricanes because of their potential for significant loss of life and damage. Category 1 and 2 storms are still dangerous, however, and require preventative measures. Houston County has been impacted by seven tropical storms and one hurricane. All seven tropical storms resulted in \$1.708 million in property damages.

All jurisdictions in Pike County have experienced thunderstorm events. Of the recorded thunderstorm events, wind speeds have generally ranged between 50 and 60 miles per hour; however, on four occasions, wind speeds have reached 65 miles per hour. One such occurrence was a countywide event and the second event occurred in Goshen.

According to the National Weather Service National Lightning Detection Network Map, most of Pike County averages 96 to 160 strokes. The southwest corner of the county, however, averages 69 to 160 strokes. There has been one recorded lightning event in Pike County between 2000 and 2020, which occurred in Troy.

A total of 25 funnel clouds and tornadoes have impacted all jurisdictions of Pike County, except Banks, between 2000 and 2020. Of these tornadoes, 11 were EF0 and 11 were EF1. An F2 tornado struck the unincorporated Hamilton community in 2006 and an EF2 tornado struck Goshen in 2012, and one EF2 tornado struck Greenville on April 15, 2011. Combined, the 25 tornadoes resulted in \$763,000 in property damage.

The extent of hurricane impact in Pike County during the last 20 years is estimated to be tropical storm level with winds between 50 and 55 miles per hour and approximately \$76,000 in recorded damages. The largest hurricane to impact Pike County, however, occurred in early September 1975 when Hurricane Eloise landed as a Category 3 hurricane in the Florida panhandle. As Hurricane Eloise came across Pike County, it was still a Category 2 hurricane, with winds of 110 miles per hour.

### ***Historical Occurrences.***

Between January 1, 2000 and May 31, 2020, Butler County experienced 101 high wind events that includes hail, high winds, thunderstorms and lightening, tornadoes, and hurricanes. During the 20-year time frame, high wind events caused two deaths, seven injuries and \$2,662,000 in property damages. According to the National Centers for Environmental Information, there have been 22 hail events, one heavy rain event, four lightening events, 60 thunderstorm and high wind events, 12 tornado events, and two hurricane/tropical storm events during the 20-year time period. No part of Butler County has been immune to these types of hazards.

Crenshaw County experienced 117 high wind events between 2000 and 2020 that includes hail, high winds, thunderstorms and lightening, tornadoes, and hurricanes. During the 20-year time frame, high wind events caused \$2,765,000 in property damages. According to the National Centers for Environmental Information, there have been 16 hail events, 83 thunderstorm and high wind events, 16 tornado events, and two hurricane/tropical storm events. No part of Crenshaw County has been immune to these types of hazards.

Pike County experienced 107 high wind events between 2000 and 2020 that includes hail, high winds, thunderstorms and lightening, tornadoes, and hurricanes. During the 20-year time frame, high wind events caused ten injuries and \$4,215,750 in property damages. According to the National Centers for Environmental Information, there have been 23 hail events, 53 thunderstorm and high wind events, 25 tornado events, and six hurricane/tropical storm events. No part of Pike County has been immune to these types of hazards.

The tables that follow include an historical overview of each type of high wind event that has occurred and also by each jurisdiction in each county.

**Table 4.43: Profile of Hail Events in Butler County, 2000 to 2020**

Location	Date	Event Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Greenville	2/13/2000	Hail	0.75	0	0	\$0	\$0
Georgiana	8/27/2000	Hail	0.75	0	0	\$0	\$0
Georgiana	11/24/2001	Hail	1	0	0	\$0	\$0
Greenville	3/13/2003	Hail	1.75	0	0	\$1,000	\$0
Unincorp. Butler County: Forest Home	4/25/2003	Hail	0.75	0	0	\$0	\$0
Georgiana	4/25/2003	Hail	0.75	0	0	\$0	\$0
Unincorp. Butler County: Forest Home	5/2/2003	Hail	0.75	0	0	\$0	\$0
Unincorp. Butler County: Monterey	5/2/2003	Hail	0.75	0	0	\$0	\$0
Unincorp. Butler County: Oaky Streak	5/2/2003	Hail	0.75	0	0	\$0	\$0
Georgiana	5/3/2003	Hail	0.75	0	0	\$0	\$0
Unincorp. Butler County: Chapman	4/8/2004	Hail	0.88	0	0	\$0	\$0
Georgiana	4/12/2004	Hail	1	0	0	\$0	\$0
Georgiana	4/8/2006	Hail	0.75	0	0	\$0	\$0
Greenville	5/25/2006	Hail	0.88	0	0	\$0	\$0
Greenville	3/1/2007	Hail	1	0	0	\$0	\$0
Greenville	4/5/2009	Hail	0.88	0	0	\$0	\$0
Unincorp. Butler County: Forest Home	4/15/2011	Hail	0.88	0	0	\$0	\$0
Greenville	1/21/2012	Hail	1	0	0	\$0	\$0
Unincorp. Butler County: Wald	1/21/2012	Hail	1	0	0	\$0	\$0
Greenville	7/17/2012	Hail	1	0	0	\$0	\$0
Unincorp. Butler County: Forest Home	2/15/2016	Hail	0.75	0	0	\$0	\$0
Greenville	3/30/2017	Hail	1	0	0	\$0	\$0
<b>Total Hail Events</b>		<b>22 Events</b>		<b>0</b>	<b>0</b>	<b>\$1,000</b>	<b>\$0</b>
<b>Butler County Jurisdictional Summary: Hail</b>							
Countywide		0 Events		0	0	\$0	\$0
Georgiana		6 Events		0	0	\$0	\$0
Greenville		8 Events		0	0	\$1,000	\$0
McKenzie		0 Events		0	0	\$0	\$0
Unincorporated Butler County		8 Events		0	0	\$0	\$0

Source: NOAA, National Centers for Environmental Information, Storm Events Database.  
<https://www.ncdc.noaa.gov/stormevents/choosedates.jsp?statefips=1%2CALABAMA>

**Table 4.44: Profile of Hail Events in Coffee County, 2000 to 2020**

Location	Date	Type of Event	Mag	Death	Injuries	Property Damage	Crop Damage
KINSTON	5/13/2000	Hail	0.75	0	0	\$0	\$0
KINSTON	7/21/2000	Hail	1	0	0	\$0	\$0
ENTERPRISE	3/12/2001	Hail	0.75	0	0	\$0	\$0
Unincorp. County	3/9/2003	Hail	0.75	0	0	\$0	\$0
ENTERPRISE	3/14/2003	Hail	0.88	0	0	\$0	\$0
KINSTON	5/31/2004	Hail	1.75	0	0	\$0	\$0
ELBA	6/2/2004	Hail	0.75	0	0	\$0	\$0
ELBA	7/15/2004	Hail	1.75	0	0	\$0	\$0
ELBA	7/15/2004	Hail	0.75	0	0	\$0	\$0
ENTERPRISE	7/15/2004	Hail	0.75	0	0	\$0	\$0
Unincorp. County	3/26/2005	Hail	2	0	0	\$50,000	\$0
NEW BROCKTON	4/6/2005	Hail	0.88	0	0	\$0	\$0
ENTERPRISE	5/20/2005	Hail	0.75	0	0	\$0	\$0
ENTERPRISE	5/20/2005	Hail	1.25	0	0	\$0	\$0
ELBA	4/8/2006	Hail	0.88	0	0	\$0	\$0
ENTERPRISE	4/8/2006	Hail	0.75	0	0	\$0	\$0
ELBA	6/12/2007	Hail	0.75	0	0	\$0	\$0
Unincorp. County	7/12/2008	Hail	0.75	0	0	\$0	\$0
ENTERPRISE	3/28/2009	Hail	0.88	0	0	\$0	\$0
ENTERPRISE	3/27/2011	Hail	1	0	0	\$0	\$0
ENTERPRISE	3/27/2011	Hail	0.75	0	0	\$0	\$0
Unincorp. County	6/14/2012	Hail	0.75	0	0	\$0	\$0
ENTERPRISE	8/21/2015	Hail	0.88	0	0	\$0	\$0
Unincorp. County	9/6/2015	Hail	0.88	0	0	\$0	\$0
ENTERPRISE	5/20/2017	Hail	1	0	0	\$0	\$0
ENTERPRISE	9/23/2017	Hail	1	0	0	\$0	\$0
Unincorp. County	7/22/2018	Hail	0.75	0	0	\$0	\$0
Total Hail Events		27 Events		0	0	\$50,000	\$0
Jurisdictional Summary: Hail							
Countywide		0 Events		0	0	\$0	\$0
Unincorp. County		6 Events		0	0	\$50,000	\$0
Elba		5 Event		0	0	\$0	\$0
Enterprise		12 Events		0	0	\$0	\$0
Kinston		3 Events		0	0	\$0	\$0
New Brockton		1 Events		0	0	\$0	\$0

Source: NOAA, National Centers for Environmental Information, Storm Events Database.  
<https://www.ncdc.noaa.gov/stormevents/choosedates.jsp?statefips=1%2CALABAMA>

**Table 4.45: Profile of Hail Events in Covington County, 2000 to 2020**

Location	Date	Type of Event	Mag	Death	Injuries	Property Damage	Crop Damage
HEATH	2/13/2000	Hail	0.75	0	0	\$0	\$0
ANDALUSIA	5/13/2000	Hail	0.75	0	0	\$0	\$0
ANDALUSIA	5/13/2000	Hail	1.75	0	0	\$0	\$0
ANDALUSIA	7/20/2000	Hail	0.88	0	0	\$0	\$0
CLEARVIEW	8/9/2000	Hail	0.75	0	0	\$0	\$0
GANTT	12/16/2000	Hail	0.75	0	0	\$0	\$0
ANDALUSIA	5/27/2001	Hail	0.88	0	0	\$0	\$0
ANDALUSIA	6/21/2001	Hail	0.75	0	0	\$0	\$0
RIVER FALLS	7/20/2001	Hail	0.75	0	0	\$0	\$0
ANDALUSIA	8/19/2001	Hail	0.75	0	0	\$0	\$0
OPP	10/13/2001	Hail	1.75	0	0	\$0	\$0
RED LEVEL	3/12/2002	Hail	1.75	0	0	\$0	\$0
FLORALA	3/12/2002	Hail	0.75	0	0	\$0	\$0
SANFORD	3/31/2002	Hail	1.75	0	0	\$0	\$0
FLORALA	7/20/2002	Hail	0.75	0	0	\$0	\$0
LIBERTYVILLE	3/9/2003	Hail	1	0	0	\$0	\$0
LOCKHART	3/9/2003	Hail	1	0	0	\$0	\$0
RED LEVEL	3/13/2003	Hail	1	0	0	\$0	\$0
LIBERTYVILLE	3/13/2003	Hail	0.75	0	0	\$0	\$0
BABBIE	3/14/2003	Hail	0.75	0	0	\$0	\$0
ROSE HILL	4/5/2003	Hail	0.75	0	0	\$0	\$0
FLORALA	5/2/2003	Hail	1.75	0	0	\$0	\$0
GANTT	5/2/2003	Hail	0.75	0	0	\$0	\$0
RED LEVEL	5/11/2003	Hail	0.75	0	0	\$0	\$0
SOUTH	4/8/2004	Hail	1.5	0	0	\$0	\$0
GANTT	4/8/2004	Hail	1.75	0	0	\$0	\$0
FLORALA	5/17/2004	Hail	0.88	0	0	\$0	\$0
OPP	5/31/2004	Hail	1	0	0	\$0	\$0
ROSE HILL	7/15/2004	Hail	1.75	0	0	\$0	\$0



LIBERTYVILLE	3/26/2005	Hail	1.75	0	0	\$3000	\$0
ANDALUSIA	3/26/2005	Hail	2.75	0	0	\$15000	\$0
LIBERTYVILLE	4/6/2005	Hail	1.75	0	0	\$3000	\$0
OPP	5/20/2005	Hail	1	0	0	\$0	\$0
OPP	5/20/2005	Hail	0.88	0	0	\$0	\$0
RED LEVEL	1/1/2006	Hail	0.88	0	0	\$0	\$0
ANDALUSIA	1/30/2006	Hail	0.88	0	0	\$0	\$0
OPP	6/6/2007	Hail	0.88	0	0	\$0	\$0
OPP	6/12/2007	Hail	0.75	0	0	\$0	\$0
GREEN BAY	1/31/2008	Hail	1	0	0	\$0	\$0
OPP	2/17/2008	Hail	1	0	0	\$0	\$0
ANDALUSIA	6/25/2008	Hail	0.88	0	0	\$0	\$0
FALCO	12/10/2008	Hail	0.75	0	0	\$0	\$0
RED LEVEL	1/3/2009	Hail	0.75	0	0	\$0	\$0
FLORALA	3/28/2009	Hail	0.88	0	0	\$0	\$0
ANDALUSIA	3/28/2009	Hail	2.75	0	0	\$0	\$0
ANDALUSIA	3/27/2011	Hail	1	0	0	\$0	\$0
ANDALUSIA	3/27/2011	Hail	1.75	0	0	\$0	\$0
ANDALUSIA	3/27/2011	Hail	1	0	0	\$0	\$0
OPP	3/27/2011	Hail	1.75	0	0	\$0	\$0
ANDALUSIA	3/27/2011	Hail	1.75	0	0	\$0	\$0
OPP	3/27/2011	Hail	1.75	0	0	\$0	\$0
ESTOTHEL	3/27/2011	Hail	1.75	0	0	\$0	\$0
ANDALUSIA	4/15/2011	Hail	1	0	0	\$0	\$0
ESTOTHEL	4/16/2011	Hail	0.88	0	0	\$0	\$0
ANDALUSIA	5/13/2011	Hail	0.75	0	0	\$0	\$0
OPP	5/13/2011	Hail	1	0	0	\$0	\$0
OPP	6/28/2011	Hail	1.75	0	0	\$0	\$0
OPP	6/28/2011	Hail	1.75	0	0	\$0	\$0
ANDALUSIA	7/30/2012	Hail	1.75	0	0	\$0	\$0
HEATH	7/30/2012	Hail	1	0	0	\$0	\$0
ANDALUSIA	6/28/2013	Hail	1	0	0	\$0	\$0

OPP	3/16/2014	Hail	0.75	0	0	\$0	\$0
BABBIE	6/22/2015	Hail	0.75	0	0	\$0	\$0
HEATH	7/22/2018	Hail	2.75	0	0	\$0	\$0
HAYGOOD	7/22/2018	Hail	1.75	0	0	\$0	\$0
HEATH	7/22/2018	Hail	2	0	0	\$0	\$0
ANDALUSIA OPP ARPT	7/22/2018	Hail	4	0	0	\$0	\$0
ANDALUSIA	7/22/2018	Hail	2.5	0	0	\$0	\$0
POLEY	7/22/2018	Hail	2.5	0	0	\$0	\$0
LIBERTYVILLE	7/22/2018	Hail	1	0	0	\$0	\$0
OPP	7/22/2018	Hail	1.25	0	0	\$0	\$0
Total Hail Events		71 Events		0	0	\$21,000	\$0
Jurisdictional Summary: Hail							
Andalusia	20 Events			0	0	\$15,000	\$0
Opp	14 Events			0	0	\$0	\$0
Floral	5 Events			0	0	\$0	\$0
Lockhart	1 Event			0	0	\$0	\$0
Red Level	5 Events			0	0	\$0	\$0
Babbie	2 Events			0	0	\$0	\$0
Unincorporated Covington County	24 Events			0	0	\$6,000	\$0

**Table 4.46: Profile of Hail Events in Dale County, 2000 to 2020**

Location	Date	Type of Event	Mag	Death	Injuries	Property Damage	Crop Damage
NEWTON	3/11/2000	Hail	1.75	0	0	\$0	\$0
(OZR)FT RUCKER AAF	3/12/2001	Hail	0.75	0	0	\$0	\$0
DALEVILLE	5/30/2002	Hail	0.75	0	0	\$0	\$0
ECHO	5/30/2002	Hail	1.75	0	0	\$0	\$0
DALEVILLE	7/20/2002	Hail	0.75	0	0	\$0	\$0
CLOPTON	7/21/2002	Hail	0.75	0	0	\$0	\$0
DALEVILLE	4/12/2004	Hail	1.75	0	0	\$0	\$0
OZARK	4/12/2004	Hail	1.75	0	0	\$0	\$0
OZARK	3/26/2005	Hail	0.88	0	0	\$0	\$0
DALEVILLE	3/26/2005	Hail	1.75	0	0	\$0	\$0
OZARK	3/26/2005	Hail	1.75	0	0	\$0	\$0
ARITON	4/22/2005	Hail	1.75	0	0	\$0	\$0

LEVEL PLAINS XRDS	4/8/2006	Hail	1	0	0	\$0	\$0
MIDLAND CITY	5/10/2006	Hail	0.88	0	0	\$0	\$0
OZARK	3/1/2007	Hail	1.75	0	0	\$0	\$0
NEWTON	3/1/2007	Hail	1	0	0	\$0	\$0
OZARK	3/27/2011	Hail	1	0	0	\$0	\$0
SYLVAN GROVE	3/27/2011	Hail	1	0	0	\$0	\$0
OZARK	3/27/2011	Hail	1	0	0	\$0	\$0
DALEVILLE	3/27/2011	Hail	1	0	0	\$0	\$0
PINCKARD	4/16/2011	Hail	0.88	0	0	\$0	\$0
DALE COUNTY LAKE	1/21/2012	Hail	0.75	0	0	\$0	\$0
OZARK	2/18/2012	Hail	1	0	0	\$0	\$0
OZARK	4/5/2012	Hail	0.75	0	0	\$0	\$0
DEAN CHURCH RD	5/6/2012	Hail	0.75	0	0	\$0	\$0
DEAN CHURCH RD	5/6/2012	Hail	1.5	0	0	\$0	\$0
ARITON	4/30/2014	Hail	1	0	0	\$0	\$0
SKIPPERVILLE	4/30/2014	Hail	0.88	0	0	\$0	\$0
PINCKARD	5/27/2014	Hail	0.75	0	0	\$0	\$0
MIDLAND CITY	7/3/2015	Hail	1	0	0	\$0	\$0
LEVEL PLAINS	3/17/2016	Hail	1	0	0	\$0	\$0
DALEVILLE	3/17/2016	Hail	1.75	0	0	\$0	\$0
OZARK	1/21/2017	Hail	1	0	0	\$0	\$0
DALEVILLE	4/5/2017	Hail	1.25	0	0	\$0	\$0
NEWTON	4/5/2017	Hail	1.75	0	0	\$0	\$0
OZARK	7/22/2018	Hail	1	0	0	\$0	\$0
OZARK	7/22/2018	Hail	1	0	0	\$0	\$0
KLONDYKE HILL	8/3/2019	Hail	0.75	0	0	\$0	\$0
HOOPER STAGE FIELD	3/5/2020	Hail	1	0	0	\$0	\$0
SKIPPERVILLE	3/5/2020	Hail	1	0	0	\$0	\$0

<b>Total Hail Events</b>	<b>40 Events</b>	0	0	\$0	\$0
<b>Jurisdictional Summary: Hail</b>					
Countywide	0 Events	0	0	\$0	\$0
Ariton	2 Events	0	0	\$0	\$0
Daleville	7 Events	0	0	\$0	\$0
Echo	1 Event	0	0	\$0	\$0
Midland City	2 Events	0	0	\$0	\$0
Newton	3 Events	0	0	\$0	\$0
Ozark	11 Events	0	0	\$0	\$0
Pinkchard	2 Events	0	0	\$0	\$0
Skipperville	2 Events	0	0	\$0	\$0
Fort Rucker	1 Event	0	0	\$0	\$0
Unincorporated Dale County	9 Events	0	0	\$0	\$0

**Table 4.47: Profile of Hail Events in Geneva County, 2000 to 2020**

<b>Location</b>	<b>Date</b>	<b>Event Type</b>	<b>Mag.</b>	<b>Deaths</b>	<b>Injuries</b>	<b>Property Damage</b>	<b>Crop Damage</b>
CHANCELLOR	8/25/2000	Hail	0.75	0	0	\$0	\$0
COFFEE SPGS	5/31/2004	Hail	1.75	0	0	\$0	\$0
MALVERN	5/31/2004	Hail	2.75	0	0	\$0	\$0
BELLWOOD	3/26/2005	Hail	2.75	0	0	\$0	\$0
HACODA	3/26/2005	Hail	2	0	0	\$0	\$0
CHANCELLOR	3/26/2005	Hail	2.75	0	0	\$0	\$0
MALVERN	3/26/2005	Hail	1.75	0	0	\$0	\$0
HARTFORD	4/8/2006	Hail	0.75	0	0	\$0	\$0
SLOCOMB	5/10/2006	Hail	1	0	0	\$0	\$0
SAMSON	3/28/2009	Hail	1	0	0	\$0	\$0
SAMSON	4/13/2009	Hail	0.75	0	0	\$0	\$0
PINEY GROVE	3/27/2011	Hail	1.75	0	0	\$0	\$0
PINEY GROVE	3/27/2011	Hail	2.75	0	0	\$0	\$0
DUNDEE	7/30/2012	Hail	1	0	0	\$0	\$0
HARTFORD	7/30/2012	Hail	1	0	0	\$0	\$0
SLOCOMB	7/30/2012	Hail	1.75	0	0	\$1,000	\$0
BELLWOOD	4/4/2017	Hail	1	0	0	\$0	\$0
SAMSON	3/19/2018	Hail	1	0	0	\$0	\$0
COFFEE SPRINGS	3/19/2018	Hail	1	0	0	\$0	\$0



GENEVA	3/19/2018	Hail	1.25	0	0	\$0	\$0
SAMSON	3/5/2020	Hail	1.75	0	0	\$0	\$0
COFFEE SPGS	5/31/2004	Hail	1.75	0	0	\$0	\$0
MALVERN	5/31/2004	Hail	2.75	0	0	\$0	\$0
<b>Total Hail Events</b>		<b>21 Events</b>		<b>0</b>	<b>0</b>	<b>\$0</b>	<b>\$0</b>
<b>Jurisdictional Summary: Hail</b>							
Countywide	0 Events			0	0	\$0	\$0
Samson	4 Events			0	0	\$0	\$0
Black	0 Events			0	0	\$0	\$0
Slocumb	2 Events			0	0	\$1,000	\$0
Malvern	2 Events			0	0	\$0	\$0
Geneva	1 Event			0	0	\$0	\$0
Hartford	2 Events			0	0	\$0	\$0
Unincorporated Geneva County	10 Events			0	0	\$0	\$0

**Table 4.48: Profile of Hail Events in Henry County, 2000 to 2020**

Location	Date	Event Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
ABBEVILLE	4/30/2002	Hail	1.75	0	0	0	0
HEADLAND	5/30/2002	Hail	0.75	0	0	\$0	\$0
ABBEVILLE	3/13/2003	Hail	0.75	0	0	\$0	\$0
HALEBURG	4/8/2004	Hail	0.88	0	0	\$0	\$0
ABBEVILLE	7/15/2004	Hail	0.75	0	0	\$0	\$0
NORTHEAST PORTION	3/26/2005	Hail	1.25	0	0	\$0	\$0
ABBEVILLE	5/20/2005	Hail	1	0	0	\$0	\$0
HEADLAND	12/28/2005	Hail	1.75	0	0	\$0	\$0
SCREAMER	12/28/2005	Hail	1.75	0	0	\$0	\$0
EDWIN	4/8/2006	Hail	1	0	0	\$0	\$0
ABBEVILLE	5/10/2006	Hail	0.75	0	0	\$0	\$0
SCREAMER	2/17/2008	Hail	1.75	0	0	\$0	\$0
SCOTTSBORO Crossroads	7/5/2008	Hail	1	0	0	\$0	\$0
ABBEVILLE	4/4/2011	Hail	0.75	0	0	\$0	\$0
HEADLAND	5/6/2012	Hail	1	0	0	\$0	\$0
SCOTTSBORO CROSSROADS	6/17/2015	Hail	0.88	0	0	\$0	\$0
ABBEVILLE	8/28/2015	Hail	1	0	0	\$0	\$0
WILLS CROSSROADS	1/21/2017	Hail	1	0	0	\$0	\$0

<b>Total Hail Events</b>	<b>18 Events</b>	<b>0</b>	<b>0</b>	<b>\$0</b>	<b>\$0</b>
<b>Jurisdictional Summary: Hail</b>					
Countywide	0 Events	0	0	\$0	\$0
Abbeville	7 Events	0	0	\$0	\$0
Headland	3 Events	0	0	\$0	\$0
Newville	0 Events	0	0	\$0	\$0
Unincorporated Henry County	8 Events	0	0	\$0	\$0

**Table 4.49: Profile of Hail Events in Houston County, 2000 to 2020**

<b>Location</b>	<b>Date</b>	<b>Event Type</b>	<b>Mag.</b>	<b>Deaths</b>	<b>Injuries</b>	<b>Property Damage</b>	<b>Crop Damage</b>
DOTHAN	3/11/2000	Hail	0.75	0	0	\$0	\$0
COWARTS	3/11/2000	Hail	0.75	0	0	\$0	\$0
COTTONWOOD	3/11/2000	Hail	0.75	0	0	\$0	\$0
ASHFORD	3/11/2000	Hail	1	0	0	\$0	\$0
DOTHAN	5/13/2000	Hail	1	0	0	\$0	\$0
ASHFORD	8/25/2000	Hail	0.75	0	0	\$0	\$0
KINSEY	3/31/2002	Hail	0.75	0	0	\$0	\$0
COTTONWOOD	6/4/2002	Hail	0.75	0	0	\$0	\$0
PANSEY	6/14/2002	Hail	1.75	0	0	\$0	\$0
COTTONWOOD	7/20/2002	Hail	0.75	0	0	\$0	\$0
COTTONWOOD	7/20/2002	Hail	0.75	0	0	\$0	\$0
ASHFORD	7/20/2002	Hail	0.75	0	0	\$0	\$0
DOTHAN	8/27/2002	Hail	0.88	0	0	\$0	\$0
DOTHAN	4/8/2004	Hail	0.88	0	0	\$0	\$0
TAYLOR	5/31/2004	Hail	1.75	0	0	\$0	\$0
DOTHAN	6/1/2004	Hail	0.88	0	0	\$0	\$0
COTTONWOOD	6/1/2004	Hail	0.75	0	0	\$0	\$0
REHOBETH	6/1/2004	Hail	0.75	0	0	\$0	\$0
WEBB	7/15/2004	Hail	1	0	0	\$0	\$0
ASHFORD	7/15/2004	Hail	0.75	0	0	\$0	\$0
ASHFORD	7/15/2004	Hail	1.75	0	0	\$0	\$0
WICKSBURG	3/22/2005	Hail	0.88	0	0	\$0	\$0
DOTHAN	1/30/2006	Hail	1	0	0	\$0	\$0
DOTHAN	4/8/2006	Hail	0.75	0	0	\$0	\$0

DOTHAN	5/8/2006	Hail	0.88	0	0	\$0	\$0
DOTHAN	5/8/2006	Hail	0.88	0	0	\$0	\$0
NORTHEAST PORTION	5/10/2006	Hail	1	0	0	\$0	\$0
WICKSBURG	8/7/2008	Hail	0.88	0	0	\$0	\$0
DOTHAN	3/27/2011	Hail	1	0	0	\$0	\$0
KINSEY	3/27/2011	Hail	1.75	0	0	\$0	\$0
WEBB	3/27/2011	Hail	1	0	0	\$0	\$0
WICKSBURG	3/27/2011	Hail	1.75	0	0	\$0	\$0
DOTHAN	3/27/2011	Hail	1.75	0	0	\$0	\$0
DOTHAN	3/27/2011	Hail	1.75	0	0	\$0	\$0
HOLLIS DAIRY RD	6/16/2011	Hail	1	0	0	\$0	\$0
PANSEY	6/27/2011	Hail	1	0	0	\$0	\$0
TAYLOR	5/6/2012	Hail	0.75	0	0	\$0	\$0
DOTHAN	7/3/2012	Hail	0.75	0	0	\$0	\$0
COTTONWOOD	7/3/2012	Hail	0.88	0	0	\$0	\$0
POWER DAM ROAD	7/30/2012	Hail	1	0	0	\$0	\$0
WICKSBURG	7/30/2012	Hail	1.5	0	0	\$0	\$0
KINSEY	7/28/2014	Hail	1.25	0	0	\$0	\$0
KELLY SPRINGS	8/21/2015	Hail	1	0	0	\$0	\$0
DOTHAN	3/11/2000	Hail	0.75	0	0	\$0	\$0
COWARTS	3/11/2000	Hail	0.75	0	0	\$0	\$0
Total Hail Events		43 Events		0	0	\$0	\$0
Jurisdictional Summary: Hail							
Countywide		0 Events		0	0	\$0	\$0
Dothan		14 Events		0	0	\$0	\$0
Cowarts		2 Events		0	0	\$0	\$0
Webb		2 Events		0	0	\$0	\$0
Wicksburg		4 Events		0	0	\$0	\$0
Taylor		2 Events		0	0	\$0	\$0
Cottonwood		6 Events		0	0	\$0	\$0
Ashford		5 Events		0	0	\$0	\$0
Kinsey		3 Events		0	0	\$0	\$0
Pansey		2 Events		0	0	\$0	\$0
Unincorporated Houston County		3 Events		0	0	\$0	\$0

**Table 4.50: Profile of Hail Events in Crenshaw County, 2000 to 2020**

Location	Date	Event Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Luverne	3/11/2000	Hail	0.75	0	0	\$0	\$0
Brantley	3/19/2000	Hail	0.75	0	0	\$0	\$0
Dozier	8/9/2000	Hail	0.75	0	0	\$0	\$0
Unincorp Crenshaw County: Honoraville	11/24/2001	Hail	0.75	0	0	\$0	\$0
Unincorp Crenshaw County: Highland Home	6/28/2002	Hail	1	0	0	\$0	\$0
Unincorp Crenshaw County: Highland Home	3/9/2003	Hail	1	0	0	\$0	\$0
Luverne	3/13/2003	Hail	1.75	0	0	\$4000	\$0
Luverne	4/25/2003	Hail	0.75	0	0	\$0	\$0
Unincorp Crenshaw County: Honoraville	5/2/2003	Hail	1	0	0	\$0	\$0
Dozier	3/26/2005	Hail	0.75	0	0	\$0	\$0
Unincorp Crenshaw County: Bradleyton	4/22/2005	Hail	1.75	0	0	\$3000	\$0
Unincorp Crenshaw County: Highland Home	4/22/2005	Hail	0.75	0	0	\$0	\$0
Unincorp Crenshaw County: Highland Home	4/22/2005	Hail	1.75	0	0	\$5000	\$0
Unincorp Crenshaw County: Honoraville	6/12/2007	Hail	1.75	0	0	\$5000	\$0
Luverne	3/3/2016	Hail	1	0	0	\$0	\$0
Rutledge	3/3/2016	Hail	1	0	0	\$0	\$0
Total Hail Events		16 Events		0	0	\$17,000.00	\$0.00
Crenshaw County Jurisdictional Summary: Hail							
Countywide		0 Events		0	0	\$0.00	\$0.00
Brantley		1 Event		0	0	\$0.00	\$0.00
Dozier		2 Events		0	0	\$0.00	\$0.00
Glenwood		0 Events		0	0	\$0.00	\$0.00
Luverne		4 Events		0	0	\$4,000.00	\$0.00
Petrey		0 Events		0	0	\$0.00	\$0.00
Rutledge		1 Event		0	0	\$0.00	\$0.00
Unincorporated Crenshaw County		8 Events		0	0	\$13,000.00	\$0.00

**Table 4.51: Profile of Hail Events in Pike County, 2000 to 2020**

Location	Date	Event Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Goshen	3/9/2003	Hail	1.75	0	0	\$8,000	\$0
Goshen	3/13/2003	Hail	0.75	0	0	\$0	\$0
Goshen	3/13/2003	Hail	1	0	0	\$2,000	\$0
Troy	4/5/2003	Hail	1	0	0	\$0	\$0
Brundidge	4/7/2003	Hail	0.88	0	0	\$0	\$0
Troy	4/25/2003	Hail	0.75	0	0	\$0	\$0
Troy	4/25/2003	Hail	0.75	0	0	\$0	\$0
Troy	4/8/2004	Hail	1	0	0	\$0	\$0
Troy	4/8/2004	Hail	1.25	0	0	\$3,000	\$0
Brundidge	3/26/2005	Hail	3	0	0	\$85,000	\$0
Troy	3/26/2005	Hail	1.75	0	0	\$18,000	\$0
Brundidge	3/27/2005	Hail	0.75	0	0	\$0	\$0
Unincorp Pike County: Ansley	4/22/2005	Hail	1.5	0	0	\$1,000	\$0



Unincorp Pike County: Orion	4/22/2005	Hail	0.75	0	0	\$1,000	\$0
Unincorp Pike County: Orion	4/22/2005	Hail	1.75	0	0	\$3,000	\$0
Troy	5/14/2006	Hail	0.88	0	0	\$0	\$0
Banks	7/19/2006	Hail	0.75	0	0	\$0	\$0
Troy	5/26/2011	Hail	1	0	0	\$0	\$0
Goshen	5/6/2012	Hail	1	0	0	\$0	\$0
Unincorp Pike County: Hamilton	5/6/2012	Hail	3	0	0	\$0	\$0
Unincorp Pike County: Little Oak	7/30/2012	Hail	1	0	0	\$0	\$0
Goshen	3/3/2016	Hail	1.75	0	0	\$0	\$0
Unincorp Pike County: Henderson	3/24/2016	Hail	1	0	0	\$0	\$0
<b>Total Hail Events</b>		<b>23 Events</b>		<b>0</b>	<b>0</b>	<b>\$121,000</b>	<b>\$0</b>
<b>Pike County Jurisdictional Summary: Hail</b>							
Countywide	0 Events			0	0	\$0	\$0
Banks	1 Event			0	0	\$8,000	\$0
Brundidge	3 Events			0	0	\$2,000	\$0
Goshen	5 Events			0	0	\$3,000	\$0
Troy	8 Events			0	0	\$108,000	\$0
Unincorporated	6 Events			0	0	\$0	\$0

Source: NOAA, National Centers for Environmental Information, Storm Events Database.

<https://www.ncdc.noaa.gov/stormevents/choosedates.jsp?statefips=1%2CALABAMA>

**Table 4.52: Profile of Thunderstorm, Winds, Hail, Heavy Rain Events, Barbour County, 2000 2020**

Location	Date	Type of Event	Mag	Death	Injuries	Property Damage	Crop Damage
COMER	1/10/2000	Thunderstorm Wind	55	0	0	\$2,000	\$0
EUFAULA	7/12/2000	Thunderstorm Wind	60	0	0	\$15,000	\$0
TEXASVILLE	8/9/2000	Hail	1	0	0	\$0	\$0
LOUISVILLE	3/2/2001	Thunderstorm Wind	50	0	0	\$6,000	\$0
CLAYTON	5/19/2001	Hail	1	0	0	\$2,000	\$0
BAKER HILL	6/21/2001	Hail	0.75	0	0	\$0	\$0
EUFAULA	9/2/2001	Thunderstorm Wind		0	0	\$5,000	\$0
LOUISVILLE	1/19/2002	Thunderstorm Wind	50	0	0	\$2,000	\$0
MT ANDREW	3/10/2002	Thunderstorm Wind	50	0	0	\$1,000	\$0
CLAYTON	3/31/2002	Thunderstorm Wind	50	0	0	\$6,000	\$0
EUFAULA	3/31/2002	Hail	0.88	0	0	\$0	\$0
CLAYTON	4/30/2002	Hail	2.75	0	0	\$15,000	\$0
LOUISVILLE	5/11/2002	Hail	0.75	0	0	\$0	\$0
COMER	5/30/2002	Hail	0.75	0	0	\$0	\$0
CLAYTON	6/4/2002	Thunderstorm Wind	60	0	0	\$8,000	\$0
LOUISVILLE	4/5/2003	Hail	1.25	0	0	\$8,000	\$0
EUFAULA	4/25/2003	Hail	0.88	0	0	\$0	\$0
TERESE	5/1/2003	Hail	0.75	0	0	\$0	\$0

BAKERHILL	5/1/2003	Hail	0.75	0	0	\$0	\$0	
CLAYTON	5/18/2003	Hail	0.88	0	0	\$0	\$0	
EUFULA	7/22/2003	Thunderstorm Wind	50	0	0	\$8,000	\$0	
CLIO	4/8/2004	Hail	1	0	0	\$0	\$0	
Jurisdictional Summary: Thunderstorms, Winds, Hail, Heavy Rain								
Countywide			0 Events		0	0	\$0	\$0
Baker Hill			6 Events		0	0	\$9,500	\$0
Blue Springs			1 Event		0	0	\$0	\$0
Clayton			8 Events		0	0	\$12,500	\$0
Clio			3 Events		0	0	\$4,000	\$0
Louisville			5 Events		0	0	\$0	\$0
Eufaula			6 Events		0	0	\$8,000	\$0

**Table 4.53: Profile of Thunderstorm, Winds, Heavy Rain Events, Butler County, 2000 to 2020**

Location	Date	Type of Event	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Greenville	2/13/2000	T'storm/Wind	50	0	0	\$5,000	\$0
Greenville	3/19/2000	T'storm/Wind	60	0	0	\$10,000	\$0
Greenville	7/20/2000	T'storm/Wind	55	0	0	\$5,000	\$0
Unincorp. Butler County: Forest Home	1/19/2001	T'storm/Wind	55	0	0	\$5,000	\$0
Unincorp. Butler County: Forest Home	3/12/2001	T'storm/Wind	50	0	0	\$10,000	\$0
Unincorp. Butler County: Oaky Streak	3/12/2001	T'storm/Wind	65	0	0	\$50,000	\$0
Greenville	6/14/2001	T'storm/Wind	55	0	0	\$5,000	\$0
Greenville	10/13/2001	T'storm/Wind	60	0	0	\$20,000	\$0
Greenville	10/13/2001	T'storm/Wind	50	0	0	\$10,000	\$0
McKenzie	10/29/2002	T'storm/Wind	50	0	0	\$5,000	\$0
Unincorp. Butler County: Garland	12/24/2002	T'storm/Wind	50	0	0	\$5,000	\$0
Greenville	5/2/2003	T'storm/Wind	50	0	0	\$25,000	\$0
Greenville	8/6/2003	T'storm/Wind	50	0	0	\$8,000	\$0
Unincorp. Butler County: Chapman	4/30/2005	T'storm/Wind	70	0	0	\$500,000	\$0
Greenville	4/21/2006	T'storm/Wind	50	0	0	\$10,000	\$0
Greenville	10/17/2006	Heavy Rain		0	1	\$60,000	\$0
Greenville	1/7/2007	T'storm/Wind	50	0	0	\$12,000	\$0
Greenville	6/12/2007	T'storm/Wind	50	0	0	\$10,000	\$0
Greenville	7/7/2007	T'storm/Wind	50	0	0	\$25,000	\$0
Greenville	8/17/2007	T'storm/Wind	50	0	0	\$12,000	\$0
Georgiana	10/23/2007	T'storm/Wind	50	0	0	\$15,000	\$0
Greenville	1/10/2008	T'storm/Wind	50	0	0	\$10,000	\$0
Georgiana	1/31/2008	T'storm/Wind	50	0	0	\$10,000	\$0
Greenville	2/6/2008	T'storm/Wind	50	0	0	\$25,000	\$0
Unincorp. Butler County: Forest Home	2/26/2008	T'storm/Wind	50	0	0	\$15,000	\$0
Greenville	5/15/2008	T'storm/Wind	50	0	0	\$10,000	\$0
Georgiana	6/25/2008	T'storm/Wind	50	0	0	\$10,000	\$0
Georgiana	6/25/2008	T'storm/Wind	50	0	0	\$12,000	\$0

Greenville	4/13/2009	T'storm/Wind	60	0	0	\$30,000	\$0
Greenville	6/24/2011	T'storm/Wind	52	0	0	\$5,000	\$0
Georgiana	8/8/2011	Lightning		0	0	\$5,000	\$0
Greenville	8/8/2011	Lightning		0	0	\$5,000	\$0
Greenville	8/22/2011	T'storm/Wind	51	0	0	\$0	\$0
Greenville	8/22/2011	T'storm/Wind	52	0	0	\$5,000	\$0
Greenville	1/23/2012	T'storm/Wind	52	0	1	\$3,000	\$0
Greenville	2/24/2012	T'storm/Wind	61	0	0	\$5,000	\$0
Georgiana	3/30/2012	Lightning		0	2	\$0	\$0
Greenville	3/30/2012	Lightning		1	0	\$0	\$0
Greenville	5/31/2012	T'storm/Wind	52	0	0	\$1,000	\$0
Georgiana	12/25/2012	T'storm/Wind	61	1	0	\$35,000	\$0
Georgiana	12/25/2012	T'storm/Wind	61	0	0	\$10,000	\$0
Greenville	12/25/2012	T'storm/Wind	61	0	0	\$15,000	\$0
Greenville	12/25/2012	T'storm/Wind	61	0	0	\$10,000	\$0
Unincorp. Butler County: Chapman	6/28/2013	T'storm/Wind	52	0	0	\$3,000	\$0
Greenville	4/29/2014	T'storm/Wind	52	0	0	\$10,000	\$0
Greenville	4/29/2014	T'storm/Wind	83	0	0	\$20,000	\$0
Unincorp. Butler County: Butler Springs	4/29/2014	T'storm/Wind	78	0	0	\$50,000	\$0
Unincorp. Butler County: Wald	4/29/2014	T'storm/Wind	65	0	0	\$20,000	\$0
Georgiana	6/30/2015	T'storm/Wind	52	0	0	\$5,000	\$0
Unincorp. Butler County: Chapman	8/11/2015	T'storm/Wind	52	0	0	\$2,000	\$0
Greenville	3/24/2016	T'storm/Wind	52	0	0	\$2,000	\$0
McKenzie	3/24/2016	T'storm/Wind	74	0	0	\$15,000	\$0
Unincorp. Butler County: Garland	3/24/2016	T'storm/Wind	61	0	0	\$25,000	\$0
Unincorp. Butler County: Pigeon Creek	3/24/2016	T'storm/Wind	52	0	0	\$2,000	\$0
Greenville	4/27/2016	T'storm/Wind	52	0	0	\$3,000	\$0
McKenzie	1/21/2017	T'storm/Wind	61	0	0	\$15,000	\$0
Georgiana	1/22/2017	T'storm/Wind	61	0	0	\$20,000	\$0
Unincorp. Butler County: Forest Home	1/22/2017	T'storm/Wind	61	0	0	\$5,000	\$0
Georgiana	6/28/2018	T'storm/Wind	61	0	0	\$5,000	\$0
Greenville	6/28/2018	T'storm/Wind	61	0	0	\$5,000	\$0
Unincorp. Butler County: Wald	6/28/2018	T'storm/Wind	61	0	0	\$30,000	\$0
Greenville	2/12/2019	T'storm/Wind	52	0	0	\$5,000	\$0
Greenville	4/18/2019	T'storm/Wind	52	0	0	\$10,000	\$0
Greenville	8/4/2019	T'storm/Wind	52	0	0	\$0	\$0
Greenville	1/11/2020	T'storm/Wind	52	0	0	\$0	\$0
<b>Total Thunderstorm Events</b>		<b>65 Events</b>		<b>2</b>	<b>4</b>	<b>\$1,280,000</b>	<b>\$0</b>
<b>Jurisdictional Summary: Thunderstorms, Winds, Heavy Rain</b>							
Countywide		0 Events		0	0	\$0	\$0
Georgiana		6 Events		1	2	\$127,000	\$0
Greenville		8 Events		1	2	\$396,000	\$0
McKenzie		37 Events		0	0	\$35,000	\$0
Unincorporated Butler County		14 Events		0	0	\$722,000	\$0

Source: NOAA, National Centers for Environmental Information, Storm Events Database.  
<https://www.ncdc.noaa.gov/stormevents/choosedates.jsp?statefips=1%2CALABAMA>

**Table 4.54: Profile of Thunderstorm, Winds, Hail, Heavy Rain Events, Coffee County, 2000 to 2020**

Location	Date	Type of Event	Mag	Death	Injuries	Property Damage	Crop Damage
NEW BROCKTON	1/10/2000	Thunderstorm Wind		0	0	\$15,000	\$0
ENTERPRISE	4/3/2000	Thunderstorm Wind		0	0	\$500	\$0
Unincorp. County	5/13/2000	Thunderstorm Wind		0	0	\$2,000	\$0
KINSTON	5/13/2000	Hail	0.75	0	0	\$0	\$0
ELBA	6/22/2000	Thunderstorm Wind		0	0	\$10,000	\$0
KINSTON	7/21/2000	Hail	1	0	0	\$0	\$0
KINSTON	7/21/2000	Thunderstorm Wind		0	0	\$100,000	\$0
ENTERPRISE	8/27/2000	Thunderstorm Wind		0	0	\$20,000	\$0
ENTERPRISE	3/3/2001	Thunderstorm Wind		0	0	\$1,000	\$0
ENTERPRISE	3/12/2001	Hail	0.75	0	0	\$0	\$0
COUNTYWIDE	3/12/2001	Thunderstorm Wind		0	0	\$75,000	\$0
ENTERPRISE	6/19/2001	Thunderstorm Wind		0	0	\$5,000	\$0
Unincorp. County	1/19/2002	Thunderstorm Wind		0	0	\$1,000	\$0
Unincorp. County	7/24/2002	Thunderstorm Wind		0	0	\$1,000	\$0
Unincorp. County	3/9/2003	Hail	0.75	0	0	\$0	\$0
ENTERPRISE	3/14/2003	Hail	0.88	0	0	\$0	\$0
ENTERPRISE	4/8/2004	Thunderstorm Wind	55	0	0	\$0	\$0
Unincorp. County	5/2/2004	Thunderstorm Wind	55	0	0	\$25,000	\$0
KINSTON	5/31/2004	Hail	1.75	0	0	\$0	\$0
COUNTYWIDE	6/2/2004	Thunderstorm Wind	50	0	0	\$1,000	\$0
ELBA	6/2/2004	Hail	0.75	0	0	\$0	\$0
ENTERPRISE	6/27/2004	Thunderstorm Wind	50	0	0	\$1,000	\$0
ELBA	7/15/2004	Hail	1.75	0	0	\$0	\$0
ELBA	7/15/2004	Hail	0.75	0	0	\$0	\$0
COUNTYWIDE	7/15/2004	Thunderstorm Wind	55	0	0	\$250,000	\$0
ENTERPRISE	7/15/2004	Hail	0.75	0	0	\$0	\$0
Unincorp. County	7/15/2004	Thunderstorm Wind	55	0	0	\$1,000	\$0
Unincorp. County	3/26/2005	Hail	2	0	0	\$50,000	\$0
NEW BROCKTON	4/6/2005	Hail	0.88	0	0	\$0	\$0
COUNTYWIDE	4/30/2005	Thunderstorm Wind	55	0	0	\$15,000	\$0
ENTERPRISE	5/20/2005	Hail	0.75	0	0	\$0	\$0
ENTERPRISE	5/20/2005	Hail	1.25	0	0	\$0	\$0
ENTERPRISE	1/13/2006	Thunderstorm Wind	50	0	0	\$1,000	\$0
ELBA	4/8/2006	Hail	0.88	0	0	\$0	\$0
ENTERPRISE	4/8/2006	Hail	0.75	0	0	\$0	\$0
ENTERPRISE	5/10/2006	Thunderstorm Wind	55	0	0	\$2,000	\$0
NEW BROCKTON	6/25/2006	Thunderstorm Wind	55	0	0	\$50,000	\$0



Unincorp. County	8/15/2006	Thunderstorm Wind	50	0	0	\$1,000	\$0
ELBA	8/30/2006	Thunderstorm Wind	50	0	0	\$250	\$0
Unincorp. County	11/15/2006	Thunderstorm Wind	60	0	0	\$30,000	\$0
ENTERPRISE	11/15/2006	Thunderstorm Wind	60	0	0	\$25,000	\$0
ELBA	4/14/2007	Thunderstorm Wind	50	0	0	\$250	\$0
NEW BROCKTON	4/14/2007	Thunderstorm Wind	60	0	0	\$15,000	\$0
ELBA	6/12/2007	Hail	0.75	0	0	\$0	\$0
KINSTON	6/12/2007	Thunderstorm Wind	50	0	0	\$500	\$0
ELBA	6/12/2007	Thunderstorm Wind	55	0	0	\$50,000	\$0
ELBA	7/20/2007	Thunderstorm Wind	50	0	0	\$250	\$0
ENTERPRISE	7/20/2007	Thunderstorm Wind	50	0	0	\$250	\$0
ELBA	2/6/2008	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	2/17/2008	Thunderstorm Wind	60	0	0	\$300,000	\$0
Unincorp. County	2/17/2008	Thunderstorm Wind	60	0	0	\$50,000	\$0
Unincorp. County	2/17/2008	Thunderstorm Wind	55	0	0	\$5,000	\$0
Unincorp. County	2/17/2008	Thunderstorm Wind	60	0	0	\$60,000	\$0
Unincorp. County	2/26/2008	Thunderstorm Wind	50	0	0	\$1,000	\$0
Unincorp. County	2/26/2008	Thunderstorm Wind	50	0	0	\$250	\$0
Unincorp. County	2/26/2008	Thunderstorm Wind	50	0	0	\$250	\$0
Unincorp. County	6/3/2008	Thunderstorm Wind	50	0	0	\$250	\$0
Unincorp. County	6/3/2008	Thunderstorm Wind	50	0	0	\$1,000	\$0
Unincorp. County	7/12/2008	Thunderstorm Wind	51	0	0	\$0	\$0
Unincorp. County	7/12/2008	Hail	0.75	0	0	\$0	\$0
Enterprise	3/26/2009	Thunderstorm Wind	60	0	0	\$100,000	\$0
ELBA	3/27/2009	Thunderstorm Wind	55	0	0	\$0	\$0
ELBA	3/27/2009	Thunderstorm Wind	55	0	0	\$1,000	\$0
ENTERPRISE	3/27/2009	Thunderstorm Wind	60	0	0	\$0	\$0
ENTERPRISE	3/28/2009	Hail	0.88	0	0	\$0	\$0
Unincorp. County	6/14/2009	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	6/14/2009	Thunderstorm Wind	55	0	0	\$1,000	\$0
Unincorp. County	7/5/2009	Thunderstorm Wind	55	0	0	\$250,000	\$0
NEW BROCKTON	1/24/2010	Thunderstorm Wind	50	0	0	\$0	\$0
ENTERPRISE	6/19/2010	Thunderstorm Wind	55	0	0	\$12,500	\$0
Unincorp. County	3/9/2011	Thunderstorm Wind	55	0	0	\$7,000	\$0
Unincorp. County	3/9/2011	Thunderstorm Wind	50	0	0	\$1,500	\$0
ENTERPRISE	3/27/2011	Hail	1	0	0	\$0	\$0
ENTERPRISE	3/27/2011	Hail	0.75	0	0	\$0	\$0
Unincorp. County	4/4/2011	Thunderstorm Wind	50	0	0	\$7,000	\$0
KINSTON	4/28/2011	Thunderstorm Wind	50	0	0	\$5,000	\$0
ELBA	6/17/2011	Thunderstorm Wind	50	0	0	\$10,000	\$0
Unincorp. County	6/17/2011	Thunderstorm Wind	50	0	0	\$3,000	\$0
Unincorp. County	6/17/2011	Thunderstorm Wind	50	0	0	\$3,000	\$0
Unincorp. County	6/17/2011	Thunderstorm Wind	50	0	0	\$3,000	\$0

Unincorp. County	7/2/2011	Thunderstorm Wind	50	0	0	\$1,000	\$0
Unincorp. County	7/2/2011	Thunderstorm Wind	50	0	0	\$1,000	\$0
Unincorp. County	9/3/2011	Heavy Rain		0	0	\$0	\$0
Unincorp. County	9/3/2011	Heavy Rain		0	0	\$0	\$0
Unincorp. County	3/2/2012	Thunderstorm Wind	55	0	0	\$2,000	\$0
Unincorp. County	4/5/2012	Thunderstorm Wind	50	0	0	\$5,000	\$0
Enterprise	5/6/2012	Thunderstorm Wind	50	0	0	\$1,000	\$0
Unincorp. County	5/8/2012	Thunderstorm Wind	50	0	0	\$2,000	\$0
Unincorp. County	6/10/2012	Thunderstorm Wind	50	0	0	\$1,000	\$0
ENTERPRISE	6/10/2012	Thunderstorm Wind	50	0	0	\$5,000	\$0
Unincorp. County	6/14/2012	Thunderstorm Wind	53	0	0	\$0	\$0
Unincorp. County	6/14/2012	Thunderstorm Wind	50	0	0	\$750	\$0
ENTERPRISE	6/14/2012	Thunderstorm Wind	50	0	0	\$3,000	\$0
Unincorp. County	6/14/2012	Hail	0.75	0	0	\$0	\$0
Unincorp. County	7/2/2012	Thunderstorm Wind	50	0	0	\$750	\$0
SHELL ARMY FIELD	7/17/2012	Thunderstorm Wind	50	0	0	\$3,000	\$0
Unincorp. County	7/30/2012	Thunderstorm Wind	50	0	0	\$3,000	\$0
NEW BROCKTON	8/14/2012	Thunderstorm Wind	50	0	0	\$2,000	\$0
Unincorp. County	2/10/2013	Thunderstorm Wind	50	0	0	\$3,000	\$0
Enterprise	6/28/2013	Thunderstorm Wind	45	0	0	\$25,000	\$0
Unincorp. County	7/23/2013	Thunderstorm Wind	50	0	0	\$2,000	\$0
ENTERPRISE	7/23/2013	Thunderstorm Wind	50	0	0	\$1,000	\$0
ENTERPRISE	7/23/2013	Thunderstorm Wind	50	0	0	\$10,000	\$0
ENTERPRISE	8/12/2013	Thunderstorm Wind	50	0	0	\$3,000	\$0
Enterprise	3/16/2014	Thunderstorm Wind	50	0	0	\$2,000	\$0
Enterprise	3/16/2014	Thunderstorm Wind	50	0	0	\$2,000	\$0
ENTERPRISE	3/16/2014	Thunderstorm Wind	50	0	0	\$2,000	\$0
Unincorp. County	4/29/2014	Thunderstorm Wind	50	0	0	\$500	\$0
Unincorp. County	4/29/2014	Thunderstorm Wind	50	0	0	\$500	\$0
ELBA	6/8/2014	Thunderstorm Wind	50	0	0	\$3,000	\$0
Unincorp. County	8/24/2014	Thunderstorm Wind	50	0	0	\$500	\$0
ENTERPRISE	11/23/2014	Thunderstorm Wind	50	0	0	\$1,000	\$0
ENTERPRISE	4/19/2015	Thunderstorm Wind	50	0	0	\$1,000	\$0
ENTERPRISE	4/25/2015	Thunderstorm Wind	55	0	0	\$5,000	\$0
Unincorp. County	4/25/2015	Thunderstorm Wind	50	0	0	\$0	\$0
ENTERPRISE	5/17/2015	Thunderstorm Wind	50	0	0	\$2,000	\$0
Unincorp. County	6/13/2015	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	6/13/2015	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	6/13/2015	Thunderstorm Wind	50	0	0	\$0	\$0
ENTERPRISE	6/13/2015	Thunderstorm Wind	50	0	0	\$0	\$0
ENTERPRISE	6/13/2015	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	6/13/2015	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	6/30/2015	Thunderstorm Wind	55	0	0	\$0	\$0

ELBA	6/30/2015	Thunderstorm Wind	55	0	0	\$0	\$0
ELBA	7/4/2015	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	7/4/2015	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	7/15/2015	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	7/15/2015	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	8/7/2015	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	8/7/2015	Thunderstorm Wind	50	0	0	\$0	\$0
ENTERPRISE	8/21/2015	Hail	0.88	0	0	\$0	\$0
Unincorp. County	9/6/2015	Hail	0.88	0	0	\$0	\$0
ELBA	12/24/2015	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	12/24/2015	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	12/24/2015	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	1/22/2016	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	1/22/2016	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	2/15/2016	Thunderstorm Wind	50	0	0	\$20,000	\$0
Unincorp. County	2/15/2016	Thunderstorm Wind	50	0	0	\$3,000	\$0
Unincorp. County	2/15/2016	Thunderstorm Wind	50	0	0	\$3,000	\$0
Unincorp. County	2/15/2016	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	2/15/2016	Thunderstorm Wind	55	0	0	\$3,000	\$0
Unincorp. County	3/24/2016	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	3/24/2016	Thunderstorm Wind	50	0	0	\$0	\$0
ENTERPRISE	3/24/2016	Thunderstorm Wind	50	0	0	\$1,000	\$0
ENTERPRISE	3/24/2016	Thunderstorm Wind	50	0	0	\$2,000	\$0
KINSTON	3/31/2016	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	6/17/2016	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	6/17/2016	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	7/9/2016	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	7/9/2016	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	7/10/2016	Thunderstorm Wind	50	0	0	\$0	\$0
ELBA	7/21/2016	Thunderstorm Wind	50	0	0	\$2,000	\$0
Unincorp. County	8/14/2016	Thunderstorm Wind	50	0	0	\$1,000	\$0
ENTERPRISE	8/14/2016	Thunderstorm Wind	55	0	0	\$5,000	\$0
Unincorp. County	11/30/2016	Thunderstorm Wind	45	0	0	\$1,000	\$0
ENTERPRISE	11/30/2016	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	1/21/2017	Thunderstorm Wind	50	0	0	\$0	\$0
ENTERPRISE	5/20/2017	Hail	1	0	0	\$0	\$0
Unincorp. County	7/8/2017	Thunderstorm Wind	50	0	0	\$0	\$0
ENTERPRISE	9/23/2017	Hail	1	0	0	\$0	\$0
ELBA	5/17/2018	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	5/17/2018	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	5/17/2018	Thunderstorm Wind	50	0	0	\$2,000	\$0
Unincorp. County	6/9/2018	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	6/28/2018	Thunderstorm Wind	55	0	0	\$2,000	\$0

Unincorp. County	6/28/2018	Thunderstorm Wind	55	0	0	\$0	\$0
Unincorp. County	6/28/2018	Thunderstorm Wind	55	0	0	\$0	\$0
ELBA	6/28/2018	Thunderstorm Wind	55	0	0	\$3,000	\$0
ENTERPRISE	6/28/2018	Thunderstorm Wind	55	0	0	\$15,000	\$0
Unincorp. County	6/28/2018	Thunderstorm Wind	55	0	0	\$0	\$0
Unincorp. County	6/28/2018	Thunderstorm Wind	55	0	0	\$5,000	\$0
ENTERPRISE	7/21/2018	Thunderstorm Wind	50	0	0	\$0	\$0
ELBA	7/22/2018	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	7/22/2018	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	7/22/2018	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	7/22/2018	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	7/22/2018	Thunderstorm Wind	50	0	0	\$2,000	\$0
Unincorp. County	7/22/2018	Hail	0.75	0	0	\$0	\$0
ENTERPRISE	7/22/2018	Thunderstorm Wind	50	0	0	\$2,000	\$0
KINSTON	8/10/2018	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	8/10/2018	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	8/10/2018	Thunderstorm Wind	50	0	0	\$0	\$0
ELBA	8/10/2018	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	11/1/2018	Thunderstorm Wind	50	0	0	\$1,000	\$0
Unincorp. County	11/1/2018	Thunderstorm Wind	50	0	0	\$1,000	\$0
Unincorp. County	4/25/2019	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	4/25/2019	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	5/12/2019	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	7/9/2019	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	7/9/2019	Thunderstorm Wind	50	0	0	\$2,000	\$0
Unincorp. County	7/9/2019	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	12/17/2019	Thunderstorm Wind	55	0	0	\$5,000	\$0
Unincorp. County	12/17/2019	Thunderstorm Wind	55	0	0	\$6,000	\$0
Unincorp. County	1/11/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	1/11/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	1/11/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	1/11/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Elba	1/11/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	1/11/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	1/11/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	1/11/2020	Thunderstorm Wind	50	0	0	\$0	\$0
KINSTON	1/11/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	1/11/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	1/11/2020	Thunderstorm Wind	50	0	0	\$0	\$0
ENTERPRISE	1/11/2020	Thunderstorm Wind	50	0	0	\$0	\$0
ENTERPRISE	1/11/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	1/11/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	1/11/2020	Thunderstorm Wind	50	0	0	\$0	\$0



NEW BROCKTON	3/4/2020	Thunderstorm Wind	55	0	0	\$30,000	\$0
Unincorp. County	3/31/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	3/31/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	3/31/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	4/12/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	4/13/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	4/13/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	4/13/2020	Thunderstorm Wind	55	0	0	\$0	\$0
Unincorp. County	4/13/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	4/13/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Elba	4/13/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Elba	4/13/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	4/13/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	4/13/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Elba	4/13/2020	Thunderstorm Wind	50	0	0	\$0	\$0
ELBA	4/13/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	4/13/2020	Thunderstorm Wind	50	0	0	\$0	\$0
NEW BROCKTON	4/13/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	4/13/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	4/13/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Enterprise	4/13/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	4/13/2020	Thunderstorm Wind	50	0	0	\$0	\$0
ENTERPRISE	4/13/2020	Thunderstorm Wind	55	0	0	\$3,000	\$0
Unincorp. County	4/19/2020	Thunderstorm Wind	50	0	0	\$0	\$0
Unincorp. County	4/19/2020	Thunderstorm Wind	60	0	0	\$0	\$0
Unincorp. County	4/19/2020	Thunderstorm Wind	60	0	0	\$0	\$0
ELBA	4/19/2020	Thunderstorm Wind	60	0	0	\$0	\$0
Unincorp. County	4/19/2020	Thunderstorm Wind	60	0	0	\$0	\$0
Unincorp. County	4/19/2020	Thunderstorm Wind	60	0	0	\$0	\$0
Unincorp. County	4/19/2020	Thunderstorm Wind	60	0	0	\$0	\$0
Unincorp. County	4/19/2020	Thunderstorm Wind	60	0	0	\$0	\$0
Unincorp. County	4/19/2020	Thunderstorm Wind	65	0	0	\$15,000	\$0
Unincorp. County	4/19/2020	Thunderstorm Wind	60	0	0	\$0	\$0
Unincorp. County	4/19/2020	Thunderstorm Wind	60	0	0	\$0	\$0
ELBA	4/19/2020	Thunderstorm Wind	60	0	0	\$20,000	\$0
ELBA	4/19/2020	Thunderstorm Wind	60	0	0	\$20,000	\$0
Unincorp. County	4/19/2020	Thunderstorm Wind	60	0	0	\$0	\$0
Unincorp. County	4/19/2020	Thunderstorm Wind	60	0	0	\$0	\$0
Unincorp. County	4/19/2020	Thunderstorm Wind	60	0	0	\$0	\$0
Unincorp. County	4/19/2020	Thunderstorm Wind	65	0	0	\$50,000	\$0
Unincorp. County	4/19/2020	Thunderstorm Wind	60	0	0	\$0	\$0
Unincorp. County	4/19/2020	Thunderstorm Wind	60	0	0	\$0	\$0
Unincorp. County	4/19/2020	Thunderstorm Wind	60	0	0	\$0	\$0

Unincorp. County	4/19/2020	Thunderstorm Wind	60	0	0	\$0	\$0
Unincorp. County	4/19/2020	Thunderstorm Wind	60	0	0	\$0	\$0
Enterprise	4/23/2020	Thunderstorm Wind	50	0	0	\$2,000	\$0
<b>Total Thunderstorm Events</b>		<b>255 Events</b>				<b>\$1,891,750</b>	
<b>Jurisdictional Summary: Thunderstorms, Winds, Hail, Heavy Rain</b>							
Countywide		4 Events		0	0	\$341,000	\$0
Elba		31 Events		0	0	\$119,750	\$0
Enterprise		54 Events		0	0	\$258,250	\$0
Kinston		9 Events		0	0	\$105,500	\$0
New Brockton		8 Events		0	0	\$112,000	\$0
Unincorporated County		149 Events		0	0	\$112,000	\$0

**Table 4.55: Profile of Thunderstorm, Winds, Heavy Rain Events, Covington County, 2000 to 2020**

Location	Date	Type of Event	Mag	Death	Injury	Property Damage	Crop Damage
FLORALA	4/3/2000	Thunderstorm Wind	50	0	0	\$5000	\$0
ANDALUSIA	5/13/2000	Thunderstorm Wind	55	0	0	\$5000	\$0
OPP	5/13/2000	Thunderstorm Wind	50	0	0	\$8000	\$0
GANTT	7/8/2000	Thunderstorm Wind	55	0	0	\$7000	\$0
RED LEVEL	7/20/2000	Thunderstorm Wind	60	0	0	\$5000	\$0
OPP	7/21/2000	Thunderstorm Wind	60	0	0	\$10000	\$0
OPP	7/22/2000	Thunderstorm Wind	85	0	0	\$20000	\$0
RIVER FALLS	8/18/2000	Thunderstorm Wind	70	0	0	\$13000	\$0
ANDALUSIA	8/20/2000	Thunderstorm Wind	60	0	0	\$8000	\$0
WING	12/16/2000	Thunderstorm Wind	50	0	0	\$20000	\$0
FLORALA	3/3/2001	Thunderstorm Wind	60	0	0	\$20000	\$0
GANTT	3/12/2001	Thunderstorm Wind	70	0	0	\$200000	\$0
OPP	3/12/2001	Thunderstorm Wind	60	0	0	\$20000	\$0
WING	5/19/2001	Thunderstorm Wind	50	0	0	\$3000	\$0
ANDALUSIA	5/27/2001	Thunderstorm Wind	50	0	0	\$5000	\$0
RIVER FALLS	5/27/2001	Thunderstorm Wind	50	0	0	\$5000	\$0
GREEN BAY	5/27/2001	Thunderstorm Wind	50	0	0	\$5000	\$0
ANDALUSIA	6/5/2001	Thunderstorm Wind	60	0	0	\$10000	\$0
FLORALA	8/19/2001	Thunderstorm	50	0	0	\$8000	\$0

		Wind					
ANDALUSIA	10/13/2001	Thunderstorm Wind	50	0	0	\$10000	\$0
ANDALUSIA	3/12/2002	Thunderstorm Wind	50	0	0	\$10000	\$0
ANDALUSIA	6/5/2002	Thunderstorm Wind	50	0	0	\$10000	\$0
ANDALUSIA	6/19/2002	Thunderstorm Wind	50	0	0	\$8000	\$0
ANDALUSIA	7/20/2002	Thunderstorm Wind	50	0	0	\$10000	\$0
ANDALUSIA	7/20/2002	Thunderstorm Wind	50	0	0	\$8000	\$0
ANDALUSIA	7/23/2002	Thunderstorm Wind	50	0	0	\$8000	\$0
OPP	12/24/2002	Thunderstorm Wind	50	0	0	\$10000	\$0
LIBERTYVILLE	4/7/2003	Thunderstorm Wind	50	0	0	\$5000	\$0
ANDALUSIA	4/7/2003	Lightning		0	0	\$15000	\$0
WING	7/1/2003	Thunderstorm Wind	50	0	0	\$5000	\$0
ANDALUSIA	7/16/2003	Thunderstorm Wind	50	0	0	\$5000	\$0
ANDALUSIA	5/17/2004	Lightning		0	0	\$15000	\$0
ANDALUSIA	6/6/2004	Lightning		0	0	\$5000	\$0
FLORALA	7/7/2004	Lightning		1	0	\$0	\$0
OPP	7/15/2004	Thunderstorm Wind	50	0	0	\$8000	\$0
ANDALUSIA	5/8/2006	Thunderstorm Wind	50	0	0	\$12000	\$0
OPP	5/8/2006	Thunderstorm Wind	50	0	0	\$12000	\$0
ANDALUSIA	8/3/2006	Thunderstorm Wind	50	0	0	\$10000	\$0
FLORALA	3/1/2007	Thunderstorm Wind	50	0	0	\$15000	\$0
RED LEVEL	4/14/2007	Thunderstorm Wind	50	0	0	\$10000	\$0
ANDALUSIA	6/9/2007	Thunderstorm Wind	50	0	0	\$10000	\$0
RED LEVEL	6/12/2007	Thunderstorm Wind	50	0	0	\$8000	\$0
ANDALUSIA	6/26/2007	Thunderstorm Wind	50	0	0	\$100000	\$0
OPP	7/14/2007	Thunderstorm Wind	50	0	0	\$10000	\$0
GANTT	2/17/2008	Thunderstorm Wind	50	0	0	\$12000	\$0
WING	6/21/2008	Lightning		0	0	\$20000	\$0
OPP	6/30/2008	Lightning		0	0	\$25000	\$0
RIVER FALLS	7/12/2008	Thunderstorm Wind	50	0	0	\$20000	\$0
ANDALUSIA	10/8/2008	Thunderstorm Wind	50	0	0	\$10000	\$0

GREEN BAY	3/26/2009	Thunderstorm Wind	78	0	0	\$50000	\$0
ANDALUSIA	3/27/2009	Thunderstorm Wind	60	0	0	\$35000	\$0
FLORALA	3/28/2009	Thunderstorm Wind	50	0	0	\$12000	\$0
ANDALUSIA	3/28/2009	Thunderstorm Wind	50	0	0	\$12000	\$0
FLORALA	3/28/2009	Thunderstorm Wind	50	0	0	\$30000	\$0
RED LEVEL	11/15/2010	Thunderstorm Wind	52	0	0	\$10000	\$0
ANDALUSIA	11/15/2010	Thunderstorm Wind	52	0	0	\$5000	\$0
ANDALUSIA	2/1/2011	Thunderstorm Wind	52	0	0	\$5000	\$0
LOCKHART	2/1/2011	Thunderstorm Wind	52	0	0	\$5000	\$0
FLORALA	2/1/2011	Thunderstorm Wind	61	0	0	\$10000	\$0
LOANGO	3/9/2011	Thunderstorm Wind	52	0	0	\$2000	\$0
ANDALUSIA	3/9/2011	Thunderstorm Wind	52	0	0	\$5000	\$0
ANDALUSIA	3/9/2011	Thunderstorm Wind	52	0	0	\$5000	\$0
ANDALUSIA	3/9/2011	Thunderstorm Wind	52	0	0	\$2000	\$0
ANDALUSIA	3/9/2011	Thunderstorm Wind	52	0	0	\$5000	\$0
ANDALUSIA	3/9/2011	Thunderstorm Wind	52	0	0	\$5000	\$0
LIBERTYVILLE	3/9/2011	Thunderstorm Wind	52	0	0	\$2000	\$0
GANTT	4/4/2011	Thunderstorm Wind	50	0	0	\$0	\$0
FLORALA	4/4/2011	Thunderstorm Wind	50	0	0	\$0	\$0
FLORALA	4/4/2011	Thunderstorm Wind	50	0	0	\$0	\$0
HOWELLS	6/10/2011	Thunderstorm Wind	52	0	0	\$2000	\$0
BECK	12/22/2011	Thunderstorm Wind	52	0	0	\$3000	\$0
ANDALUSIA	12/20/2012	Thunderstorm Wind	52	0	0	\$3000	\$0
ANDALUSIA	7/23/2013	Thunderstorm Wind	52	0	0	\$5000	\$0
HEATH	3/16/2014	Thunderstorm Wind	52	0	0	\$2000	\$0
HEATH	3/16/2014	Thunderstorm Wind	52	0	0	\$3000	\$0
OPP	3/16/2014	Thunderstorm Wind	61	0	0	\$10000	\$0
GANTT	6/22/2014	Thunderstorm Wind	61	0	0	\$0	\$0



OPP	6/22/2014	Thunderstorm Wind	61	0	0	\$10000	\$0
ANDALUSIA	8/18/2014	Thunderstorm Wind	61	0	0	\$25000	\$0
ANDALUSIA	4/25/2015	Thunderstorm Wind	53	0	0	\$25000	\$0
OPP	4/25/2015	Thunderstorm Wind	52	0	0	\$2000	\$0
OPP	6/23/2015	Lightning		2	0	\$0	\$0
EODA	6/23/2015	Thunderstorm Wind	52	0	0	\$5000	\$0
GREEN BAY	8/7/2015	Thunderstorm Wind	52	0	0	\$5000	\$0
HAYGOOD	2/15/2016	Thunderstorm Wind	70	0	0	\$15000	\$0
WATKINS BRIDGE	3/3/2016	Thunderstorm Wind	61	0	0	\$10000	\$0
RIVER FALLS	3/24/2016	Thunderstorm Wind	52	0	0	\$10000	\$0
ANDALUSIA	3/24/2016	Thunderstorm Wind	52	0	0	\$2000	\$0
OPP	3/24/2016	Thunderstorm Wind	52	0	0	\$2000	\$0
FLORALA	3/31/2016	Thunderstorm Wind	52	0	0	\$2000	\$0
ANDALUSIA	6/17/2016	Thunderstorm Wind	50	0	0	\$0	\$0
ANDALUSIA	6/17/2016	Thunderstorm Wind	52	0	0	\$25000	\$0
GANTT	1/21/2017	Thunderstorm Wind	52	0	0	\$10000	\$0
SOUTH	4/3/2017	Thunderstorm Wind	52	0	0	\$3000	\$0
OPP	7/13/2017	Thunderstorm Wind	52	0	0	\$3000	\$0
ANDALUSIA	5/17/2018	Thunderstorm Wind	52	0	0	\$5000	\$0
ANDALUSIA	6/28/2018	Thunderstorm Wind	61	0	0	\$10000	\$0
ANDALUSIA	6/28/2018	Thunderstorm Wind	61	0	0	\$10000	\$0
FLORALA	6/28/2018	Thunderstorm Wind	52	0	0	\$5000	\$0
STEDMAN	3/3/2019	Thunderstorm Wind	52	0	0	\$5000	\$0
OPP	1/11/2020	Thunderstorm Wind	52	0	0	\$0	\$0
OPP	1/11/2020	Thunderstorm Wind	52	0	0	\$0	\$0
Red Level	1/13/2020	Heavy Rain		0	0	\$0	\$0
CLEARVIEW	3/31/2020	Thunderstorm Wind	52	0	0	\$0	\$0
RED LEVEL	4/12/2020	Thunderstorm Wind	61	0	0	\$0	\$0
GANTT	4/19/2020	Thunderstorm Wind	78	0	2	\$0	\$0

ANDALUSIA	4/19/2020	Thunderstorm Wind	61	0	0	\$0	\$0
ANDALUSIA	4/19/2020	Thunderstorm Wind	52	0	0	\$0	\$0
STEDMAN	4/23/2020	Thunderstorm Wind	61	0	0	\$0	\$0
<b>Jurisdiction Summary: Thunderstorms, Winds, Hail, Heavy Rain</b>							
Andalusia		37 Events		0	0	\$428,000	\$0
Floral		11 Events		0	0	\$107,000	\$0
Lockhart		1 Event		0	0	\$5,000	\$0
Opp		15 Events		0	0	\$125,000	\$0
Gantt		7 Events		0	0	\$229,000	\$0
Red Level		5 Events		0	0	\$33,000	\$0
River Falls		4 Events		0	0	\$48,000	\$0
Unincorporated Covington County		25 Events		0	2	\$178,000	\$0

**Table 4.56: Profile of Thunderstorm, Winds, Heavy Rain Events, Crenshaw County, 2000 to 2020**

Location	Date	Type of Event	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Luverne	7/20/2000	T'storm/Wind	55	0	0	\$5,000	\$0
Glenwood	8/9/2000	T'storm/Wind	50	0	0	\$8,000	\$0
Unincorp Crenshaw County: Honoraville	1/19/2001	T'storm/Wind	55	0	0	\$5,000	\$0
Dozier	3/12/2001	T'storm/Wind	75	0	0	\$15,000	\$0
Dozier	10/13/2001	T'storm/Wind	50	0	0	\$10,000	\$0
Luverne	10/13/2001	T'storm/Wind	55	0	0	\$15,000	\$0
Unincorp Crenshaw County: Patsburg	1/19/2002	T'storm/Wind	55	0	0	\$10,000	\$0
Unincorp Crenshaw County: Highland Home	3/12/2002	T'storm/Wind	50	0	0	\$10,000	\$0
Luverne	7/7/2002	T'storm/Wind	50	0	0	\$10,000	\$0
Brantley	7/20/2002	T'storm/Wind	50	0	0	\$10,000	\$0
Luverne	7/20/2002	T'storm/Wind	50	0	0	\$10,000	\$0
Unincorp Crenshaw County: Highland Home	12/19/2002	T'storm/Wind	50	0	0	\$5,000	\$0
Unincorp Crenshaw County: Highland Home	2/22/2003	T'storm/Wind	50	0	0	\$25,000	\$0
Rutledge	6/11/2003	T'storm/Wind	50	0	0	\$5,000	\$0
Brantley	6/26/2004	T'storm/Wind	50	0	0	\$5,000	\$0
Unincorp Crenshaw County: Bullock	7/15/2004	T'storm/Wind	50	0	0	\$8,000	\$0
Luverne	4/22/2005	T'storm/Wind	50	0	0	\$10,000	\$0
Unincorp Crenshaw County: Highland Home	4/22/2005	T'storm/Wind	50	0	0	\$15,000	\$0
Brantley	5/7/2006	T'storm/Wind	50	0	0	\$15,000	\$0

Unincorp Crenshaw County: Patsburg	7/20/2006	T'storm/Wind	50	0	0	\$8,000	\$0
Rutledge	4/26/2007	T'storm/Wind	50	0	0	\$7,000	\$0
Brantley	6/9/2007	T'storm/Wind	50	0	0	\$8,000	\$0
Brantley	7/10/2007	T'storm/Wind	50	0	0	\$25,000	\$0
Brantley	10/23/2007	T'storm/Wind	50	0	0	\$30,000	\$0
Unincorp Crenshaw County: Highland Home	1/10/2008	T'storm/Wind	50	0	0	\$8,000	\$0
Dozier	2/17/2008	T'storm/Wind	50	0	0	\$12,000	\$0
Unincorp Crenshaw County: Highland Home	2/17/2008	T'storm/Wind	55	0	0	\$30,000	\$0
Brantley	2/26/2008	T'storm/Wind	50	0	0	\$12,000	\$0
Unincorp Crenshaw County: Highland Home	2/26/2008	T'storm/Wind	50	0	0	\$12,000	\$0
Brantley	12/10/2008	T'storm/Wind	50	0	0	\$20,000	\$0
Unincorp Crenshaw County: Highland Home	3/27/2009	T'storm/Wind	52	0	0	\$12,000	\$0
Unincorp Crenshaw County: Highland Home	5/3/2009	T'storm/Wind	52	0	0	\$10,000	\$0
Brantley	5/4/2009	T'storm/Wind	52	0	0	\$15,000	\$0
Glenwood	8/11/2009	T'storm/Wind	52	0	0	\$10,000	\$0
Luverne	9/15/2009	T'storm/Wind	50	0	0	\$0	\$0
Unincorp Crenshaw County: Searight	12/14/2009	T'storm/Wind	50	0	0	\$0	\$0
Unincorp Crenshaw County: Highland Home	4/4/2011	T'storm/Wind	50	0	0	\$0	\$0
Unincorp Crenshaw County: Highland Home	4/4/2011	T'storm/Wind	50	0	0	\$0	\$0
Brantley	5/13/2011	T'storm/Wind	52	0	0	\$5,000	\$0
Unincorp Crenshaw County: Highland Home	6/28/2011	T'storm/Wind	52	0	0	\$5,000	\$0
Unincorp Crenshaw County: Bsaveille	11/16/2011	T'storm/Wind	52	0	0	\$2,000	\$0
Luverne	2/24/2012	T'storm/Wind	52	0	0	\$5,000	\$0
Brantley	7/3/2012	T'storm/Wind	61	0	0	\$10,000	\$0
Luverne	7/23/2013	T'storm/Wind	52	0	0	\$2,000	\$0
Brantley	8/6/2013	T'storm/Wind	52	0	0	\$3,000	\$0
Brantley	2/15/2016	T'storm/Wind	52	0	0	\$5,000	\$0
Unincorp Crenshaw County: Saville	2/15/2016	T'storm/Wind	52	0	0	\$5,000	\$0
Unincorp Crenshaw County: Social Town	2/15/2016	T'storm/Wind	52	0	0	\$0	\$0
Rutledge	3/3/2016	T'storm/Wind	52	0	0	\$10,000	\$0
Brantley	3/24/2016	T'storm/Wind	52	0	0	\$2,000	\$0
Brantley	3/24/2016	T'storm/Wind	52	0	0	\$2,000	\$0
Brantley	3/24/2016	T'storm/Wind	61	0	0	\$40,000	\$0
Dozier	3/24/2016	T'storm/Wind	52	0	0	\$2,000	\$0
Dozier	3/24/2016	T'storm/Wind	52	0	0	\$2,000	\$0

Unincorp Crenshaw County: Honoraville	4/27/2016	T'storm/Wind	52	0	0	\$5,000	\$0
Unincorp Crenshaw County: Honoraville	6/26/2016	T'storm/Wind	52	0	0	\$1,000	\$0
Luverne	1/21/2017	T'storm/Wind	61	0	0	\$10,000	\$0
Luverne	4/3/2017	T'storm/Wind	78	0	0	\$1,000,000	\$0
Unincorp Crenshaw County: Highland Home	8/30/2017	T'storm/Wind	52	0	0	\$5,000	\$0
Luverne	6/28/2018	T'storm/Wind	61	0	0	\$20,000	\$0
Brantley	4/14/2019	T'storm/Wind	52	0	0	\$5,000	\$0
Glenwood	8/4/2019	T'storm/Wind	52	0	0	\$0	\$0
Luverne	1/11/2020	T'storm/Wind	52	0	0	\$0	\$0
Rutledge	1/11/2020	T'storm/Wind	52	0	0	\$0	\$0
Unincorp Crenshaw County: Highland Home	1/11/2020	T'storm/Wind	52	0	0	\$0	\$0
Unincorp Crenshaw County: Bradleyton	3/4/2020	T'storm/Wind	52	0	0	\$0	\$0
Luverne	3/31/2020	T'storm/Wind	52	0	0	\$0	\$0
Luverne	3/31/2020	T'storm/Wind	52	0	0	\$0	\$0
Luverne	3/31/2020	T'storm/Wind	52	0	0	\$0	\$0
Luverne	3/31/2020	T'storm/Wind	52	0	0	\$0	\$0
Unincorp Crenshaw County: Bradleyton	3/31/2020	T'storm/Wind	52	0	0	\$0	\$0
Unincorp Crenshaw County: Honoraville	3/31/2020	T'storm/Wind	52	0	0	\$0	\$0
Luverne	4/12/2020	T'storm/Wind	52	0	0	\$0	\$0
Unincorp Crenshaw County: Bradleyton	4/12/2020	T'storm/Wind	52	0	0	\$0	\$0
Unincorp Crenshaw County: Highland Home	4/12/2020	T'storm/Wind	52	0	0	\$0	\$0
Unincorp Crenshaw County: Patsburg	4/12/2020	T'storm/Wind	52	0	0	\$0	\$0
Unincorp Crenshaw County: Social Town	4/12/2020	T'storm/Wind	52	0	0	\$0	\$0
Brantley	4/19/2020	T'storm/Wind	52	0	0	\$0	\$0
Dozier	4/19/2020	T'storm/Wind	52	0	0	\$0	\$0
Luverne	4/19/2020	T'storm/Wind	61	0	0	\$0	\$0
Rutledge	4/19/2020	T'storm/Wind	52	0	0	\$0	\$0
Unincorp Crenshaw County: Highland Home	4/19/2020	T'storm/Wind	52	0	0	\$0	\$0
Unincorp Crenshaw County: Patsburg	4/19/2020	T'storm/Wind	61	0	0	\$0	\$0
Total Thunderstorm Events		83 Events		0	0	\$1,561,000	\$0
Crenshaw County Jurisdictional Summary: Thunderstorms, Winds, Heavy Rain							
Countywide		0 Events		0	0	\$0	\$0
Brantley		18 Events		0	0	\$212,000	\$0
Dozier		6 Events		0	0	\$41,000	\$0
Glenwood		3 Events		0	0	\$18,000	\$0
Luverne		18 Events		0	0	\$1,087,000	\$0
Petrey		0 Events		0	0	\$0	\$0
Rutledge		5 Events		0	0	\$22,000	\$0
Unincorporated Crenshaw County		33 Events		0	0	\$181,000	\$0



Source: NOAA, National Centers for Environmental Information, Storm Events Database.  
<https://www.ncdc.noaa.gov/stormevents/choosedates.jsp?statefips=1%2CALABAMA>

**Table 4.57: Profile of Thunderstorm, Winds, Hail, Heavy Rain Events, Dale County, 2000 to 2020**

Location	Date	Type of Event	Mag.	Deaths	Injuries	Property Damage	Crop Damage
OZARK	1/10/2000	Thunderstorm Wind		0	0	\$1000	\$0
NEWTON	3/11/2000	Hail	1.75	0	0	\$0	\$0
SKIPPERVILLE	4/3/2000	Thunderstorm Wind		0	0	\$50000	\$0
SOUTHEAST PORTION	7/23/2000	Thunderstorm Wind		0	0	\$25000	\$0
ARITON	7/30/2000	Thunderstorm Wind		0	0	\$5000	\$0
BROWNS XRDS	8/9/2000	Thunderstorm Wind		0	0	\$1000	\$0
NORTHWEST PORTION	8/19/2000	Thunderstorm Wind		0	0	\$20000	\$0
COUNTYWIDE	1/19/2001	Thunderstorm Wind		0	0	\$1000	\$0
DALEVILLE	3/3/2001	Thunderstorm Wind		0	0	\$1000	\$0
(OZR)FT RUCKER AAF	3/12/2001	Hail	0.75	0	0	\$0	\$0
OZARK	6/21/2001	Thunderstorm Wind		0	0	\$500	\$0
OZARK	7/10/2001	Thunderstorm Wind		0	0	\$1000	\$0
DALEVILLE	5/30/2002	Hail	0.75	0	0	\$0	\$0
ECHO	5/30/2002	Hail	1.75	0	0	\$0	\$0
ECHO	5/30/2002	Thunderstorm Wind		0	0	\$5000	\$0
OZARK	6/3/2002	Thunderstorm Wind		0	0	\$1000	\$0
DALEVILLE	7/20/2002	Hail	0.75	0	0	\$0	\$0
CLOPTON	7/21/2002	Hail	0.75	0	0	\$0	\$0
SKIPPERVILLE	7/21/2002	Thunderstorm Wind		0	0	\$1000	\$0
NEWTON	12/19/2002	Thunderstorm Wind	50	0	0	\$20000	\$0
MIDLAND CITY	12/24/2002	Thunderstorm Wind	50	0	0	\$5000	\$0
OZARK	2/22/2003	Thunderstorm Wind	50	0	0	\$3000	\$0
OZARK	4/25/2003	Thunderstorm Wind	50	0	0	\$20000	\$0
ECHO	8/3/2003	Thunderstorm Wind	50	0	0	\$1000	\$0
CAIRNS AFB	2/6/2004	Thunderstorm Wind	60	0	0	\$0	\$0

(OZR)FT RUCKER AAF	4/8/2004	Thunderstorm Wind	52	0	0	\$0	\$0
DALEVILLE	4/12/2004	Hail	1.75	0	0	\$0	\$0
OZARK	4/12/2004	Hail	1.75	0	0	\$0	\$0
OZARK	4/12/2004	Thunderstorm Wind	55	0	0	\$10000	\$0
COUNTYWIDE	6/2/2004	Thunderstorm Wind	50	0	0	\$5000	\$0
COUNTYWIDE	6/27/2004	Thunderstorm Wind	55	0	0	\$5000	\$0
EWELL	7/15/2004	Thunderstorm Wind	50	0	0	\$1000	\$0
OZARK	3/26/2005	Hail	0.88	0	0	\$0	\$0
DALEVILLE	3/26/2005	Hail	1.75	0	0	\$0	\$0
OZARK	3/26/2005	Hail	1.75	0	0	\$0	\$0
ARITON	4/22/2005	Hail	1.75	0	0	\$0	\$0
OZARK	4/22/2005	Thunderstorm Wind	50	0	0	\$1000	\$0
COUNTYWIDE	4/30/2005	Thunderstorm Wind	55	0	0	\$15000	\$0
DALE (ZONE)	7/9/2005	Hurricane (Typhoon)		0	0	\$300000	\$0
ARITON	8/14/2005	Thunderstorm Wind	50	0	0	\$500	\$0
ARITON	8/15/2005	Thunderstorm Wind	55	0	0	\$1000	\$0
ECHO	8/15/2005	Thunderstorm Wind	55	0	0	\$15000	\$0
OZARK	8/15/2005	Thunderstorm Wind	55	0	0	\$30000	\$0
LEVEL PLAINS XRDS	4/8/2006	Hail	1	0	0	\$0	\$0
MIDLAND CITY	5/10/2006	Hail	0.88	0	0	\$0	\$0
MIDLAND CITY	6/25/2006	Thunderstorm Wind	50	0	0	\$10000	\$0
COUNTYWIDE	8/8/2006	Thunderstorm Wind	60	0	0	\$500000	\$0
LEVEL PLAINS XRDS	8/15/2006	Thunderstorm Wind	50	0	0	\$15000	\$0
NEWTON	8/15/2006	Lightning		0	0	\$50000	\$0
OZARK	8/30/2006	Thunderstorm Wind	50	0	0	\$5000	\$0
EWELL	8/30/2006	Thunderstorm Wind	50	0	0	\$15000	\$0
NEWTON	11/15/2006	Thunderstorm Wind	60	0	0	\$3000	\$0
OZARK	3/1/2007	Hail	1.75	0	0	\$0	\$0
NEWTON	3/1/2007	Hail	1	0	0	\$0	\$0

OZARK	4/14/2007	Thunderstorm Wind	60	0	0	\$10000	\$0
OZARK	6/30/2007	Thunderstorm Wind	50	0	0	\$10000	\$0
(DHN)DOTHAN ARPT	7/1/2007	Thunderstorm Wind	51	0	0	\$25000	\$0
OZARK	8/31/2007	Thunderstorm Wind	50	0	0	\$10000	\$0
DALEVILLE	12/15/2007	Heavy Rain		0	0	\$0	\$0
OZARK	1/31/2008	Thunderstorm Wind	50	0	0	\$500	\$0
ARITON	2/17/2008	Thunderstorm Wind	60	0	0	\$100000	\$0
NEWTON	3/7/2008	Thunderstorm Wind	50	0	0	\$250	\$0
CAIRNS AFB	6/9/2008	Thunderstorm Wind	50	0	0	\$0	\$0
OZARK	7/5/2008	Thunderstorm Wind	55	0	0	5000	\$0
MARLEY MILL	7/11/2008	Thunderstorm Wind	50	0	0	\$0	\$0
DALEVILLE	8/25/2008	Thunderstorm Wind	55	0	0	\$50000	\$0
EWELL	1/7/2009	Thunderstorm Wind	50	0	0	\$0	\$0
(OZR)OZARK FORT RUCKER	2/28/2009	Thunderstorm Wind	50	0	0	\$0	\$0
FORT RUCKER	2/28/2009	Lightning		0	0	\$50000	\$0
DALEVILLE	3/28/2009	Thunderstorm Wind	55	0	0	\$0	\$0
ARITON	4/14/2009	Thunderstorm Wind	55	0	0	\$25000	\$0
DILLARD	6/14/2009	Thunderstorm Wind	55	0	0	\$100000	\$0
SKIPPERVILLE	6/14/2009	Thunderstorm Wind	55	0	0	\$25000	\$0
(DHN)NAPIER FIELD	6/14/2009	Thunderstorm Wind	53	0	0	\$0	\$0
SKIPPERVILLE	6/23/2009	Thunderstorm Wind	50	0	0	\$10000	\$0
EWELL	7/6/2009	Lightning		0	0	\$75000	\$0
OZARK	7/9/2009	Thunderstorm Wind	40	0	0	\$250	\$0
OZARK	7/29/2009	Thunderstorm Wind	50	0	0	\$1000	\$0
ECHO	2/22/2010	Lightning		0	0	\$5000	\$0
LOWE ARMY HELIPORT	6/19/2010	Thunderstorm Wind	62	0	0	\$0	\$0
(DHN)NAPIER FIELD	6/20/2010	Thunderstorm Wind	55	0	0	\$0	\$0
ROBERTS CROSSROADS	6/27/2010	Thunderstorm Wind	50	0	0	\$500	\$0

OZARK	7/20/2010	Thunderstorm Wind	50	0	0	\$1500	\$0
OZARK	7/21/2010	Thunderstorm Wind	50	0	0	\$2500	\$0
OZARK	2/1/2011	Thunderstorm Wind	50	0	0	\$5000	\$0
ARITON	3/9/2011	Thunderstorm Wind	55	0	0	\$2000	\$0
OZARK	3/27/2011	Hail	1	0	0	\$0	\$0
SYLVAN GROVE	3/27/2011	Hail	1	0	0	\$0	\$0
OZARK	3/27/2011	Hail	1	0	0	\$0	\$0
DALEVILLE	3/27/2011	Hail	1	0	0	\$0	\$0
PINCKARD	3/27/2011	Thunderstorm Wind	50	0	0	\$8000	\$0
OZARK	4/4/2011	Thunderstorm Wind	55	0	0	\$10000	\$0
PINCKARD	4/16/2011	Hail	0.88	0	0	\$0	\$0
FORT RUCKER	4/16/2011	Thunderstorm Wind	55	0	0	\$10000	\$0
EWELL	4/16/2011	Thunderstorm Wind	50	0	0	\$5000	\$0
ECHO	6/16/2011	Thunderstorm Wind	50	0	0	\$15000	\$0
EWELL	6/16/2011	Thunderstorm Wind	50	0	0	\$6000	\$0
FIVE POINTS	6/16/2011	Thunderstorm Wind	50	0	0	\$6000	\$0
GOLDBERG FIELD	6/24/2011	Thunderstorm Wind	50	0	0	\$5000	\$0
OZARK	6/28/2011	Thunderstorm Wind	50	0	0	\$5000	\$0
PINCKARD	7/1/2011	Thunderstorm Wind	50	0	0	\$3000	\$0
HIGHWAY 231 PEA RIVER BRIDGE	8/9/2011	Thunderstorm Wind	50	0	0	\$1500	\$0
OZARK	8/9/2011	Thunderstorm Wind	52	0	0	\$0	\$0
PLEASANT HILL	9/5/2011	Thunderstorm Wind	50	0	0	\$3000	\$0
OZARK	9/5/2011	Thunderstorm Wind	50	0	0	\$1000	\$0
ARGUTA	9/5/2011	Thunderstorm Wind	50	0	0	\$3000	\$0
MIDLAND CITY	9/5/2011	Thunderstorm Wind	52	0	0	\$0	\$0
HIGHWAY 231 PEA RIVER BRIDGE	12/20/2011	Heavy Rain		0	0	\$0	\$0
OZARK	12/22/2011	Thunderstorm Wind	52	0	0	\$0	\$0



DALE COUNTY LAKE	1/21/2012	Hail	0.75	0	0	\$0	\$0
OZARK	2/18/2012	Hail	1	0	0	\$0	\$0
OZARK	2/18/2012	Thunderstorm Wind	50	0	0	\$5000	\$0
MIDLAND CITY	3/1/2012	Thunderstorm Wind	50	0	0	\$5000	\$0
OZARK	4/5/2012	Hail	0.75	0	0	\$0	\$0
MARLEY MILL	4/5/2012	Thunderstorm Wind	50	0	0	\$2000	\$0
OZARK	4/5/2012	Thunderstorm Wind	51	0	0	\$0	\$0
OZARK	4/5/2012	Thunderstorm Wind	50	0	0	\$3000	\$0
BROWNS CROSSROADS	4/5/2012	Thunderstorm Wind	50	0	0	\$2000	\$0
ECHO	4/5/2012	Thunderstorm Wind	50	0	0	\$2000	\$0
MIDLAND CITY	4/5/2012	Thunderstorm Wind	50	0	0	\$2000	\$0
DEAN CHURCH RD	5/6/2012	Hail	0.75	0	0	\$0	\$0
DEAN CHURCH RD	5/6/2012	Hail	1.5	0	0	\$0	\$0
WARD BRIDGE	5/6/2012	Thunderstorm Wind	50	0	0	\$500	\$0
MARLEY MILL	6/10/2012	Thunderstorm Wind	50	0	0	\$3000	\$0
OZARK	6/11/2012	Thunderstorm Wind	45	0	0	\$500	\$0
PINCKARD	6/14/2012	Thunderstorm Wind	50	0	0	\$500	\$0
OZARK	6/14/2012	Thunderstorm Wind	40	0	0	\$500	\$0
NEWTON	7/2/2012	Thunderstorm Wind	50	0	0	\$0	\$0
FIVE POINTS	7/17/2012	Thunderstorm Wind	50	0	0	\$1000	\$0
FIVE POINTS	7/17/2012	Thunderstorm Wind	50	0	0	\$2000	\$0
NEWTON	7/17/2012	Heavy Rain		0	0	\$0	\$0
LEVEL PLAINS	7/30/2012	Thunderstorm Wind	50	0	0	\$3000	\$0
LEVEL PLAINS	7/30/2012	Lightning		0	0	\$1000	\$0
OZARK	8/7/2012	Heavy Rain		0	0	\$30000	\$0
OZARK	8/14/2012	Thunderstorm Wind	50	0	0	\$3000	\$0
OZARK	9/3/2012	Thunderstorm Wind	50	0	0	\$750	\$0
DALEVILLE	1/30/2013	Thunderstorm Wind	55	0	0	\$5000	\$0
OZARK	1/30/2013	Thunderstorm Wind	50	0	0	\$5000	\$0

HANCHEY FIELD	2/10/2013	Thunderstorm Wind	50	0	0	\$0	\$0
OZARK	2/10/2013	Thunderstorm Wind	50	0	0	\$5000	\$0
OZARK	4/11/2013	Thunderstorm Wind	50	0	0	\$3000	\$0
BLACKWELL FIELD	7/15/2013	Thunderstorm Wind	50	0	0	\$1000	\$0
BLACKWELL FIELD	7/15/2013	Thunderstorm Wind	50	0	0	\$1000	\$0
DEAN CHURCH RD	7/15/2013	Thunderstorm Wind	50	0	0	\$1000	\$0
OZARK	7/15/2013	Thunderstorm Wind	50	0	0	\$1000	\$0
OZARK	7/15/2013	Thunderstorm Wind	50	0	0	\$1000	\$0
PLEASANT HILL	7/15/2013	Thunderstorm Wind	50	0	0	\$1000	\$0
LEVEL PLAINS	7/23/2013	Thunderstorm Wind	50	0	0	\$2000	\$0
OZARK	7/23/2013	Thunderstorm Wind	50	0	0	\$1000	\$0
FORT RUCKER	7/23/2013	Thunderstorm Wind	50	0	0	\$2000	\$0
GOLDBERG FIELD	7/23/2013	Heavy Rain		0	0	\$0	\$0
ROCKY HEAD	1/11/2014	Thunderstorm Wind	50	0	0	\$500	\$0
ARITON	1/11/2014	Thunderstorm Wind	50	0	0	\$500	\$0
BEAMON	1/11/2014	Thunderstorm Wind	50	0	0	\$500	\$0
BLACKWELL FIELD	3/16/2014	Thunderstorm Wind	50	0	0	\$1000	\$0
DILLARD	4/29/2014	Thunderstorm Wind	50	0	0	\$500	\$0
ARITON	4/30/2014	Hail	1	0	0	\$0	\$0
SKIPPERVILLE	4/30/2014	Hail	0.88	0	0	\$0	\$0
DALEVILLE	5/26/2014	Thunderstorm Wind	50	0	0	\$1000	\$0
PINCKARD	5/27/2014	Hail	0.75	0	0	\$0	\$0
NEWTON	5/27/2014	Thunderstorm Wind	45	0	0	\$500	\$0
LEVEL PLAINS	6/8/2014	Thunderstorm Wind	50	0	0	\$2000	\$0
GREATER OLD SALEM CHURCH	6/24/2014	Thunderstorm Wind	50	0	0	\$1000	\$0
ARITON	6/24/2014	Thunderstorm Wind	50	0	0	\$1000	\$0

(DHN)NAPIER FIELD	7/28/2014	Thunderstorm Wind	55	0	0	\$0	\$0
DALE COUNTY LAKE	7/28/2014	Thunderstorm Wind	50	0	0	\$1000	\$0
OZARK	8/24/2014	Thunderstorm Wind	50	0	0	\$3000	\$0
LEVEL PLAINS	11/23/2014	Thunderstorm Wind	55	0	0	\$3000	\$0
PINCKARD	1/4/2015	Thunderstorm Wind	50	0	0	\$500	\$0
DALE COUNTY LAKE	4/19/2015	Thunderstorm Wind	50	0	0	\$0	\$0
OZARK	4/19/2015	Thunderstorm Wind	50	0	0	\$0	\$0
DALE COUNTY LAKE	4/19/2015	Thunderstorm Wind	50	0	0	\$0	\$0
DEAN CHURCH RD	4/19/2015	Thunderstorm Wind	50	0	0	\$0	\$0
OZARK	4/25/2015	Thunderstorm Wind	55	0	0	\$348000	\$0
(DHN)NAPIER FIELD	4/25/2015	Thunderstorm Wind	51	0	0	\$0	\$0
(OZR)OZARK FORT RUCKER	6/23/2015	Thunderstorm Wind	59	0	0	\$0	\$0
DALEVILLE	6/23/2015	Thunderstorm Wind	55	0	0	\$10000	\$0
FORT RUCKER	6/23/2015	Thunderstorm Wind	50	0	0	\$0	\$0
(OZR)OZARK FORT RUCKER	6/23/2015	Thunderstorm Wind	55	0	0	\$0	\$0
OZARK	6/30/2015	Thunderstorm Wind	50	0	0	\$0	\$0
OZARK	6/30/2015	Thunderstorm Wind	50	0	0	\$0	\$0
OZARK	6/30/2015	Thunderstorm Wind	50	0	0	\$0	\$0
ARGUTA	7/2/2015	Thunderstorm Wind	50	0	0	\$0	\$0
PINCKARD	7/2/2015	Thunderstorm Wind	50	0	0	\$0	\$0
MIDLAND CITY	7/3/2015	Hail	1	0	0	\$0	\$0
PINCKARD	7/3/2015	Thunderstorm Wind	50	0	0	\$0	\$0
LEVEL PLAINS	7/4/2015	Thunderstorm Wind	50	0	0	\$0	\$0
DILL	7/4/2015	Thunderstorm Wind	55	0	0	\$0	\$0
CAIRNS ARMY- AIR FIELD	7/13/2015	Thunderstorm Wind	51	0	0	\$0	\$0
BAGWELLS CROSSROADS	7/19/2015	Thunderstorm Wind	50	0	0	\$0	\$0

ROBERTS CROSSROADS	7/21/2015	Thunderstorm Wind	50	0	0	\$0	\$0
DILL	7/21/2015	Thunderstorm Wind	50	0	0	\$0	\$0
ECHO	8/7/2015	Thunderstorm Wind	50	0	0	\$0	\$0
WARD BRIDGE	8/7/2015	Thunderstorm Wind	50	0	0	\$0	\$0
MIDLAND CITY	8/21/2015	Thunderstorm Wind	50	0	0	\$2000	\$0
OZARK	9/5/2015	Thunderstorm Wind	50	0	0	\$10000	\$0
SKIPPERVILLE	9/5/2015	Thunderstorm Wind	50	0	0	\$0	\$0
GREATER OLD SALEM CHURCH	2/15/2016	Thunderstorm Wind	50	0	0	\$0	\$0
ARGUTA	2/15/2016	Thunderstorm Wind	50	0	0	\$0	\$0
OZARK	3/3/2016	Thunderstorm Wind	50	0	0	\$0	\$0
LEVEL PLAINS	3/17/2016	Hail	1	0	0	\$0	\$0
DALEVILLE	3/17/2016	Hail	1.75	0	0	\$0	\$0
MABSON	3/17/2016	Thunderstorm Wind	65	0	0	\$2000	\$0
ARITON	3/24/2016	Thunderstorm Wind	50	0	0	\$0	\$0
OZARK	3/24/2016	Thunderstorm Wind	50	0	0	\$0	\$0
BROWNS CROSSROADS	4/1/2016	Thunderstorm Wind	50	0	0	\$0	\$0
SKIPPERVILLE	6/17/2016	Thunderstorm Wind	50	0	0	\$0	\$0
HIGHWAY 231 PEA RIVER BRIDGE	6/17/2016	Thunderstorm Wind	55	0	0	\$10000	\$0
ARITON	6/17/2016	Thunderstorm Wind	65	0	0	\$25000	\$0
MARLEY MILL	6/17/2016	Thunderstorm Wind	50	0	0	\$0	\$0
SKIPPERVILLE	6/17/2016	Thunderstorm Wind	50	0	0	\$0	\$0
LEVEL PLAINS	6/17/2016	Thunderstorm Wind	50	0	0	\$0	\$0
CAIRNS ARMY-AIR FIELD	6/17/2016	Thunderstorm Wind	51	0	0	\$0	\$0
CAIRNS ARMY-AIR FIELD	7/5/2016	Thunderstorm Wind	56	0	0	\$0	\$0
MABSON	7/6/2016	Thunderstorm Wind	50	0	0	\$0	\$0
MIDLAND CITY	9/12/2016	Thunderstorm Wind	50	0	0	\$0	\$0
OZARK	1/21/2017	Hail	1	0	0	\$0	\$0



OZARK	1/21/2017	Thunderstorm Wind	50	0	0	\$25000	\$0
CLOPTON	1/21/2017	Thunderstorm Wind	50	0	0	\$0	\$0
OZARK	1/22/2017	Thunderstorm Wind	55	0	0	\$5000	\$0
CLAYHATCHEE	1/22/2017	Thunderstorm Wind	50	0	0	\$0	\$0
DEAN CHURCH RD	4/3/2017	Thunderstorm Wind	50	0	0	\$0	\$0
DALE COUNTY LAKE	4/3/2017	Thunderstorm Wind	50	0	0	\$0	\$0
MABSON	4/3/2017	Thunderstorm Wind	50	0	0	\$0	\$0
ECHO	4/3/2017	Thunderstorm Wind	50	0	0	\$0	\$0
LEVEL PLAINS	4/4/2017	Thunderstorm Wind	50	0	0	\$0	\$0
DALEVILLE	4/5/2017	Hail	1.25	0	0	\$0	\$0
NEWTON	4/5/2017	Hail	1.75	0	0	\$0	\$0
MABSON	4/5/2017	Thunderstorm Wind	50	0	0	\$0	\$0
PHILLIPS CROSSROADS	4/5/2017	Thunderstorm Wind	50	0	0	\$0	\$0
DALE COUNTY LAKE	4/5/2017	Thunderstorm Wind	50	0	0	\$2000	\$0
DILLARD	5/20/2017	Thunderstorm Wind	50	0	0	\$0	\$0
DILLARD	5/20/2017	Thunderstorm Wind	50	0	0	\$0	\$0
BARNES CROSSROADS	5/20/2017	Thunderstorm Wind	50	0	0	\$0	\$0
ARITON	7/7/2017	Thunderstorm Wind	50	0	0	\$1000	\$0
DALEVILLE	7/8/2017	Thunderstorm Wind	50	0	0	\$1000	\$0
DALEVILLE	7/8/2017	Thunderstorm Wind	50	0	0	\$1000	\$0
OZARK	7/8/2017	Thunderstorm Wind	50	0	0	\$0	\$0
DEAN CHURCH RD	7/8/2017	Thunderstorm Wind	50	0	0	\$0	\$0
OZARK	7/8/2017	Thunderstorm Wind	50	0	0	\$0	\$0
DALE COUNTY LAKE	7/8/2017	Thunderstorm Wind	50	0	0	\$0	\$0
PLEASANT HILL	7/14/2017	Thunderstorm Wind	55	0	0	\$5000	\$0
DALE COUNTY LAKE	7/14/2017	Thunderstorm Wind	50	0	0	\$0	\$0

GREATER OLD SALEM CHURCH	7/14/2017	Thunderstorm Wind	50	0	0	\$0	\$0
HIGHWAY 231 PEA RIVER BRIDGE	7/14/2017	Thunderstorm Wind	50	0	0	\$0	\$0
DALEVILLE	5/20/2018	Thunderstorm Wind	55	0	0	\$0	\$0
SKIPPERVILLE	6/2/2018	Thunderstorm Wind	50	0	0	\$0	\$0
BELLS CROSSROADS	6/9/2018	Thunderstorm Wind	50	0	0	\$0	\$0
DEAN CHURCH RD	6/9/2018	Thunderstorm Wind	50	0	0	\$0	\$0
DALE COUNTY LAKE	6/9/2018	Thunderstorm Wind	50	0	0	\$0	\$0
ROCKY HEAD	6/28/2018	Thunderstorm Wind	55	0	0	\$0	\$0
OZARK	6/28/2018	Thunderstorm Wind	55	0	0	\$3000	\$0
FORT RUCKER	6/28/2018	Thunderstorm Wind	55	0	0	\$0	\$0
GERALD	6/28/2018	Thunderstorm Wind	55	0	0	\$0	\$0
OZARK	7/22/2018	Hail	1	0	0	\$0	\$0
OZARK	7/22/2018	Hail	1	0	0	\$0	\$0
ROCKY HEAD	7/22/2018	Thunderstorm Wind	55	0	0	\$0	\$0
DILLARD	11/1/2018	Thunderstorm Wind	50	0	0	\$0	\$0
MABSON	1/19/2019	Thunderstorm Wind	50	0	0	\$0	\$0
LEVEL PLAINS	1/23/2019	Thunderstorm Wind	64	0	0	\$0	\$0
LOWE ARMY HELIPORT	1/23/2019	Thunderstorm Wind	50	0	0	\$0	\$0
PLEASANT HILL	1/23/2019	Thunderstorm Wind	50	0	0	\$3000	\$0
NEWTON	3/3/2019	Thunderstorm Wind	50	0	0	\$1000	\$0
FIVE POINTS	4/19/2019	Thunderstorm Wind	50	0	0	\$0	\$0
NEWTON	4/19/2019	Thunderstorm Wind	50	0	0	\$0	\$0
FORT RUCKER	5/12/2019	Thunderstorm Wind	55	0	0	\$0	\$0
DALE COUNTY LAKE	7/9/2019	Thunderstorm Wind	50	0	0	\$0	\$0
KLONDYKE HILL	7/18/2019	Thunderstorm Wind	50	0	0	\$0	\$0

BAGWELLS CROSSROADS	7/19/2019	Thunderstorm Wind	50	0	0	\$0	\$0
BROWNS CROSSROADS	7/19/2019	Thunderstorm Wind	50	0	0	\$0	\$0
EWELL	7/19/2019	Thunderstorm Wind	55	0	0	\$0	\$0
KLONDYKE HILL	8/3/2019	Hail	0.75	0	0	\$0	\$0
DALE COUNTY LAKE	8/3/2019	Thunderstorm Wind	50	0	0	\$10000	\$0
OZARK	1/11/2020	Thunderstorm Wind	55	0	0	\$0	\$0
FORT RUCKER	1/11/2020	Thunderstorm Wind	50	0	0	\$0	\$0
SKIPPERVILLE	1/11/2020	Thunderstorm Wind	50	0	0	\$2000	\$0
NEWTON	1/11/2020	Thunderstorm Wind	55	0	0	\$0	\$0
PINCKARD	1/11/2020	Thunderstorm Wind	55	0	0	\$0	\$0
(DHN)NAPIER FIELD	1/11/2020	Thunderstorm Wind	50	0	0	\$3000	\$0
(DHN)NAPIER FIELD	1/11/2020	Thunderstorm Wind	56	0	0	\$0	\$0
MIDLAND CITY	2/6/2020	Thunderstorm Wind	55	0	0	\$10000	\$0
NEWTON	3/4/2020	Thunderstorm Wind	55	0	0	\$5000	\$0
SYLVAN GROVE	3/4/2020	Thunderstorm Wind	50	0	0	\$4000	\$0
HOOPER STAGE FIELD	3/5/2020	Hail	1	0	0	\$0	\$0
SKIPPERVILLE	3/5/2020	Hail	1	0	0	\$0	\$0
OZARK	3/31/2020	Thunderstorm Wind	55	0	0	\$0	\$0
BAREFIELD CROSSROADS	3/31/2020	Thunderstorm Wind	50	0	0	\$0	\$0
BLACKWELL FIELD	4/12/2020	Thunderstorm Wind	50	0	0	\$0	\$0
ARITON	4/12/2020	Thunderstorm Wind	50	0	0	\$0	\$0
OZARK	4/13/2020	Thunderstorm Wind	50	0	0	\$0	\$0
MARLEY MILL	4/19/2020	Thunderstorm Wind	60	0	0	\$50000	\$0
ARITON	4/19/2020	Thunderstorm Wind	60	0	0	\$0	\$0
MARLEY MILL	4/19/2020	Thunderstorm Wind	60	0	0	\$0	\$0
OZARK	4/19/2020	Thunderstorm Wind	65	0	0	\$0	\$0

BLACKWELL FIELD	4/19/2020	Thunderstorm Wind	60	0	0	\$0	\$0
ROBERTS CROSSROADS	4/19/2020	Thunderstorm Wind	60	0	0	\$0	\$0
EWELL	4/19/2020	Thunderstorm Wind	60	0	0	\$0	\$0
SKIPPERVILLE	4/19/2020	Thunderstorm Wind	65	0	0	\$50000	\$0
ECHO	4/19/2020	Thunderstorm Wind	65	0	0	\$50000	\$0
GOLDBERG FIELD	4/19/2020	Thunderstorm Wind	65	0	0	\$2000	\$0
<b>Jurisdictional Summary: Thunderstorms, Winds, Hail, Heavy Rain</b>							
Countywide	5 Events		0	0	\$526,000	\$0	
Fort Rucker	12 Events		0	0	\$62,000	\$0	
Ariton	15 Event		0	0	\$151,000	\$0	
Clayhatchee	1 Event		0	0	\$0	\$0	
Daleville	17 Events		0	0	\$69,000	\$0	
Echo	10 Events		0	0	\$93,000	\$0	
Newton	10 Events		0	0	\$79,750	\$0	
Ozark	67 Events		0	0	\$587,000	\$0	
Pinckard	9 Events		0	0	\$12,000	\$0	
Skipperville	12 Events		0	0	\$0	\$0	
Midland City	10 Events		0	0	\$34,000	\$0	
Unincorporated Dale County	127 Events		0	0	\$728,000	\$0	

**Table 4.58: Profile of Thunderstorm, Winds, Heavy Rain Events, Geneva County, 2000 to 2020**

Location	Date	Type of Event	Mag.	Deaths	Injuries	Property Damage	Crop Damage
SAMSON	4/3/2000	T'storm/Wind	0	0	0	\$75000	\$0
GANER	4/3/2000	T'storm/Wind	0	0	0	\$20000	\$0
SAMSON	5/13/2000	T'storm/Wind	0	0	0	\$500	\$0
HARTFORD	5/13/2000	T'storm/Wind	0	0	0	\$15000	\$0
BELLWOOD	11/9/2000	T'storm/Wind	0	0	0	\$5000	\$0



GENEVA	1/19/2001	T'storm/Wind	0	0	0	\$600000	\$0
COUNTYWIDE	3/3/2001	T'storm/Wind	0	0	0	\$1000	\$0
BELLWOOD	5/27/2001	T'storm/Wind	0	0	0	\$1000	\$0
NORTHEAST PORTION	7/11/2001	T'storm/Wind	0	0	0	\$10000	\$0
GENEVA	5/11/2002	T'storm/Wind	0	0	0	\$25000	\$0
CHANCELLOR	5/11/2002	T'storm/Wind	0	0	0	\$5000	\$0
GENEVA	7/20/2002	T'storm/Wind	0	0	0	\$2000	\$0
COUNTYWIDE	12/24/2002	T'storm/Wind	50	0	0	\$10000	\$0
HARTFORD	3/20/2003	T'storm/Wind	50	0	0	\$3000	\$0
GENEVA	4/12/2004	T'storm/Wind	55	0	0	\$10000	\$0
BELLWOOD	4/12/2004	T'storm/Wind	55	0	0	\$100000	\$0
SAMSON	5/31/2004	T'storm/Wind	50	0	0	\$1000	\$0
HARTFORD	6/27/2004	T'storm/Wind	55	0	0	\$2000	\$0
COUNTYWIDE	7/15/2004	T'storm/Wind	55	0	0	\$15000	\$0
MALVERN	11/24/2004	T'storm/Wind	55	0	0	\$30000	\$0
GENEVA	5/10/2006	T'storm/Wind	55	0	0	\$500	\$0
SAMSON	6/24/2006	T'storm/Wind	50	0	0	\$20000	\$0
GENEVA	6/25/2006	T'storm/Wind	55	0	0	\$25000	\$0
SAMSON	7/16/2006	T'storm/Wind	55	0	0	\$25000	\$0
HARTFORD	11/15/2006	T'storm/Wind	60	0	0	\$10000	\$0
FADETTE	6/5/2007	T'storm/Wind	50	0	0	\$250	\$0
SLOCOMB	7/20/2007	T'storm/Wind	50	0	0	\$1000	\$0
Geneva	12/15/2007	T'storm/Wind	0	0	1	\$0	\$0
GENEVA	6/29/2008	T'storm/Wind	45	0	0	\$250	\$0
GENEVA	7/12/2008	T'storm/Wind	55	0	0	\$2000	\$0
HARTFORD	7/12/2008	T'storm/Wind	55	0	0	\$2000	\$0
BLACK	3/27/2009	T'storm/Wind	55	0	0	\$10000	\$0
HARTFORD	3/27/2009	T'storm/Wind	60	0	0	\$15000	\$0
MARL	4/13/2009	T'storm/Wind	60	0	0	\$10000	\$0
SLOCOMB	4/13/2009	T'storm/Wind	60	0	0	\$25000	\$0

PINEY GROVE	6/14/2009	T'storm/Wind	55	0	0	\$0	\$0
SAMSON	6/14/2009	T'storm/Wind	55	0	0	\$0	\$0
MARL	6/14/2009	T'storm/Wind	55	0	0	\$0	\$0
GENEVA	7/5/2009	T'storm/Wind	50	0	0	\$0	\$0
BLACK	6/19/2010	T'storm/Wind	50	0	0	\$500	\$0
BELLWOOD	6/20/2010	Heavy Rain	55	0	0	\$5000	\$0
GENEVA	7/9/2010	T'storm/Wind	50	0	0	\$1000	\$0
GENEVA	4/4/2011	T'storm/Wind	50	0	2	\$30000	\$0
GENEVA	9/5/2011	T'storm/Wind	50	0	0	\$3000	\$0
GENEVA	9/5/2011	T'storm/Wind	50	0	0	\$3000	\$0
Slocomb	1/21/2012	T'storm/Wind	0	0	0	\$0	\$0
Geneva	2/19/2012	T'storm/Wind	0	0	0	\$0	\$0
MALVERN	3/1/2012	T'storm/Wind	50	0	0	\$0	\$0
Samson	3/23/2012	T'storm/Wind	0	0	0	\$35000	\$0
Eunola	6/9/2012	T'storm/Wind	0	0	0	\$0	\$0
Geneva	6/9/2012	T'storm/Wind	0	0	0	\$0	\$0
GENEVA	6/10/2012	T'storm/Wind	55	0	0	\$5000	\$0
GENEVA	7/2/2012	T'storm/Wind	55	0	0	\$5000	\$0
MALVERN	7/17/2012	T'storm/Wind	50	0	0	\$4000	\$0
GENEVA MUNICIPAL ARPT	7/17/2012	T'storm/Wind	50	0	0	\$1000	\$0
LYTLE	12/20/2012	T'storm/Wind	50	0	0	\$1000	\$0
GENEVA	12/20/2012	T'storm/Wind	50	0	0	\$4000	\$0
SAMSON	1/30/2013	T'storm/Wind	55	0	0	\$5000	\$0
GENEVA	2/11/2013	Heavy Rain	50	0	0	\$3000	\$0
EARLYTOWN	4/11/2013	Heavy Rain	50	0	0	\$3000	\$0
SLOCOMB	4/11/2013	T'storm/Wind	50	0	0	\$20000	\$0
FADETTE	6/7/2013	Lightning	50	0	0	\$2000	\$0
MALVERN	6/7/2013	Heavy Rain	55	0	0	\$3000	\$0
BELLWOOD	6/28/2013	Heavy Rain	50	0	0	\$3000	\$0
GENEVA MUNICIPAL ARPT	6/28/2013	T'storm/Wind	50	0	0	\$90000	\$0
HIGH BLUFF	6/28/2013	T'storm/Wind	50	0	0	\$2000	\$0
Hartford	7/3/2013	T'storm/Wind	0	0	0	\$0	\$0

EUNOLA	7/4/2013	T'storm/Wind	55	0	0	\$10000	\$0
EUNOLA	7/15/2013	T'storm/Wind	50	0	0	\$1000	\$0
WEEKS	7/15/2013	T'storm/Wind	50	0	0	\$1000	\$0
SAMSON	5/12/2014	T'storm/Wind	50	0	0	\$500	\$0
SAMSON	5/12/2014	T'storm/Wind	50	0	0	\$2000	\$0
SLOCOMB	5/26/2014	T'storm/Wind	50	0	0	\$0	\$0
SLOCOMB	5/26/2014	T'storm/Wind	50	0	0	\$2000	\$0
GENEVA	6/6/2014	T'storm/Wind	50	0	0	\$3000	\$0
SOMERSET	6/6/2014	T'storm/Wind	50	0	0	\$1000	\$0
BLACK	6/8/2014	T'storm/Wind	50	0	0	\$1000	\$0
SLOCOMB	6/8/2014	T'storm/Wind	50	0	0	\$2000	\$0
SLOCOMB	6/8/2014	T'storm/Wind	50	0	0	\$1000	\$0
SLOCOMB	6/8/2014	Heavy Rain	50	0	0	\$1000	\$0
FADETTE	6/8/2014	T'storm/Wind	50	0	0	\$2000	\$0
COFFEE SPRINGS	4/19/2015	T'storm/Wind	55	0	0	\$1000	\$0
HACODA	4/25/2015	T'storm/Wind	50	0	0	\$10000	\$0
GENEVA	4/25/2015	T'storm/Wind	55	0	0	\$129000	\$0
SOMERSET	4/25/2015	T'storm/Wind	50	0	0	\$0	\$0
GENEVA MUNICIPAL ARPT	4/25/2015	T'storm/Wind	50	0	0	\$0	\$0
GENEVA	4/25/2015	T'storm/Wind	50	0	0	\$0	\$0
HIGH BLUFF	4/25/2015	T'storm/Wind	55	0	0	\$10000	\$0
HARTFORD	4/25/2015	T'storm/Wind	55	0	0	\$50000	\$0
SLOCOMB	4/25/2015	T'storm/Wind	55	0	0	\$0	\$0
SAMSON	6/13/2015	T'storm/Wind	50	0	0	\$0	\$0
COFFEE SPRINGS	6/13/2015	T'storm/Wind	50	0	0	\$0	\$0
SPEARS	7/2/2015	T'storm/Wind	55	0	0	\$0	\$0
GENEVA MUNICIPAL ARPT	7/15/2015	T'storm/Wind	50	0	0	\$0	\$0
SCRANTON	7/21/2015	T'storm/Wind	50	0	0	\$0	\$0
CHANCELLOR	7/21/2015	T'storm/Wind	50	0	0	\$0	\$0
COFFEE SPRINGS	7/21/2015	T'storm/Wind	50	0	0	\$0	\$0
HARTFORD	7/21/2015	T'storm/Wind	50	0	0	\$0	\$0
GENEVA	7/21/2015	T'storm/Wind	50	0	0	\$0	\$0

SAMSON	8/7/2015	T'storm/Wind	50	0	0	\$2000	\$0
COFFEE SPRINGS	12/28/2015	T'storm/Wind	50	0	0	\$0	\$0
SLOCOMB	2/15/2016	T'storm/Wind	50	0	0	\$0	\$0
LYTLE	2/23/2016	T'storm/Wind	50	0	0	\$0	\$0
LYTLE	2/23/2016	T'storm/Wind	50	0	0	\$0	\$0
GENEVA	2/23/2016	T'storm/Wind	55	0	0	\$5000	\$0
HARTFORD	2/23/2016	T'storm/Wind	60	0	0	\$10000	\$0
HARTFORD	2/23/2016	T'storm/Wind	50	0	0	\$0	\$0
SAMSON	6/17/2016	T'storm/Wind	50	0	0	\$0	\$0
CHANCELLOR	6/17/2016	T'storm/Wind	50	0	0	\$0	\$0
BELLWOOD	6/17/2016	T'storm/Wind	52	0	0	\$0	\$0
GENEVA	6/17/2016	T'storm/Wind	50	0	0	\$0	\$0
LIGHT	7/10/2016	T'storm/Wind	50	0	0	\$0	\$0
LIGHT	7/17/2016	T'storm/Wind	50	0	0	\$2000	\$0
MALVERN	7/17/2016	T'storm/Wind	50	0	0	\$0	\$0
HIGH BLUFF	8/14/2016	T'storm/Wind	50	0	0	\$0	\$0
HIGH BLUFF	8/14/2016	T'storm/Wind	50	0	0	\$1000	\$0
GANER	1/2/2017	T'storm/Wind	50	0	0	\$3000	\$0
SAMSON	1/2/2017	T'storm/Wind	50	0	0	\$0	\$0
GENEVA	1/2/2017	T'storm/Wind	50	0	0	\$0	\$0
COFFEE SPRINGS	1/2/2017	T'storm/Wind	50	0	0	\$0	\$0
BLACK	1/2/2017	T'storm/Wind	50	0	0	\$0	\$0
SLOCOMB	1/2/2017	T'storm/Wind	50	0	0	\$0	\$0
MALVERN	1/2/2017	T'storm/Wind	55	0	0	\$2000	\$0
MALVERN	1/2/2017	T'storm/Wind	74	0	0	\$0	\$0
FADETTE	1/22/2017	T'storm/Wind	55	0	0	\$0	\$0
HARTFORD	2/7/2017	T'storm/Wind	55	0	0	\$10000	\$0
SLOCOMB	2/7/2017	T'storm/Wind	74	0	0	\$250000	\$0
GANER	4/3/2017	T'storm/Wind	50	0	0	\$3000	\$0
GENEVA	5/12/2017	T'storm/Wind	50	0	0	\$2000	\$0
HACODA	6/22/2017	T'storm/Wind	50	0	0	\$1000	\$0
SAMSON	6/30/2017	T'storm/Wind	50	0	0	\$2000	\$0



HACODA	7/7/2017	T'storm/Wind	50	0	0	\$1000	\$0
MALVERN	7/26/2017	T'storm/Wind	45	0	0	\$1000	\$0
SAMSON	6/28/2018	T'storm/Wind	55	0	0	\$0	\$0
COFFEE SPRINGS	7/7/2018	T'storm/Wind	50	0	0	\$2000	\$0
DUNDEE	7/7/2018	T'storm/Wind	50	0	0	\$2000	\$0
SAMSON	7/7/2018	T'storm/Wind	50	0	0	\$2000	\$0
LIGHT	7/22/2018	T'storm/Wind	50	0	0	\$2000	\$0
GANER	7/22/2018	T'storm/Wind	50	0	0	\$2000	\$0
GANER	7/22/2018	T'storm/Wind	50	0	0	\$0	\$0
HENDRIX CROSSROAD	7/22/2018	T'storm/Wind	50	0	0	\$2000	\$0
SLOCOMB	7/22/2018	T'storm/Wind	50	0	0	\$2000	\$0
GENEVA	9/30/2018	T'storm/Wind	50	0	0	\$0	\$0
SAMSON	1/19/2019	T'storm/Wind	50	0	0	\$15000	\$0
SLOCOMB	3/3/2019	T'storm/Wind	55	0	0	\$50000	\$0
GENEVA	5/12/2019	T'storm/Wind	50	0	0	\$2000	\$0
GENEVA	12/17/2019	T'storm/Wind	50	0	0	\$0	\$0
SAMSON	1/11/2020	T'storm/Wind	50	0	0	\$0	\$0
GENEVA	1/11/2020	T'storm/Wind	50	0	0	\$0	\$0
HARTFORD	1/11/2020	T'storm/Wind	55	0	0	\$3000	\$0
SLOCOMB	1/11/2020	T'storm/Wind	50	0	0	\$0	\$0
HARTFORD	2/6/2020	T'storm/Wind	55	0	0	\$45000	\$0
SLOCOMB	4/13/2020	T'storm/Wind	50	0	0	\$3000	\$0
COFFEE SPRINGS	4/19/2020	T'storm/Wind	55	0	0	\$20000	\$0
HACODA	4/23/2020	T'storm/Wind	50	0	0	\$2000	\$0
BALD HILL	4/23/2020	T'storm/Wind	50	0	0	\$0	\$0
BAILEY CROSSROADS	4/23/2020	T'storm/Wind	50	0	0	\$0	\$0
BLACK	4/23/2020	T'storm/Wind	50	0	0	\$25000	\$0
SELLERSVILLE	4/23/2020	T'storm/Wind	50	0	0	\$2000	\$0
SLOCOMB	4/23/2020	T'storm/Wind	50	0	0	\$0	\$0
Total Thunderstorm Events	160 Events			0	3	\$1,971,500	\$0
Jurisdictional Summary: Thunderstorms, Winds, Hail, Heavy Rain							

Countywide	3 Events	0	0	\$26,000	\$0
Samson	23 Events	0	0	\$127,000	\$0
Slocumb	20 Events	0	0	\$358,000	\$0
Hartford	16 Events	0	0	\$482,000	\$0
Malvern	10 Events	0	0	\$43,000	\$0
Geneva	34 Events	0	3	\$950,000	\$0
Black	5 Events	0	0	\$36,500	\$0
Unincorporated Geneva County	66 Events	0	0	\$247,250	\$0

**Table 4.59: Profile of Thunderstorm, Winds, Heavy Rain Events, Henry County, 2000 to 2020**

Location	Date	Type of Event	Mag	Death	Injury	Property Damage	Crop Damage
ABBEVILLE	1/10/2000	Thunderstorm Wind		0	0	\$1000	\$0
NEWVILLE	4/3/2000	Thunderstorm Wind		0	0	\$10000	\$0
ABBEVILLE	7/12/2000	Thunderstorm Wind		0	0	\$50000	\$0
COUNTYWIDE	8/19/2000	Thunderstorm Wind		0	0	\$5000	\$0
HEADLAND	8/25/2000	Thunderstorm Wind		0	0	\$2000	\$0
NEWVILLE	8/25/2000	Thunderstorm Wind		0	0	\$500	\$0
HALEBURG	1/19/2001	Thunderstorm Wind		0	0	\$1000	\$0
HEADLAND	5/30/2002	Thunderstorm Wind		0	0	\$1000	\$0
HEADLAND	6/4/2002	Thunderstorm Wind		0	0	\$1000	\$0
NEWVILLE	6/14/2002	Thunderstorm Wind		0	0	\$2500	\$0
LAWRENCEVILLE	8/16/2003	Thunderstorm Wind	50	0	0	\$1000	\$0
HEADLAND	6/28/2004	Thunderstorm Wind	50	0	0	\$500	\$0
TUMBLETON	7/6/2005	Thunderstorm Wind	60	0	0	\$150000	\$0
CAPPS	8/15/2005	Thunderstorm Wind	55	0	0	\$2500	\$0
SHORTERVILLE	5/10/2006	Thunderstorm Wind	55	0	0	\$2000	\$0
ABBEVILLE	6/22/2006	Thunderstorm Wind	55	0	0	\$2000	\$0
ABBEVILLE	8/8/2006	Thunderstorm Wind	50	0	0	\$250	\$0
HEADLAND	11/15/2006	Thunderstorm	60	0	0	\$50000	\$0

		Wind					
HALEBURG	11/15/2006	Thunderstorm Wind	60	0	0	\$2000	\$0
ABBEVILLE	3/1/2007	Thunderstorm Wind	55	0	0	\$2000	\$0
ABBEVILLE	3/1/2007	Thunderstorm Wind	60	0	0	\$25000	\$0
NEWVILLE	4/14/2007	Thunderstorm Wind	60	0	0	\$1000	\$0
ABBEVILLE	5/12/2007	Thunderstorm Wind	50	0	0	\$500	\$0
ABBEVILLE	7/7/2007	Thunderstorm Wind	50	0	0	\$2000	\$0
ABBEVILLE	2/17/2008	Thunderstorm Wind	55	0	0	\$1000	\$0
ABBEVILLE	2/17/2008	Thunderstorm Wind	50	0	0	\$0	\$0
SCREAMER	2/17/2008	Thunderstorm Wind	60	0	0	\$250	\$0
NEWVILLE	6/21/2008	Thunderstorm Wind	45	0	0	\$500	\$0
OTHO	8/7/2008	Lightning		0	0	\$50,000	\$0
HEADLAND	9/15/2008	Thunderstorm Wind	50	0	0	\$0	\$0
SCREAMER	6/14/2009	Thunderstorm Wind	55	0	0	\$0	\$0
ABBEVILLE	6/14/2009	Thunderstorm Wind	55	0	0	\$3000	\$0
ABBEVILLE	6/14/2009	Thunderstorm Wind	55	0	0	\$0	\$0
HEADLAND	6/14/2009	Thunderstorm Wind	55	0	0	\$3000	\$0
MURPHY STATION	12/14/2009	Thunderstorm Wind	50	0	0	\$5000	\$0
ABBEVILLE	1/24/2010	Thunderstorm Wind	50	0	0	\$0	\$0
HEADLAND MUNICIPAL ARPT	1/24/2010	Thunderstorm Wind	50	0	0	\$0	\$0
EDWIN	6/27/2010	Thunderstorm Wind	50	0	0	\$500	\$0
ABBEVILLE	2/1/2011	Thunderstorm Wind	50	0	0	\$10000	\$0
ABBEVILLE	3/8/2011	Thunderstorm Wind	50	0	0	\$1500	\$0
EDWIN	3/9/2011	Thunderstorm Wind	65	0	1	\$35000	\$0
SHORTERVILLE	3/9/2011	Thunderstorm Wind	50	0	0	\$1500	\$0
WILLS CROSSROADS	3/9/2011	Thunderstorm Wind	50	0	0	\$1500	\$0
ABBEVILLE	3/9/2011	Thunderstorm Wind	50	0	0	\$1500	\$0
LAWRENCEVILLE	4/4/2011	Thunderstorm Wind	55	0	0	\$3000	\$0
LAWRENCEVILLE	4/4/2011	Thunderstorm Wind	50	0	0	\$1000	\$0

ABBEVILLE	4/4/2011	Thunderstorm Wind	55	0	0	\$10000	\$0
SCOTTSBORO CROSSROADS	4/4/2011	Thunderstorm Wind	55	0	0	\$3000	\$0
OTHO	4/4/2011	Thunderstorm Wind	55	0	0	\$3000	\$0
HEADLAND MUNICIPAL ARPT	4/4/2011	Thunderstorm Wind	50	0	0	\$1000	\$0
SCREAMER	4/4/2011	Thunderstorm Wind	50	0	0	\$1000	\$0
TUMBLETON	4/4/2011	Thunderstorm Wind	50	0	0	\$1000	\$0
DANZEY	4/4/2011	Thunderstorm Wind	55	0	0	\$6000	\$0
MILLER	4/4/2011	Thunderstorm Wind	55	0	0	\$3000	\$0
WILLS CROSSROADS	4/4/2011	Thunderstorm Wind	55	0	0	\$3000	\$0
GRANDBERRY CROSSROADS	4/4/2011	Thunderstorm Wind	55	0	0	\$3000	\$0
GRANDBERRY CROSSROADS	4/4/2011	Thunderstorm Wind	50	0	0	\$1000	\$0
GRANDBERRY CROSSROADS	4/4/2011	Thunderstorm Wind	50	0	0	\$1000	\$0
COPPINVILLE	4/4/2011	Thunderstorm Wind	55	0	0	\$3000	\$0
GRANDBERRY CROSSROADS	4/4/2011	Thunderstorm Wind	55	0	0	\$3000	\$0
HALEBURG	4/4/2011	Thunderstorm Wind	50	0	0	\$1000	\$0
HALEBURG	6/16/2011	Thunderstorm Wind	50	0	0	\$6000	\$0
HARDWICKBURG	7/2/2011	Thunderstorm Wind	50	0	0	\$3000	\$0
ABBEVILLE	7/2/2011	Thunderstorm Wind	50	0	0	\$0	\$0
Abbeville	7/14/2011	Lightning		0	0	\$20,000	\$0
DOUBLE BRIDGES	8/8/2011	Thunderstorm Wind	50	0	0	\$4000	\$0
ABBEVILLE	9/5/2011	Thunderstorm Wind	50	0	0	\$1500	\$0
GRABALL	4/5/2012	Thunderstorm Wind	50	0	0	\$1000	\$0
ABBEVILLE	6/10/2012	Thunderstorm Wind	50	0	0	\$2000	\$0
EDWIN	7/1/2012	Thunderstorm Wind	50	0	0	\$750	\$0
HAYES	7/5/2012	Thunderstorm Wind	50	0	0	\$1000	\$0
ABBEVILLE MUNICIPAL ARPT	7/17/2012	Thunderstorm Wind	50	0	0	\$2000	\$0
LAWRENCEVILLE	7/17/2012	Thunderstorm Wind	50	0	0	\$1000	\$0
NEWVILLE	12/20/2012	Thunderstorm Wind	50	0	0	\$3000	\$0
ABBEVILLE	1/30/2013	Thunderstorm	50	0	0	\$5000	\$0



		Wind					
ABBEVILLE	2/10/2013	Thunderstorm Wind	50	0	0	\$5000	\$0
GRABALL	4/11/2013	Thunderstorm Wind	50	0	0	\$1000	\$0
BLACKWOOD	7/17/2013	Thunderstorm Wind	50	0	0	\$1000	\$0
HEADLAND	7/17/2013	Thunderstorm Wind	50	0	0	\$1000	\$0
HEADLAND MUNICIPAL ARPT	8/12/2013	Thunderstorm Wind	45	0	0	\$500	\$0
ABBEVILLE	6/6/2014	Thunderstorm Wind	55	0	0	\$5000	\$0
LAWRENCEVILLE	6/21/2014	Thunderstorm Wind	50	0	0	\$2000	\$0
HALEBURG	6/21/2014	Thunderstorm Wind	50	0	0	\$2000	\$0
HEADLAND	7/28/2014	Thunderstorm Wind	50	0	0	\$2000	\$0
TUMBLETON	7/28/2014	Thunderstorm Wind	50	0	0	\$3000	\$0
GRANDBERRY CROSSROADS	7/28/2014	Thunderstorm Wind	50	0	0	\$500	\$0
WILLS CROSSROADS	8/19/2014	Thunderstorm Wind	50	0	0	\$2000	\$0
TUMBLETON	1/4/2015	Thunderstorm Wind	50	0	0	\$1000	\$0
ABBEVILLE	4/19/2015	Thunderstorm Wind	50	0	0	\$0	\$0
ABBEVILLE	4/19/2015	Thunderstorm Wind	50	0	0	\$0	\$0
SHORTERVILLE	4/19/2015	Thunderstorm Wind	50	0	0	\$2000	\$0
HEADLAND	4/25/2015	Thunderstorm Wind	55	0	0	\$10000	\$0
TUMBLETON	4/25/2015	Thunderstorm Wind	50	0	0	\$0	\$0
TUMBLETON	4/25/2015	Thunderstorm Wind	50	0	0	\$0	\$0
GRANDBERRY CROSSROADS	4/25/2015	Thunderstorm Wind	50	0	0	\$0	\$0
SHORTERVILLE	4/25/2015	Thunderstorm Wind	50	0	0	\$0	\$0
GRANDBERRY CROSSROADS	5/27/2015	Thunderstorm Wind	50	0	0	\$0	\$0
DANZEY	6/27/2015	Thunderstorm Wind	50	0	0	\$3000	\$0
DANZEY	6/27/2015	Thunderstorm Wind	50	0	0	\$0	\$0
HARDWICKBURG	6/27/2015	Thunderstorm Wind	50	0	0	\$0	\$0
WILLS CROSSROADS	6/27/2015	Thunderstorm Wind	50	0	0	\$0	\$0
SHORTERVILLE	7/4/2015	Thunderstorm Wind	50	0	0	\$0	\$0
SHORTERVILLE	7/21/2015	Thunderstorm	50	0	0	\$0	\$0

		Wind					
WILLS CROSSROADS	7/21/2015	Thunderstorm Wind	50	0	0	\$0	\$0
ABBEVILLE	8/28/2015	Thunderstorm Wind	50	0	0	\$4000	\$0
HEADLAND	11/1/2015	Thunderstorm Wind	61	0	0	\$20000	\$0
EDWIN	2/15/2016	Thunderstorm Wind	50	0	0	\$0	\$0
NEWVILLE	6/11/2016	Thunderstorm Wind	50	0	0	\$3000	\$0
SHORTERVILLE	6/16/2016	Thunderstorm Wind	50	0	0	\$0	\$0
EDWIN	6/17/2016	Thunderstorm Wind	55	0	0	\$0	\$0
WILLS CROSSROADS	7/10/2016	Thunderstorm Wind	50	0	0	\$2000	\$0
SHORTERVILLE	7/10/2016	Thunderstorm Wind	50	0	0	\$0	\$0
OTHO	7/11/2016	Thunderstorm Wind	50	0	0	\$0	\$0
EDWIN	7/12/2016	Thunderstorm Wind	50	0	0	\$0	\$0
SHORTERVILLE	1/22/2017	Thunderstorm Wind	50	0	0	\$0	\$0
HALEBURG	1/22/2017	Thunderstorm Wind	50	0	0	\$3000	\$0
ABBEVILLE	4/3/2017	Thunderstorm Wind	50	0	0	\$3000	\$0
ABBEVILLE	7/7/2017	Thunderstorm Wind	50	0	0	\$0	\$0
MURPHY STATION	7/8/2017	Thunderstorm Wind	50	0	0	\$0	\$0
ABBEVILLE	7/8/2017	Thunderstorm Wind	50	0	0	\$0	\$0
ABBEVILLE	7/8/2017	Thunderstorm Wind	50	0	0	\$0	\$0
ABBEVILLE	7/14/2017	Thunderstorm Wind	50	0	0	\$5000	\$0
NEWVILLE	6/2/2018	Thunderstorm Wind	50	0	0	\$0	\$0
ABBEVILLE	6/3/2018	Thunderstorm Wind	50	0	0	\$0	\$0
WILLS CROSSROADS	6/9/2018	Thunderstorm Wind	50	0	0	\$1000	\$0
ABBEVILLE	6/28/2018	Thunderstorm Wind	55	0	0	\$0	\$0
ABBEVILLE	7/22/2018	Thunderstorm Wind	55	0	0	\$5000	\$0
HEADLAND	7/28/2018	Thunderstorm Wind	50	0	0	\$0	\$0
DANZEY	9/4/2018	Thunderstorm Wind	50	0	0	\$0	\$0
HALEBURG	9/4/2018	Thunderstorm Wind	50	0	0	\$0	\$0
HEADLAND	9/25/2018	Thunderstorm	50	0	0	\$3000	\$0

		Wind					
SCREAMER	5/9/2019	Thunderstorm Wind	50	0	0	\$0	\$0
NEWVILLE	7/18/2019	Thunderstorm Wind	55	0	0	\$0	\$0
SCREAMER	1/11/2020	Thunderstorm Wind	50	0	0	\$0	\$0
SHORTERVILLE	1/11/2020	Thunderstorm Wind	50	0	0	\$0	\$0
ABBEVILLE	3/31/2020	Thunderstorm Wind	50	0	0	\$0	\$0
GRABALL	4/13/2020	Thunderstorm Wind	55	0	0	\$0	\$0
<b>Jurisdiction Summary: Thunderstorms, Winds, Hail, Heavy Rain</b>							\$0
Countywide		1 Event		0	0	\$5,000	\$0
Abbeville		43 Events		0	0	\$147,250	\$0
Headland		19 Events		0	0	\$95,000	\$0
Newville		9 Events		0	0	\$20,500	\$0
Unincorporated Henry County		73 Events		0	1	\$278,500	\$0

**Table 4.60: Profile of Thunderstorm, Winds, Heavy Rain Events, Houston County, 2000 to 2020**

Location	Date	Type of Event	Mag	Death	Injury	Property Damage	Crop Damage
DOTHAN	6/14/2000	Thunderstorm Wind		0	0	\$15000	\$0
DOTHAN	6/22/2000	Thunderstorm Wind		0	0	\$2000	\$0
DOTHAN	6/22/2000	Thunderstorm Wind		0	0	\$2000	\$0
COTTONWOOD	6/22/2000	Thunderstorm Wind		0	0	\$30000	\$0
GORDON	7/11/2000	Thunderstorm Wind		0	0	\$5000	\$0
PANSEY	7/11/2000	Thunderstorm Wind		0	0	\$30000	\$0
COUNTYWIDE	7/12/2000	Thunderstorm Wind		0	0	\$10000	\$0
SOUTHEAST PORTION	8/18/2000	Thunderstorm Wind		0	0	\$30000	\$0
WEBB	8/25/2000	Thunderstorm Wind		0	0	\$20000	\$0
DOTHAN	8/25/2000	Thunderstorm Wind		0	0	\$2000	\$0
COUNTYWIDE	12/16/2000	Thunderstorm Wind		0	0	\$10000	\$0
DOTHAN	5/19/2001	Thunderstorm Wind		0	0	\$1000	\$0

WICKSBURG	7/11/2001	Thunderstorm Wind		0	0	\$5000	\$0
COUNTYWIDE	1/19/2002	Thunderstorm Wind		0	0	\$10000	\$0
NORTHWEST PORTION	3/31/2002	Thunderstorm Wind		0	0	\$75000	\$0
COTTONWOOD	6/4/2002	Lightning		0	1	\$0	\$0
DOTHAN	6/14/2002	Thunderstorm Wind		0	0	\$5000	\$0
ASHFORD	6/14/2002	Thunderstorm Wind		0	0	\$15000	\$0
PANSEY	6/14/2002	Thunderstorm Wind		0	0	\$500	\$0
DOTHAN	6/14/2002	Lightning		0	0	\$25000	\$0
REHOBETH	7/7/2002	Thunderstorm Wind		0	0	\$1000	\$0
COTTONWOOD	7/20/2002	Thunderstorm Wind		0	0	\$20000	\$0
DOTHAN	8/27/2002	Thunderstorm Wind		0	0	\$1000	\$0
COUNTYWIDE	12/24/2002	Thunderstorm Wind	55	0	0	\$75000	\$0
DOTHAN	2/22/2003	Thunderstorm Wind	50	0	0	\$3000	\$0
KINSEY	7/11/2003	Thunderstorm Wind	50	0	0	\$10000	\$0
PANSEY	6/26/2004	Thunderstorm Wind	50	0	0	\$1000	\$0
COUNTYWIDE	6/27/2004	Thunderstorm Wind	55	0	0	\$150000	\$0
PANSEY	6/28/2004	Thunderstorm Wind	50	0	0	\$1000	\$0
COLUMBIA	6/28/2004	Thunderstorm Wind	50	0	0	\$1000	\$0
DOTHAN	7/15/2004	Thunderstorm Wind	60	0	0	\$10000	\$0
COUNTYWIDE	7/15/2004	Thunderstorm Wind	55	0	0	\$100000	\$0
REHOBETH	11/24/2004	Thunderstorm Wind	70	0	0	\$150000	\$0
SOUTHEAST PORTION	3/27/2005	Thunderstorm Wind	55	0	0	\$100000	\$0
ASHFORD	8/14/2005	Thunderstorm Wind	50	0	0	\$500	\$0
WICKSBURG	8/14/2005	Thunderstorm Wind	50	0	0	\$3000	\$0
WICKSBURG	8/15/2005	Thunderstorm Wind	55	0	0	\$15000	\$0
PANSEY	6/22/2006	Thunderstorm Wind	50	0	0	\$1000	\$0
DOTHAN	6/25/2006	Thunderstorm Wind	50	0	0	\$25000	\$0
DOTHAN	8/8/2006	Thunderstorm Wind	55	0	0	\$3000	\$0
MADRID	6/5/2007	Thunderstorm Wind	50	0	0	\$2000	\$0



COTTONWOOD	6/5/2007	Thunderstorm Wind	50	0	0	\$25000	\$0
HODGESVILLE	6/30/2007	Thunderstorm Wind	50	0	0	\$3000	\$0
COTTONWOOD	6/30/2007	Thunderstorm Wind	50	0	0	\$250	\$0
DOTHAN	7/1/2007	Thunderstorm Wind	50	0	0	\$500	\$0
DOTHAN	8/14/2007	Thunderstorm Wind	50	0	0	\$2000	\$0
TAYLOR	4/5/2008	Thunderstorm Wind	55	0	0	\$50000	\$0
TAYLOR	6/9/2008	Thunderstorm Wind	50	0	0	\$0	\$0
DOTHAN	6/9/2008	Thunderstorm Wind	50	0	0	\$3000	\$0
COWARTS	6/9/2008	Thunderstorm Wind	50	0	0	\$0	\$0
WEBB	6/9/2008	Thunderstorm Wind	50	0	0	\$0	\$0
WICKSBURG	6/9/2008	Thunderstorm Wind	50	0	0	\$1000	\$0
WICKSBURG	7/12/2008	Thunderstorm Wind	55	0	0	\$0	\$0
HOLLIS DAIRY	8/7/2008	Thunderstorm Wind	55	0	0	\$15000	\$0
WICKSBURG	8/7/2008	Thunderstorm Wind	55	0	0	\$0	\$0
POWER DAM ROAD	3/26/2009	Thunderstorm Wind	55	0	0	\$35000	\$0
COTTONWOOD	3/27/2009	Thunderstorm Wind	55	0	0	\$2000	\$0
KELLY SPRINGS	3/28/2009	Thunderstorm Wind	55	0	0	\$0	\$0
BRANNON STAND	6/14/2009	Thunderstorm Wind	55	0	0	\$10000	\$0
DOTHAN	8/5/2009	Thunderstorm Wind	50	0	0	\$50000	\$0
COTTONWOOD	6/2/2010	Thunderstorm Wind	50	0	0	\$1000	\$0
COLUMBIA	6/16/2010	Thunderstorm Wind	50	0	0	\$4300	\$0
COTTONWOOD	8/1/2010	Thunderstorm Wind	50	0	0	\$1500	\$0
DOTHAN	8/7/2010	Lightning		0	0	\$2000	\$0
WICKSBURG	2/1/2011	Thunderstorm Wind	50	0	0	\$10000	\$0
KELLY SPRINGS	3/27/2011	Thunderstorm Wind	55	0	0	\$1000	\$0
WEBB	3/27/2011	Thunderstorm Wind	60	0	0	\$15000	\$0
DOTHAN	4/4/2011	Thunderstorm Wind	55	0	2	\$100000	\$0
WEBB	6/16/2011	Thunderstorm Wind	50	0	0	\$5000	\$0
PEARCE	6/16/2011	Thunderstorm	50	0	0	\$5000	\$0

		Wind					
HODGESVILLE	6/26/2011	Thunderstorm Wind	50	0	0	\$6000	\$0
PANSEY	6/27/2011	Thunderstorm Wind	50	0	0	\$2000	\$0
PANSEY	6/28/2011	Thunderstorm Wind	55	0	0	\$9000	\$0
DOTHAN	8/9/2011	Thunderstorm Wind	50	0	0	\$5000	\$0
DOTHAN	9/5/2011	Thunderstorm Wind	50	0	1	\$5000	\$0
HODGESVILLE	9/5/2011	Thunderstorm Wind	50	0	0	\$3000	\$0
COTTONWOOD	9/21/2011	Thunderstorm Wind	60	0	0	\$20000	\$0
PLEASANT PLAINS	9/21/2011	Thunderstorm Wind	40	0	0	\$750	\$0
KELLY SPRINGS	9/21/2011	Thunderstorm Wind	40	0	0	\$750	\$0
GREEN ACRES	9/21/2011	Lightning		0	0	\$1000	\$0
CROSBY	11/16/2011	Thunderstorm Wind	50	0	0	\$750	\$0
GORDON	11/16/2011	Thunderstorm Wind	50	0	0	\$750	\$0
ASHFORD	11/16/2011	Thunderstorm Wind	50	0	0	\$750	\$0
SMYRNA	11/16/2011	Thunderstorm Wind	50	0	0	\$750	\$0
DOTHAN	2/18/2012	Thunderstorm Wind	55	0	0	\$3000	\$0
REHOBETH	3/1/2012	Thunderstorm Wind	50	0	0	\$3000	\$0
COTTONWOOD	3/1/2012	Thunderstorm Wind	60	0	0	\$3000	\$0
COTTONWOOD	3/1/2012	Thunderstorm Wind	50	0	0	\$2000	\$0
GORDON	3/1/2012	Thunderstorm Wind	50	0	0	\$3000	\$0
KELLY SPRINGS	3/1/2012	Thunderstorm Wind	55	0	0	\$2000	\$0
DOTHAN	3/1/2012	Thunderstorm Wind	55	0	0	\$2000	\$0
WILSON MILL	5/31/2012	Thunderstorm Wind	55	0	0	\$5000	\$0
COTTONWOOD	6/11/2012	Thunderstorm Wind	50	0	0	\$2000	\$0
ARDILLA	6/11/2012	Thunderstorm Wind	50	0	0	\$2000	\$0
ASHFORD	6/11/2012	Thunderstorm Wind	50	0	0	\$3000	\$0
COLUMBIA	6/14/2012	Thunderstorm Wind	50	0	0	\$2000	\$0
WEBB	6/14/2012	Thunderstorm Wind	50	0	0	\$5000	\$0
PEARCE	6/14/2012	Thunderstorm Wind	50	0	0	\$2000	\$0

SMYRNA	6/14/2012	Thunderstorm Wind	50	0	0	\$2000	\$0
DOTHAN	6/14/2012	Thunderstorm Wind	50	0	0	\$3000	\$0
DOTHAN	7/1/2012	Thunderstorm Wind	50	0	0	\$4000	\$0
DOTHAN	7/3/2012	Thunderstorm Wind	50	0	0	\$30000	\$0
COWARTS	7/3/2012	Thunderstorm Wind	50	0	0	\$2000	\$0
HODGESVILLE	7/3/2012	Thunderstorm Wind	50	0	0	\$4000	\$0
LOVE HILL	7/3/2012	Thunderstorm Wind	60	0	0	\$5000	\$0
COTTONWOOD	7/3/2012	Thunderstorm Wind	50	0	0	\$750	\$0
COTTONWOOD	7/3/2012	Thunderstorm Wind	50	0	0	\$1000	\$0
KELLY SPRINGS	7/4/2012	Thunderstorm Wind	65	0	0	\$5000	\$0
PETERMAN	7/17/2012	Thunderstorm Wind	50	0	0	\$3000	\$0
BRANNON STAND	12/20/2012	Thunderstorm Wind	65	0	0	\$7000	\$0
HOLLIS DAIRY RD	12/20/2012	Thunderstorm Wind	60	0	0	\$5000	\$0
REHOBETH	12/26/2012	Thunderstorm Wind	50	0	0	\$3000	\$0
POWER DAM ROAD	1/30/2013	Thunderstorm Wind	55	0	0	\$20000	\$0
DOTHAN	4/11/2013	Thunderstorm Wind	55	0	0	\$5000	\$0
MERRITTS CROSSROADS	6/7/2013	Thunderstorm Wind	50	0	0	\$2000	\$0
MERRITTS CROSSROADS	6/7/2013	Thunderstorm Wind	55	0	0	\$3000	\$0
MERRITTS CROSSROADS	6/7/2013	Thunderstorm Wind	50	0	0	\$3000	\$0
REHOBETH	6/7/2013	Thunderstorm Wind	65	0	0	\$20000	\$0
OLYMPIA SPA RESORT	6/7/2013	Thunderstorm Wind	65	0	0	\$3000	\$0
OLYMPIA SPA RESORT	6/7/2013	Thunderstorm Wind	65	0	0	\$3000	\$0
OLYMPIA SPA RESORT	6/7/2013	Thunderstorm Wind	55	0	0	\$2000	\$0
KEYTONS	6/7/2013	Thunderstorm Wind	55	0	0	\$2000	\$0
MEMPHIS	6/7/2013	Thunderstorm Wind	65	0	0	\$20000	\$0
WILSON MILL	6/7/2013	Thunderstorm Wind	55	0	0	\$15000	\$0
WILSON MILL	6/7/2013	Thunderstorm Wind	65	0	0	\$10000	\$0
COTTONWOOD	6/7/2013	Thunderstorm Wind	50	0	0	\$3000	\$0
AVON	6/7/2013	Thunderstorm	60	0	0	\$0	\$0

		Wind					
ASHFORD	6/7/2013	Thunderstorm Wind	75	0	0	\$20000	\$0
FARLEY NUCLEAR PLANT	6/7/2013	Thunderstorm Wind	40	1	0	\$0	\$0
DOTHAN	6/28/2013	Thunderstorm Wind	50	0	0	\$25000	\$0
DOTHAN	6/28/2013	Thunderstorm Wind	50	0	0	\$3000	\$0
DOTHAN	6/28/2013	Thunderstorm Wind	50	0	0	\$25000	\$0
COWARTS	6/28/2013	Thunderstorm Wind	50	0	0	\$3000	\$0
ARDILLA	6/28/2013	Thunderstorm Wind	50	0	0	\$3000	\$0
ASHFORD	6/28/2013	Thunderstorm Wind	50	0	0	\$3000	\$0
REHOBETH	7/23/2013	Thunderstorm Wind	55	0	0	\$5000	\$0
MEMPHIS	2/21/2014	Thunderstorm Wind	55	0	0	\$50000	\$0
ARDILLA	3/16/2014	Thunderstorm Wind	52	0	0	\$0	\$0
KINSEY	3/16/2014	Thunderstorm Wind	50	0	0	\$1000	\$0
COTTONWOOD	6/6/2014	Thunderstorm Wind	50	0	0	\$1000	\$0
POWER DAM ROAD	6/8/2014	Thunderstorm Wind	50	0	0	\$1000	\$0
WICKSBURG	6/8/2014	Thunderstorm Wind	56	0	0	\$0	\$0
HOLLIS DAIRY RD	6/8/2014	Thunderstorm Wind	50	0	0	\$1000	\$0
DOTHAN	6/8/2014	Thunderstorm Wind	55	0	0	\$2000	\$0
MADRID	6/8/2014	Thunderstorm Wind	50	0	0	\$1000	\$0
LOVE HILL	6/8/2014	Thunderstorm Wind	50	0	0	\$1000	\$0
GRANGEBURG	6/8/2014	Thunderstorm Wind	50	0	0	\$2000	\$0
HARMON	6/8/2014	Thunderstorm Wind	50	0	0	\$1000	\$0
WICKSBURG	6/13/2014	Thunderstorm Wind	55	0	0	\$3000	\$0
HODGESVILLE	6/20/2014	Thunderstorm Wind	50	0	0	\$1000	\$0
LUCY	6/20/2014	Thunderstorm Wind	50	0	0	\$1000	\$0
WEBB	6/20/2014	Thunderstorm Wind	50	0	0	\$1000	\$0
WEBB	7/28/2014	Thunderstorm Wind	55	0	0	\$10000	\$0
WEBB	7/28/2014	Thunderstorm Wind	50	0	0	\$500	\$0
SMYRNA	7/28/2014	Thunderstorm Wind	50	0	0	\$500	\$0



KINSEY	7/28/2014	Thunderstorm Wind	50	0	0	\$1000	\$0
DOTHAN	7/28/2014	Thunderstorm Wind	50	0	0	\$2000	\$0
DOTHAN	7/28/2014	Thunderstorm Wind	50	0	0	\$500	\$0
ASHFORD	7/28/2014	Thunderstorm Wind	50	0	0	\$1000	\$0
REHOBETH	7/28/2014	Thunderstorm Wind	50	0	0	\$1000	\$0
COTTONWOOD	7/28/2014	Thunderstorm Wind	50	0	0	\$1000	\$0
LOVE HILL	8/19/2014	Thunderstorm Wind	50	0	0	\$500	\$0
WEBB	8/24/2014	Thunderstorm Wind	50	0	0	\$500	\$0
WEBB	8/24/2014	Thunderstorm Wind	50	0	0	\$500	\$0
COTTONWOOD	11/17/2014	Thunderstorm Wind	50	0	0	\$1000	\$0
POWER DAM ROAD	11/23/2014	Thunderstorm Wind	50	0	0	\$1000	\$0
COTTONWOOD	11/23/2014	Thunderstorm Wind	50	0	0	\$1000	\$0
WICKSBURG	1/4/2015	Thunderstorm Wind	50	0	0	\$1000	\$0
MADRID	4/19/2015	Thunderstorm Wind	50	0	0	\$1000	\$0
COTTONWOOD	4/19/2015	Thunderstorm Wind	55	0	0	\$5000	\$0
LOVE HILL	4/19/2015	Thunderstorm Wind	50	0	0	\$1000	\$0
PANSEY	4/19/2015	Thunderstorm Wind	50	0	0	\$1000	\$0
WICKSBURG	4/25/2015	Thunderstorm Wind	50	0	0	\$2000	\$0
REHOBETH	4/25/2015	Thunderstorm Wind	55	0	0	\$0	\$0
DOTHAN	4/25/2015	Thunderstorm Wind	50	0	0	\$5000	\$0
DOTHAN	4/25/2015	Thunderstorm Wind	50	0	0	\$0	\$0
DOTHAN	4/25/2015	Thunderstorm Wind	60	0	0	\$2200000	\$0
DOTHAN	4/25/2015	Thunderstorm Wind	55	0	0	\$5000	\$0
DOTHAN	4/25/2015	Thunderstorm Wind	50	0	0	\$25000	\$0
DOTHAN	4/25/2015	Thunderstorm Wind	55	0	0	\$0	\$0
KINSEY	4/25/2015	Thunderstorm Wind	55	0	0	\$0	\$0
DOTHAN	4/25/2015	Thunderstorm Wind	55	0	0	\$0	\$0
COWARTS	4/25/2015	Thunderstorm Wind	55	0	0	\$5000	\$0
ASHFORD	4/25/2015	Thunderstorm	50	0	0	\$5000	\$0

		Wind					
AVON	4/25/2015	Thunderstorm Wind	55	0	0	\$5000	\$0
WEBB	4/25/2015	Thunderstorm Wind	50	0	0	\$0	\$0
WEBB	4/25/2015	Thunderstorm Wind	55	0	0	\$0	\$0
COLUMBIA	4/25/2015	Thunderstorm Wind	55	0	0	\$5000	\$0
COTTONWOOD	5/26/2015	Thunderstorm Wind	50	0	0	\$0	\$0
ENON	5/27/2015	Thunderstorm Wind	50	0	0	\$1000	\$0
GORDON	6/10/2015	Thunderstorm Wind	50	0	0	\$0	\$0
WICKSBURG	6/23/2015	Thunderstorm Wind	55	0	0	\$0	\$0
HOLLIS DAIRY RD	6/23/2015	Thunderstorm Wind	50	0	0	\$10000	\$0
COTTONWOOD	7/2/2015	Thunderstorm Wind	50	0	0	\$0	\$0
ASHFORD	7/2/2015	Thunderstorm Wind	50	0	0	\$0	\$0
HOLLIS DAIRY RD	7/3/2015	Thunderstorm Wind	50	0	0	\$0	\$0
WICKSBURG	7/3/2015	Thunderstorm Wind	55	0	0	\$3000	\$0
DOTHAN	7/5/2015	Lightning		0	0	\$5000	\$0
PEARCE	7/20/2015	Thunderstorm Wind	50	0	0	\$0	\$0
ASHFORD	7/22/2015	Thunderstorm Wind	50	0	0	\$0	\$0
ARDILLA	7/24/2015	Thunderstorm Wind	50	0	0	\$0	\$0
REHOBETH	9/10/2015	Thunderstorm Wind	50	0	0	\$2000	\$0
COLUMBIA	9/10/2015	Thunderstorm Wind	50	0	0	\$0	\$0
AVON	9/10/2015	Thunderstorm Wind	50	0	0	\$2000	\$0
LOVE HILL	9/10/2015	Thunderstorm Wind	50	0	0	\$0	\$0
BRANNON STAND	2/23/2016	Thunderstorm Wind	50	0	0	\$5000	\$0
BRANNON STAND	2/23/2016	Thunderstorm Wind	50	0	0	\$0	\$0
KELLY SPRINGS	2/23/2016	Thunderstorm Wind	55	0	0	\$5000	\$0
REHOBETH	2/23/2016	Thunderstorm Wind	60	0	0	\$50000	\$0
COLUMBIA	2/23/2016	Thunderstorm Wind	50	0	0	\$0	\$0
BARBER	6/16/2016	Thunderstorm Wind	50	0	0	\$0	\$0
COLUMBIA	6/16/2016	Thunderstorm Wind	50	0	0	\$3000	\$0

GORDON	6/16/2016	Thunderstorm Wind	50	0	0	\$0	\$0
KELLY SPRINGS	6/17/2016	Thunderstorm Wind	50	0	0	\$0	\$0
PETERMAN	6/17/2016	Thunderstorm Wind	50	0	0	\$0	\$0
TAYLOR	6/17/2016	Thunderstorm Wind	50	0	0	\$20000	\$0
ASHFORD	7/9/2016	Thunderstorm Wind	50	0	0	\$2000	\$0
MEMPHIS	7/10/2016	Thunderstorm Wind	50	0	0	\$0	\$0
SMYRNA	7/10/2016	Thunderstorm Wind	50	0	0	\$2000	\$0
ENON	7/10/2016	Thunderstorm Wind	50	0	0	\$0	\$0
COWARTS	7/11/2016	Thunderstorm Wind	50	0	0	\$0	\$0
SMYRNA	8/14/2016	Thunderstorm Wind	50	0	0	\$1000	\$0
PLEASANT PLAINS	8/14/2016	Thunderstorm Wind	50	0	0	\$1000	\$0
SIGMA	8/14/2016	Lightning		0	0	\$1000	\$0
MERRITTS CROSSROADS	1/2/2017	Thunderstorm Wind	74	4	0	\$100000	\$0
ASHFORD	1/22/2017	Thunderstorm Wind	50	0	0	\$0	\$0
PANSEY	1/22/2017	Thunderstorm Wind	55	0	0	\$5000	\$0
DOTHAN	4/3/2017	Thunderstorm Wind	50	0	0	\$0	\$0
LOVE HILL	7/13/2017	Thunderstorm Wind	50	0	0	\$2000	\$0
KINSEY	7/21/2017	Thunderstorm Wind	55	0	0	\$0	\$0
KEYTONS	7/26/2017	Lightning		1	0	\$0	\$0
GARRETTS CROSSROADS	2/7/2018	Thunderstorm Wind	50	0	0	\$3000	\$0
MADRID	2/7/2018	Thunderstorm Wind	55	0	2	\$100000	\$0
PANSEY	2/11/2018	Thunderstorm Wind	50	0	0	\$5000	\$0
HOLLIS DAIRY RD	4/22/2018	Thunderstorm Wind	50	0	0	\$0	\$0
DOTHAN	6/28/2018	Thunderstorm Wind	55	0	0	\$3000	\$0
ASHFORD	7/3/2018	Thunderstorm Wind	50	0	0	\$0	\$0
COLUMBIA	7/21/2018	Thunderstorm Wind	50	0	0	\$0	\$0
TAYLOR	7/22/2018	Thunderstorm Wind	50	0	0	\$2000	\$0
MADRID	7/22/2018	Thunderstorm Wind	50	0	0	\$0	\$0
REHOBETH	7/22/2018	Thunderstorm Wind	50	0	0	\$0	\$0

HODGESVILLE	7/22/2018	Thunderstorm Wind	50	0	0	\$0	\$0
GORDON	8/6/2018	Thunderstorm Wind	50	0	0	\$40000	\$0
SMYRNA	8/13/2018	Thunderstorm Wind	50	0	0	\$5000	\$0
MERRITTS CROSSROADS	9/18/2018	Thunderstorm Wind	55	0	0	\$0	\$0
COTTONWOOD	9/25/2018	Thunderstorm Wind	50	0	0	\$0	\$0
SEALY SPRINGS	9/25/2018	Thunderstorm Wind	50	0	0	\$3000	\$0
COTTONWOOD	9/25/2018	Thunderstorm Wind	50	0	0	\$0	\$0
WEBB	9/25/2018	Thunderstorm Wind	50	0	0	\$0	\$0
KINSEY	9/25/2018	Thunderstorm Wind	50	0	0	\$1000	\$0
HOLLIS DAIRY RD	12/1/2018	Thunderstorm Wind	60	0	0	\$5000	\$0
PEARCE	12/1/2018	Thunderstorm Wind	50	0	0	\$1000	\$0
BRANNON STAND	12/2/2018	Thunderstorm Wind	65	0	0	\$3000	\$0
WICKSBURG	12/2/2018	Thunderstorm Wind	50	0	0	\$0	\$0
JONES CROSSROADS	12/2/2018	Thunderstorm Wind	50	0	0	\$1000	\$0
COLUMBIA	12/2/2018	Thunderstorm Wind	50	0	0	\$2000	\$0
GARRETTS CROSSROADS	3/3/2019	Thunderstorm Wind	50	0	0	\$20000	\$0
HODGESVILLE	3/3/2019	Thunderstorm Wind	50	0	0	\$3000	\$0
CROSBY	3/3/2019	Thunderstorm Wind	50	0	0	\$0	\$0
LUCY	4/19/2019	Thunderstorm Wind	50	0	0	\$0	\$0
WICKSBURG	5/12/2019	Thunderstorm Wind	55	0	0	\$0	\$0
PETERMAN	5/12/2019	Thunderstorm Wind	50	0	0	\$0	\$0
COWARTS	5/12/2019	Thunderstorm Wind	55	0	0	\$0	\$0
WEBB	5/12/2019	Thunderstorm Wind	55	0	0	\$0	\$0
KINSEY	7/19/2019	Thunderstorm Wind	50	0	0	\$0	\$0
MADRID	12/17/2019	Thunderstorm Wind	50	0	0	\$0	\$0
WICKSBURG	1/11/2020	Thunderstorm Wind	50	0	0	\$3000	\$0
HOLLIS DAIRY RD	1/11/2020	Thunderstorm Wind	50	0	0	\$3000	\$0
JONES CROSSROADS	1/11/2020	Thunderstorm Wind	50	0	0	\$0	\$0
JONES CROSSROADS	1/11/2020	Thunderstorm	50	0	0	\$0	\$0



		Wind					
GREEN ACRES	1/11/2020	Thunderstorm Wind	50	0	0	\$1000	\$0
DOTHAN	1/11/2020	Thunderstorm Wind	55	0	0	\$1000	\$0
WEBB	3/4/2020	Thunderstorm Wind	55	0	0	\$0	\$0
GARRETT'S CROSSROADS	3/31/2020	Thunderstorm Wind	50	0	0	\$2000	\$0
MADRID	4/8/2020	Thunderstorm Wind	50	0	0	\$0	\$0
SEALY SPRINGS	4/8/2020	Thunderstorm Wind	55	0	0	\$5000	\$0
COTTONWOOD	4/8/2020	Thunderstorm Wind	55	0	0	\$0	\$0
SEALY SPRINGS	4/8/2020	Thunderstorm Wind	55	0	0	\$5000	\$0
TAYLOR	4/13/2020	Thunderstorm Wind	50	0	0	\$0	\$0
PANSEY	4/13/2020	Thunderstorm Wind	50	0	0	\$3000	\$0
WEBB	4/13/2020	Thunderstorm Wind	50	0	0	\$0	\$0
ASHFORD	4/13/2020	Thunderstorm Wind	50	0	0	\$0	\$0
PANSEY	4/13/2020	Thunderstorm Wind	50	0	0	\$0	\$0
PETERMAN	4/19/2020	Thunderstorm Wind	50	0	0	\$0	\$0
ARDILLA	4/23/2020	Thunderstorm Wind	50	0	1	\$0	\$0
HOLLIS DAIRY RD	4/23/2020	Thunderstorm Wind	50	0	0	\$20000	\$0
DOTHAN	4/23/2020	Thunderstorm Wind	50	0	0	\$0	\$0
HODGESVILLE	4/23/2020	Thunderstorm Wind	50	0	0	\$0	\$0
<b>Total Thunderstorm Events</b>		<b>288</b>		<b>5</b>	<b>7</b>	<b>\$4.88m</b>	<b>\$0</b>
<b>Jurisdictional Summary: Thunderstorms, Winds, Hail, Heavy Rain</b>							
Countywide	6			0	0	\$355,000	\$0
Dothan	40			0	3	\$2.6m	\$0
Ardilla	5			0	1	\$5000	\$0
Ashford	14			0	0	\$35,250	\$0
Avon	3			0	0	\$7,000	\$0
Columbia	9			0	0	\$17,300	\$0
Cottonwood	66			0	1	\$120,500	\$0
Cowarts	6			0	0	\$10,000	\$0
Gordon	6			0	0	\$48,750	\$0
Kinsey	7			0	0	\$13,000	\$0
Madrid	7			0	2	\$104,000	\$0
Pansey	12			0	0	\$58,500	\$0
Rehobeth	11			0	0	\$235,000	\$0

Taylor	5			0	0	\$72,000	\$0
Webb	14			0	0	\$57,500	\$0
Wicksburg	15			0	0	\$76,000	\$0
Unincorporated Houston County	62			5	0	\$647,000	\$0

**Table 4.61: Profile of Thunderstorm, Winds, Heavy Rain Events, Pike County, 2000 to 2020**

Location	Date	Type of Event	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Troy	1/10/2000	T'storm/Wind	55	0	0	\$20,000	\$0
Troy	7/20/2000	T'storm/Wind	55	0	0	\$2,000	\$0
Countywide	8/6/2001	Heavy Rain		0	0	\$0	\$0
Troy	1/19/2002	T'storm/Wind	50	0	0	\$2,000	\$0
Troy	8/20/2002	T'storm/Wind	55	0	0	\$40,000	\$0
Unincorp Pike County: Spring Hill	12/24/2002	T'storm/Wind	50	0	0	\$2,000	\$0
Troy	8/3/2003	T'storm/Wind	50	0	0	\$2,000	\$0
Goshen	6/27/2004	T'storm/Wind	55	0	0	\$11,000	\$0
Countywide	9/7/2004	Strong Wind	33	0	0	\$1,000	\$0
Countywide	9/16/2004	High Wind	65	0	0	\$3,000,000	\$0
Brundidge	3/26/2005	T'storm/Wind	53	0	0	\$70,000	\$0
Countywide	4/2/2005	Strong Wind	33	0	0	\$1,000	\$0
Unincorp Pike County: Orion	4/22/2005	T'storm/Wind	52	0	0	\$2,000	\$0
Countywide	4/30/2005	T'storm/Wind	52	0	0	\$4,000	\$0
Unincorp Pike County: Orion	2/26/2008	T'storm/Wind	50	0	0	\$5,000	\$0
Unincorp Pike County: Shiloh	7/6/2008	T'storm/Wind	50	0	0	\$1,000	\$0
Brundidge	12/10/2008	T'storm/Wind	50	0	0	\$1,000	\$0
Troy	12/10/2008	T'storm/Wind	50	0	0	\$5,000	\$0
Banks	6/14/2009	T'storm/Wind	50	0	0	\$1,000	\$0
Troy	6/14/2009	T'storm/Wind	50	0	0	\$2,000	\$0
Unincorp Pike County: Spring Hill	6/14/2009	T'storm/Wind	50	0	0	\$10,000	\$0
Unincorp Pike County: Ansley	7/6/2009	T'storm/Wind	60	0	0	\$10,000	\$0
Troy	6/1/2010	Lightning		0	0	\$25,000	\$0
Troy	6/1/2010	T'storm/Wind	45	0	0	\$3,000	\$0
Unincorp Pike County: Corcoran	6/19/2010	T'storm/Wind	50	0	0	\$2,000	\$0
Unincorp Pike County: Spring Hill	6/19/2010	T'storm/Wind	50	0	1	\$2,000	\$0
Unincorp Pike County: Spring Hill	6/19/2010	T'storm/Wind	50	0	0	\$1,000	\$0
Troy	2/1/2011	T'storm/Wind	41	0	0	\$750	\$0
Unincorp Pike County: Hamilton	3/9/2011	T'storm/Wind	50	0	0	\$0	\$0
Unincorp Pike County: Tarentum	3/9/2011	T'storm/Wind	55	0	0	\$10,000	\$0
Brundidge	4/4/2011	T'storm/Wind	50	0	0	\$5,000	\$0
Troy	4/4/2011	T'storm/Wind	50	0	0	\$7,000	\$0

Unincorp Pike County: Corcoran	4/4/2011	Heavy Rain		0	0	\$0	\$0
Goshen	5/13/2011	T'storm/Wind	50	0	0	\$1,000	\$0
Troy	5/13/2011	T'storm/Wind	52	0	0	\$3,000	\$0
Unincorp Pike County: Shellhorn	5/13/2011	T'storm/Wind	50	0	0	\$1,000	\$0
Unincorp Pike County: China Grove	8/11/2011	T'storm/Wind	50	0	0	\$0	\$0
Troy	1/30/2013	T'storm/Wind	50	0	0	\$0	\$0
Unincorp Pike County: Ansley	7/23/2013	T'storm/Wind	50	0	0	\$0	\$0
Brundidge	4/7/2014	T'storm/Wind	55	0	0	\$0	\$0
Countywide	4/18/2014	Strong Wind	33	0	0	\$3,000	\$0
Goshen	2/15/2016	T'storm/Wind	65	0	0	\$0	\$0
Unincorp Pike County: Henderson	3/3/2016	T'storm/Wind	50	0	0	\$0	\$0
Unincorp Pike County: Henderson	3/3/2016	T'storm/Wind	50	0	0	\$0	\$0
Unincorp Pike County: Henderson	3/3/2016	T'storm/Wind	50	0	0	\$0	\$0
Unincorp Pike County: Cataloe	6/17/2016	T'storm/Wind	60	0	0	\$0	\$0
Troy	4/3/2017	T'storm/Wind	50	0	0	\$0	\$0
Unincorp Pike County: Wingard	4/3/2017	T'storm/Wind	50	0	0	\$0	\$0
Unincorp Pike County: Tennille	9/16/2017	T'storm/Wind	50	0	0	\$0	\$0
Troy	6/28/2018	T'storm/Wind	50	0	0	\$0	\$0
Troy	1/11/2020	T'storm/Wind	50	0	0	\$0	\$0
Troy	3/4/2020	T'storm/Wind	59	0	0	\$0	\$0
Unincorp Pike County: Henderson	3/31/2020	T'storm/Wind	50	0	0	\$0	\$0
<b>Total Thunderstorm Events</b>		<b>53 Events</b>		<b>0</b>	<b>1</b>	<b>\$3,255,750</b>	<b>\$0</b>
<b>Pike County Jurisdictional Summary: Thunderstorms, Winds, Heavy Rain</b>							
Countywide		6 Events		0	0	3,009,000	0
Banks		1 Event		0	0	1,000	0
Brundidge		4 Events		0	0	76,000	0
Goshen		3 Events		0	0	12,000	0
Troy		17 Events		0	0	111,750	0
Unincorporated Pike County		22 Events		0	1	46,000	0

Source: NOAA, National Centers for Environmental Information, Storm Events Database.  
<https://www.ncdc.noaa.gov/stormevents/choosedates.jsp?statefips=1%2CALABAMA>

**Table 4.62: Profile of Tornado Events in Barbour County, 2000 to 2020**

Location	Date	Type of Event	Mag	Death	Injuries	Property Damage	Crop Damage
Unincorp. Barbour County	4/30/2002	Tornado	F0	0	0	\$0	\$0
CLIO	9/16/2004	Tornado	F0	0	0	\$2,000	\$0
CLAYTON	9/16/2004	Tornado	F0	0	0	\$2,000	\$0
Unincorp. Barbour County	4/30/2005	Tornado	F1	0	0	\$40,000	\$0
CLAYTON	1/13/2006	Tornado	F0	0	1	\$250,000	\$0

Unincorp. Barbour County	11/15/2006	Tornado	F2	0	0	\$5,000	\$0
Unincorp. Barbour County	11/15/2006	Tornado	F0	0	0	\$10,000	\$0
Unincorp. Barbour County	1/7/2007	Tornado	F1	0	0	\$250,000	\$0
BLUE SPGS	9/21/2007	Tornado	EF0	0	0	\$0	\$0
BLUE SPGS	1/11/2008	Tornado	EF1	0	0	\$70,000	\$5,000
BLUE SPGS	2/17/2008	Tornado	EF1	0	0	\$75,000	\$0
Unincorp. Barbour County	2/17/2008	Tornado	EF1	0	0	\$35,000	\$0
Unincorp. Barbour County	2/17/2008	Tornado	EF0	0	0	\$6,000	\$0
EUFAULA	11/23/2014	Tornado	EF1	0	0	\$0	\$0
Unincorp. Barbour County	12/24/2015	Tornado	EF0	0	0	\$0	\$0
Unincorp. Barbour County	12/24/2015	Tornado	EF0	0	0	\$0	\$0
Unincorp. Barbour County	4/6/2016	Tornado	EF0	0	0	\$0	\$0
Unincorp. Barbour County	1/21/2017	Tornado	EF1	0	0	\$0	\$0
Unincorp. Barbour County	4/5/2017	Tornado	EF1	0	0	\$0	\$0
Unincorp. Barbour County	4/5/2017	Tornado	EF1	0	0	\$0	\$0
Unincorp. Barbour County	4/27/2017	Tornado	EF0	0	0	\$0	\$0
Unincorp. Barbour County	4/27/2017	Tornado	EF0	0	3	\$0	\$0
Unincorp. Barbour County	3/3/2019	Tornado	EF2	0	0	\$0	\$0
EUFAULA	3/3/2019	Tornado	EF2	0	0	\$0	\$0
CLIO	11/27/2019	Tornado	EF0	0	0	\$0	\$0
Unincorp. Barbour County	11/27/2019	Tornado	EF0	0	0	\$0	\$0
BAKERHILL	1/11/2020	Tornado	EF1	0	0	\$0	\$0
Unincorp. Barbour County	3/31/2020	Tornado	EF2	0	0	\$0	\$0
<b>Total Tornado Events</b>		<b>28 Events</b>		<b>0</b>	<b>4</b>	<b>\$745,000</b>	<b>\$5,000</b>
<b>Jurisdictional Summary: Tornadoes</b>							
Countywide	0 Events			0	0	\$0	\$0
Baker Hill	1 Events			0	0	\$0	\$0
Blue Springs	3 Events			0	0	\$145,000	\$5,000
Clayton	2 Events			0	1	\$252,000	\$0
Clio	2 Events			0	0	\$2,000	\$0
Louisville	0 Events			0	0	\$0	\$0
Eufaula	2 Events			0	0	\$0	\$0
Unincorporated Barbour County	18 Events			0	3	\$346,000	\$0



**Table 4.63: Profile of Tornado Events in Butler County, 2000 to 2020**

Location	Date	Event Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Unincorp. Butler County: Butler Springs	4/15/2011	Tornado	EF1	0	0	\$90,000	\$0
Unincorp. Butler County: Garland	11/24/2001	Tornado	F0	0	0	\$10,000	\$0
Georgiana	11/24/2001	Tornado	F0	0	0	\$30,000	\$0
Georgiana	11/5/2002	Tornado	F0	0	0	\$8,000	\$0
Georgiana	10/23/2007	Tornado	EF0	0	0	\$20,000	\$0
Georgiana	11/17/2014	Tornado	EF1	0	0	\$100,000	\$0
Greenville	4/15/2011	Tornado	EF2	0	0	\$150,000	\$0
Georgiana	3/1/2007	Tornado	EF0	0	0	\$20,000	\$0
McKenzie	11/24/2001	Tornado	F1	0	3	\$100,000	\$0
McKenzie	3/24/2016	Tornado	EF0	0	0	\$8,000	\$0
Unincorp. Butler County: Searcy	10/7/2017	Tornado	EF0	0	0	\$10,000	\$0
Unincorp. Butler County: Searcy	3/3/2019	Tornado	EF1	0	0	\$15,000	\$0
Total Tornado Events		12 Events		0	3	\$561,000	\$0
Butler County Jurisdictional Summary: Tornadoes							
Countywide		0 Events		0	0	\$0	\$0
Georgiana		5 Events		0	0	\$178,000	\$0
Greenville		1 Event		0	0	\$150,000	\$0
McKenzie		2 Events		0	3	\$108,000	\$0
Unincorporated Butler County		4 Events		0	0	\$125,000	\$0

Source: NOAA, National Centers for Environmental Information, Storm Events Database.  
<https://www.ncdc.noaa.gov/stormevents/choosedates.jsp?statefips=1%2CALABAMA>

**Table 4.64: Profile of Tornado Events in Coffee County, 2000 to 2020**

Location	Date	Type of Event	Mag	Deaths	Injuries	Property Damage	Crop Damage
ENTERPRISE	4/3/2000	Tornado	F0	0	0	\$0	\$0
ELBA	11/15/2006	Tornado	F0	0	2	\$350,000	\$0
Unincorp. County	11/15/2006	Tornado	F0	0	0	\$1,500	\$0
ENTERPRISE	3/1/2007	Tornado	EF4	9	50	\$250,000,000	\$0
Unincorp. County	2/17/2008	Tornado	EF1	0	0	\$25,000	\$0
ENTERPRISE	10/8/2008	Tornado	EF1	0	0	\$4,000,000	\$0
Unincorp. County	12/14/2009	Tornado	EF0	0	0	\$0	\$0
Unincorp. County	4/8/2010	Tornado	EF0	0	0	\$0	\$0
Unincorp. County	3/2/2012	Tornado	EF0	0	0	\$0	\$0
Unincorp. County	6/10/2012	Tornado	EF0	0	0	\$0	\$5,000
KINSTON	8/30/2012	Tornado	EF0	0	0	\$5,000	\$0
Unincorp. County	12/25/2012	Tornado	EF0	0	0	\$2,000	\$0
Unincorp. County	12/25/2012	Tornado	EF0	0	0	\$5,000	\$0
Unincorp. County	4/19/2020	Tornado	EF0	0	0	\$50,000	\$0
<b>Total Tornado Events</b>		<b>14 Events</b>		<b>0</b>	<b>4</b>	<b>\$254,438,500</b>	<b>\$5,000</b>

Jurisdictional Summary: Tornadoes					
Countywide	0 Events	0	0	\$0	\$0
Elba	1 Events	0	0	\$350,000	\$0
Enterprise	3 Events	0	0	\$254,000,000	\$0
Kinston	1 Events	0	1	\$5,000	\$0
New Brockton	0 Events	0	0	\$2,000	\$0
Unincorporated Coffee County	9 Events	0	3	\$83,500	\$5,000

**Table 4.65: Profile of Tornado Events in Covington County, 2000 to 2020**

Location	Date	Event Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
RED LEVEL	3/12/2001	Tornado	F1	2	1	\$1000000	\$0
LIBERTYVILLE	6/11/2001	Tornado	F0	0	0	\$15000	\$0
RIVER FALLS	11/24/2001	Tornado	F0	0	0	\$15000	\$0
ROSE HILL	11/24/2001	Tornado	F0	0	0	\$15000	\$0
LIBERTYVILLE	10/20/2002	Tornado	F0	0	0	\$20000	\$0
GANTT	5/31/2005	Tornado	F0	0	0	\$40000	\$0
OPP	5/31/2005	Tornado	F0	0	0	\$5000	\$0
WATKINS BRIDGE	7/6/2005	Tornado	F0	0	0	\$15000	\$0
LOCKHART	7/6/2005	Tornado	F0	0	0	\$15000	\$0
GREEN BAY	11/15/2006	Tornado	F2	0	0	\$1000000	\$0
BECK	2/17/2008	Tornado	EF1	0	0	\$250000	\$0
RED LEVEL	5/15/2008	Tornado	EF0	0	0	\$150000	\$0
WATKINS BRIDGE	10/8/2008	Tornado	EF0	0	0	\$50000	\$0
BECK	4/15/2011	Tornado	EF1	0	0	\$1500000	\$0
SOUTH	2/15/2016	Tornado	EF1	0	1	\$100000	\$0
ANDALUSIA	2/7/2017	Tornado	EF0	0	1	\$100000	\$0
GREEN BAY	6/21/2017	Tornado	EF1	0	0	\$50000	\$0
ANDALUSIA OPP ARPT	4/19/2020	Tornado	EF2	0	0	\$0	\$0
FALCO	4/23/2020	Tornado	EF0	0	0	\$0	\$0
FLORALA	4/23/2020	Tornado	EF0	0	0	\$0	\$0
Total Tornado Events		20 Events		2	3	\$4.3m	\$0
Jurisdictional Summary: Tornadoes							
Andalusia		2 Events		0	1	\$100,000	\$0
Floralá		1 Event		0	0	\$0	\$0
Lockhart		1 Event		0	0	\$15,000	\$0

River Falls	1 Event	0	0	\$15,000	\$0
Opp	1 Event	0	0	\$5,000	\$0
Red Level	2 Events	2	1	\$1.15m	\$0
Unincorporated Covington County	12 Events	0	1	\$3.06m	\$0

**Table 4.66: Profile of Tornado Events in Crenshaw County, 2000 to 2020**

Location	Date	Event Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Dozier	6/11/2001	Funnel		0	0	\$0	\$0
Unincorp Crenshaw County: Honoraville	7/1/2003	Tornado	F1	0	0	\$200,000	\$0
Unincorp Crenshaw County: Bradleyton	4/30/2005	Tornado	F0	0	0	\$150,000	\$0
Dozier	5/31/2005	Tornado	F0	0	0	\$15,000	\$0
Unincorp Crenshaw County: Saville	4/14/2007	Tornado	EF0	0	0	\$100,000	\$0
Luverne	4/26/2007	Funnel		0	0	\$0	\$0
Brantley	12/20/2012	Funnel		0	0	\$0	\$0
Luverne	12/25/2012	Tornado	EF0	0	0	\$0	\$0
Unincorp Crenshaw County: Patsburg	12/25/2012	Tornado	EF0	0	0	\$0	\$0
Unincorp Crenshaw County: Blackrock	11/17/2014	Tornado	EF1	0	0	\$285,000	\$0
Unincorp Crenshaw County: Theba	1/4/2015	Tornado	EF2	0	0	\$200,000	\$0
Luverne	4/3/2017	Tornado	EF0	0	0	\$2,000	\$0
Unincorp Crenshaw County: Blackrock	4/22/2018	Tornado	EF1	0	0	\$100,000	\$0
Unincorp Crenshaw County: Highland Home	4/22/2018	Tornado	EF1	0	0	\$100,000	\$0
Unincorp Crenshaw County: Honoraville	3/3/2019	Tornado	EF1	0	0	\$15,000	\$0
Unincorp Crenshaw County: Social Town	4/14/2019	Tornado	EF0	0	0	\$20,000	\$0
<b>Total Tornado Events</b>		<b>16 Events</b>		<b>0</b>	<b>0</b>	<b>\$1,187,000</b>	<b>\$0</b>
<b>Crenshaw County Jurisdictional Summary: Tornadoes</b>							
Countywide		0 Events		0	0	\$0	\$0
Brantley		1 Event		0	0	\$0	\$0
Dozier		2 Events		0	0	\$15,000	\$0
Glenwood		0 Events		0	0	\$0	\$0
Luverne		3 Events		0	0	\$2,000	\$0
Petrey		0 Events		0	0	\$0	\$0
Rutledge		0 Events		0	0	\$0	\$0
Unincorporated Crenshaw County		10 Events		0	0	\$1,170,000	\$0

**Table 4.67: Profile of Tornado Events in Dale County, 2000 to 2020**

Location	Date	Type of Event	Mag	Death	Injuries	Property Damage	Crop Damage
PINCKARD	12/16/2000	Tornado	F2	0	0	\$2000000	\$0
DALEVILLE	11/25/2001	Tornado	F1	0	25	\$3000000	\$0
EWELL	11/25/2001	Tornado	F1	0	2	\$75000	\$0

ECHO	11/5/2002	Tornado	F1	0	3	\$150000	\$0
LEVEL PLAINS XRDS	1/13/2006	Tornado	F0	0	0	\$500000	\$0
OZARK	1/7/2007	Tornado	F0	0	0	\$25000	\$0
ECHO	3/1/2007	Tornado	EF1	0	4	\$2500000	\$0
OZARK	4/14/2007	Tornado	EF1	0	0	\$250000	\$0
ARGUTA	8/25/2008	Tornado	EF1	0	0	\$30000	\$0
(OZR)FT RUCKER AAF	10/8/2008	Tornado	EF0	0	0	\$150000	\$0
OZARK	10/8/2008	Tornado	EF0	0	0	\$50000	\$0
PINCKARD	10/8/2008	Tornado	EF0	0	0	\$0	\$0
ROCKY HEAD	12/14/2009	Tornado	EF0	0	0	\$0	\$0
HIGHWAY 231 PEA RIVER BRIDGE	12/25/2012	Tornado	EF0	0	0	\$0	\$0
PINCKARD	1/4/2015	Tornado	EF0	0	0	\$10000	\$0
MIDLAND CITY	1/4/2015	Tornado	EF0	0	0	\$5000	\$0
CURRYTOWN	2/23/2016	Tornado	EF0	0	0	\$0	\$0
FORT RUCKER	4/22/2018	Tornado	EF0	0	0	\$1000	\$0
DALE COUNTY LAKE	4/19/2020	Tornado	EF1	0	0	\$100000	\$0
<b>Total Tornado Events</b>		<b>19 Events</b>		<b>0</b>	<b>34</b>	<b>\$8.846m</b>	<b>\$0</b>
<b>Jurisdictional Summary: Tornadoes</b>							
Countywide		0 Events		0	0	\$0	\$0
Pinckard		3 Events		0	0	\$2.01m	\$0
Daleville		1 Event		0	25	\$3m	\$0
Ozark		3 Events		0	0	\$325,000	\$0
Midland City		1 Events		0	0	\$5,000	\$0
Fort Rucker		2 Events		0	0	\$151,000	\$0
Echo		2 Events		0	7	\$2.65m	\$0
Unincorporated Dale County		7 Events		0	2	\$705,000	\$0



**Table 4.68: Profile of Tornado Events in Geneva County, 2000 to 2020**

Location	Date	Event Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
GENEVA	12/16/2000	Tornado	F2	1	9	\$2,500,000	\$0
COFFEE SPGS	5/31/2004	Tornado	F0	0	0	\$5,000	\$0
BLACK	4/13/2009	Tornado	EF0	0	0	\$150,000	\$0
HARTFORD	3/1/2012	Tornado	EF1	0	0	\$50,000	\$0
SLOCOMB	3/1/2012	Tornado	EF1	0	0	\$5,000	\$0
DUNDEE	3/2/2012	Tornado	EF0	0	0	\$0	\$0
MALVERN	3/23/2012	Tornado	EF0	0	0	\$25,000	\$0
GENEVA MUNICIPAL ARPT	6/10/2012	Tornado	EF1	0	0	\$100,000	\$0
LOWERY	8/30/2012	Tornado	EF1	0	0	\$20,000	\$0
SAMSON	9/17/2012	Tornado	EF0	0	0	\$10,000	\$0
BLACK	5/10/2014	Tornado	EF1	0	3	\$85,000	\$0
MALVERN	1/2/2017	Tornado	EF1	0	0	\$50,000	\$0
SLOCOMB	3/3/2019	Tornado	EF1	0	0	\$100,000	\$0
HIGHFALLS	4/19/2020	Tornado	EF0	0	0	\$0	\$0
<b>Total Tornado Events</b>		<b>14 Events</b>		<b>1</b>	<b>9</b>	<b>\$3.1m</b>	<b>\$0</b>
<b>Jurisdictional Summary: Tornadoes</b>							
Countywide		0 Events		0	0	\$0	\$0
Samson		1 Event		0	0	\$10,000	\$0
Slocomb		2 Events		0	0	\$105,000	\$0
Geneva		2 Events		1	9	\$2.6M	\$0
Hartford		1 Event		0	0	\$50,000	\$0
Malvern		2 Events		0	0	\$75,000	\$0
Black		2 Events		0	0	\$235,000	\$0
Unincorporated Geneva County		4 Events		0	0	\$25,000	\$0

**Table 4.69: Profile of Tornado Events in Henry County, 2000 to 2020**

Location	Date	Event Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
ABBEVILLE	12/16/2000	Tornado	F1	0	0	\$2900000	\$0
ABBEVILLE	11/5/2002	Tornado	F2	1	20	\$3000000	\$0
HEADLAND	12/24/2002	Tornado	F1	0	8	\$2000000	\$0
TUMBLETON	1/13/2006	Tornado	F0	0	0	\$100000	\$0

NEWVILLE	11/15/2006	Tornado	F1	0	0	\$150000	\$0
ABBEVILLE	3/1/2007	Tornado	EF1	0	2	\$11000000	\$0
CAPPS	10/8/2008	Tornado	EF0	0	0	\$75000	\$0
WILLS CROSSROADS	2/1/2011	Tornado	EF0	0	0	\$150000	\$0
HAYES	1/4/2015	Tornado	EF0	0	0	\$0	\$0
CAPPS	4/19/2015	Tornado	EF1	0	0	\$1000000	\$0
HEADLAND	2/23/2016	Tornado	EF1	0	0	\$50000	\$0
MILLER	2/23/2016	Tornado	EF0	0	0	\$0	\$0
HARDWICKBURG	2/23/2016	Tornado	EF1	0	0	\$0	\$0
GRANDBERRY CROSSROADS	1/22/2017	Tornado	EF1	0	0	\$100000	\$0
COATES	4/5/2017	Tornado	EF2	0	0	\$500000	\$0
LAWRENCEVILLE	1/4/2019	Tornado	EF0	0	0	\$0	\$0
SHORTERVILLE	3/3/2019	Tornado	EF0	0	0	\$0	\$0
KIRKLAND CROSSROADS	4/19/2020	Tornado	EF1	0	0	\$100000	\$0
TUMBLETON	4/19/2020	Tornado	EF2	1	0	\$0	\$0
TUMBLETON	4/19/2020	Tornado	EF1	0	0	\$250000	\$0
DANZEY	4/19/2020	Tornado	EF1	0	0	\$5000	\$0
<b>Total Tornado Events</b>		<b>21 Events</b>		<b>2</b>	<b>30</b>	<b>\$21.38m</b>	<b>\$0</b>
<b>Jurisdictional Summary: Tornadoes</b>							
Countywide	0 Events			0	0	\$0	\$0
Abbeville	3 Events			1	22	\$16.9m	\$0
Headland	2 Events			0	8	\$2.05m	\$0
Newville	1 Event			1	9	\$150,000	\$0
Unincorporated Henry County	4 Events			1	0	\$2.33m	\$0

**Table 4.70: Profile of Tornado Events in Houston County, 2000 to 2020**

Location	Date	Event Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
WICKSBURG	12/16/2000	Tornado	F0	0	0	\$50000	\$0
PANSEY	3/22/2005	Tornado	F2	0	4	\$750000	\$0
GORDON	8/25/2008	Tornado	EF1	0	0	\$75000	\$0
WICKSBURG	10/8/2008	Tornado	EF0	0	0	\$75000	\$0
MADRID	4/19/2015	Tornado	EF1	0	0	\$100000	\$0
WICKSBURG	2/23/2016	Tornado	EF0	0	0	\$50000	\$0

HOLLIS DAIRY RD	2/23/2016	Tornado	EF1	0	0	\$0	\$0
BRANNON STAND	2/23/2016	Tornado	EF1	0	0	\$0	\$0
KELLY SPRINGS	2/23/2016	Tornado	EF1	0	0	\$50000	\$0
KELLY SPRINGS	2/23/2016	Tornado	EF1	0	0	\$75000	\$0
TAYLOR	1/2/2017	Tornado	EF2	0	0	\$500000	\$0
ARDILLA	1/2/2017	Tornado	EF1	0	0	\$100000	\$0
MADRID	2/11/2018	Tornado	EF0	0	0	\$0	\$0
BRANNON STAND	12/2/2018	Tornado	EF0	0	0	\$15000	\$0
DOTHAN	5/12/2019	Tornado	EF0	0	0	\$10000	\$0
MADRID	12/17/2019	Tornado	EF0	0	0	\$25000	\$0
GREEN ACRES	4/19/2020	Tornado	EF1	0	0	\$50000	\$0
<b>Total Tornado Events</b>		<b>17 Events</b>		<b>0</b>	<b>4</b>	<b>\$1.93m</b>	<b>\$0</b>
<b>Jurisdictional Summary: Tornadoes</b>							
Countywide		0 Events		0	0	\$0	\$0
Ardilla		1 Event		0	0	\$100,000	\$0
Dothan		1 Event		0	0	\$10,000	\$0
Gordon		1 Event		0	0	\$75,000	\$0
Madrid		3 Events		0	0	\$125,000	\$0
Pansey		1 Event		0	4	750,000	\$0
Taylor		1 Event		0	0	\$500,000	\$0
Wicksburg		3 Events		0	0	\$675,000	\$0
Unincorporated Houston County		6 Events		0	0	\$290,000	\$0

**Table 4.71: Profile of Tornado Events in Pike County, 2000 to 2020**

Location	Date	Event Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Troy	11/9/2000	Tornado	F1	0	0	\$95,000	\$0
Unincorp Pike County: Ansley	11/24/2001	Tornado	F0	0	0	\$2,000	\$0
Unincorp Pike County: Spring Hill	11/24/2001	Tornado	F1	0	0	\$50,000	\$0
Troy	4/30/2002	Funnel		0	0	\$0	\$0
Troy	9/16/2004	Tornado	F0	0	0	\$2,000	\$0
Troy	9/16/2004	Tornado	F0	0	0	\$2,000	\$0
Unincorp Pike County: Hamilton	11/15/2006	Tornado	F2	0	0	\$500,000	\$0
Unincorp Pike County: Baltic	2/17/2008	Tornado	EF1	0	0	\$60,000	\$0
Unincorp Pike County: Corcoran	8/25/2008	Tornado	EF0	0	0	\$50,000	\$0
Unincorp Pike County: Enon	8/25/2008	Tornado	EF0	0	0	\$2,000	\$0
Unincorp Pike County: Oungblood	3/23/2012	Tornado	EF1	0	0	\$0	\$0
Goshen	12/25/2012	Tornado	EF2	0	2	\$0	\$0

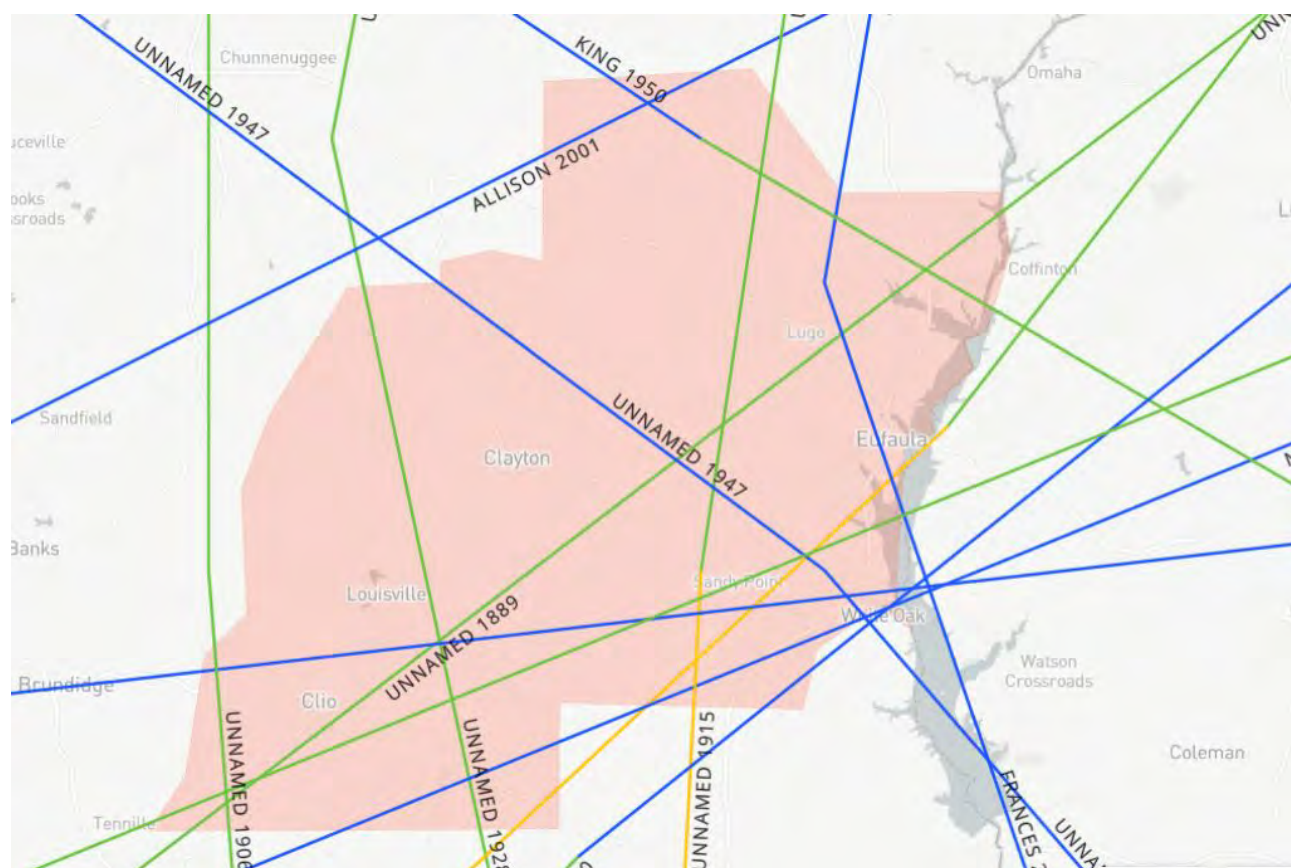
Unincorp Pike County: Tennille	12/25/2012	Tornado	EF1	0	0	\$0	\$0
Unincorp Pike County: Wingard	11/17/2014	Tornado	EF1	0	0	\$0	\$0
Troy	8/6/2015	Tornado	EF1	0	7	\$0	\$0
Unincorp Pike County: Hamilton	2/15/2016	Tornado	EF1	0	0	\$0	\$0
Unincorp Pike County: Wingard	1/21/2017	Tornado	EF1	0	0	\$0	\$0
Unincorp Pike County: Corcoran	4/27/2017	Tornado	EF1	0	0	\$0	\$0
Goshen	4/14/2019	Tornado	EF0	0	0	\$0	\$0
Troy	4/14/2019	Tornado	EF1	0	0	\$0	\$0
Unincorp Pike County: Henderson	4/14/2019	Tornado	EF0	0	0	\$0	\$0
Brundidge	11/27/2019	Tornado	EF0	0	0	\$0	\$0
Troy	3/31/2020	Tornado	EF0	0	0	\$0	\$0
Unincorp Pike County: Orion	3/31/2020	Tornado	EF0	0	0	\$0	\$0
Unincorp Pike County: Sandfield	3/31/2020	Tornado	EF0	0	0	\$0	\$0
Total Tornado Events		25 Events		0	9	\$763,000	\$0
Pike County Jurisdictional Summary: Tornadoes							
Countywide		0 Events		0	0	\$0	\$0
Banks		0 Events		0	0	\$0	\$0
Brundidge		1 Event		0	0	\$0	\$0
Goshen		2 Events		0	2	\$0	\$0
Troy		7 Events		0	7	\$99,000	\$0
Unincorporated		15 Events		0	0	\$664,000	\$0

Barbour County is not especially susceptible to direct tropical or coastal storm events; however, its history documents the fact that the county has experienced tropical cyclones, tornadoes and related flooding associated with tropical systems. Between 2000 and 2020, no hurricane events have directly impacted Barbour County, however Barbour County typically experiences spinoff tornadoes and severe weather related to the effects of hurricanes moving inland. As shown in the map in Figure 4.118, however, Barbour County has experienced 12 hurricane events since 1859.

According to the NOAA National Center for Environmental Information Storm Events Database, there have been zero hurricane events in Barbour County. Because of its location approximately 140 miles from the Gulf Coast Barbour County primarily is affected by winds, flooding and spinoff tornadoes from the remnants of tropical storms and hurricanes that come inland from the Gulf.



**Figure 4.118: Past Hurricane Tracks in Barbour County**



**Table 4.72: Barbour County Hurricane Events, 1859 to 2020**

Storm Name	Date Range	Max Wind Speed	Min Pressure	Max Category
Unnamed 1882	Sep 02, 1882 to Sep 13, 1882	110	949	H3
Unnamed 1887	Oct 09, 1887 to Oct 22, 1887	75	-1	H1
Unnamed 1889	Sep 12, 1889 to Sep 26, 1889	95	-1	H2
Unnamed 1906	Jun 08, 1906 to Jun 14, 1906	45	-1	TS
Unnamed 1915	Aug 31, 1915 to Sep 06, 1915	85	982	H2
Unnamed 1923	Jun 22, 1923 to Jun 29, 1923	50	1006	TS
Unnamed 1928	Aug 07, 1928 to Aug 17, 1928	80	-1	H1
Unnamed 1947	Oct 08, 1947 to Oct 16, 1947	90	966	H2
King 1950	Oct 13, 1950 to Oct 20, 1950	115	955	H4
Helene 2000	Sep 15, 2000 to Sep 25, 2000	60	1010	TS
Allison 2001	Jun 05, 2001 to Jun 19, 2001	50	1000	TS
Francis 2004	Aug 25, 2004 to Sep 10, 2004	125	935	H4

Source: NOAA, National Ocean Service, NOAA Historical Hurricane Tracks.

<https://oceanservice.noaa.gov/news/historical-hurricanes/>

### ***Probability of Future Events.***

Severe high wind events that cause property damage and potential casualties can affect Barbour County throughout the year and have averaged multiple occurrences a year in recent history. This recent history of damaging events causes Barbour County to have a High probability of

high wind occurrences that includes hail, thunderstorms, high winds, heavy rain, tornadoes and hurricanes.

Because of its interior location, Coffee County is not especially susceptible to direct tropical or coastal storm events; however, its history documents the fact that the county has experienced tropical cyclones, tornadoes and related flooding associated with tropical systems. Between 2000 and 2020, no hurricane events have directly impacted Coffee County, however Coffee County typically experiences spinoff tornadoes and severe weather related to the effects of hurricanes moving inland. As shown in the map in Figure 15, however, Coffee County has experienced 12 hurricane events since 1859.

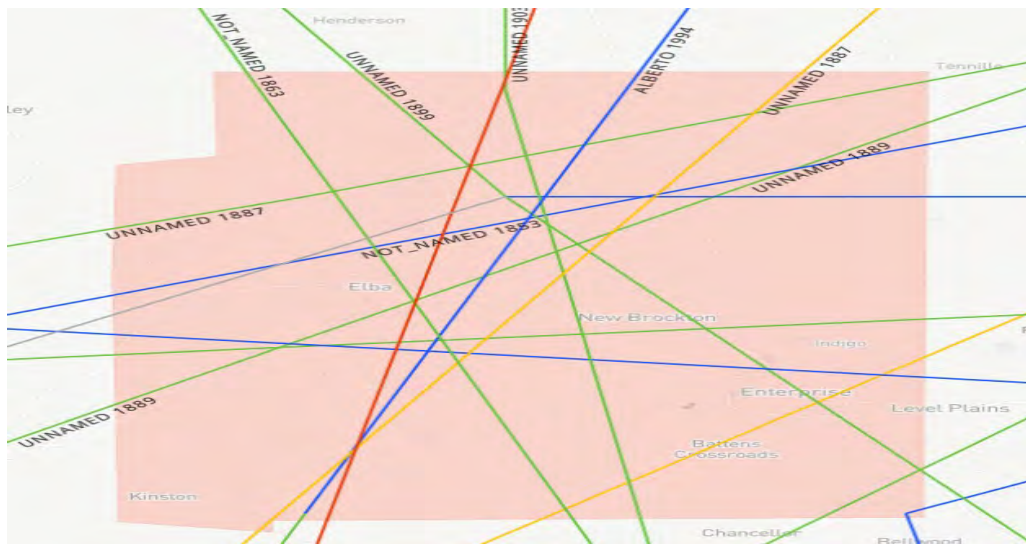
According to the NOAA National Center for Environmental Information Storm Events Database, there have been zero hurricane events in Coffee County. Because of its location approximately 140 miles from the Gulf Coast Coffee County primarily is affected by winds, flooding and spinoff tornadoes from the remnants of tropical storms and hurricanes that come inland from the Gulf.

**Table 4.73: Coffee County Hurricane Events, 1859 to 2020**

Storm Name	Date Range	Max Wind Speed	Min Pressure	Max Category
Unnamed 1860	Aug 08, 1860 to Aug 16, 1860	110	-1	H3
Unnamed 1863	May 24, 1863 to May 31, 1863	90	968	-1
Unnamed 1882	Sep 02, 1882 to Sep 13, 1882	110	949	H3
Unnamed 1887	Aug 07, 1928 to Aug 17, 1928	80	-1	H1
Unnamed 1887	Jun 22, 1923 to Jun 29, 1923	50	1006	TS
Unnamed 1889	Aug 07, 1928 to Aug 17, 1928	80	-1	H1
Unnamed 1889	Jul 28, 1899 to Aug 02, 1899	85	979	Tropical Storm
Unnamed 1899	Jul 28, 1899 to Aug 02, 1899	85	-1	Tropical Storm
Unnamed 1903	Sep 09, 1903 to Sep 16, 1903	80	976	H1
Unnamed 1912	Jul 12, 1912 to Jul 17, 1912	45	-1	Tropical Storm
Unnamed 1919	Sep 29, 1919 to Oct 02, 1919	40	-1	Tropical Storm
Unnamed 1934	Oct 01, 1934 to Oct 06, 1934	50	-1	Tropical Storm
Eloise 1975	Sep 13, 1975 to Sep 24, 1975	110	955	H3
Alberto 1994	Jun 30, 1994 to Jul 07, 1994	55	1000	Tropical Storm
Helene 2000	Sep 15, 2000 to Sep 25, 2000	60	1006	Tropical Storm
Tammy 2005	Oct 05, 2005 to Oct 07, 2005	45	1001	Tropical Storm

Source: NOAA, National Ocean Service, NOAA Historical Hurricane Tracks.  
<https://oceanservice.noaa.gov/news/historical-hurricanes/>

**Figure 4.119: Past Hurricane Tracks in Coffee Count**



### ***Probability of Future Events.***

Severe high wind events that cause property damage and potential casualties can affect Coffee County throughout the year and have averaged multiple occurrences a year in recent history. This recent history of damaging events causes Coffee County to have a High probability of high wind occurrences that includes hail, thunderstorms, high winds, heavy rain, tornadoes and hurricanes. Because of its interior location, Covington County is not especially susceptible to direct tropical or coastal storm events; however, its history documents the fact that the county has experienced tropical cyclones, tornadoes and related flooding associated with tropical systems. Between 2000 and 2020, one hurricane event has impacted Covington County, causing no property damage. Details of these events are provided in Table 4.74. As shown in the map in Figure 4.119, however, Covington County has experienced 19 hurricane events since 1859.

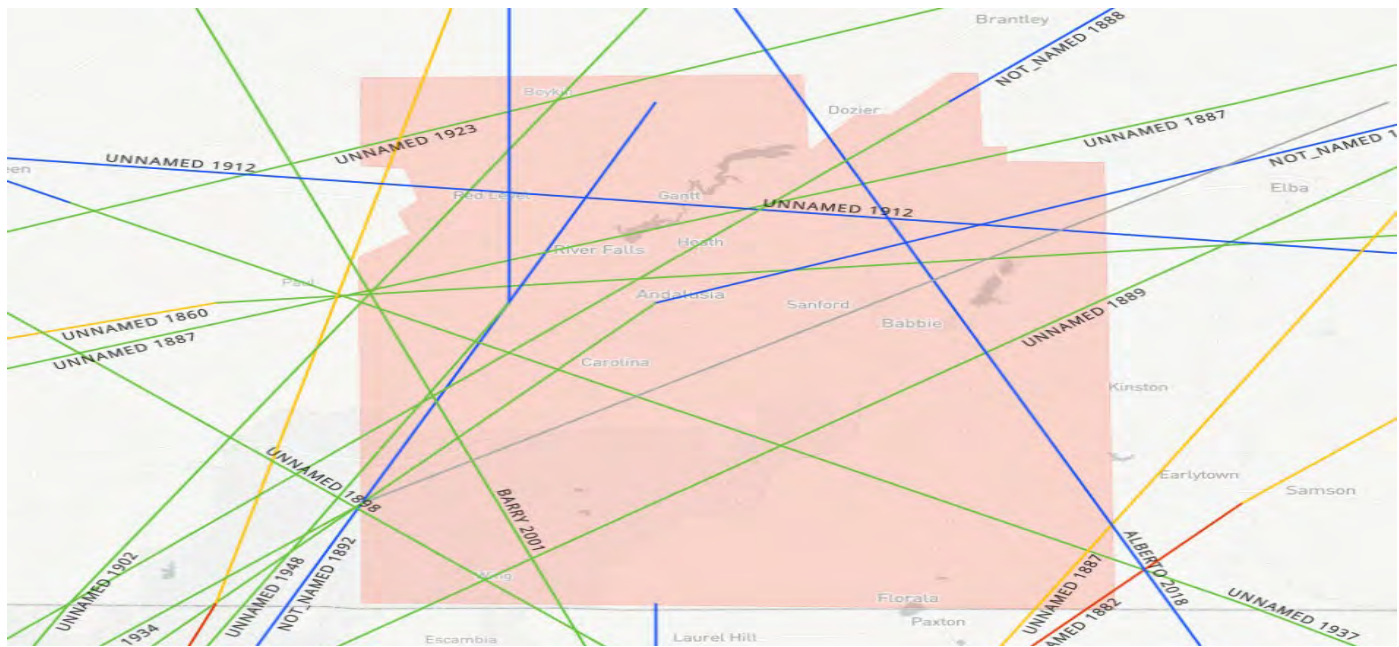
**Table 4.74: Profile of Hurricane Events in Covington County, 2000 to 2020**

Location	Date	Event Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Countywide	8/6/2001	Tropical Storm		0	0	\$0	\$0
Countywide	9/13/2004	Hurricane (Typhoon)		0	0	\$0	\$0
Countywide	10/10/2018	Tropical Storm		0	0	\$440,590	\$0
<b>Total Hurricane Events</b>		<b>3 Events</b>		<b>0</b>	<b>0</b>	<b>\$0</b>	<b>\$0</b>

Source: NOAA, National Centers for Environmental Information, Storm Events Database.

<https://www.ncdc.noaa.gov/stormevents/choosedates.jsp?statefips=1%2CALABAMA>

**Figure 4.120: Past Hurricane Tracks in Covington County**



**Table 4.75 Covington County Hurricane Events, 1859 to 2020**

Storm Name	Date Range	Max Wind Speed	Min Pressure	Max Category
Not Named	Sep 07, 1853 to Sep 11, 1853	45 (kt)	-1.0 (mb)	TS
Unnamed	Aug 08, 1860 to Aug 16, 1860	110 (kt)	-1.0 (mb)	H3
Unnamed	Sep 02, 1882 to Sep 13, 1882	110 (kt)	949 (mb)	H3
Unnamed	Jul 20, 1887 to Jul 28, 1887	85 (kt)	-1.0 (mb)	H2
Unnamed	Oct 09, 1887 to Oct 22, 1887	75 (kt)	-1.0 (mb)	H1
Not Named	Jun 25, 1888 to Jun 28, 1888	35 (kt)	-1.0 (mb)	TS
Unnamed	Sep 12, 1889 to Sep 26, 1889	95 (kt)	-1.0 (mb)	H2
Unnamed	Sep 10, 1892 to Sep 13, 1892	45 (kt)	-1.0 (mb)	TS
Unnamed	Aug 02, 1898 to Aug 03, 1898	70 (kt)	-1.0 (mb)	H1
Unnamed	Oct 03, 1902 to Oct 13, 1902	90 (kt)	-1.0 (mb)	H2
Unnamed	Jul 12, 1912 to Jul 17, 1912	45 (kt)	-1.0 (mb)	TS
Unnamed	Jun 22, 1923 to Jun 29, 1923	50 (kt)	-1.0 (mb)	TS
Unnamed	Oct 01, 1934 to Oct 06, 1934	50 (kt)	-1.0 (mb)	TS
Unnamed	Aug 24, 1937 to Sep 02, 1937	60 (kt)	-1.0 (mb)	TS
Unnamed	Jul 07, 1948 to Jul 11, 1948	35 (kt)	-1.0 (mb)	TS
Unnamed	Sep 29, 1969 to Oct 01, 1969	50 (kt)	996 (mb)	TS
Opal	Sep 15, 2000 to	60 (kt)	950 (mb)	H4



	Sep 25, 2000			
Barry	Oct 05, 2005 to Oct 07, 2005	45 (kt)	991 (mb)	TS

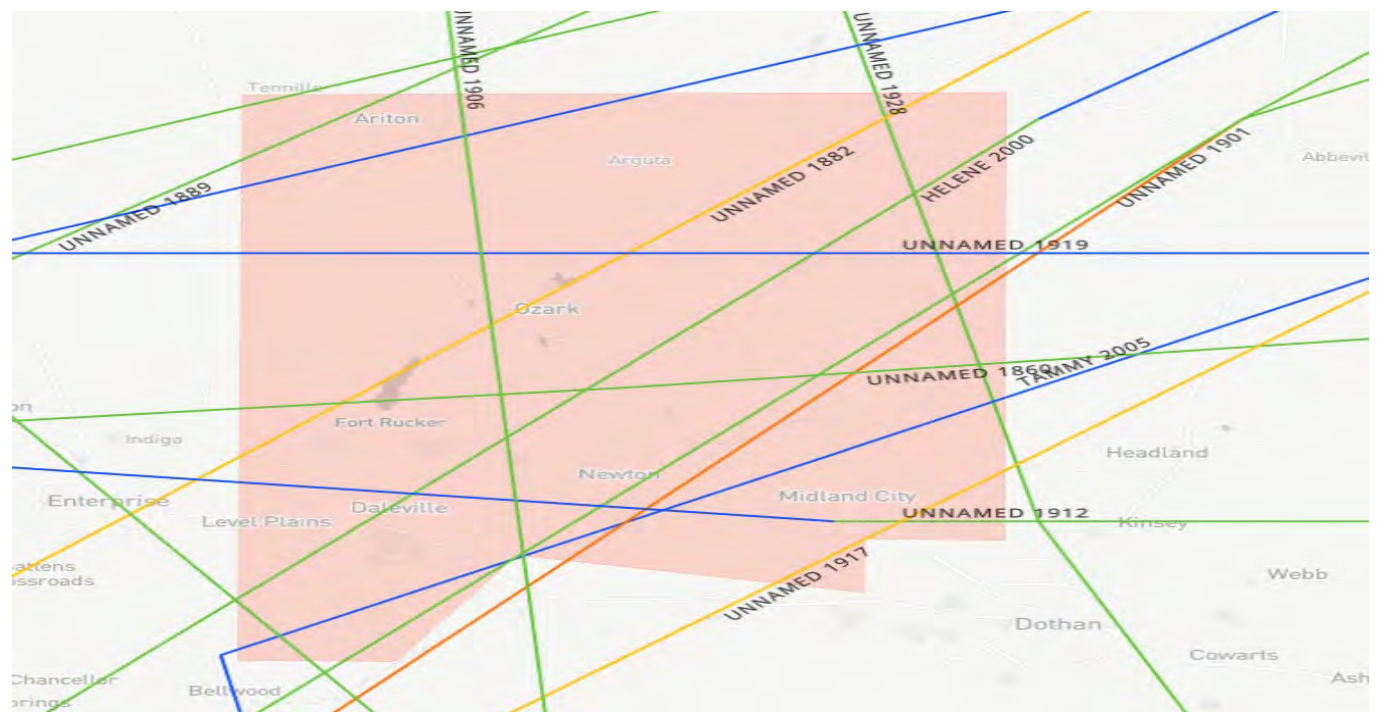
Source: NOAA, National Ocean Service, NOAA Historical Hurricane Tracks. <https://oceanservice.noaa.gov/news/historical-hurricanes/>

### ***Probability of Future Events.***

Severe high wind events that cause property damage and potential casualties can affect Covington County throughout the year and have averaged multiple occurrences a year in recent history. This recent history of damaging events causes Covington County to have a High probability of high wind occurrences that includes hail, thunderstorms, high winds, heavy rain, tornadoes and hurricanes.

According to the NOAA National Center for Environmental Information Storm Events Database, there has been one hurricane event in Dale County. Because of its location approximately 140 miles from the Gulf Coast Dale County primarily is affected by winds, flooding and spinoff tornadoes from the remnants of tropical storms and hurricanes that come inland from the Gulf.

**Figure 4.121: Past Hurricane Tracks in Dale County**



**Table 4.76: Dale County Hurricane Events, 1859 to 2020**

Storm Name	Date Range	Max Wind Speed	Min Pressure	Max Category
Not Named 1882	Sep 07, 1853 to Sep 11, 1853	45	-1	TS
Unnamed 1860	Aug 08, 1860 to Aug 16, 1860	110	-1	H3
Unnamed 1882	Sep 02, 1882 to Sep 13, 1882	110	-1	H3
Unnamed 1887	Oct 09, 1887 to Oct 22, 1887	75	-1	H1
Unnamed 1889	Sep 12, 1889 to Sep 26, 1889	95	-1	H2
Unnamed 1896	Jul 04, 1896 to Jul 12, 1896	85	-1	H2
Unnamed 1899	Jul 28, 1899 to Aug 02, 1899	85	-1	H2
Unnamed 1901	Sep 09, 1901 to Sep 19, 1901	70	-1	H1
Unnamed 1906	Jun 08, 1906 to Jun 14, 1906	45	-1	TS
Unnamed 1912	Jul 12, 1912 to Jul 17, 1912	45	-1	TS
Unnamed 1917	Sep 20, 1917 to Sep 30, 1917	130	-1	H4
Unnamed 1919	Sep 29, 1919 to Oct 02, 1919	40	-1	TS
Unnamed 1928	Aug 07, 1928 to Aug 17, 1928	80	-1	H1
Helene 2000	Sep 15, 2000 to Sep 25, 2000	60	1006	TS
Tammy 2005	Oct 05, 2005 to Oct 07, 2005	45	1005	TS

Source: NOAA, National Ocean Service, NOAA Historical Hurricane Tracks.  
<https://oceanservice.noaa.gov/news/historical-hurricanes>

### ***Probability of Future Events.***

Severe high wind events that cause property damage and potential casualties can affect Dale County throughout the year and have averaged multiple occurrences a year in recent history. This recent history of damaging events causes Dale County to have a High probability of high wind occurrences that includes hail, thunderstorms, high winds, heavy rain, tornadoes and hurricanes.

Because of its interior location, Geneva County is not especially susceptible to direct tropical or coastal storm events; however, its history documents the fact that the county has experienced tropical cyclones, tornadoes and related flooding associated with tropical systems. Between 2000 and 2020, eight hurricane events have impacted Geneva County, causing \$150,000 in property damage. Both hurricane events had countywide impact. Details of these events are provided in Table 4.76. As shown in the map in Figure 4.121, however, Geneva County has experienced 20 hurricane events since 1859.

**Table 4.77: Profile of Hurricane Events in Geneva County, 2000 to 2020**

Location	Date	Event Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Countywide	7/9/2005	Hurricane (Typhoon)		0	0	\$150,000	\$0
Countywide	8/5/2001	Tropical Storm		0	0	\$0	\$0
Countywide	9/15/2004	Tropical Storm		0	0	\$500,000	\$0
Countywide	8/23/2008	Tropical Storm		0	0	\$20,000	\$0
Countywide	9/11/2017	Tropical Storm		0	0	\$10,000	\$0
Countywide	10/8/2017	Tropical Storm		0	0	\$0	\$0
Countywide	5/28/2018	Tropical Storm		0	0	\$977,860	\$0
Countywide	10/10/2018	Tropical Storm		0	0	\$200,000	\$0
<b>Total Hurricane Events</b>		<b>8 Event</b>		<b>0</b>	<b>0</b>	<b>\$1.85m</b>	<b>\$0</b>

Source: NOAA, National Centers for Environmental Information, Storm Events Database.  
<https://www.ncdc.noaa.gov/stormevents/choosedates.jsp?statefips=1%2CALABAMA>

**Figure 4.122: Past Hurricane Tracks in Geneva County**



**Table 4.78: Geneva County Hurricane Events, 1859 to 2020**

Storm Name	Date Range	Max Wind Speed	Min Pressure	Max Category
Not Named	May 24, 1863 to May 31, 1863	90 (kt)	-1.0 (mb)	H2
Unnamed	Sep 2, 1882 to Sep 13, 1882	110 (kt)	-1.0 (mb)	H3
Unnamed	Jul 20, 1887 to Jul 28, 1887	85 (kt)	-1.0 (mb)	H2
Unnamed	Jul 04, 1896 to Jul 12, 1896	85 (kt)	-1.0 (mb)	H2
Unnamed	Jul 28, 1899 to Aug 02, 1899	85 (kt)	-1.0 (mb)	H2
Unnamed	Sep 09, 1901 to Sep 19, 1901	70 (kt)	-1.0 (mb)	H1
Unnamed	Sep 09, 1903 to Sep 16, 1903	80 (kt)	-1.0 (mb)	H1
Unnamed	Jun 08, 1906 to Jun 14, 1906	45 (kt)	-1.0 (mb)	TS
Unnamed	Aug 04, 1911 to Aug 12, 1911	50 (kt)	-1.0 (mb)	TS
Unnamed	Sep 15, 1914 to Sep 19, 1914	60 (kt)	-1.0 (mb)	TS
Unnamed	Sep 20, 1917 to Sep 30, 1917	130 (kt)	-1.0 (mb)	H4
Unnamed	Aug 24, 1937 to Sep 02, 1937	60 (kt)	-1.0 (mb)	TS
Alice	May 25, 1953 to Jun 07, 1953	60 (kt)	-1.0 (mb)	TS
Florence	Sep 23, 1953 to Sep 27, 1953	100 (kt)	-1.0 (mb)	H3
Debbie	Sep 07, 1957 to Sep 09, 1957	35 (kt)	-1.0 (mb)	TS
Eloise	Sep 13, 1975 to Sep 24, 1975	110 (kt)	955 (mb)	H3
Alberto	Jun 30, 1994 to Jul 07, 1994	55 (kt)	1000 (mb)	TS
Helene	Sep 15, 2000 to Sep 25, 2000	60 (kt)	1006 (mb)	TS
Tammy	Oct 05, 2005 to Oct 07, 2005	45 (kt)	1006 (mb)	TS
Alberto	May 25, 2018 to May 31, 2018	55 (kt)	993 (mb)	TS

Source: NOAA, National Ocean Service, NOAA Historical Hurricane Tracks. <https://oceanservice.noaa.gov/news/historical-hurricanes/>

### ***Probability of Future Events.***

Severe high wind events that cause property damage and potential casualties can affect Geneva County throughout the year and have averaged multiple occurrences a year in recent history. This recent history of damaging events causes Geneva County to have a High probability of high wind occurrences that includes hail, thunderstorms, high winds, heavy rain, tornadoes and hurricanes. Because of its interior location, Henry County is not especially susceptible to direct tropical or coastal storm events; however, its history documents the fact that the county has experienced tropical cyclones, tornadoes and related flooding associated with tropical systems. Between 2000 and 2020, one hurricane event has impacted Henry County, causing \$100,000 in property damage. Details of these events are provided in Table 4.79. As shown in the map in Figure 4.123, however, Henry County has experienced 14 hurricane events since 1859.



Figure 4.123: Past Hurricane Tracks in Henry County

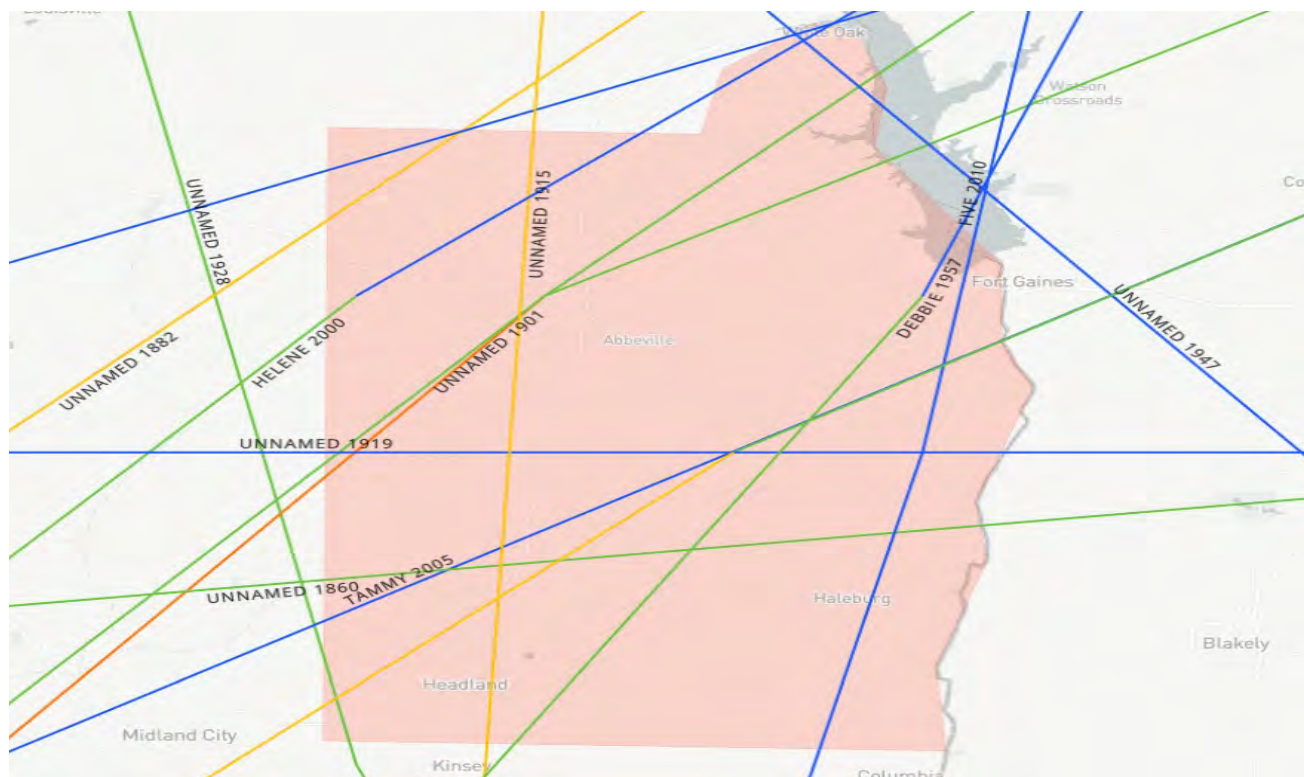


Table 4.79: Profile of Hurricane Events in Henry County, 2000 to 2020

Location	Date	Event Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Countywide	8/5/2001	Tropical Storm		0	0	0	\$0
Countywide	9/15/2004	Tropical Storm		0	0	\$250,000	\$0
Countywide	7/9/2005	Hurricane (Typhoon)		0	0	\$100,000	\$0
Countywide	8/23/2008	Tropical Storm		0	0	\$15,000	\$0
Countywide	9/11/2017	Tropical Storm		0	0	\$200,000	\$0
Countywide	5/28/2018	Tropical Storm		0	0	\$0	\$0
Countywide	10/10/2018	Tropical Storm		0	0	\$440,590	\$0
<b>Total Hurricane Events</b>		<b>7 Event</b>		<b>0</b>	<b>0</b>	<b>\$1.01m</b>	<b>\$0</b>

Source: NOAA, National Centers for Environmental Information, Storm Events Database.  
<https://www.ncdc.noaa.gov/stormevents/choosedates.jsp?statefips=1%2CALABAMA>

Table 4.80: Henry County Hurricane Events, 1859 to 2020

Storm Name	Date Range	Max Wind Speed	Min Pressure	Max Category
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Not Named	Sep 07, 1853 to Sep 11, 1853	45 (kt)	-1.0 (mb)	TS
Unnamed	Aug 08, 1860 to Aug 16, 1860	110 (kt)	-1.0 (mb)	H3
Unnamed	Sep 02, 1882 to Sep 13, 1882	110 (kt)	-1.0 (mb)	H3
Unnamed	Jul 04, 1896 to Jul 12, 1896	85 (kt)	-1.0 (mb)	H2
Unnamed	Sep 09, 1901 to Sep 19, 1901	85 (kt)	-1.0 (mb)	H2
Unnamed	Aug 31, 1915 to Sep 06, 1915	85 (kt)	-1.0 (mb)	H2
Unnamed	Sep 20, 1917 to Sep 30, 1917	130 (kt)	-1.0 (mb)	H4
Unnamed	Sep 29, 1919 to Oct 02, 1919	40 (kt)	-1.0 (mb)	TS
Unnamed	Aug 07, 1928 to Aug 17, 1928	80 (kt)	-1.0 (mb)	H1
Unnamed	Oct 08, 1947 to Oct 16, 1947	90 (kt)	-1.0 (mb)	H2
Debbie	Sep 07, 1957 to Sep 09, 1957	35 (kt)	-1.0 (mb)	TS
Helene	Sep 15, 2000 to Sep 25, 2000	60 (kt)	1006 (mb)	TS
Tammy	Oct 05, 2005 to Oct 07, 2005	45 (kt)	1005 (mb)	TS
Five	Aug 10, 2010 to Aug 18, 2010	30 (kt)	1013 (mb)	TD

Source: NOAA, National Ocean Service, NOAA Historical Hurricane Tracks. <https://oceanservice.noaa.gov/news/historical-hurricanes/>

#### ***Probability of Future Events.***

Severe high wind events that cause property damage and potential casualties can affect Henry County throughout the year and have averaged multiple occurrences a year in recent history. This recent history of damaging events causes Henry County to have a High probability of high wind occurrences that includes hail, thunderstorms, high winds, heavy rain, tornadoes and hurricanes

Because of its interior location, Houston County is not especially susceptible to direct tropical or coastal storm events; however, its history documents the fact that the county has experienced tropical cyclones, tornadoes and related flooding associated with tropical systems. Between 2000 and 2020, one hurricane event has impacted Houston County, causing \$650,000 in property damage. These hurricane events had countywide impact. Details of these events are provided in Table 4.81. As shown in the map in Figure 4.124, however, Houston County has experienced 17 hurricane events since 1859.

**Table 4.81: Profile of Hurricane Events in Houston County, 2000 to 2020**

Location	Date	Event Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Countywide	8/5/2001	Tropical Storm		0	0	\$0	\$0
Countywide	9/15/2004	Tropical Storm		0	0	\$500,000	\$0



Unnamed	Oct 31, 1904 to Nov 06, 1904	45 (kt)	-1.0 (mb)	TS
Unnamed	Jun 08, 1906 to Jun 14, 1906	45 (kt)	-1.0 (mb)	TS
Unnamed	Aug 04, 1911 to Aug 12, 1911	50 (kt)	-1.0 (mb)	TS
Unnamed	Jul 12, 1912 to Jul 17, 1912	45 (kt)	-1.0 (mb)	TS
Unnamed	Sep 15, 1914 to Sep 19, 1914	60 (kt)	-1.0 (mb)	TS
Unnamed	Aug 31, 1915 to Sep 06, 1915	85 (kt)	982 (mb)	H2
Unnamed	Sep 20, 1917 to Sep 30, 1917	130 (kt)	-1.0 (mb)	H4
Unnamed	Aug 07, 1928 to Aug 17, 1928	80 (kt)	-1.0 (mb)	H1
Florence	Sep 23, 1953 to Sep 27, 1953	100 (kt)	-1.0 (mb)	H3
Debbie	Sep 07, 1957 to Sep 09, 1957	35 (kt)	-1.0 (mb)	TS
Beryl	Aug 14, 1994 to Aug 19, 1994	50 (kt)	1003 (mb)	TS
Tammy	Oct 05, 2005 to Oct 07, 2005	45 (kt)	1005 (mb)	TS
Five	Aug 10, 2010 to Aug 18, 2010	30 (kt)	1013 (mb)	TD

Source: NOAA, National Ocean Service, NOAA Historical Hurricane Tracks. <https://oceanservice.noaa.gov/news/historical-hurricanes/>

### ***Probability of Future Events.***

Severe high wind events that cause property damage and potential casualties can affect Houston County throughout the year and have averaged multiple occurrences a year in recent history. This recent history of damaging events causes Houston County to have a High probability of high wind occurrences that includes hail, thunderstorms, high winds, heavy rain, tornadoes and hurricanes.

Because of its interior location, the AEMA Division B is not especially susceptible to direct tropical or coastal storm events; however, its history documents the fact that the region has experienced tropical cyclones, high winds, tornadoes and related flooding associated with tropical systems.

Between 2000 and 2020, the National Centers for Environmental Information reports that two hurricane events have impacted Butler County, causing \$200,000 in property damage. Both hurricane events had countywide impact. Details of these events are provided in Table 4.83. As shown in the map in Figure 4.125 and listed in Table 4.84, however, Butler County has experienced 11 hurricane events since 1859, four of which occurred in the same reporting period as NCEI Storm Events Data. Utilizing NOAA's Historical Hurricane Tracker Data. The combined data indicates that Butler County has been impacted by five hurricane events since 2020: Allison and Barry in 2001, Hanna in 2002, Ivan in 2004, and Alberto in 2018. As stated previously, the largest hurricane in Butler County's history was Category 4 Hurricane Opal in 1995, with winds of 130 miles per hour, followed by an unnamed hurricane in 1893, with winds of 115 miles per hour that would be considered a Category 3 hurricane by today's standards.



**Table 4.83: Profile of Hurricane Events in Butler County, 2000 to 2020**

Location	Date	Event Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Countywide	8/6/2001	Tropical Storm	Tropical Storm	0	0	\$200,000	\$0
Countywide	9/13/2004	Hurricane (Typhoon)	Hurricane (Typhoon)	0	0	\$0	\$0
<b>Total Hurricane Events</b>		<b>2 Events</b>		<b>0</b>	<b>0</b>	<b>\$200,000</b>	<b>\$0</b>

Source: NOAA, National Centers for Environmental Information, Storm Events Database.  
<https://www.ncdc.noaa.gov/stormevents/choosedates.jsp?statefips=1%2CALABAMA>

**Table 4.84: Butler County Hurricane Events, 1859 to 2020**

Storm Name	Date Range	Max Wind Speed	Min Pressure	Max Category
Unnamed 1859	9/15-9/18/1859	70	-1	H1
Unnamed 1893	9/27-10/5/1893	115	948	H4
Unnamed 1902	10/3-10/13/1902	90	970	H2
Unnamed 1944	9/9-9/11/1944	55	992	TS
Unnamed 1948	7/7-7/11/1948	35	-1	TS
Irene 1959	10/6-10/9/1959	40	1000	TS
Opal 1995	9/27-10/6/1995	130	916	H4
Allison 2001	6/5-6/19/2001	50	1000	TS
Barry 2001	8/2-8/8/2001	60	990	TS
Hanna 2002	9/12-9/15/2002	50	1001	TS
Alberto 2018	5/25-5/31/2018	55	990	TS

Source for Figure 16 and Table 4.22: NOAA, National Ocean Service, NOAA Historical Hurricane Tracks.  
<https://oceanservice.noaa.gov/news/historical-hurricanes/>

**Figure 4.125: Past Hurricane Tracks in Butler County**



Between 2000 and 2020, the National Centers for Environmental Information reports that two hurricane events impacted Crenshaw County with no reported property damage. Both hurricane events had countywide impact. Details of these events are provided in Table 4.85. NOAA's Historical Hurricane Tracker Data, as shown in the map in Figure 16.1.2 and listed in Table 4.86, reports that Crenshaw County has experienced nine hurricane events since 1859, three of which occurred since 2020. The combined data indicates that Crenshaw County has been impacted by five hurricane events since 2020: Allison and Barry in 2001, Hanna in 2002, Ivan in 2004, and Alberto in 2018.

**Table 4.85: Profile of Hurricane Events in Crenshaw County, 2000 to 2020**

Location	Date	Event Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Countywide	9/13/2004	Hurricane (Typhoon)	Hurricane (Typhoon)	0	0	\$0	\$0
Countywide	8/6/2001	Tropical Storm	Tropical Storm	0	0	\$0	\$0
<b>Total Hurricane Events</b>		<b>2 Events</b>		<b>0</b>	<b>0</b>	<b>\$0</b>	<b>\$0</b>

Source: NOAA, National Centers for Environmental Information, Storm Events Database.  
<https://www.ncdc.noaa.gov/stormevents/choosedates.jsp?statefips=1%2CALABAMA>

**Table 4.86: Crenshaw County Hurricane Events, 1859 to 2020**

Storm Name	Date Range	Max Wind Speed	Min Pressure	Max Category
Unnamed 1863	5/24/1863 to 5/31/1863	90	968	H2
Unnamed 1887	10/9/1887 to 10/22/1887	75	-1	H1
Unnamed 1888	6/25/1888 to 6/28/1888	35	1005	TS
Unnamed 1899	7/28/1899 to 8/2/1899	85	979	H2
Unnamed 1902	10/3/1902 to 10/13/1902	90	970	H2
Unnamed 1923	6/22/1923 to 6/29/1923	50	1006	TS
Allison	6/5/2001 to 6/19/2001	50	1000	TS
Hanna	9/12/2002 to 9/15/2002	50	1001	TS
Alberto	5/25/2018 to 5/31/2018	55	990	TS

Source for Figure 16 and Table 4.22: NOAA, National Ocean Service, NOAA Historical Hurricane Tracks.  
<https://oceanservice.noaa.gov/news/historical-hurricanes/>

**Figure 4.126: Past Hurricane Tracks in Crenshaw County**



Between 2000 and 2020, the National Centers for Environmental Information reports that six hurricane events impacted Pike County with \$76,000 in property damage. All hurricane events had countywide impact. Details of these events are provided in Table 4.87. NOAA's Historical Hurricane Tracker Data, as shown in the map in Figure 16.1.3 and listed in Table 4.22.3, reports that Crenshaw County has experienced ten hurricane events since 1859, two of which occurred since 2020. The combined data indicates that Crenshaw County has been impacted by eight hurricane events since 2020: Allison in 2001, Hanna in 2002, Fay in 2008, Dennis and Katrina in 2005, Ida in 2009, Irma in 2017, and Michael in 2018.

**Table 4.87: Profile of Hurricane Events in Pike County, 2000 to 2020**

Location	Date	Event Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Countywide	8/23/2008	Tropical Depression	Tropical Depression	0	0	\$6,000	\$0
Countywide	11/9/2009	Tropical Depression	Tropical Depression	0	0	\$2,000	\$0
Countywide	7/10/2005	Tropical Storm	Tropical Storm	0	0	\$33,000	\$0
Countywide	8/29/2005	Tropical Storm	Tropical Storm	0	0	\$35,000	\$0
Countywide	9/11/2017	Tropical Storm	Tropical Storm	0	0	\$0	\$0
Countywide	10/10/2018	Tropical Storm	Tropical Storm	0	0	\$0	\$0
<b>Total Hurricane Events</b>		<b>6 Events</b>		<b>0</b>	<b>0</b>	<b>\$76,000</b>	<b>\$0</b>

Source: NOAA, National Centers for Environmental Information, Storm Events Database.  
<https://www.ncdc.noaa.gov/stormevents/choosedates.jsp?statefips=1%2CALABAMA>

**Table 4.88: Pike County Hurricane Events, 1859 to 2020**

Storm Name	Date Range	Max Wind Speed	Min Pressure	Max Category
Unnamed 1863	5/24/1863 to 5/31/1863	90	968	H2
Unnamed 1887	10/9/1887 to 10/22/1887	75	-1	H1
Unnamed 1888	6/25/1888 to 6/28/1888	35	1005	TS

Unnamed 1899	7/28/1899 to 8/2/1899	85	979	H2
Unnamed 1903	9/9/1903 to 9/16/1903	80	976	H1
Unnamed 1906	6/8/1906 to 6/14/1906	45	-1	TS
Unnamed 1923	6/22/1923 to 6/29/1923	50	1006	TS
Alberto	6/30/1994 to 7/7/1994	55	993	TS
Allison	6/5/2001 to 6/19/2001	50	1000	TS
Hanna	9/12/2002 to 9/15/2002	50	1001	TS

Source for Figure 16 and Table 4.22: NOAA, National Ocean Service, NOAA Historical Hurricane Tracks.  
<https://oceanservice.noaa.gov/news/historical-hurricanes/>

**Figure 4.127: Past Hurricane Tracks in Pike County**



#### **Probability of Future Events.**

Severe high wind events that cause property damage and potential casualties can affect the AEMA Division B region throughout the year and have averaged multiple occurrences a year in recent history. This recent history of damaging events causes most counties in the region to have a High probability of high wind occurrences that includes hail, thunderstorms, high winds, heavy rain, tornadoes and hurricanes.

**Table 4.89: Butler County High Wind Event Summary and Probability by Jurisdiction**

Jurisdiction	Historical Events		Maximum Extent	Probability of Impactful Future Events
Countywide	Hail	0 events	--	High
	Thunderstorms/Wind	0 events	--	
	Tornado	0 events	--	
	Hurricane	5 events	Tropical Storm	
Georgiana	Hail	6 events	1.0"	High
	Thunderstorms/Wind	6 events	61 MPH	
	Tornado	5 events	EF1	
	Hurricane	0 events	--	
Greenville	Hail	8 events	1.75"	High



	Thunderstorms/Wind	8 events	83 MPH	
	Tornado	1 event	EF2	
	Hurricane	0 events	--	
McKenzie	Hail	0 events	--	High
	Thunderstorms/Wind	37 events	74 MPH	
	Tornado	2 events	F1	
	Hurricane	0 events	--	
Unincorporated Butler County	Hail	8 events	1.0"	High
	Thunderstorms/Wind	14 events	78 MPH	
	Tornado	4 events	EF1	
	Hurricane	0 events	--	

**Table 4.90: Crenshaw County High Wind Event Summary and Probability by Jurisdiction**

Jurisdiction	Historical Events		Maximum Extent	Probability of Impactful Future Events
Countywide	Hail	0 events	--	High
	Thunderstorms/Wind	0 events	--	
	Tornado	0 events	--	
	Hurricane	5 events	Tropical Storm	
Brantley	Hail	1 event	0.75"	High
	Thunderstorms/Wind	18 events	61 MPH	
	Tornado	1 events	Funnel	
	Hurricane	1 event	--	
Dozier	Hail	2 events	0.75"	High
	Thunderstorms/Wind	6 events	75 MPH	
	Tornado	2 event	EF0	
	Hurricane	0 events	--	
Glenwood	Hail	0 events	--	High
	Thunderstorms/Wind	3 events	52 MPH	
	Tornado	0 events	--	
	Hurricane	0 events	--	
Luverne	Hail	4 events	1.75"	High
	Thunderstorms/Wind	18 events	78 MPH	
	Tornado	3 events	EF0	
	Hurricane	0 events	--	
Petrey	Hail	0 events	--	High
	Thunderstorms/Wind	0 events	--	
	Tornado	0 events	--	
	Hurricane	0 events	--	
Rutledge	Hail	1 event	1.0"	High
	Thunderstorms/Wind	5 events	52 MPH	
	Tornado	0 events	--	
	Hurricane	0 events	--	
Unincorporated Crenshaw County	Hail	8 events	1.75"	High
	Thunderstorms/Wind	33 events	61 MPH	
	Tornado	10 events	EF2	
	Hurricane	0 events	--	

**Table 4.91: Pike County High Wind Event Summary and Probability by Jurisdiction**

Jurisdiction	Historical Events		Maximum Extent	Probability of Impactful Future Events
Countywide	Hail	0 events	--	High
	Thunderstorms/Wind	6 events	65 MPH	
	Tornado	0 events	--	
	Hurricane	8 events	Tropical Storm	
Banks	Hail	1 event	0.75"	High
	Thunderstorms/Wind	1 event	50 MPH	
	Tornado	0 events	--	
	Hurricane	0 events	--	
Brundidge	Hail	3 events	3.0"	High
	Thunderstorms/Wind	4 events	55 MPH	
	Tornado	1 event	EF0	
	Hurricane	0 events	--	
Goshen	Hail	5 events	1.75"	High
	Thunderstorms/Wind	3 events	65 MPH	
	Tornado	2 events	EF2	
	Hurricane	0 events	--	
Troy	Hail	8 events	1.75"	High
	Thunderstorms/Wind	17 events	59 MPH	
	Tornado	7 events	EF1	
	Hurricane	0 events	--	
Unincorporated Pike County	Hail	6 events	1.75"	High
	Thunderstorms/Wind	22 events	60 MPH	
	Tornado	15 events	F2	
	Hurricane	0 events	--	

## LANDSLIDES

### *Description.*

The Geological Survey of Alabama (GSA) defines a landslide as a perceptible downward and outward movement of slope-forming soil, rock, and vegetation under the influence of gravity. In a landslide, masses of rock, earth or debris move down a slope. Debris and mud flows are rivers of rock, earth, and other debris saturated with water. They develop when water rapidly accumulates in the ground, during heavy rainfall or rapid snowmelt, changing the earth into a flowing river of mud or “slurry.” They can flow rapidly, striking with little or no warning at avalanche speeds. They also can travel several miles from their source, growing in size as they pick up trees, boulders, cars and other materials. Landslides can be caused by a variety of factors including earthquakes, storms, volcanic eruptions, fire and by human modification of land. Landslides can occur quickly, often with little notice and the best way to prepare is to stay informed about changes in and around your home that could signal that a landslide is likely to occur.

### *Locations.*

As shown in Figures 4.126 through 4.134, the GSA has mapped the State of Alabama to determine areas with high susceptibility for landslides based on geology, rock strength, slope, average

precipitation, seismic potential, and historic landslides. The result of overlaying these geologic and natural components is a scale of 11 susceptibility categories from None to X (very high).

The majority of Barbour County is categorized as IV: Low Susceptibility with small areas categorized as VI: Moderate Susceptibility, found in the northern half of the county, and small areas of no susceptibility along rivers and streams.

The majority of Butler County is categorized as IV: Low Susceptibility with a small area categorized as VI: Moderate Susceptibility, located in the northwest part of the county, and small areas of no susceptibility along rivers and streams.

The majority of Coffee County is categorized as IV: Low Susceptibility with small areas categorized as VI: Moderate Susceptibility, found in the northern half of the county, and small areas of no susceptibility along rivers and streams.

The majority of Covington County is categorized as IV: Low Susceptibility with small areas categorized as VI: Moderate Susceptibility, found in the northern half of the county, and small areas of no susceptibility along rivers and streams.

The majority of Crenshaw County is categorized as IV: Low Susceptibility with a small area categorized as VI: Moderate Susceptibility, located in the northern tip of the county, and small areas of no susceptibility along rivers and streams.

The majority of Dale County is categorized as IV: Low Susceptibility with small areas categorized as VI: Moderate Susceptibility, found in the northern half of the county, and small areas of no susceptibility along rivers and streams.

The majority of Geneva County is categorized as IV: Low Susceptibility with small areas categorized as VI: Moderate Susceptibility, found in the northern half of the county, and small areas of no susceptibility along rivers and streams.

The majority of Henry County is categorized as IV: Low Susceptibility with small areas categorized as VI: Moderate Susceptibility, found in the northern half of the county, and small areas of no susceptibility along rivers and streams.

The majority of Houston County is categorized as IV: Low Susceptibility with small areas categorized as VI: Moderate Susceptibility, found in the northern half of the county, and small areas of no susceptibility along rivers and streams.

The majority of Pike County is categorized as IV: Low Susceptibility with small areas categorized as VI: Moderate Susceptibility, found in the northern half of the county, and small areas of no susceptibility along rivers and streams.

### ***Extent.***

There is no magnitude scale for landslides. Therefore, defining the extent of landslides is subjective and difficult to predict. Due to the lack of susceptibility throughout the planning area, the extent of landslide incidents is estimated to be primarily isolated damages to structures and infrastructure.

According to the U.S. Landslide Inventory, available through USGS, there have been no landslides that have occurred in Butler County, Crenshaw County or Pike County; however, the GSA indicates that landslides have been present in the some part of each of the counties. There is no date listed on the GSA map detailing time frame, so it is from an indeterminate amount of time. According to the Alabama State Hazard Mitigation Plan (2018), Alabama does not maintain a statewide real-time or near real-time record or reporting system of landslide events throughout the state. Therefore, it is believed that each incident was very localized and minor in nature. There are no damage estimates available for the recorded incidents.

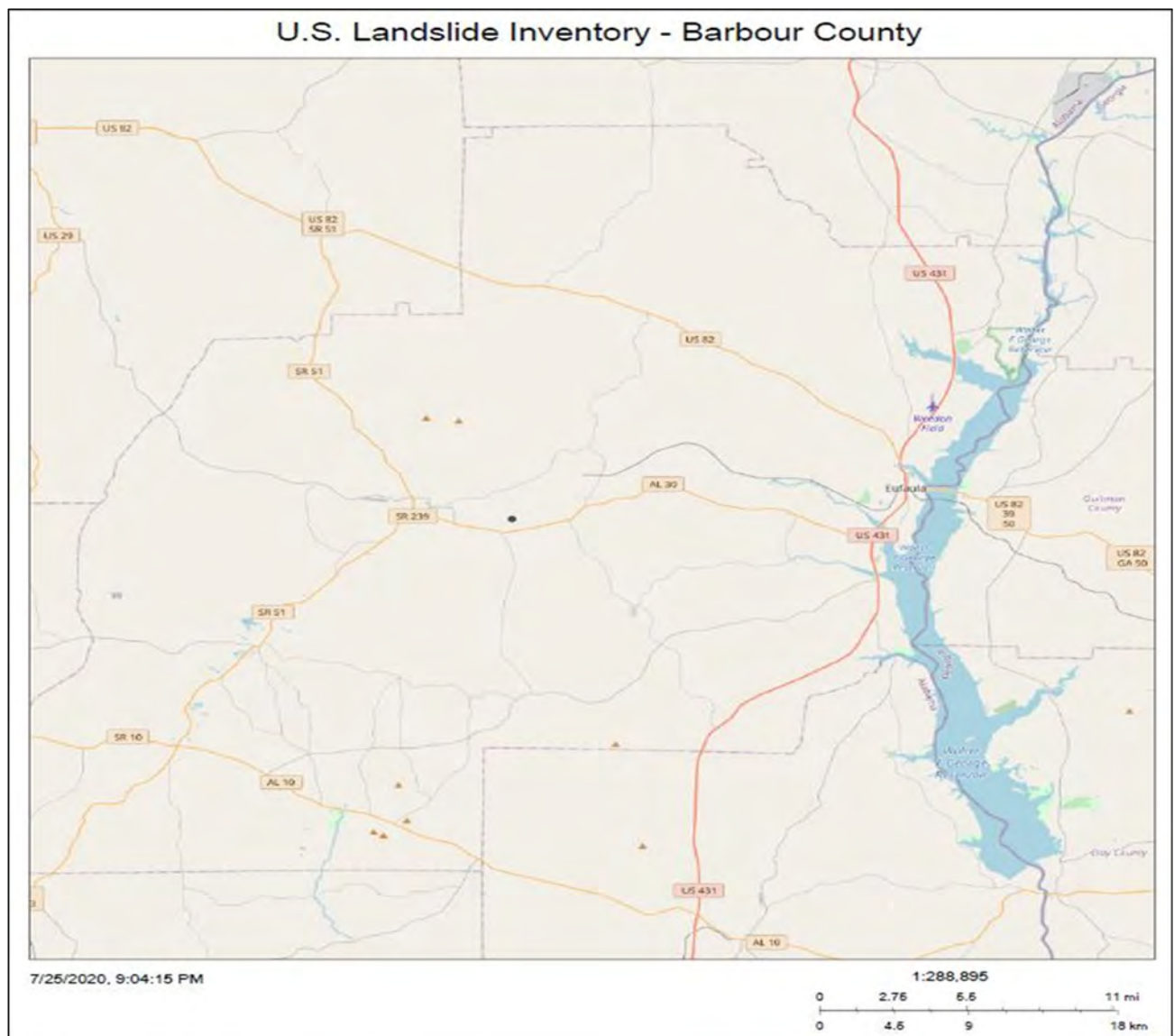
Based on historical information and susceptibility data from the USGS and the GSA, the probability of future landslide events for all jurisdictions in Butler County, Crenshaw County and Pike County is Low. It is anticipated that most future incidents of landslides will be due to human activity and not due to natural events.

**Figure 4.125: U.S. Landslide Alabama**





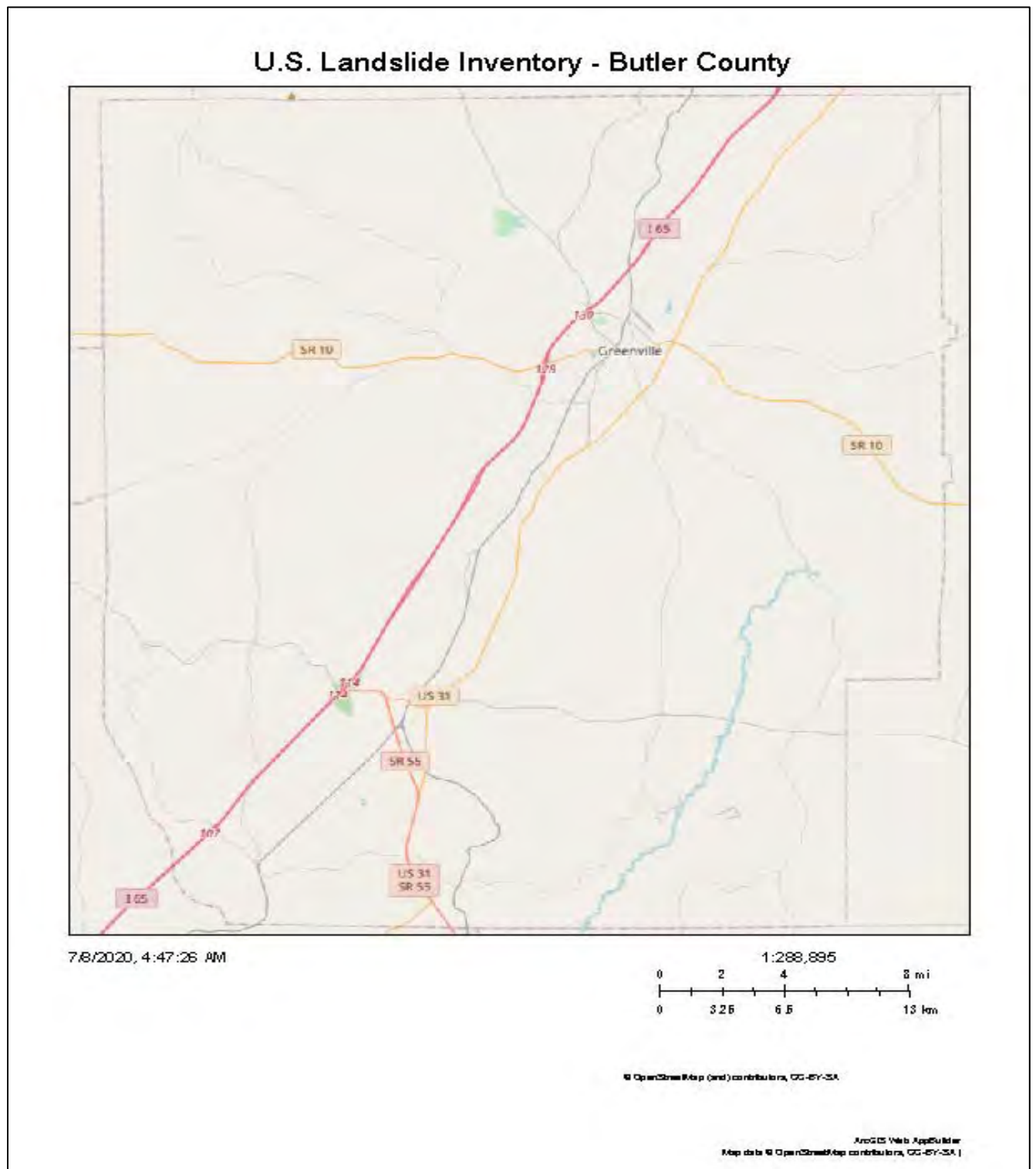
**Figure 4.126: U.S. Landslide Inventory, Barbour County**



Source: USGS, Landslide Hazards Program, U.S. Landslide Inventory.

<https://usgs.maps.arcgis.com/apps/webappviewer/index.html?id=ae120962f459434b8c904b456c82669d>

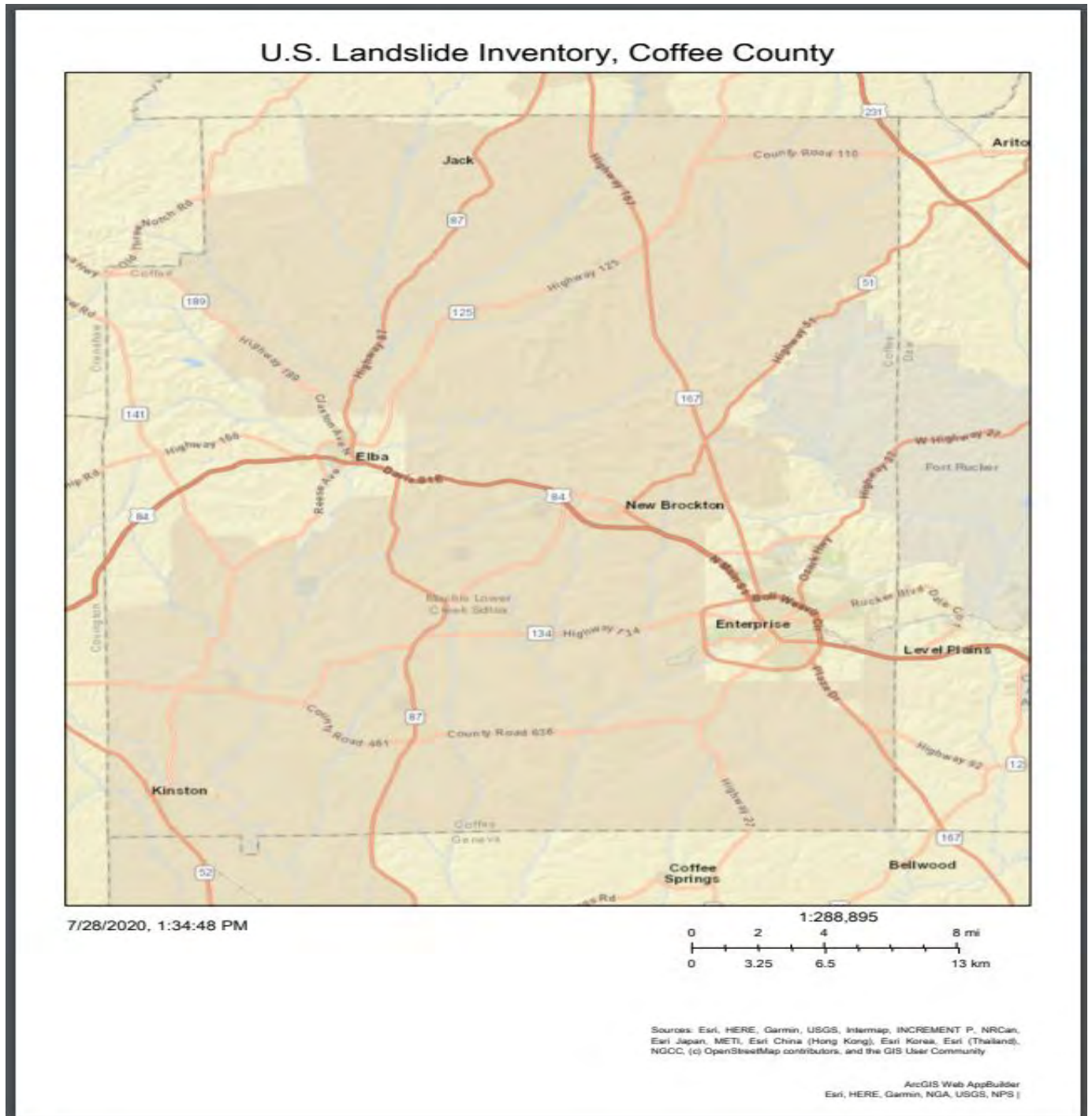
Figure 4.127: U.S. Landslide Inventory, Butler County



Source: USGS, Landslide Hazards Program, U.S. Landslide Inventory.

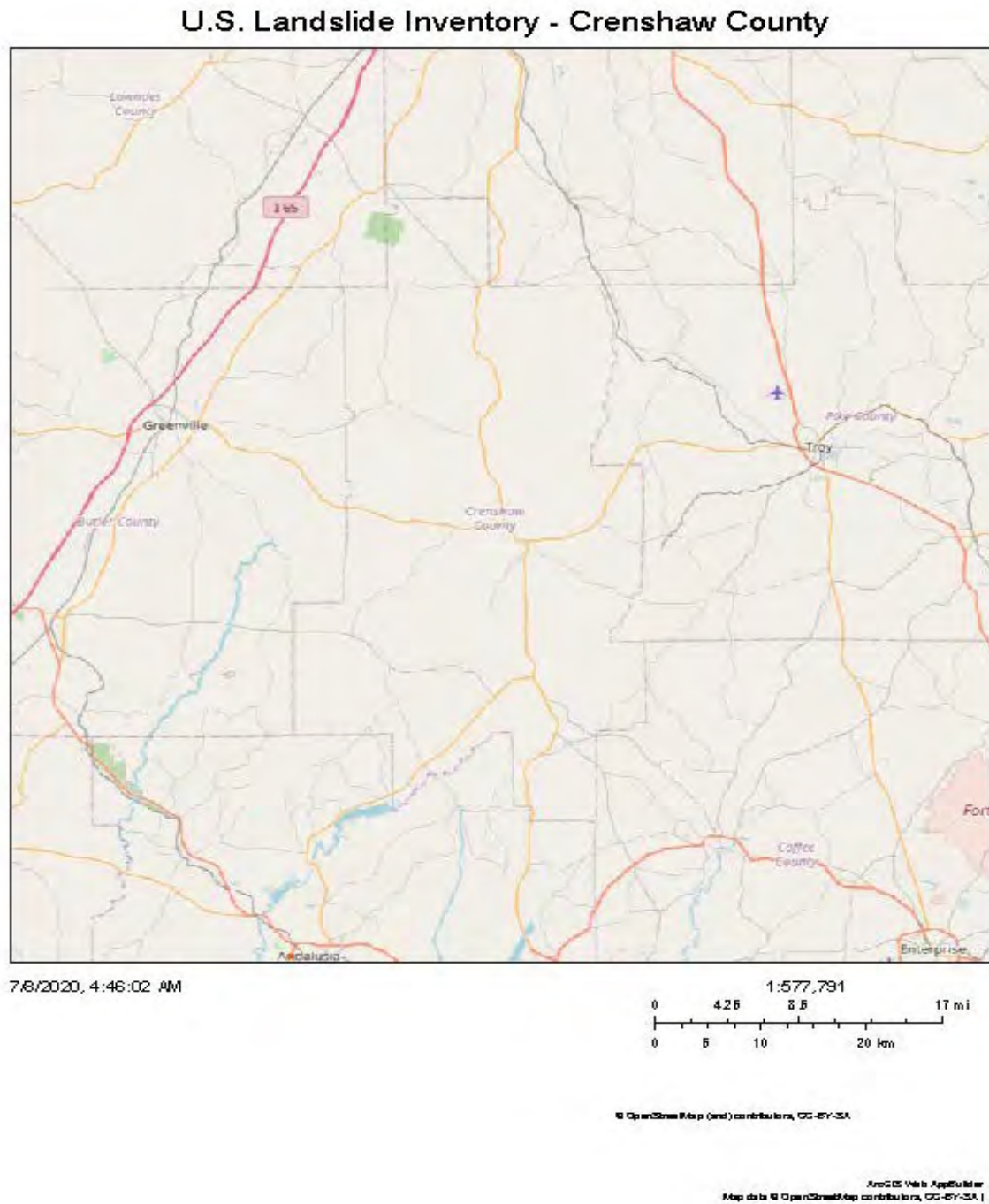
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Figure 4.128: U.S. Landslide Inventory, Coffee County



Source: USGS, Landslide Hazards Program, U.S. Landslide Inventory.  
<https://usgs.maps.arcgis.com/apps/webappviewer/index.html?id=ae120962f459434b8c904b456c82669d>

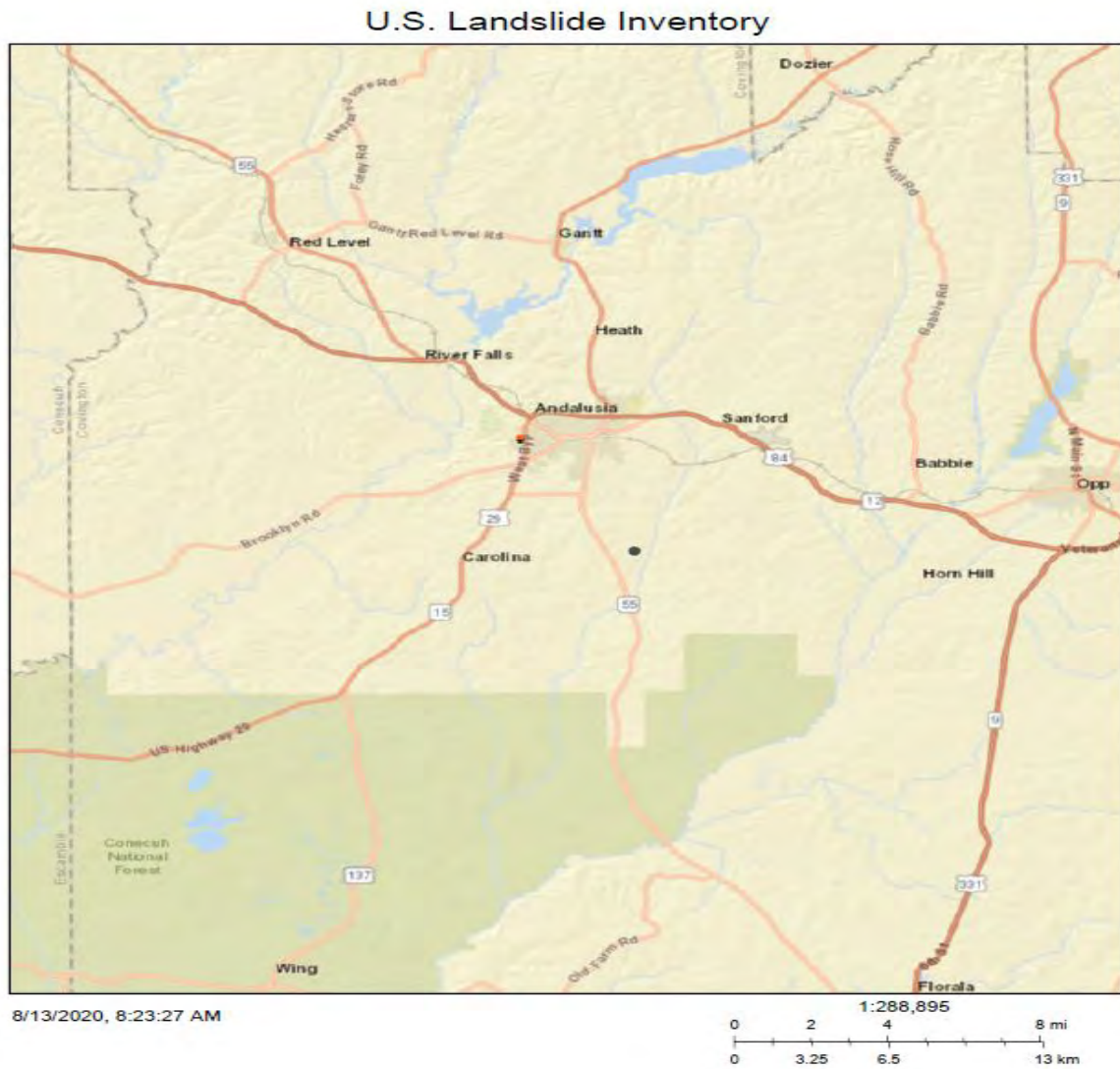
Figure 4.128: U.S. Landslide Inventory, Crenshaw County



Source: USGS, Landslide Hazards Program, U.S. Landslide Inventory.  
<https://usgs.maps.arcgis.com/apps/webappviewer/index.html?id=ae120962f459434b8c904b456c82669d>



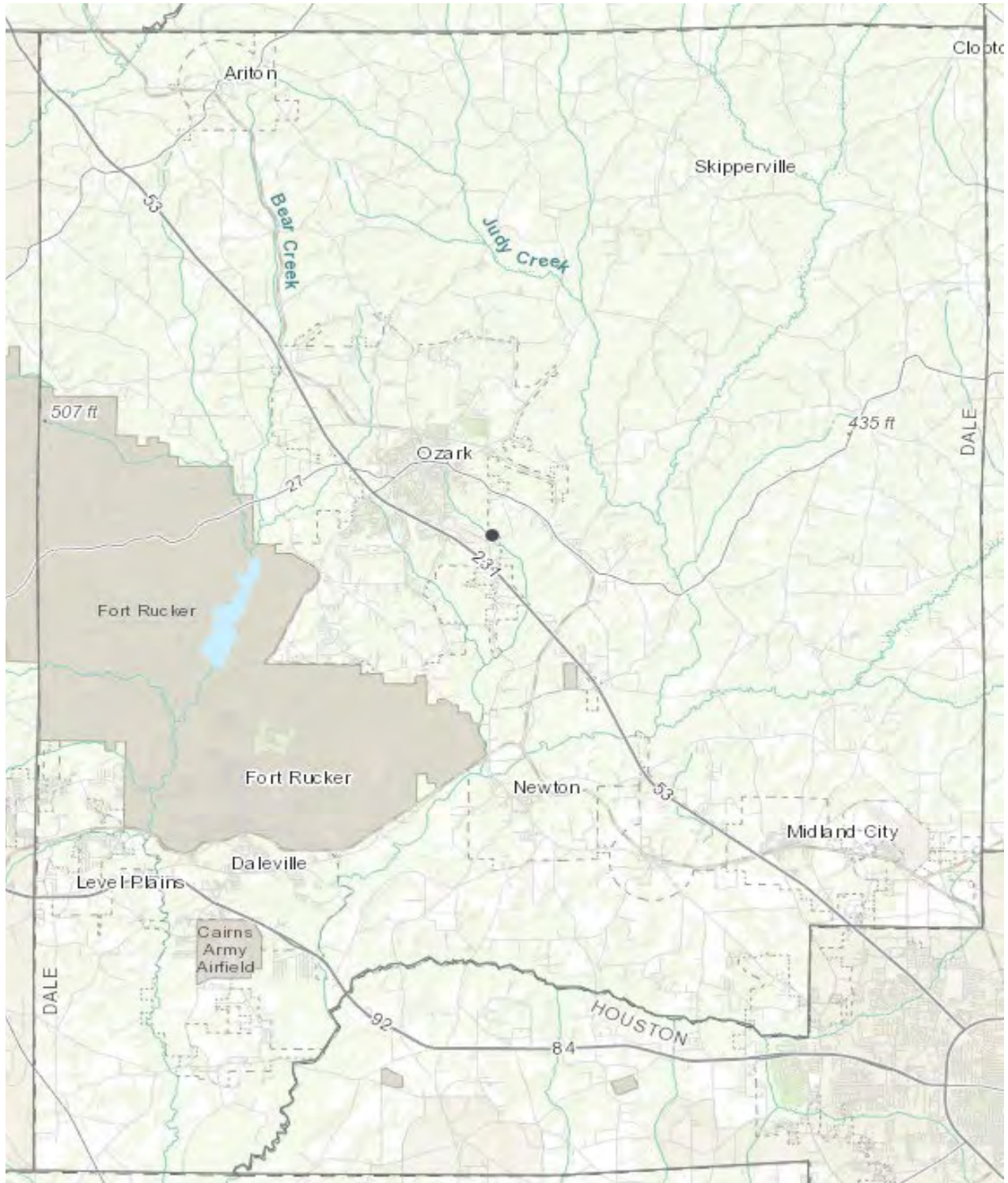
Figure 4.129: U.S. Landslide Inventory, Covington County



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Figure 4.130: U.S. Landslide Inventory, Dale County

U.S. Landslide Inventory



**Figure 4.131: U.S. Landslide Inventory, Geneva County**

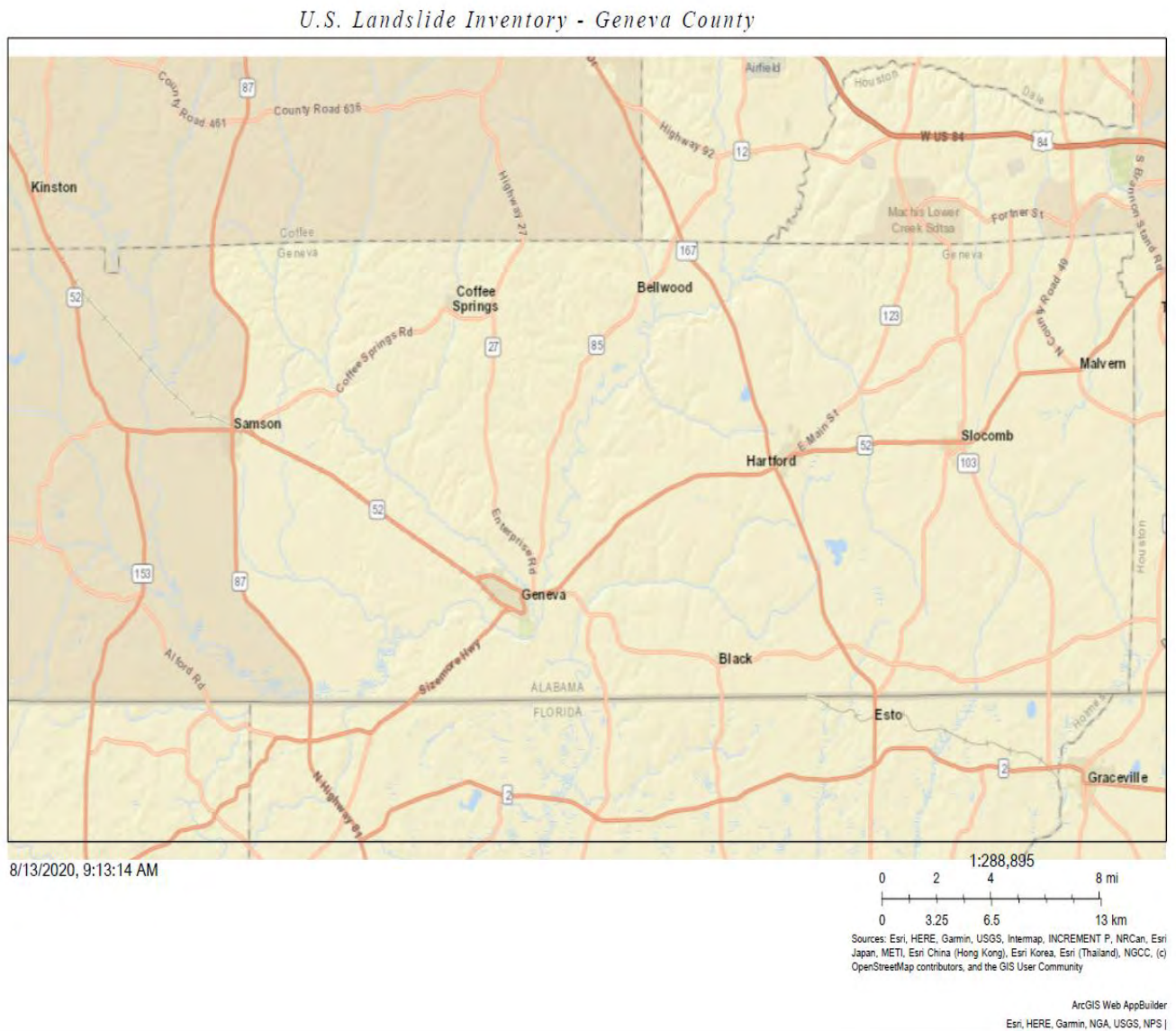
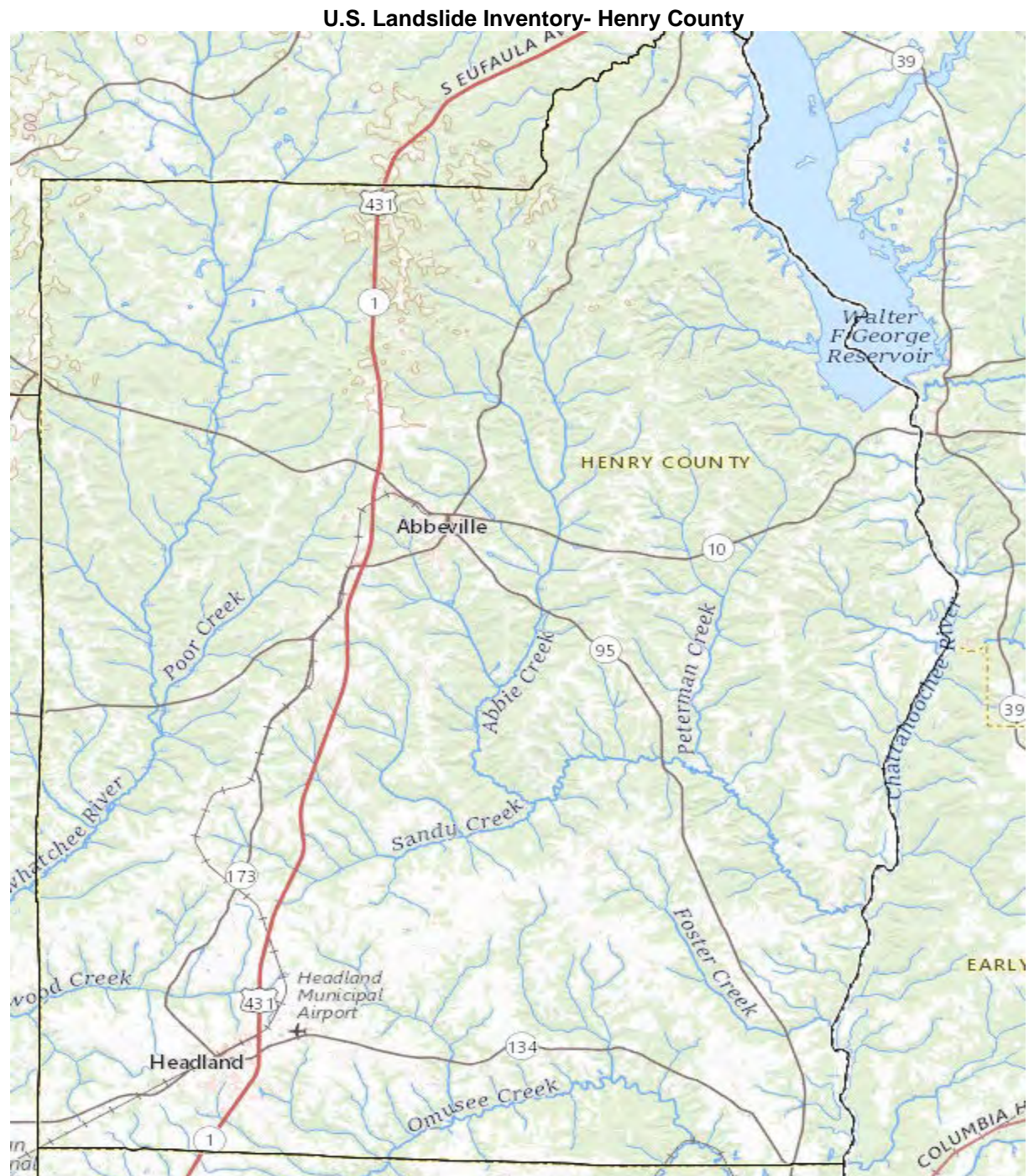


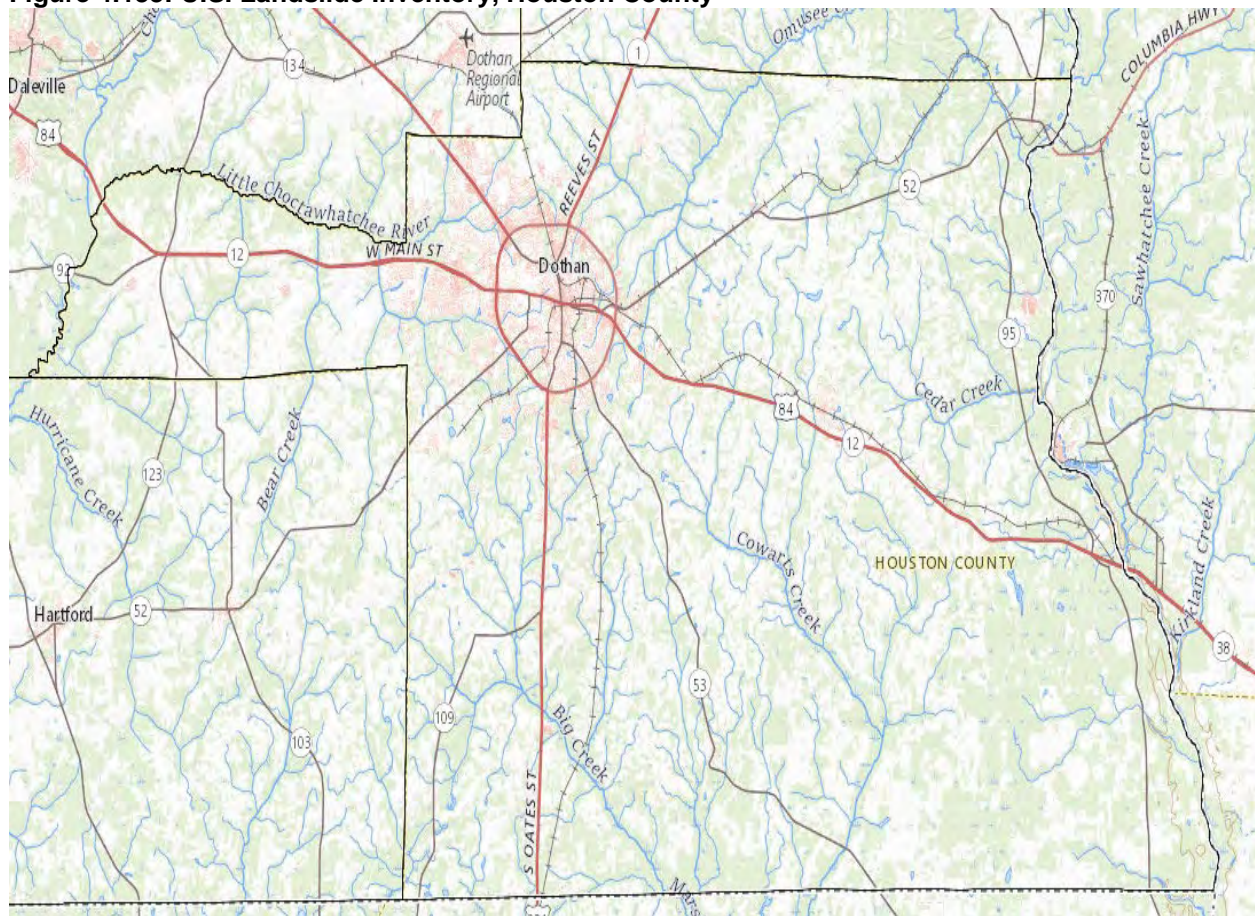


Figure 4.132: U.S. Landslide Inventory, Henry County

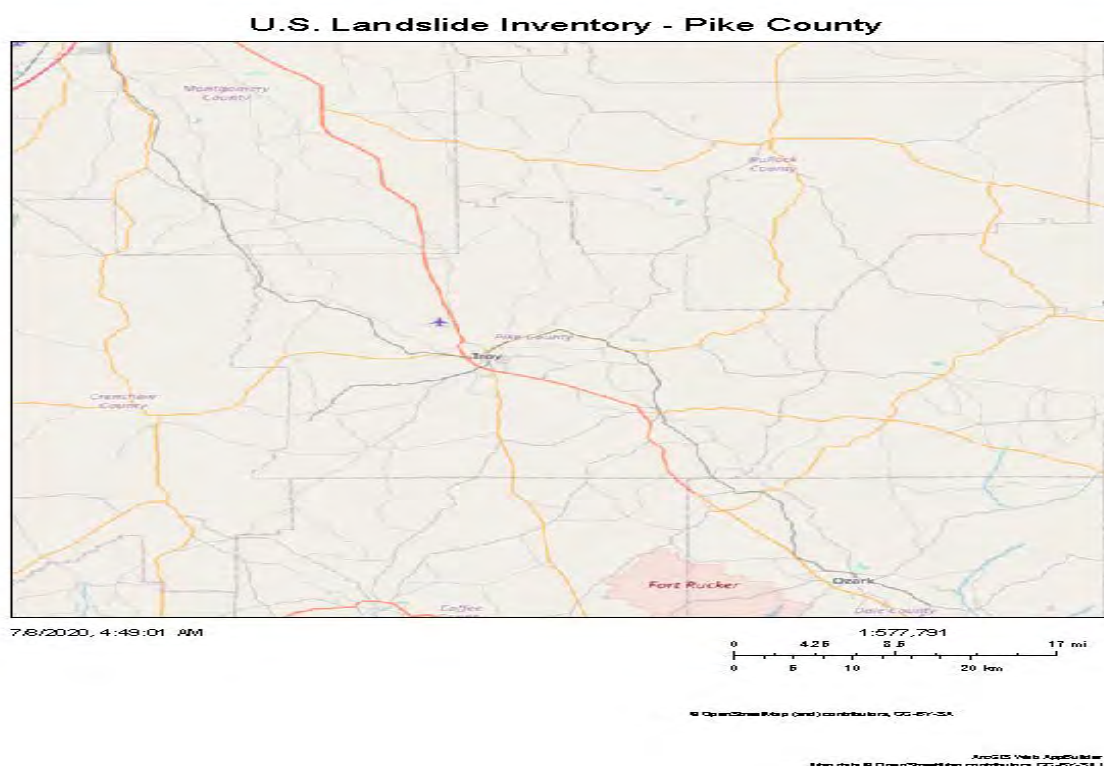




**Figure 4.133: U.S. Landslide Inventory, Houston County**



**Figure 4.134: U.S. Landslide Inventory, Pike County**



## **LAND SUBSIDENCE, SINKHOLES**

### ***Description.***

Subsidence is the motion of a surface (usually, the Earth's surface) as it shifts downward relative to a datum such as sea-level. The opposite of subsidence is uplift, which results in an increase in elevation. Subsidence frequently causes major problems in karst terrains, where dissolution of limestone by fluid flow in the subsurface causes the creation of voids (i.e. caves). If the roof of these voids becomes too weak, it can collapse and the overlying rock and earth will fall into the space, causing subsidence at the surface. This type of subsidence can result in sinkholes which can be many hundreds of meters deep. Sinkholes are caused by a loss of support, roof collapse and/or raveling in the ground's surface layers. Loss of support occurs when decreases of groundwater reduce the buoyant support of groundwater cavities. The collapse of the cavity's roof causes a subsurface breach. Raveling is the erosion of unconsolidated sediments and soils moving from one area into another underground gap. A visible sinkhole is created when the collapse of an unsupported cavity results in the magnification of the opening beyond the ability of the covering soil or rock material to bridge the opening.

### ***Locations.***

Butler, Crenshaw and Pike Counties lie in the Southern Red Hills District of the East Gulf Coastal Plain physiographic province of Alabama. As shown in Figures 19 the GSA has mapped the State of Alabama to determine areas with sinkholes, sinkhole density and topographic depressions. The GSA maps for each county are provided as Figures 4.136 through 4.145. While there are a limited number of topographic depressions in Butler, Crenshaw and Pike Counties, the sinkhole density is rated as low to moderate. There is little documentation from the USGS, the Geological Survey of Alabama, previous local plans, or the public regarding historical land subsidence incidents or impacts in any of the three counties.

### ***Extent.***

There is no magnitude scale for land subsidence or sinkholes. Therefore, defining the extent of these hazards is subjective and difficult to predict. Due to the lack of historical data pertaining to the damage of land subsidence in the planning area, the extent of land subsidence incidents is estimated to be primarily isolated damages to structures and infrastructure.

### ***Historical Occurrences.***

The GSA displays areas of topographic depressions mapped from elevations from topographic maps, much of which are presumed natural sinkholes. However, there is no date listed on the GSA map detailing time frame, so it is from an indeterminate amount of time. It is believed that each areas of land subsidence have been very localized and minor in nature. There are no damage estimates available for the recorded incidents.

### ***Probability of Future Occurrences.***

Based on historical information and susceptibility data from the USGS and the GSA, it is difficult to quantify any future incidence of land subsidence. Based on research of land subsidence in Alabama and limited documentation of previous occurrences, it is believed that future occurrences would provide very minimal impact. There have been no reports of land subsidence damage in the past several years, even though there have been multiple periods of drought and flooding on a regional scale.

**Figure 4.135: Sinkholes and Sinkhole Density across Alabama**

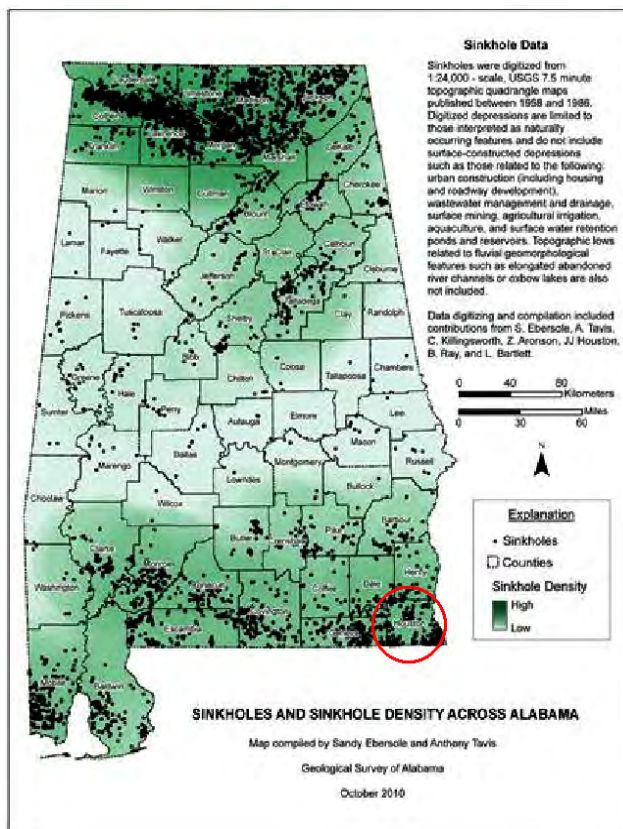




Figure 4.136: Topographic Depressions in Alabama – Barbour County

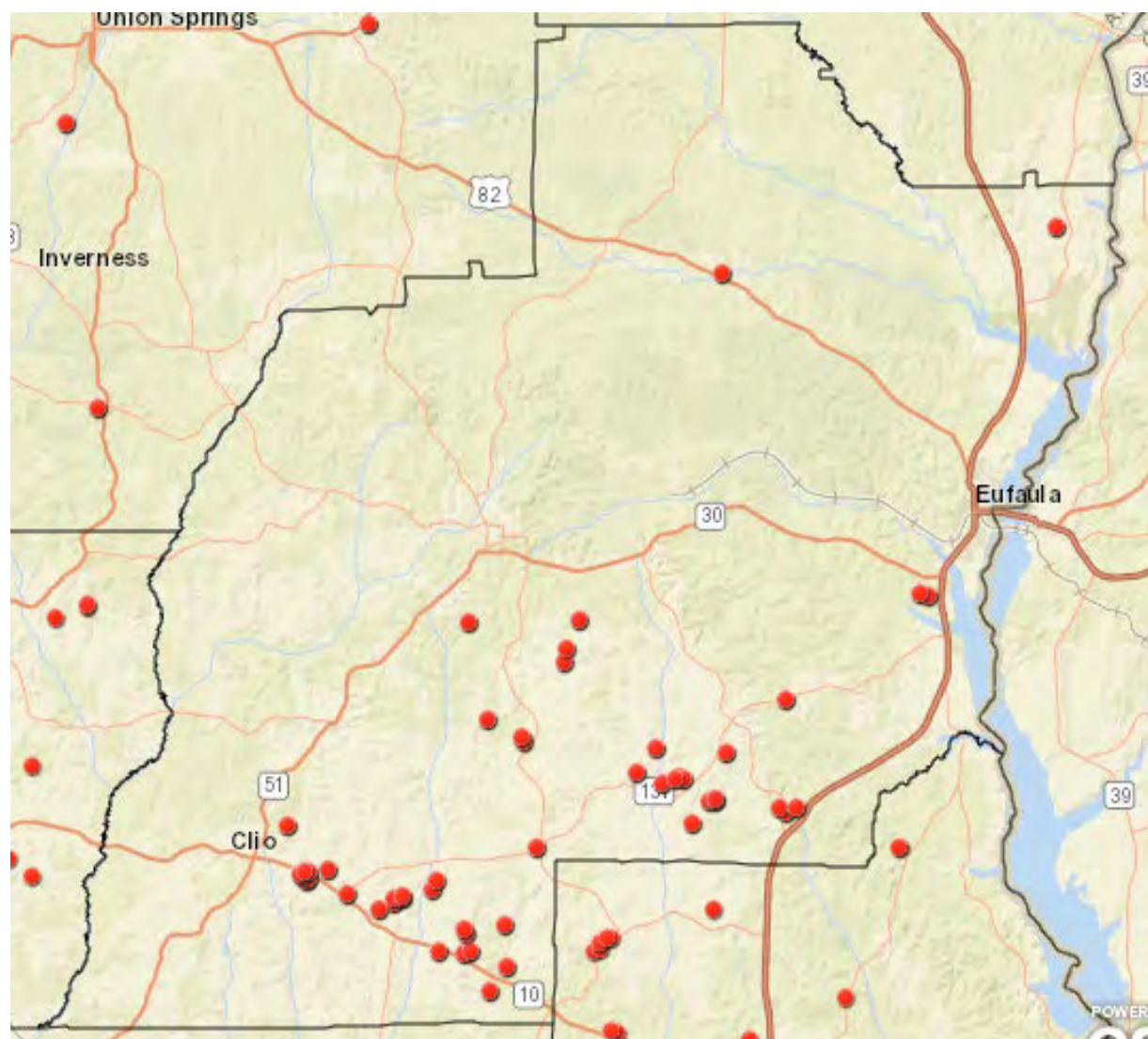
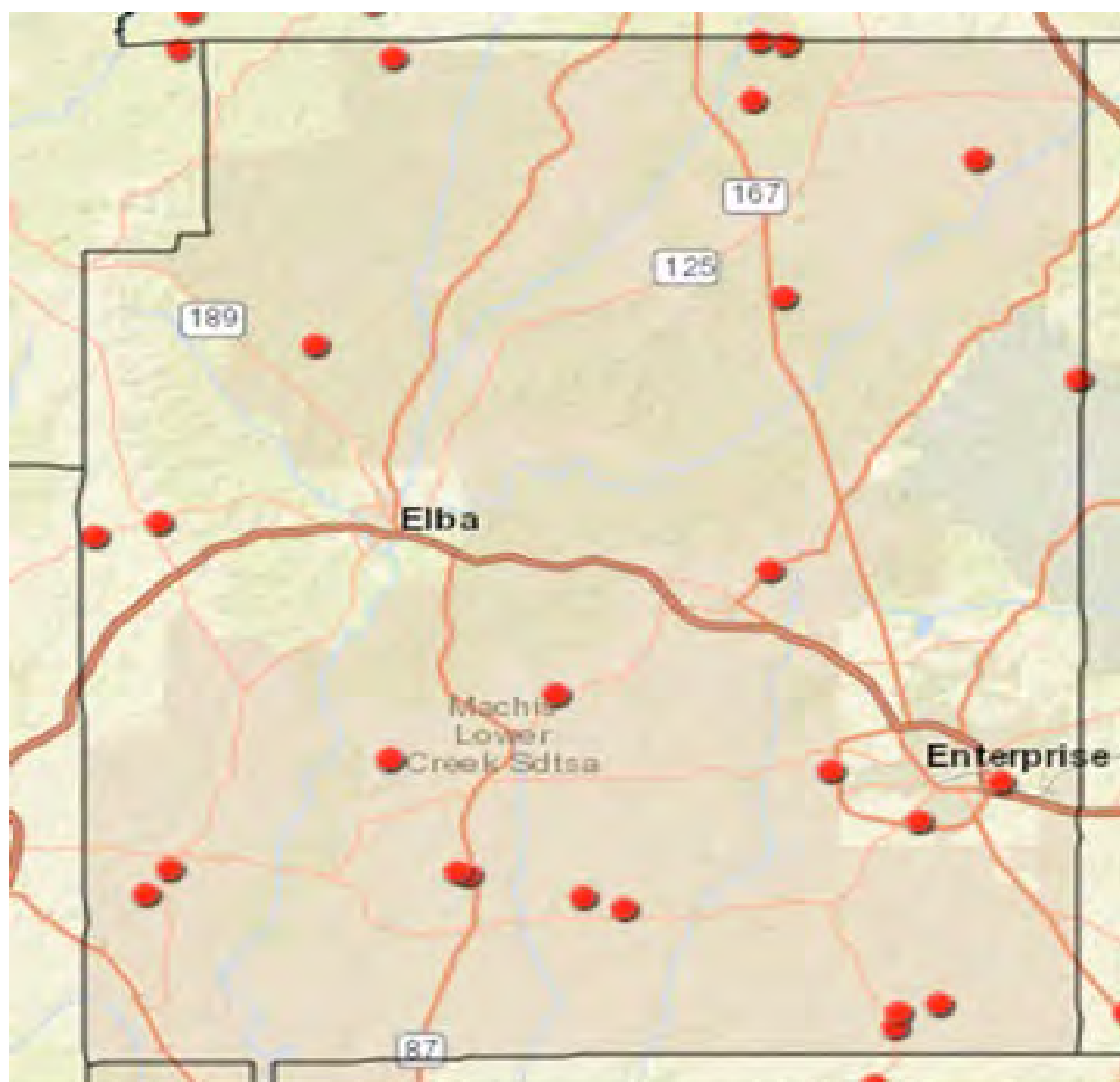




Figure 4.137: Topographic Depressions in Alabama – Coffee County

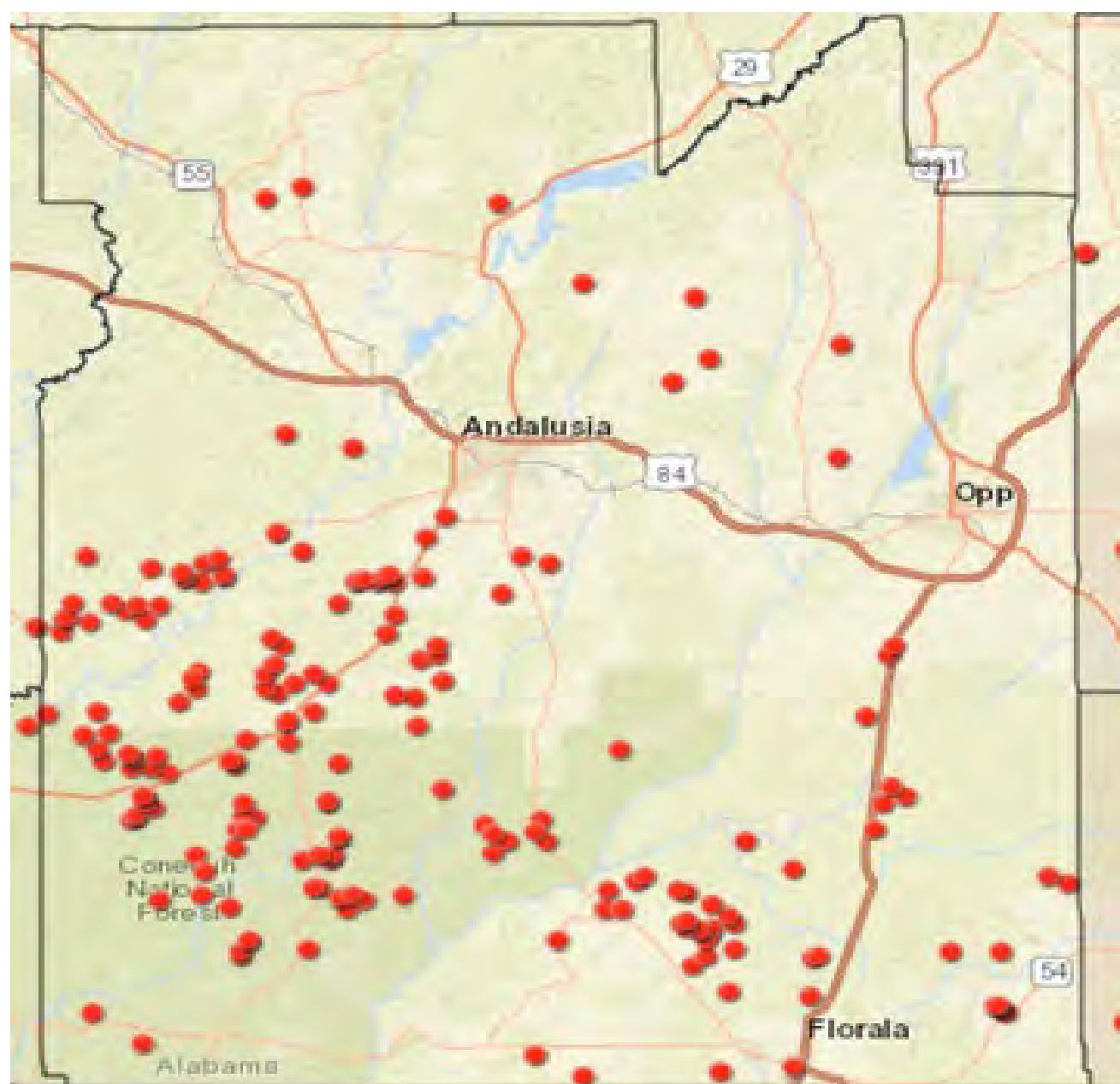


Sinkholes and other ground depressions in Alabama, digitized from 1:24,000-scale USGS topographic maps. The GIS data was generated by the Geological Survey of Alabama.

### Topographic Depressions in Alabama COFFEE COUNTY

Source: Geological Survey of Alabama

Figure 4.138: Topographic Depressions in Alabama – Covington County

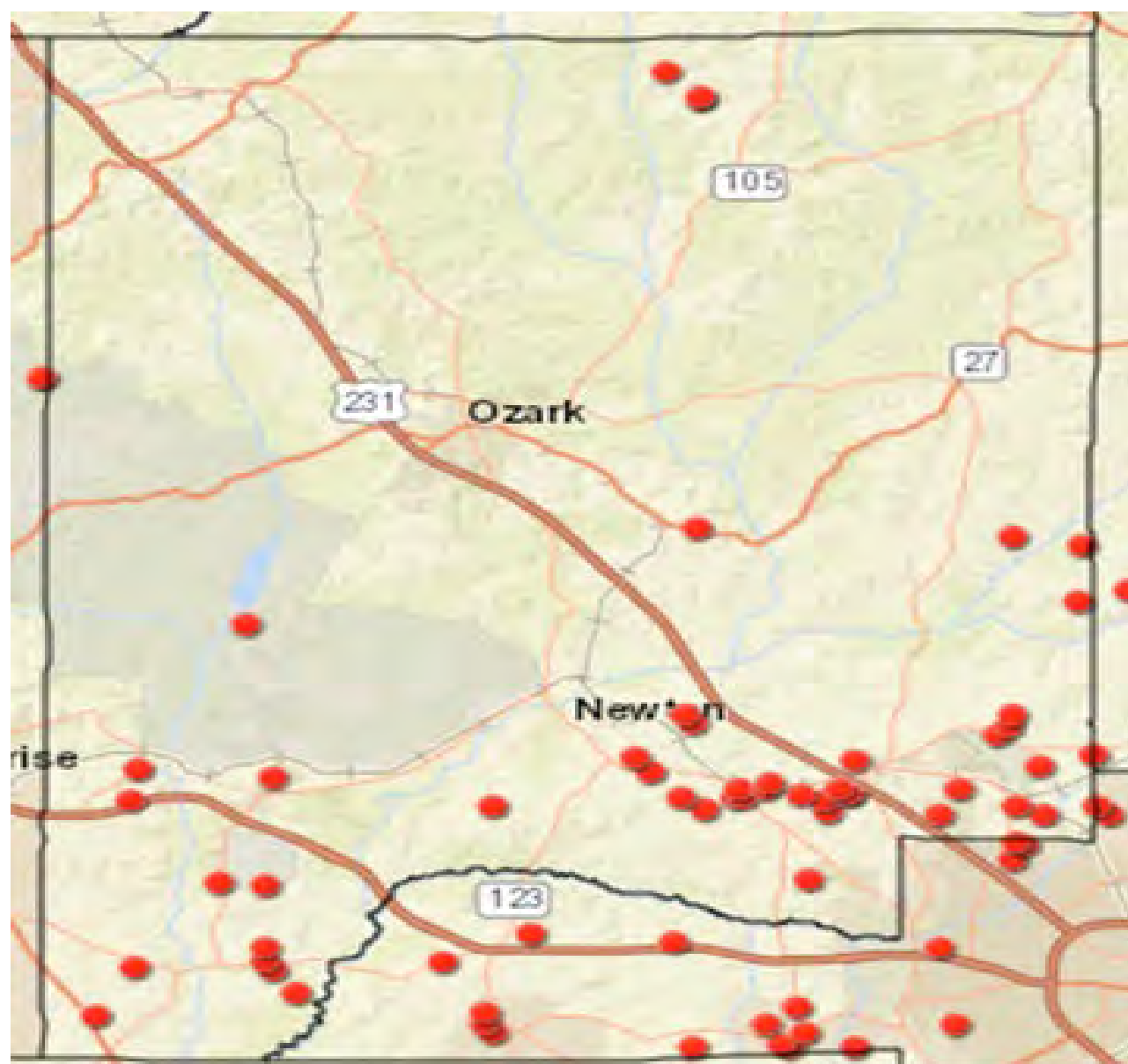


Sinkholes and other ground depressions in Alabama, digitized from 1:24,000-scale USGS topographic maps. The GIS data was generated by the Geological Survey of Alabama.

### Topographic Depressions in Alabama **COVINGTON COUNTY**

Source: Geological Survey of Alabama

Figure 4.139: Topographic Depressions in Alabama – Dale County



Sinkholes and other ground depressions in Alabama, digitized from 1:24,000-scale USGS topographic maps. The GIS data was generated by the Geological Survey of Alabama.

### Topographic Depressions in Alabama DALE COUNTY

Source: Geological Survey of Alabama

**Figure 4.140: Topographic Depressions in Alabama – Geneva County**

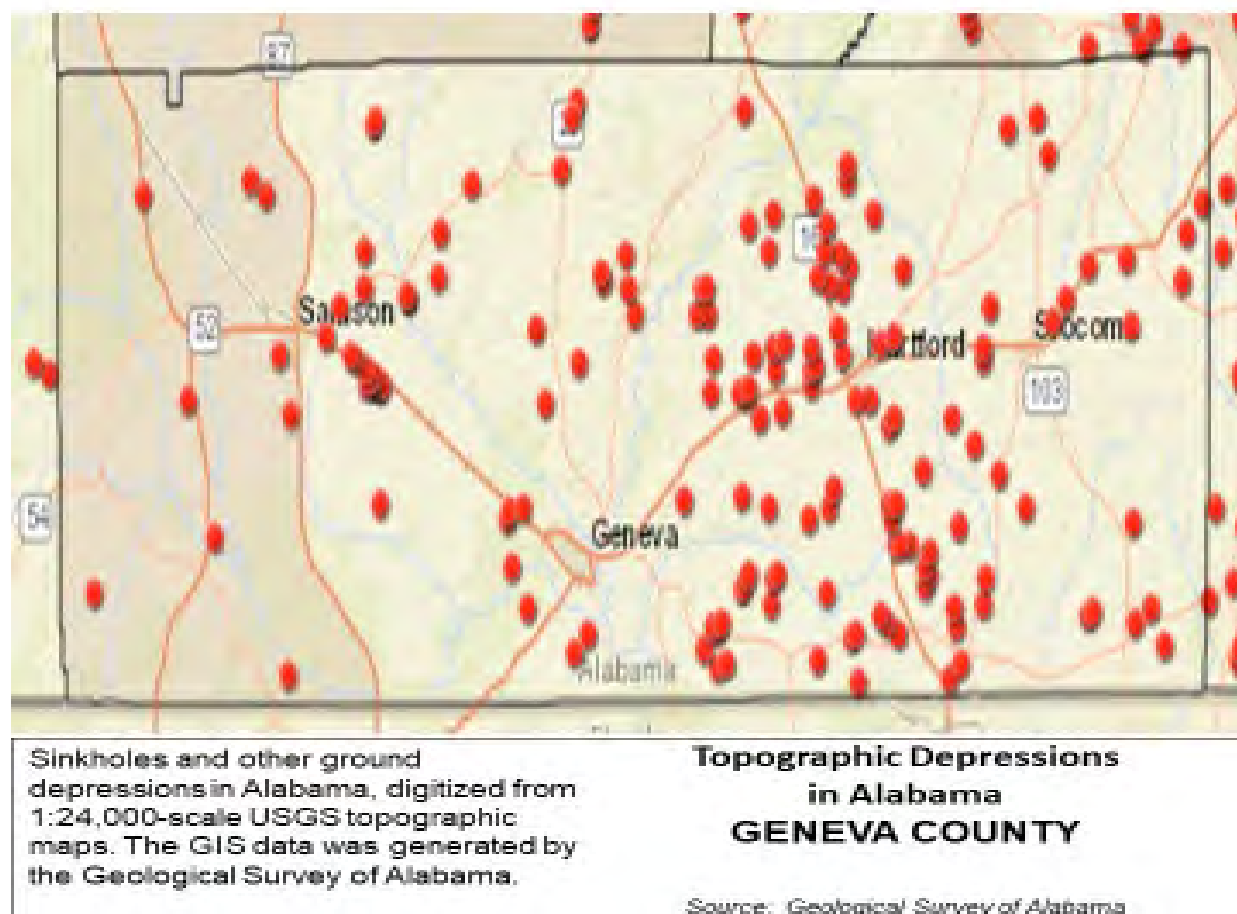
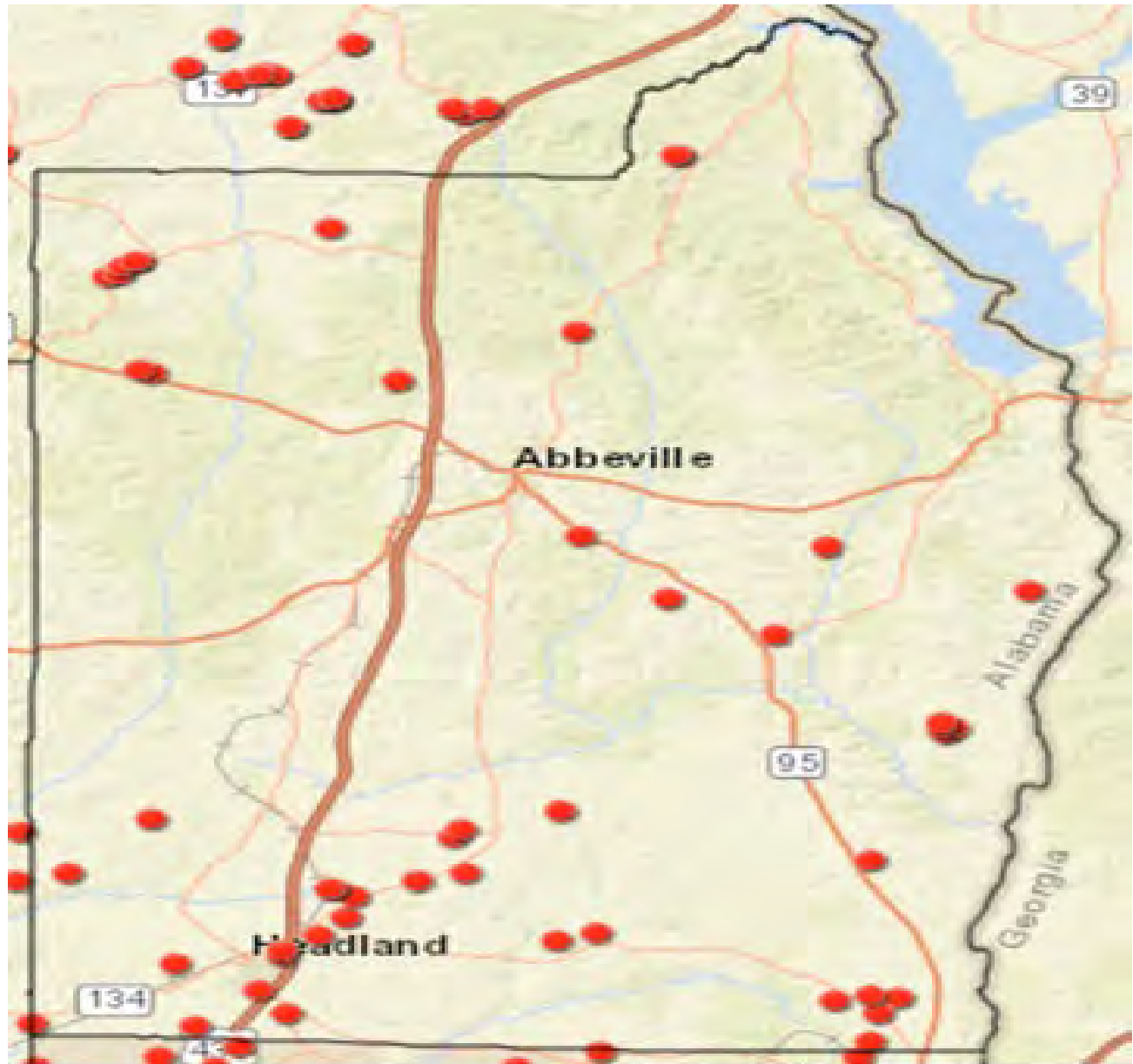




Figure 4.141: Topographic Depressions in Alabama – Henry County

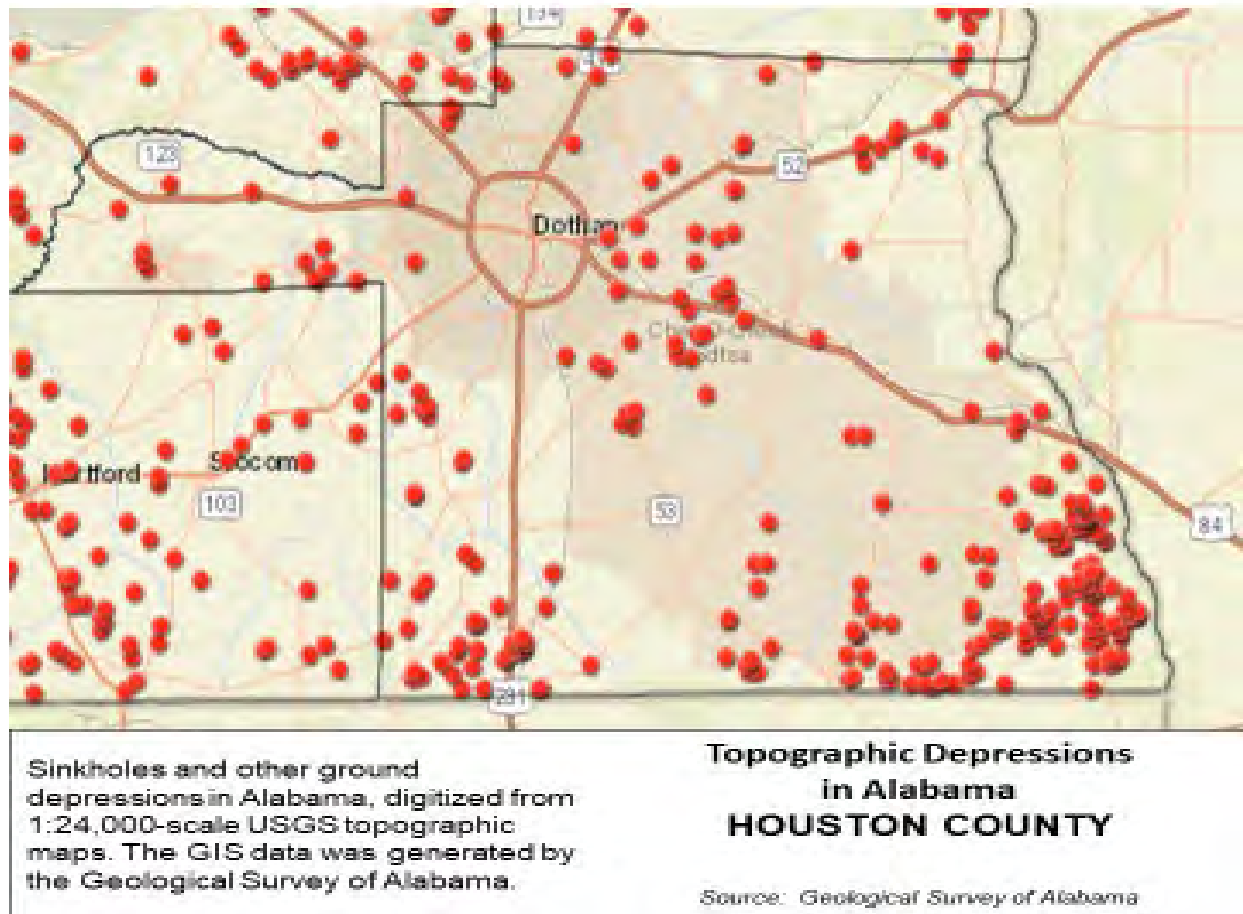


Sinkholes and other ground depressions in Alabama, digitized from 1:24,000-scale USGS topographic maps. The GIS data was generated by the Geological Survey of Alabama.

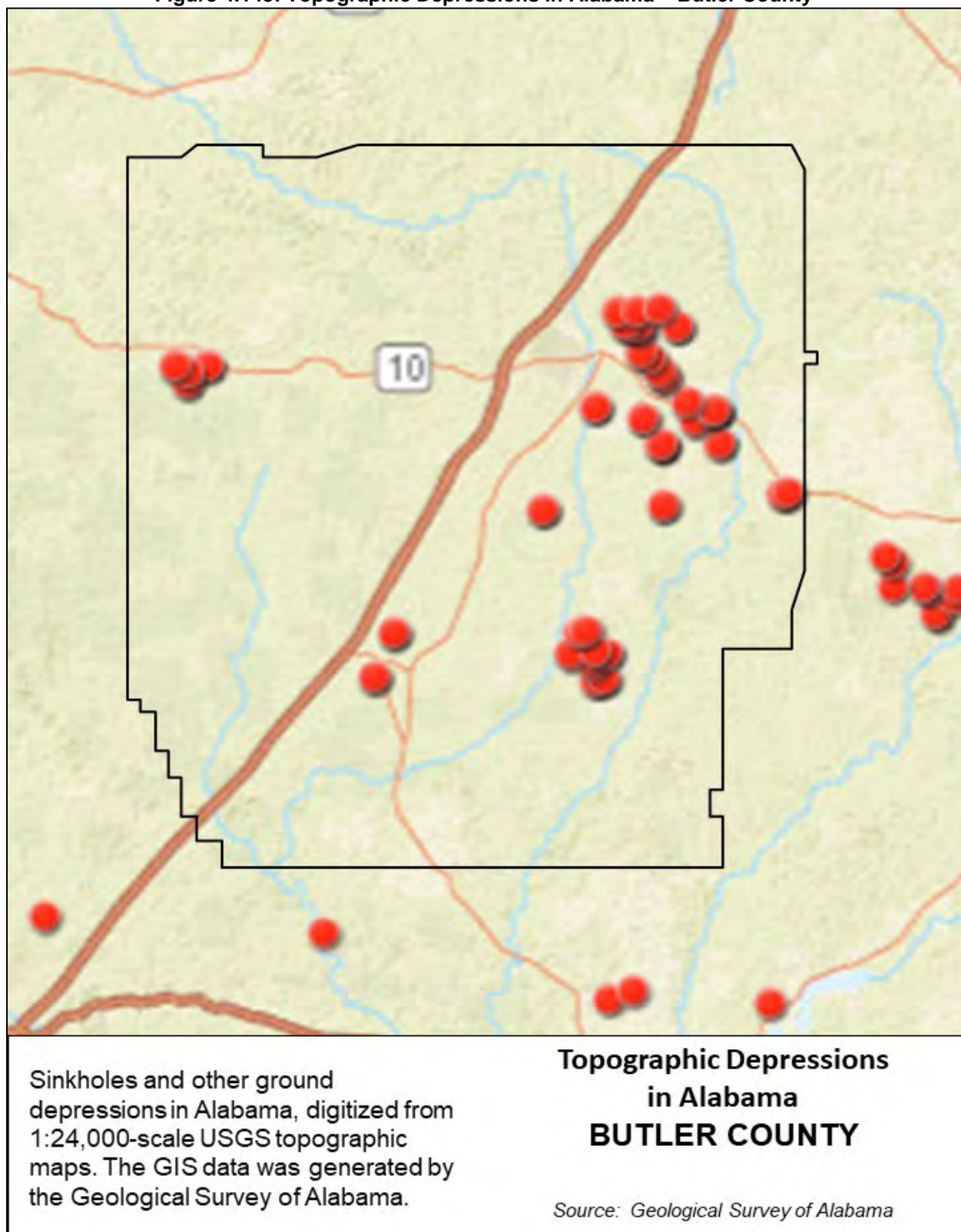
### Topographic Depressions in Alabama **HENRY COUNTY**

*Source: Geological Survey of Alabama*

Figure 4.142: Topographic Depressions in Alabama – Houston County

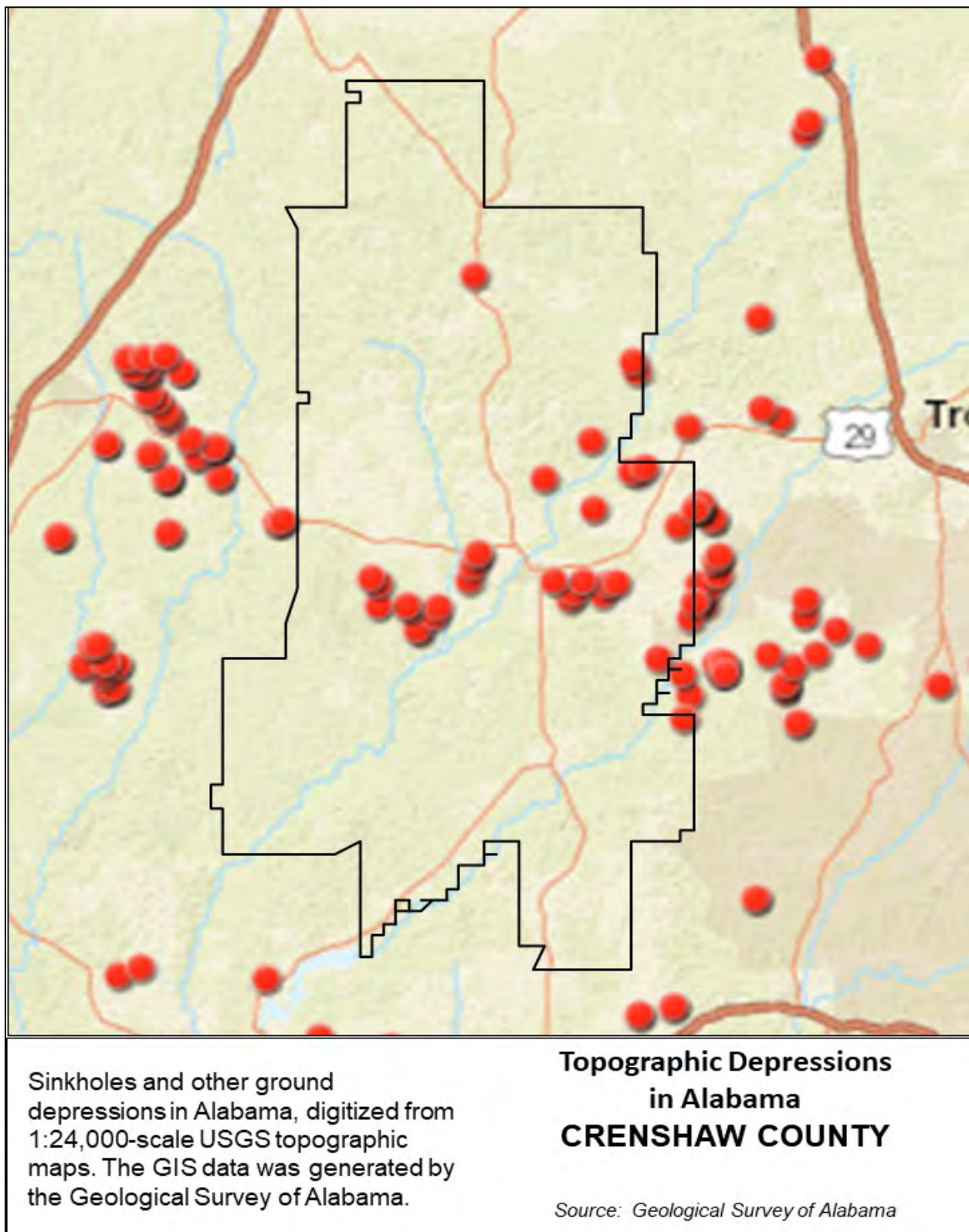


**Figure 4.143: Topographic Depressions in Alabama – Butler County**



*Source: Geological Survey of Alabama. <https://gsa.state.al.us/gsa/geologic/hazards/sinkholes>*

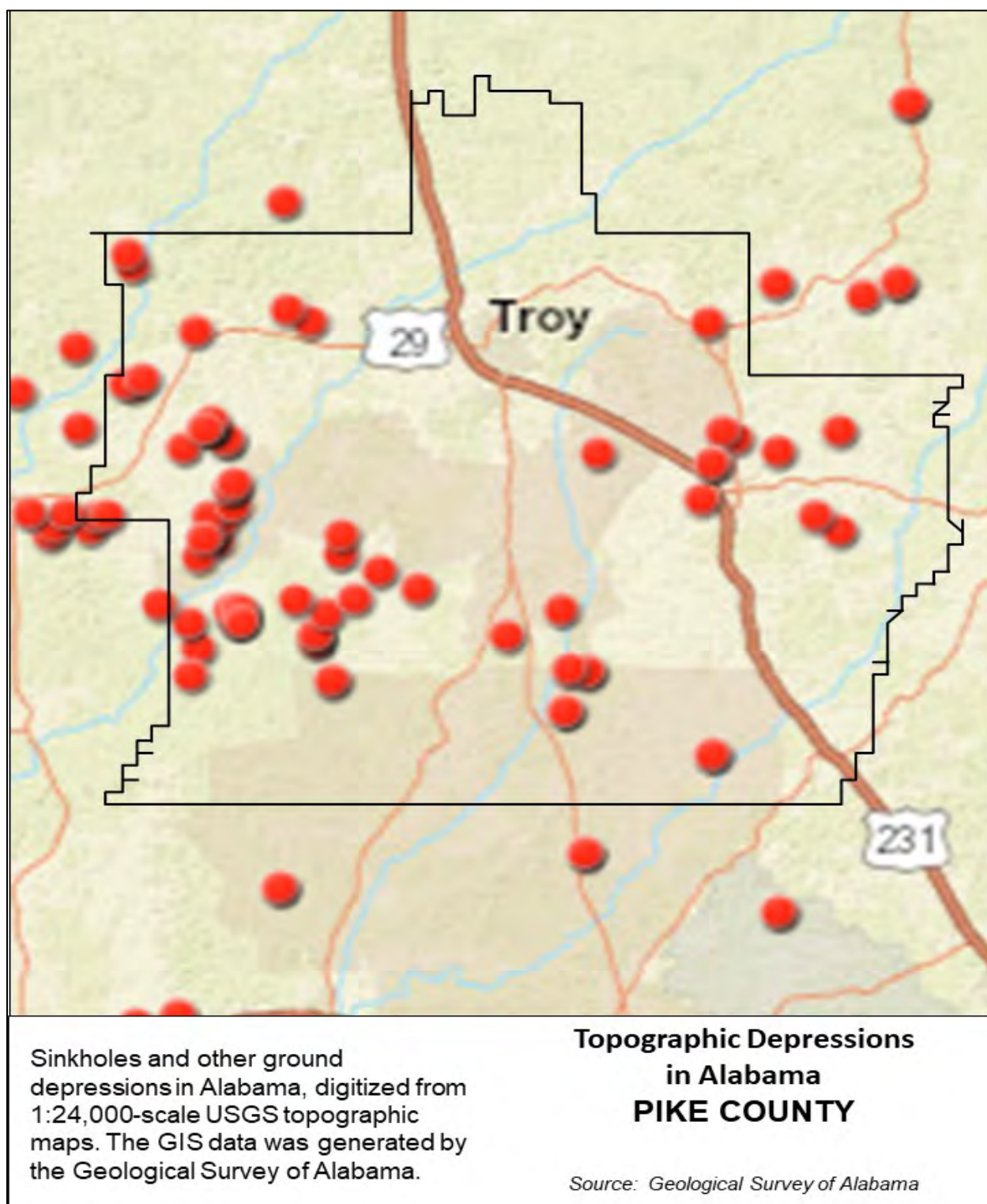
Figure 4.144 Topographic Depressions in Alabama – Crenshaw County



Source: Geological Survey of Alabama. <https://gsa.state.al.us/gsa/geologic/hazards/sinkholes>



Figure 4.145: Topographic Depressions in Alabama – Pike County



Source: Geological Survey of Alabama. <https://gsa.state.al.us/gsa/geologic/hazards/sinkholes>

## WILDFIRE

### *Description.*

The Federal Emergency Management Agency defines a wildfire as an uncontrolled fire spreading through vegetative fuels, exposing and possibly consuming structures. Wildfires often begin unnoticed and spread quickly and are usually signaled by dense smoke that fills the area for miles around. Naturally occurring and non-native species of grasses, brush, and trees fuel wildfires. Wildfires have a potential to be a hazard in Barbour, Butler, Coffee, Covington, Crenshaw, Dale, Geneva, Henry, Houston and Pike Counties due, in large part, to the presence of an abundance of forested land and the presence of interstates and other major roadways.

### *Locations.*

Wildfire location data was compiled from the Alabama Forestry Commission. The Alabama Forestry Commission data covers the time period from 2007 to 2020 in data tables and 2016 through 2020 in locational maps and tables.

In Barbour County, there have been 100 wildfire events with over 1,190.87 acres burned between 2016 and 2020 in all locations throughout the county. The fires were primarily small in size with only three fires being over one hundred acres burned. No one portion of the county was more susceptible to fire than the other, however most fires occurred in the rural areas of Barbour County.

**Table 4.92: Wildfire Summary in Barbour County, 2016 to 2020**

Wildfire Cause	Number of Events	Acres Burned
Equipment Use	22	21.93
Burning Debris	42	179.2
Arson	5	23.79
Miscellaneous	10	14.13
<b>Total Butler County</b>	<b>79</b>	<b>239.05</b>

In Butler County, there have been 79 wildfire events with just over 239 acres burned between 2016 and 2020 in all locations throughout the county. The northwest part of the county, west of Interstate 85 and north of Alabama Highway 10, has had the least number of wildfires. During the four-year period, there were four causes of wildfire, with burning debris being the biggest contributor with the highest number of events, at 42 wildfires, and burning the greatest amount of land, at 179.2 acres. The only wildfire origin that appears to have a locational value is equipment use where most of these types of wildfires occur along Interstate 85.

**Table 4.93: Wildfire Summary in Butler County, 2016 to 2020**

Wildfire Cause	Number of Events	Acres Burned
Equipment Use	22	21.93
Burning Debris	42	179.2
Arson	5	23.79
Miscellaneous	10	14.13
<b>Total Butler County</b>	<b>79</b>	<b>239.05</b>

In Coffee County, there have been 64 wildfire events with over 408.49 acres burned between 2016 and 2020 in all locations throughout the county. The fires were primarily small in size with no fires being over one hundred acres burned. The largest fire was 66.80 acres that occurred on October 8, 2016. No one portion of the county was more susceptible to fire than the other, however most fires occurred in the rural areas of Coffee County.

In Covington County, there have been 133 wildfire events with over 2,563.53 acres burned between 2016 and 2020 in all locations throughout the county. The fires were primarily small in size with the exception of a fire on September 27, 2019 that burned 589 acres. The largest fire was 66.80 acres that occurred on October 8, 2016. Covington County is home to the Conecuh National Forest and also numerous private forests throughout the county that represent a wildfire risk.

In Crenshaw County, there have been 42 wildfire events with almost 108 acres burned between 2016 and 2020 in all locations throughout the county. The northern part of the county appears to have a greater number of wildfires than the southern part. During the four-year period, there were five causes of wildfire, with burning debris being the biggest contributor with the highest number of events, at 20 wildfires, and burning the greatest amount of land, at 55.0 acres.

**Table 4.94: Wildfire Summary in Crenshaw County, 2016 to 2020**

<b>Wildfire Cause</b>	<b>Number of Events</b>	<b>Acres Burned</b>
Lightning	1	0.1
Equipment Use	6	5.45
Burning Debris	20	55.0
Arson	11	34.1
Miscellaneous	4	13.1
<b>Total Crenshaw County</b>	<b>42</b>	<b>107.75</b>

In Dale County, there have been 61 wildfire events with over 224.11 acres burned between 2016 and 2020 in all locations throughout the county. The fires were primarily small in size with no fires being over one hundred acres burned. The largest fire was 28 acres that occurred on October 10, 2019. No one portion of the county was more susceptible to fire than the other, however most fires occurred in the rural areas of Dale County.

In Geneva County, there have been 68 wildfire events with over 462.39 acres burned between 2016 and 2020 in all locations throughout the county. The fires were primarily small in size with no fires being over one hundred acres burned. The largest fire was 52 acres that occurred on May 9, 2017. No one portion of the county was more susceptible to fire than the other, however most fires occurred in the rural areas of Geneva County.

In Henry County, there have been 107 wildfire events with over 461.60 acres burned between 2016 and 2020 in all locations throughout the county. The fires were primarily small in size with only one fire being over one hundred acres burned. The largest fire was 151.50 acres that occurred on April 22, 2016. No one portion of the county was more susceptible to fire than the other, however most fires occurred in the rural areas of Henry County.

In Houston County, there have been 89 wildfire events with over 449.90 acres burned between 2016 and 2020 in all locations throughout the county. The fires were primarily small in size with only one fire being over one hundred acres burned. The largest fire was 105 acres that occurred on

July 7, 2017. No one portion of the county was more susceptible to fire than the other, however most fires occurred in the rural areas of Houston County.

In Pike County, there have been 38 wildfire events with 348.45 acres burned between 2016 and 2020 in all locations throughout the county. The western part of the county appears to have a greater number of wildfires than the eastern half. During the four-year period, there were five causes of wildfire, with arson being the biggest contributor with the highest number of events, at 14 wildfires, and burning the greatest amount of land, at 246.65 acres. There does not appear to be any locational pattern to wildfire occurrences in Pike County.

**Table 4.95: Wildfire Summary in Pike County, 2016 to 2020**

Wildfire Cause	Number of Events	Acres Burned
Lightning	1	12
Equipment Use	5	30.2
Burning Debris	13	50.1
Arson	14	246.65
Miscellaneous	5	9.5
<b>Total</b>	<b>38</b>	<b>348.45</b>

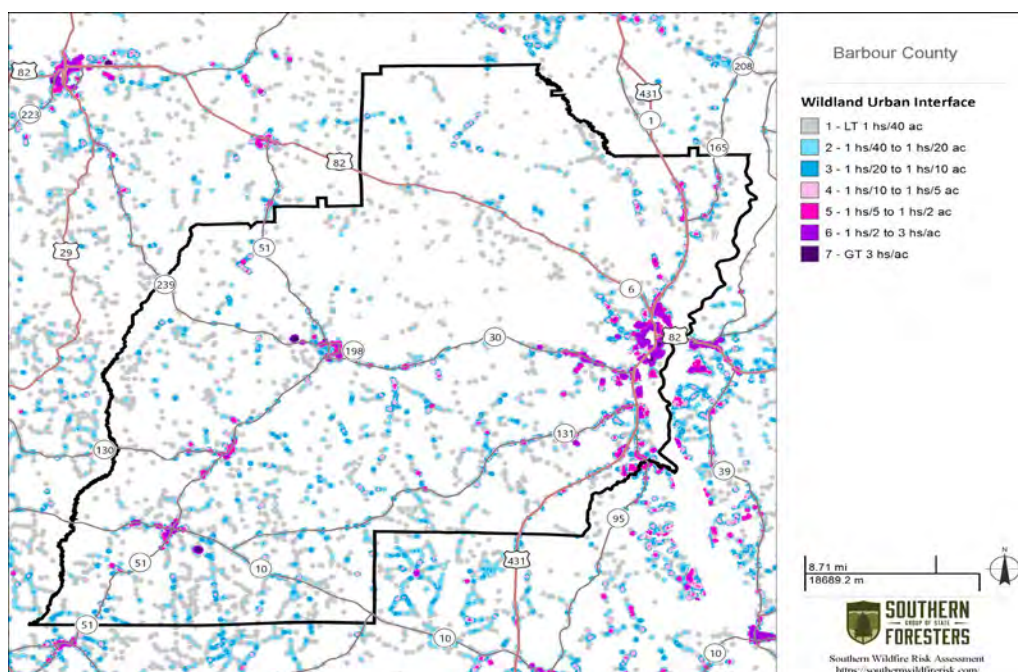
A review of maps available from the Southern Group of State Foresters Wildfire Risk Assessment Portal (SWRAP) provides data on potential locations based on a number of parameters including housing location, surface fuels and burn probability, and probable fire characteristics. One of the most revealing logistics is a map of wildland urban interface (WUI), which is the area where structures and other human improvements meet and intermingle with undeveloped wildland or vegetative fuels. Population growth within the WUI substantially increases the risk from wildfire.

The WUI data combined with the WUI Risk Assessment provides a strong indicator of locational potential for wildfire in Butler County. The Wildland Urban Interface Risk Assessment provides a rating of the potential impact of a wildfire on people and their homes. The key input, WUI, reflects housing density (houses per acre) consistent with Federal Register National standards. The location of people living in the Wildland Urban Interface and rural areas is key information for defining potential wildfire impacts to people and homes.

According to the Barbour County Fire Risk Assessment report, the project area is estimated to have a population of 26,588 people, of which 100 percent live within the WUI. See Figure 20. The WUI Risk Assessment indicates the 36.6 percent of the land in Barbour County is located in Class -4 areas and above and 63.4 percent of the land area is located in Class -3 or lower, all of which have below moderate (Class -5) impacts. There is no land area rated as -9; and only 6.8 percent is rated just above moderate, at Class -6 and Class -7. See Figure 4.147.



**Figure 4.146: Barbour County Wildland Urban Interface**

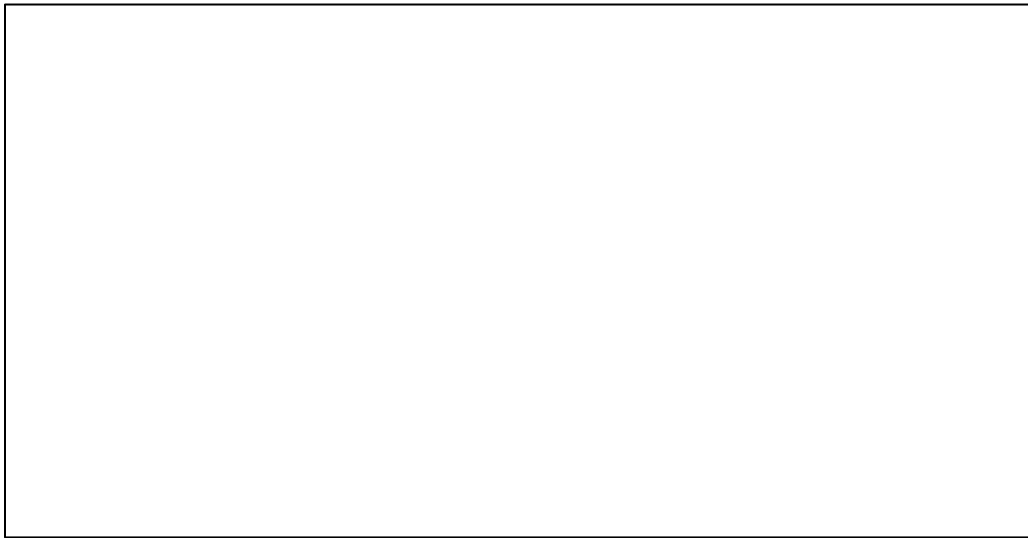


**Figure 4.147: Barbour County Wildland Urban Interface Risk Assessment**

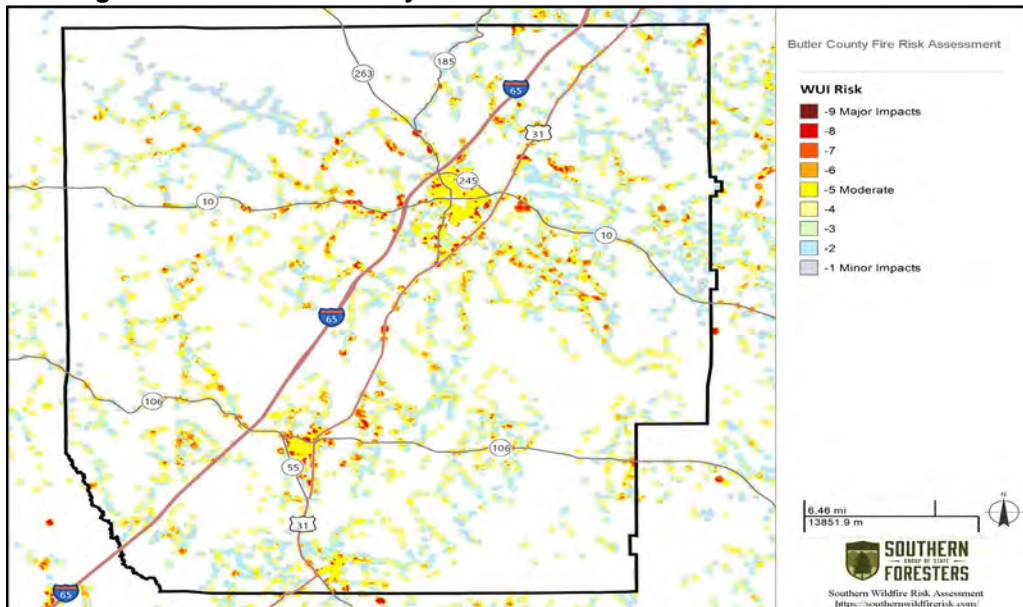
Source: Southern Group of State Foresters Wildfire Risk Assessment, Butler County Fire Risk Assessment Report, 2020. (<https://www.southernwildfirerisk.com/>)

According to the Butler County Fire Risk Assessment report, the project area is estimated to have a population of 20,948 people, of which 97.3 percent, or 20,386 persons, live within the WUI. See Figure 22.1. The Pike County Fire Risk Assessment estimates the population of Pike County to be 32,826 persons, of which 99.7 percent, or 32,729 persons, live within the WUI, as demonstrated in Figure 22.3. The Butler County WUI Risk Assessment indicates the 32.0 percent of the land in Butler County is located in Class -4 areas and 49.3 percent of the land area is located in Class -3 or lower, all of which have below moderate (Class -5) impacts. There is no land area rated as -9; and only 6.8 percent is rated just above moderate, at Class -6 and Class -7. See Figure 4.149

**Figure 4.148: Butler County Wildland Urban Interface**



**Figure 4.149: Butler County Wildland Urban Interface Risk Assessment**

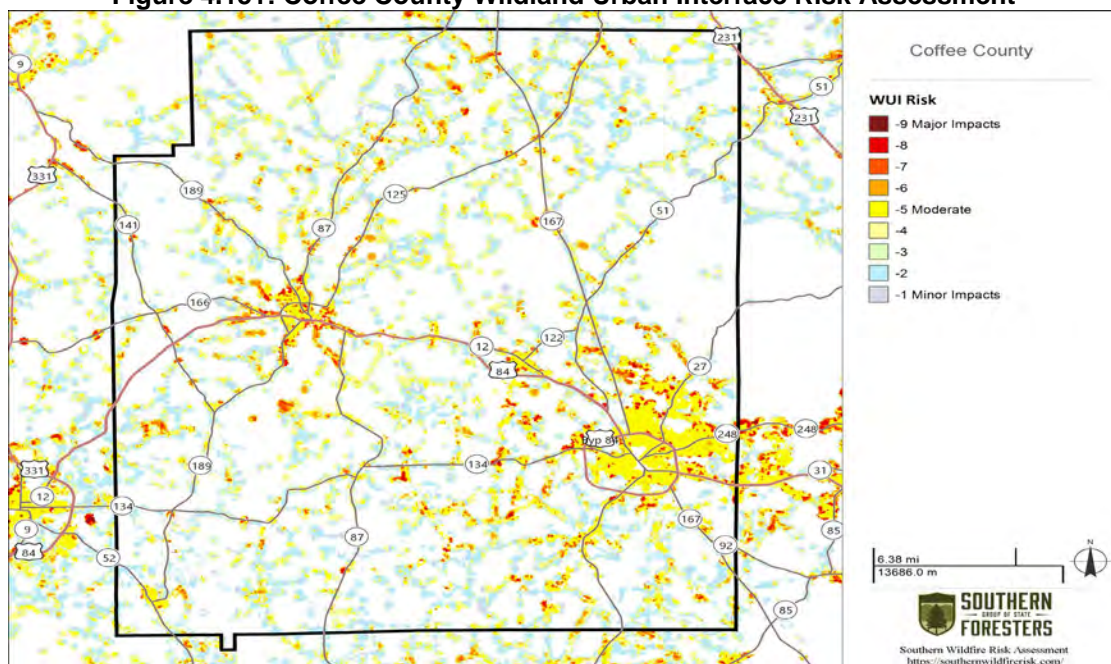


Source: Southern Group of State Foresters Wildfire Risk Assessment, Butler County Fire Risk Assessment Report, 2020. (<https://www.southernwildfirerisk.com/>)

According to the Coffee County Fire Risk Assessment report, the project area is estimated to have a population of 50,071 people, of which 98.7 percent live within the WUI. See Figure 4.150. The WUI Risk Assessment indicates the 36.6 percent of the land in Coffee County is located in Class -4 areas and above and 63.4 percent of the land area is located in Class -3 or lower, all of which have below moderate (Class -5 impacts. There is no land area rated as -9; and only 6.8 percent is rated just above moderate, at Class -6 and Class -7. See Figure 4.151.

**Figure 4.150: Coffee County Wildland Urban Interface**

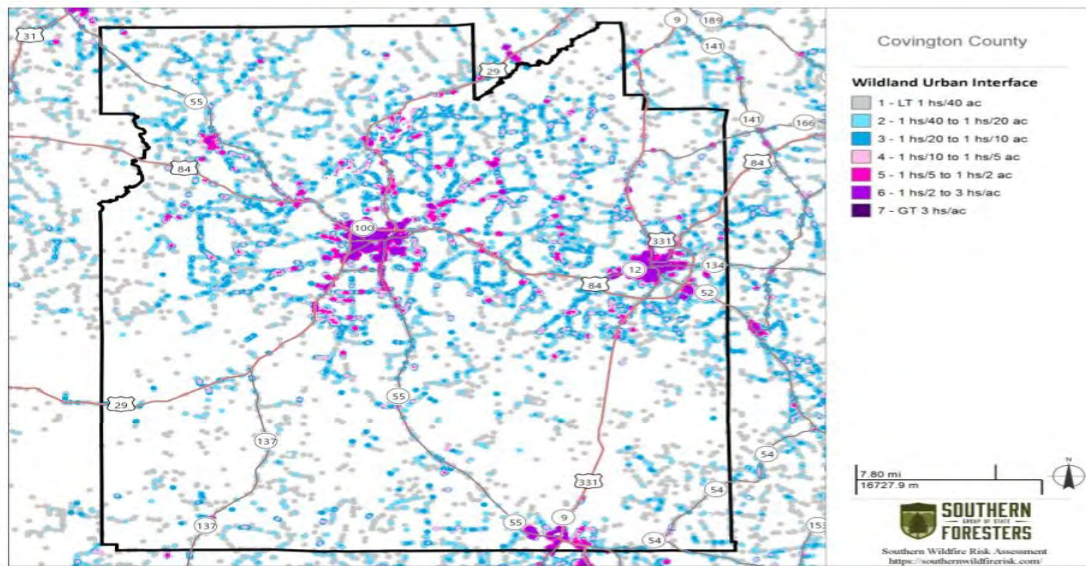
**Figure 4.151: Coffee County Wildland Urban Interface Risk Assessment**



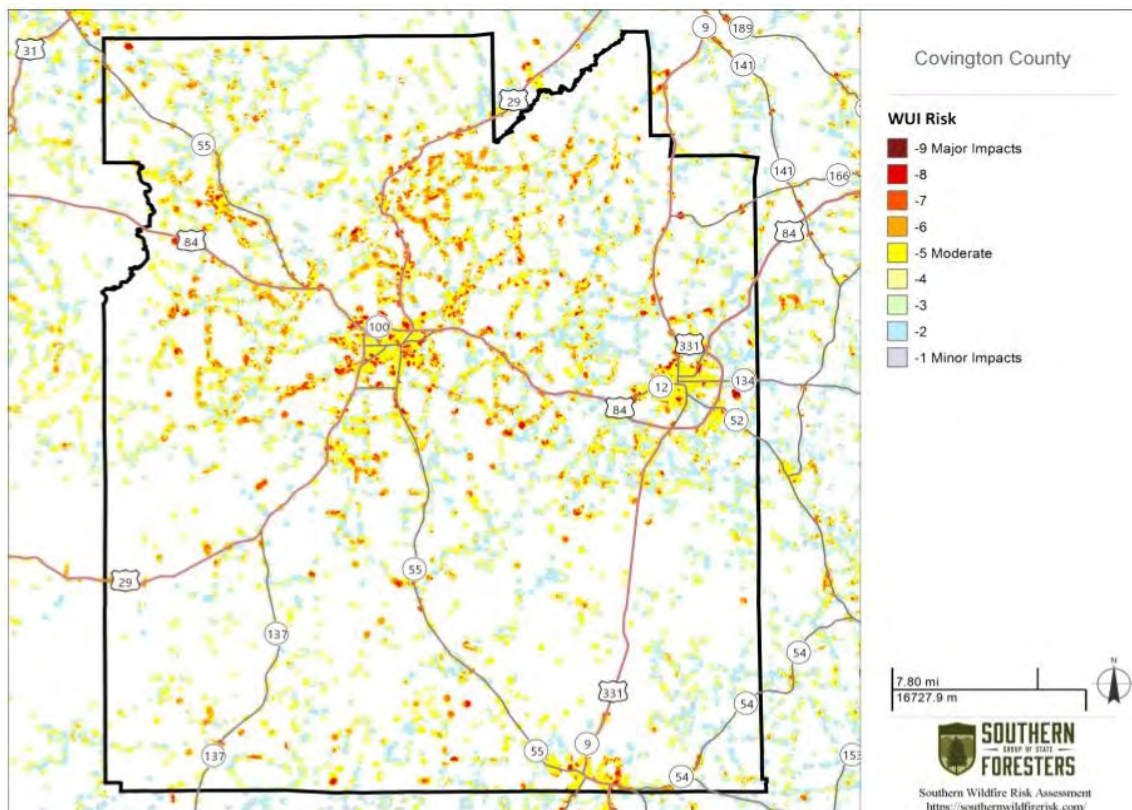
According to the Covington County Fire Risk Assessment report, the project area is estimated to have a population of 37,170 people, of which 98.4 percent, or 37,785 persons, live within the WUI. See Figure 4.152. The WUI Risk Assessment indicates the 87.9 percent of the land in Covington County is located in Class -5 areas and below, all of which are at or below moderate impacts. There is no land area rated as -9; and only 12 percent is rated above moderate.



**Figure 4.152: Covington County Wildland Urban Interface**



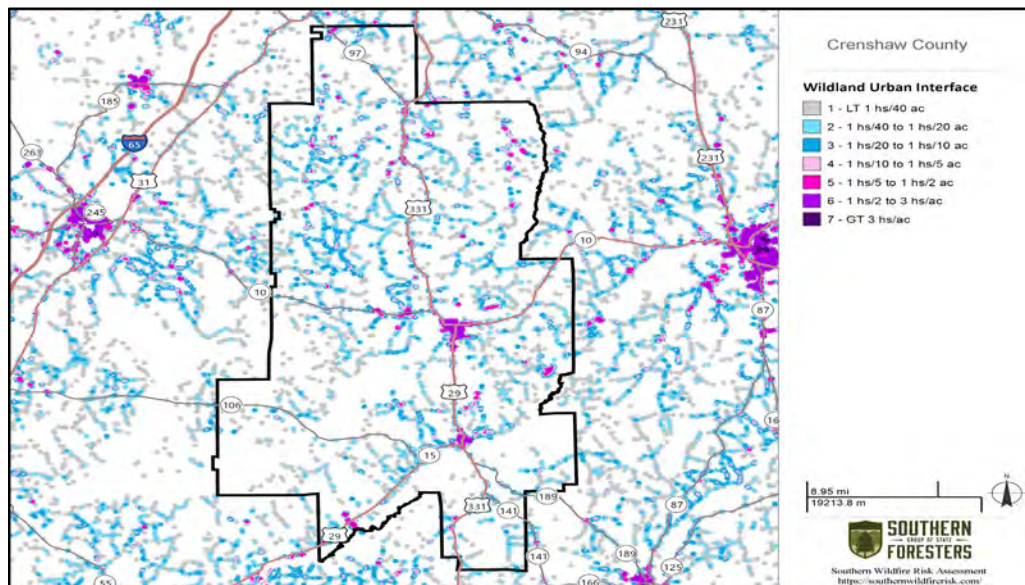
**Figure 4.153: Covington County Wildland Urban Interface Risk Assessment**



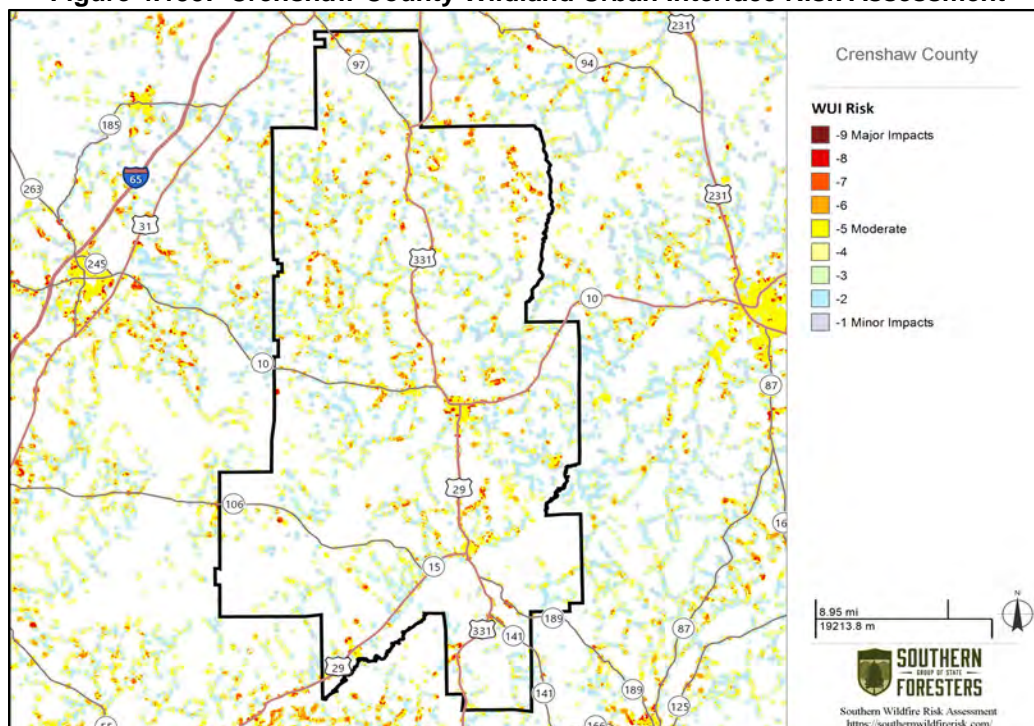
For Crenshaw County, it is estimated that 13,869 people or 99.7 % percent of the total project area population (13,905) live within the WUI. See Figure 4.154. The Crenshaw County WUI Risk Assessment indicates the 28.6 percent of the land in Crenshaw County is located in Class -4 areas and 52.1 percent of the land area is located in Class -3 or lower, all of which have below moderate (Class -5) impacts. There is no land area rated as -9; and only 3.1 percent is rated just above moderate, at Class -6 and Class -7. See Figure 4.155.



**Figure 4.154: Crenshaw County Wildland Urban Interface**



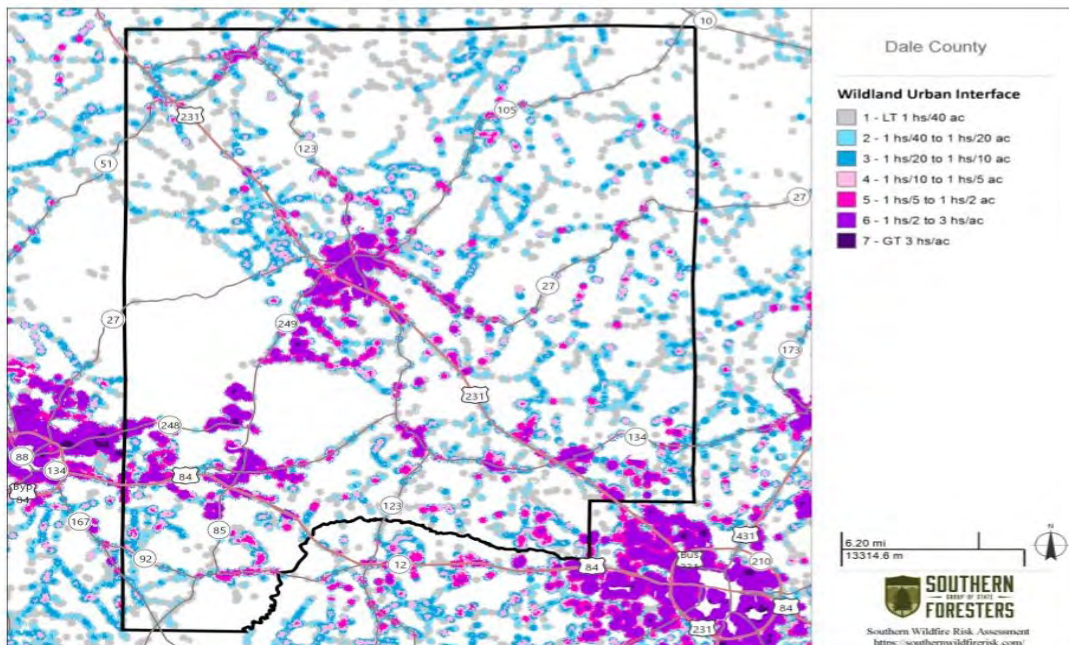
**Figure 4.155: Crenshaw County Wildland Urban Interface Risk Assessment**



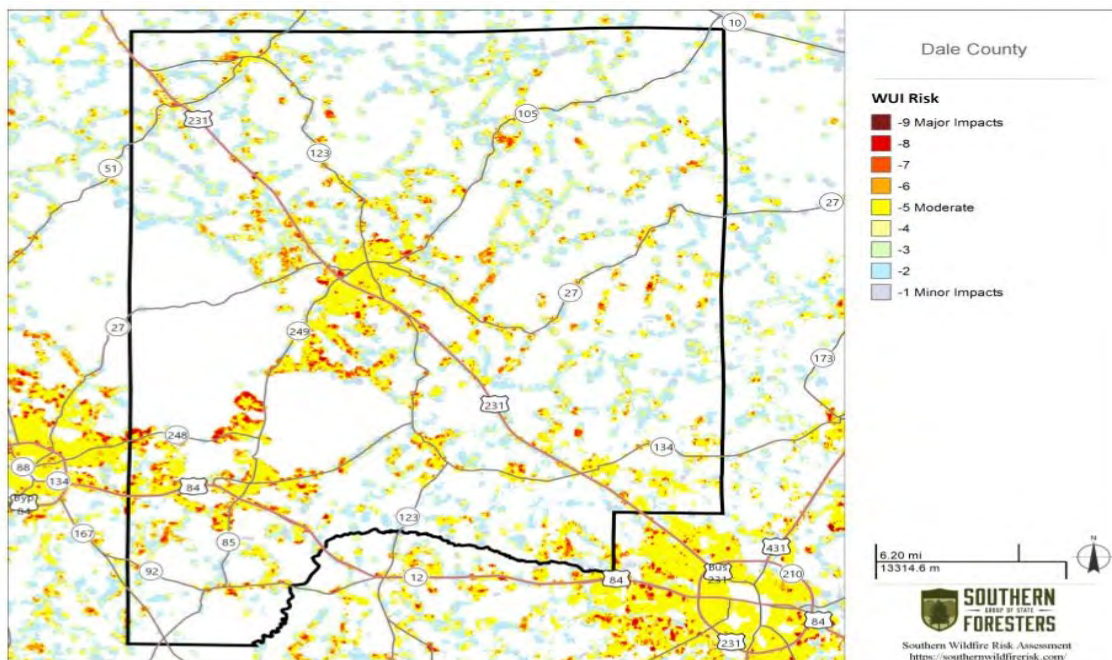
Source: Southern Group of State Foresters Wildfire Risk Assessment, Crenshaw County Fire Risk Assessment Report, 2020. (<https://www.southernwildfirerisk.com/>)

According to the Dale County Fire Risk Assessment report, the project area is estimated to have a population of 49,880 people, of which 99.3 percent live within the WUI. See Figure 4.156. The WUI Risk Assessment indicates the 49.9 percent of the land in Dale County is located in Class -4 areas and above and 50.1 percent of the land area is located in Class -3 or lower, all of which have below moderate (Class -5) impacts. There is no land area rated as -9; and only 10.3 percent is rated just above moderate, at Class -6, Class -7, and Class -8. See Figure 4.157.

**Figure 4.156: Dale County Wildland Urban Interface**



**Figure 4.157: Dale County Wildland Urban Interface Risk Assessment**

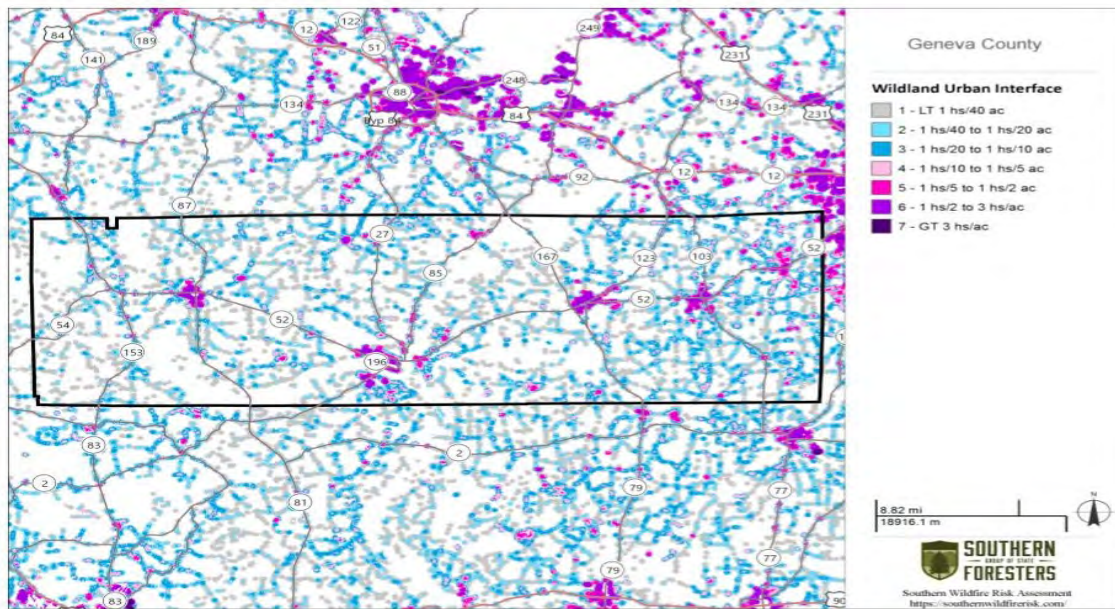


Source: Southern Group of State Foresters Wildfire Risk Assessment, Crenshaw County Fire Risk Assessment Report, 2020. (<https://www.southernwildfirerisk.com/>)

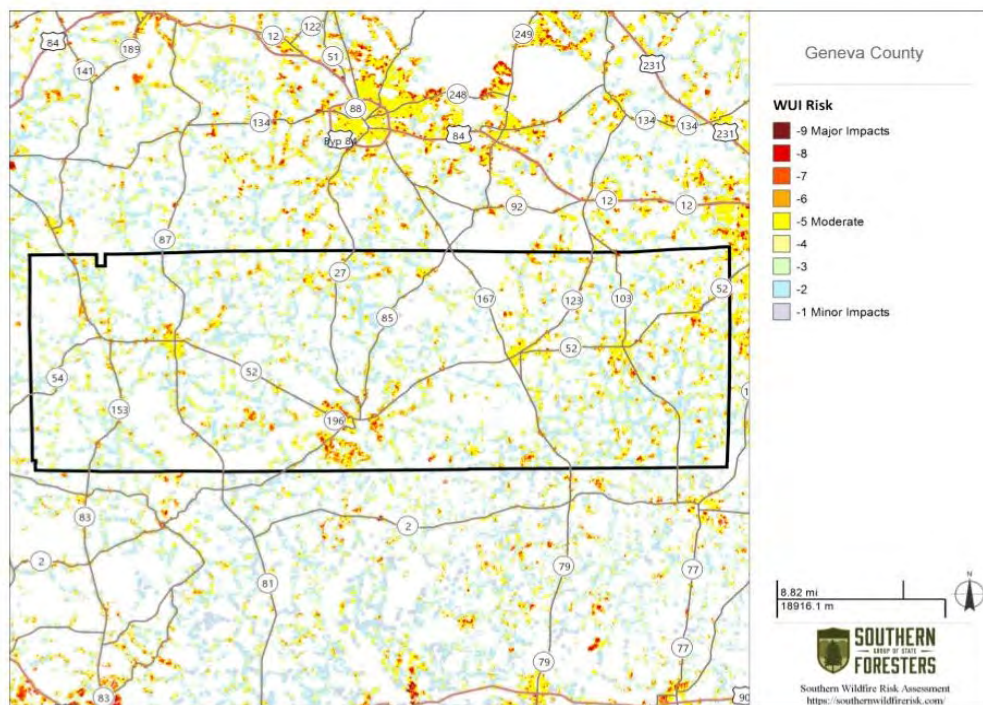
Population growth with the WUI substantially increases the risk from wildfire. According to the Geneva County Fire Risk Assessment report, the project area is estimated to have a population of 25,921 people, of which 96.8 percent, or 26,782 persons, live within the WUI. See Figure 20. The WUI Risk Assessment indicates the 78.7 percent of the land in Geneva County is located in Class -4 areas and below, all of which have below moderate (Class -5) Impacts. There is no land area rated as -9; and only 21 percent is rated at and above moderate.



**Figure 4.158: Geneva County Wildland Urban Interface**

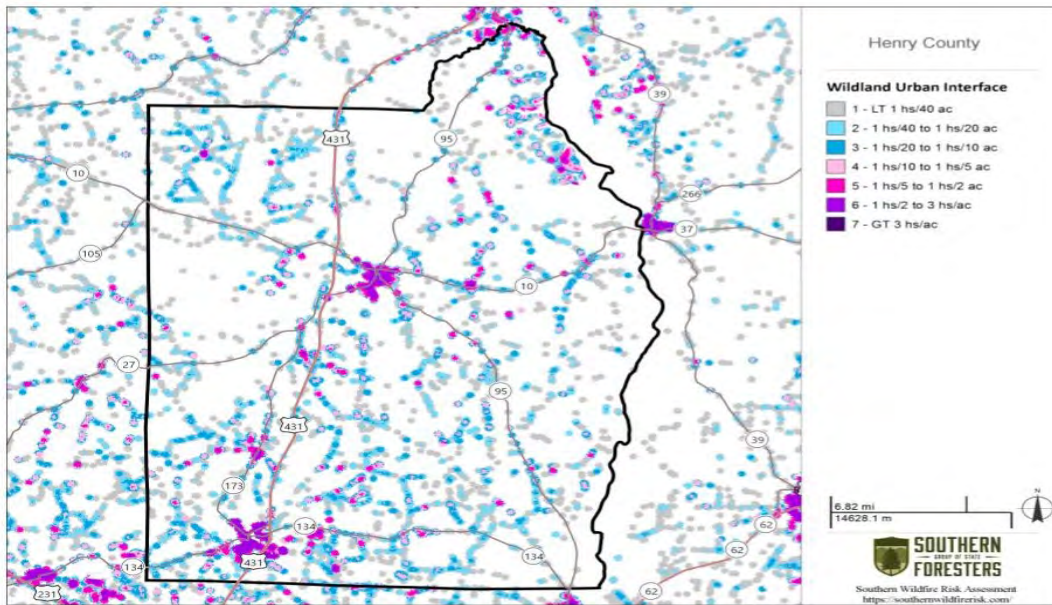


**Figure 4.159: Geneva County Wildland Urban Interface Risk Assessment**



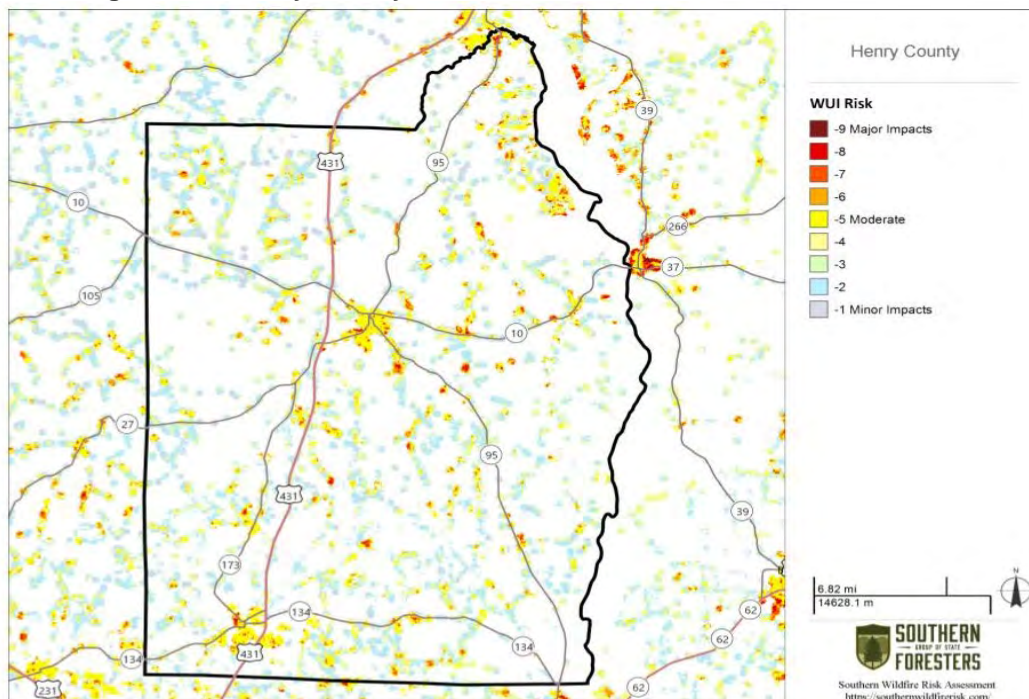
According to the Henry County Fire Risk Assessment report, the project area is estimated to have a population of 17,163 people, of which 99.1 percent, or 17,324 persons, live within the WUI. See Figure 4.160. The WUI Risk Assessment indicates the 96 percent of the land in Henry County is located in Class -5 areas and below, all of which are at or below moderate impact. There is no land area rated as -9; and only 4 percent is rated at and above moderate.

**Figure 4.160: Henry County Wildland Urban Interface**



Source: Southern Group of State Foresters Wildfire Risk Assessment, Butler County Fire Risk Assessment Report, 2020. (<https://www.southernwildfirerisk.com/>)

**Figure 161: Henry County Wildland Urban Interface Risk Assessment**

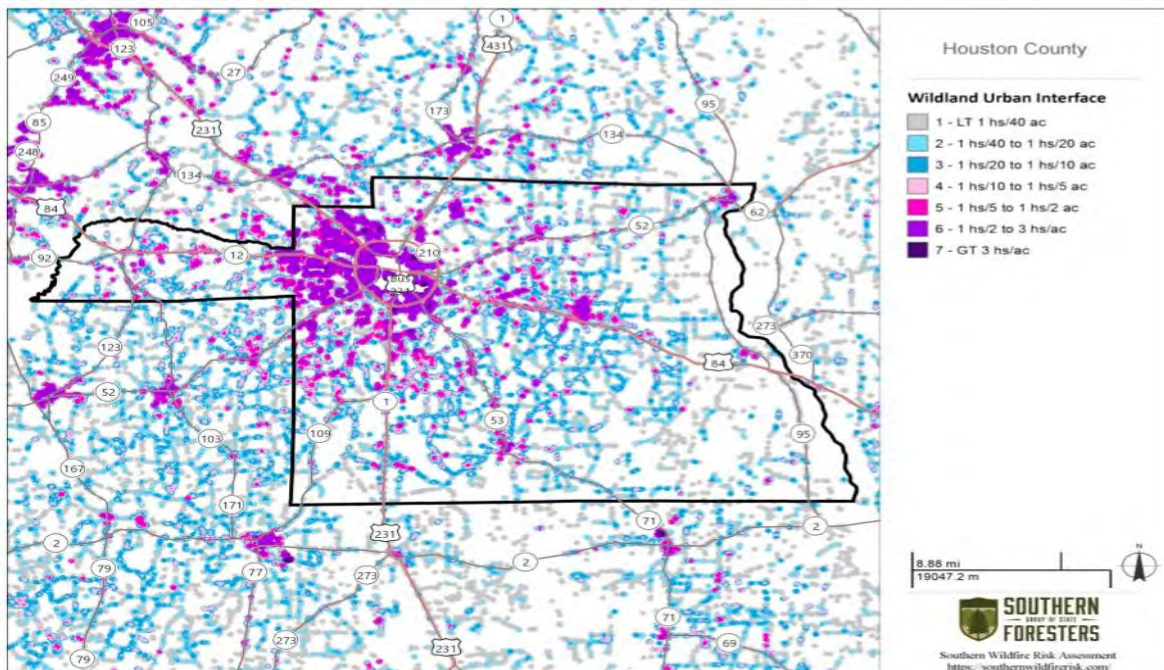


According to the Houston County Fire Risk Assessment report, the project area is estimated to have a population of 94,573 people, of which 93.1 percent, or 101,529 persons, live within the WUI. See Figure 4.162. The WUI Risk Assessment indicates the 91.2 percent of the land in Houston County is located in Class -5 areas and below, all of which have below or at



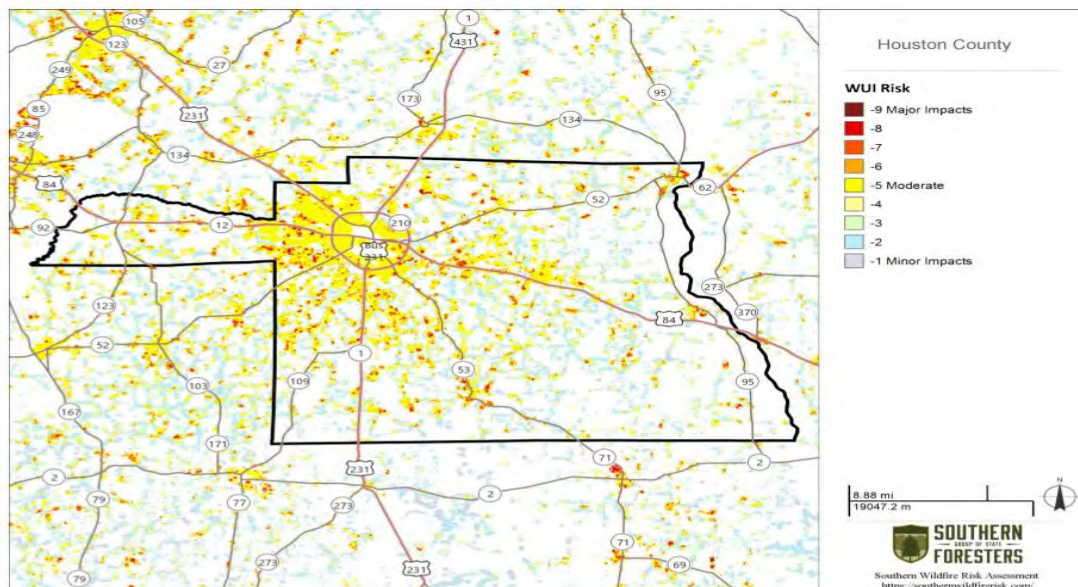
moderate (Class -5) Impacts. There is no land area rated as -9; and only 8.9 percent is rated above moderate.

**Figure 4.162: Houston County Wildland Urban Interface**



Source: Southern Group of State Foresters Wildfire Risk Assessment, Pike County Fire Risk Assessment Report, 2020. (<https://www.southernwildfirerisk.com/>)

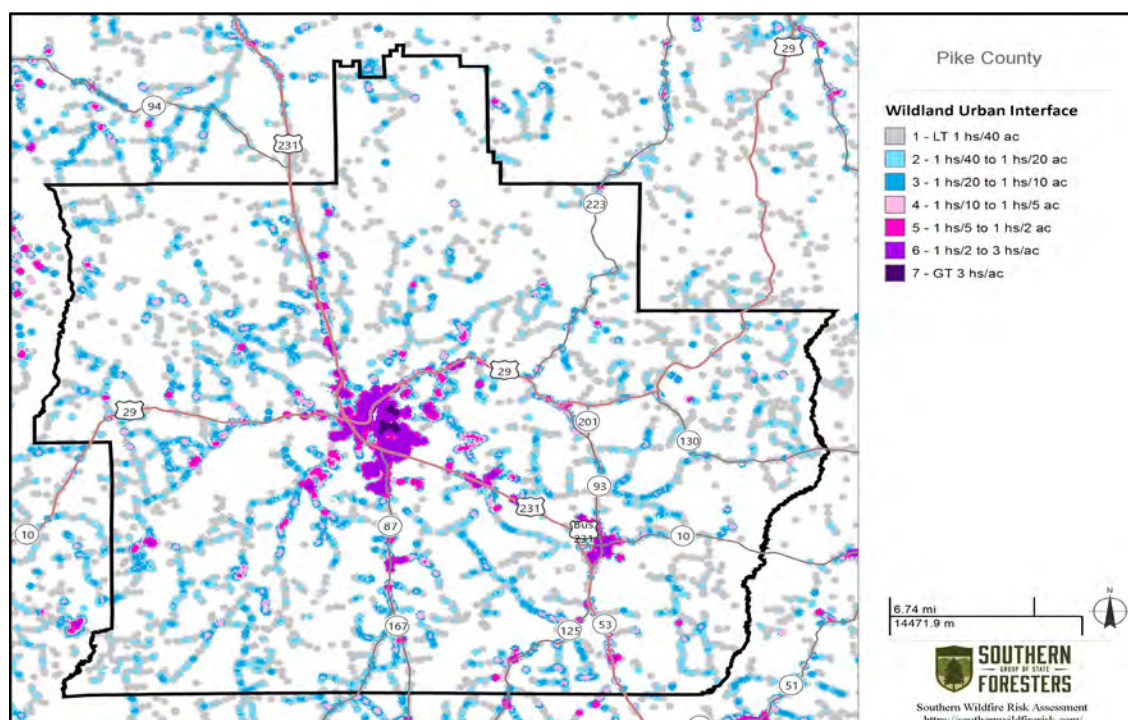
**Figure 4.163: Houston County Wildland Urban Interface Risk Assessment**



The Pike County WUI Risk Assessment indicates 20.6 percent of the land in Pike County is located in Class -4 areas and 61.1 percent of the land area is located in Class -3 or lower, all of which have below moderate impacts. There is no land area rated as -9; and only 2.0 percent is rated just above moderate, at Class -6 and Class -7. See Figure 4.165.

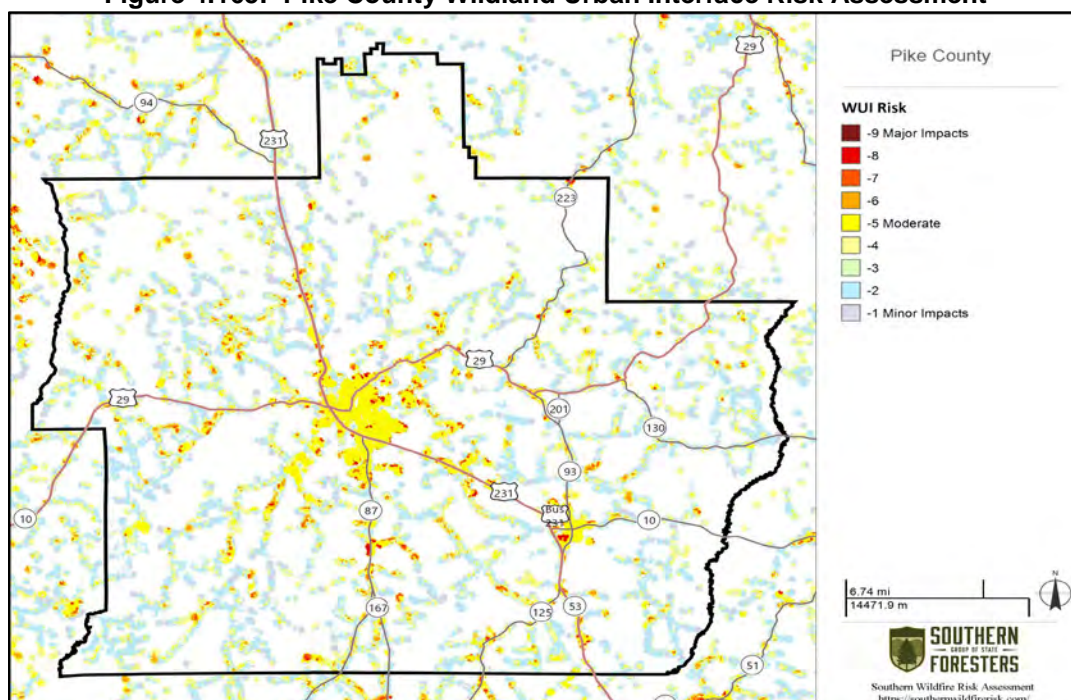


**Figure 4.164: Pike County Wildland Urban Interface**



Source: Southern Group of State Foresters Wildfire Risk Assessment, Pike County Fire Risk Assessment Report, 2020. (<https://www.southernwildfirerisk.com/>)

**Figure 4.165: Pike County Wildland Urban Interface Risk Assessment**



The WUI Risk Rating is derived using a Response Function modeling approach. Response functions are a method of assigning a net change in the value to a *resource* or *asset* based on susceptibility to fire at different intensity levels, such as flame length. The range of values is from -1 to -9, with -1 representing the least negative impact and -9 representing the most negative

impact. For example, areas with high housing density and high flame lengths are rated -9 while areas with low housing density and low flame lengths are rated -1.

To calculate the WUI Risk Rating, the WUI housing density data was combined with Flame Length data and response functions were defined to represent potential impacts. The response functions were defined by a team of experts based on values defined by the SWRA Update Project technical team. By combining flame length with the WUI housing density data, you can determine where the greatest potential impact to homes and people is likely to occur.

Potential impacts from wildfires include loss of life and injury; severe property damage; injury to victims and response personnel; smoke inhalation and toxic fumes; decreased visibility for vehicular traffic leading to a documented increase in auto accidents; threats to utility lines and poles, phone boxes and fiber optic lines. Secondary impacts from wildfires include a loss of tax revenue due to a loss of timber; erosion which leads to road and bridge deterioration; loss of habitat and a threat to endangered species; threatened water quality and stream sedimentation. The risks and vulnerability associated with wildfire are only increasing with continued urban sprawl.

***Extent.***

The magnitude of wildfire events is often classified as total number of acres burned and destructive impacts to people and property, including house fires and casualties. These elements are greatly dependent on other factors, such as weather conditions, available fuel, topography, and existing wildfire mitigation capabilities. With data available from the Alabama Forestry Commission, it is estimated that Barbour County has suffered 291 wildfires between 2007 and 2020 with a total of 3,887.37 acres burned. The USDA Forest Service utilizes a wildfire classification system, as shown in Table 4.95 that categorizes wildfire by the number of acres burned. In the 13 years, Barbour County has had one Class E fire, seven Class D fires, and seventy four Class C fires. The remaining 209 fires were ten acres or less in size.

**Table 4.96: Wildfire Classification System- Barbour County**

Fire Size (acres)	USDA FOREST SERVICE WILDFIRE CLASSES	Barbour County Fires	
		Number of Fires Per Class	Total Number of Acres Burned Per Class
Class D	100 acres or more, but less than 300 acres	7	970.42
Class E	300 acres or more, but less than 1,000 acres	1	325
Class F	1,000 acres or more, but less than 5,000 acres	0	0
Class G	5,000 acres or more.	0	0

***Extent.***

The magnitude of wildfire events is often classified as total number of acres burned and destructive impacts to people and property, including house fires and casualties. These elements are greatly dependent on other factors, such as weather conditions, available fuel, topography, and existing wildfire mitigation capabilities. With data available from the Alabama Forestry

Commission, it is estimated that Coffee County has suffered 191 wildfires between 2007 and 2020 with a total of 1,065 acres burned. The USDA Forest Service utilizes a wildfire classification system, as shown in Table 4.97 that categorizes wildfire by the number of acres burned. In the 13 years, Coffee County has had one Class E fire, seven Class D fires, and seventy four Class C fires. The remaining 209 fires were ten acres or less in size.

**Table 4.97: Wildfire Classification System- Coffee County**

Fire Size (acres)	USDA FOREST SERVICE WILDFIRE CLASSES	Coffee County Fires	
		Number of Fires Per Class	Total Number of Acres Burned Per Class
Class D	100 acres or more, but less than 300 acres	7	970.42
Class E	300 acres or more, but less than 1,000 acres	1	325
Class F	1,000 acres or more, but less than 5,000 acres	0	0
Class G	5,000 acres or more.	0	0

***Extent.***

The magnitude of wildfire events is often classified as total number of acres burned and destructive impacts to people and property, including house fires and casualties. These elements are greatly dependent on other factors, such as weather conditions, available fuel, topography, and existing wildfire mitigation capabilities. With data available from the Alabama Forestry Commission, it is estimated that Covington County has suffered 387 wildfires between 2007 and 2020 with a total of 4,814.03 acres burned. The USDA Forest Service utilizes a wildfire classification system, as shown in Table 4.98 that categorizes wildfire by the number of acres burned.

**Table 4.98: Wildfire Classification System- Covington County**

Fire Size (acres)	USDA Forest Service Wildfire Classes	Covington County Fires	
		Number of Fires per Class	Total Number of Acres Burned per Class
Class D	100 acres or more, but less than 300 acres	6	963
Class E	300 acres or more, but less than 1,000 acres	1	589
Class F	1,000 acres or more, but less than 5,000 acres	0	0
Class G	5,000 acres or more.	0	0

***Extent.***

The magnitude of wildfire events is often classified as total number of acres burned and destructive impacts to people and property, including house fires and casualties. These elements are greatly dependent on other factors, such as weather conditions, available fuel, topography, and existing wildfire mitigation capabilities. With data available from the Alabama Forestry



Commission, it is estimated that Dale County has suffered 141 wildfires between 2007 and 2020 with a total of 601.36 acres burned. The USDA Forest Service utilizes a wildfire classification system, as shown in Table 4.99 that categorizes wildfire by the number of acres burned. In the 13 years, Dale County has had zero Class E fire, zero Class D fires, and eighteen Class C fires. The remaining 120 fires were ten acres or less in size.

**Table 4.99: Wildfire Classification System- Dale County**

Fire Size (acres)	USDA FOREST SERVICE WILDFIRE CLASSES	Dale County Fires	
		Number of Fires Per Class	Total Number of Acres Burned Per Class
Class D	100 acres or more, but less than 300 acres	0	0
Class E	300 acres or more, but less than 1,000 acres	0	0
Class F	1,000 acres or more, but less than 5,000 acres	0	0
Class G	5,000 acres or more.	0	0

***Extent.***

The magnitude of wildfire events is often classified as total number of acres burned and destructive impacts to people and property, including house fires and casualties. These elements are greatly dependent on other factors, such as weather conditions, available fuel, topography, and existing wildfire mitigation capabilities. With data available from the Alabama Forestry Commission, it is estimated that Geneva County has suffered 225 wildfires between 2007 and 2020 with a total of 1,951.39 acres burned. The USDA Forest Service utilizes a wildfire classification system, as shown in Table 4.100 that categorizes wildfire by the number of acres burned.

**Table 4.100: Wildfire Classification System- Geneva County**

Fire Size (acres)	USDA Forest Service Wildfire Classes	Geneva County Fires	
		Number of Fires per Class	Total Number of Acres Burned per Class
Class D	100 acres or more, but less than 300 acres	0	0
Class E	300 acres or more, but less than 1,000 acres	0	0
Class F	1,000 acres or more, but less than 5,000 acres	0	0
Class G	5,000 acres or more.	0	0

***Extent.***

The magnitude of wildfire events is often classified as total number of acres burned and destructive impacts to people and property, including house fires and casualties. These elements are greatly dependent on other factors, such as weather conditions, available fuel,

topography, and existing wildfire mitigation capabilities. With data available from the Alabama Forestry Commission, it is estimated that Henry County has suffered 217 wildfires between 2007 and 2020 with a total of 1,370.60 acres burned. The USDA Forest Service utilizes a wildfire classification system, as shown in Table 4.101 that categorizes wildfire by the number of acres burned.

**Table 4.101: Wildfire Classification System- Henry County**

Henry County Fires			
Fire Size (acres)	USDA Forest Service Wildfire Classes	Number of Fires per Class	Total Number of Acres Burned per Class
Class D	100 acres or more, but less than 300 acres	4	556.5
Class E	300 acres or more, but less than 1,000 acres	0	0
Class F	1,000 acres or more, but less than 5,000 acres	0	0
Class G	5,000 acres or more.	0	0

***Extent.***

The magnitude of wildfire events is often classified as total number of acres burned and destructive impacts to people and property, including house fires and casualties. These elements are greatly dependent on other factors, such as weather conditions, available fuel, topography, and existing wildfire mitigation capabilities. With data available from the Alabama Forestry Commission, it is estimated that Houston County has suffered 204 wildfires between 2007 and 2020 with a total of 1,318.90 acres burned. The USDA Forest Service utilizes a wildfire classification system, as shown in Table 4.102 that categorizes wildfire by the number of acres burned.

**Table 4.102: Wildfire Classification System- Houston County**

Houston County Fires			
Fire Size (acres)	USDA Forest Service Wildfire Classes	Number of Fires per Class	Total Number of Acres Burned per Class
Class D	100 acres or more, but less than 300 acres	4	556.5
Class E	300 acres or more, but less than 1,000 acres	0	0
Class F	1,000 acres or more, but less than 5,000 acres	0	0
Class G	5,000 acres or more.	0	0

***Extent.***

The magnitude of wildfire events is often classified as total number of acres burned and destructive impacts to people and property, including house fires and casualties. These elements are greatly dependent on other factors, such as weather conditions, available fuel, topography, and existing wildfire mitigation capabilities. The USDA Forest Service utilizes a wildfire classification system,

as shown in the Table 4.103 series that categorizes wildfire by the number of acres burned. In classifying Alabama Forestry Commission data into the USDA Forest Service wildfire classification system, it should be noted that acres burned in smaller wildfires was not recorded until about 2016. Therefore, the average acres burned per fire is not exact; and the fires with no acreage recorded are included the Class A Fire Classification.

With data available from the Alabama Forestry Commission, it is estimated that Butler County has suffered 536 wildfires between 2007 and 2020 with a total of 3,952.85 acres burned. Therefore, the average wildfire size in Butler County is 7.37 acres. The largest wildfire in the county occurred in February 2015 with 652 acres burned. In the 14-year period, Butler County has had one Class E fire, five Class D fires, and 80 Class C fires. The remaining 450 fires were ten acres or less in size.

Crenshaw County has suffered 239 wildfires between 2007 and 2020 with a total of 1,336.70 acres burned. Therefore, the average wildfire size in Crenshaw County is 5.59 acres. The largest wildfire in the county occurred in April 2010 with 94 acres burned. In the 14-year period, Crenshaw County has had 37 Class C fires. The remaining 202 fires were ten acres or less in size.

Pike County has had 215 wildfires between 2007 and 2020 with a total of 1,773.95 acres burned. Therefore, the average wildfire size in Pike County is 8.25 acres. The largest wildfire in the county occurred in March 2012 with 194 acres burned. In the 14-year period, Pike County has had three Class D fires, and 45 Class C fires. The remaining 167 fires were ten acres or less in size.

**Table 4.103: Wildfire Classification System – Butler County**

Fire Size (acres)	USDA Forest Service Wildfire Classes	Butler County Fires	
		Number of Fires per Class	Total Number of Acres Burned per Class
Class A	One-fourth acre or less	230	5.25
Class B	More than one-fourth acre, but less than 10 acres	220	591.70
Class C	10 acres or more, but less than 100 acres	80	1,767.90
Class D	100 acres or more, but less than 300 acres	5	936.00
Class E	300 acres or more, but less than 1,000 acres	1	652.00
Class F	1,000 acres or more, but less than 5,000 acres	0	0
Class G	5,000 acres or more.	0	0
<b>Total Butler County Fires</b>		<b>536</b>	<b>3,952.85</b>

**Table 4.104: Wildfire Classification System – Crenshaw County**

Fire Size (acres)	USDA Forest Service Wildfire Classes	Crenshaw County Fires	
		Number of Fires per Class	Total Number of Acres Burned per Class
Class A	One-fourth acre or less	79	1.95
Class B	More than one-fourth acre, but less than 10 acres	123	334.75
<b>Class C</b>	<b>10 acres or more, but less than 100 acres</b>	<b>37</b>	<b>1,000.00</b>
Class D	100 acres or more, but less than 300 acres		
Class E	300 acres or more, but less than 1,000 acres		
Class F	1,000 acres or more, but less than 5,000 acres		
Class G	5,000 acres or more.		
<b>Total Crenshaw County Fires</b>		<b>239</b>	<b>1,336.70</b>

**Table 4.105: Wildfire Classification System – Pike County**

Fire Size (acres)	USDA Forest Service Wildfire Classes	Pike County Fires	
		Number of Fires per Class	Total Number of Acres Burned per Class
Class A	One-fourth acre or less	41	1.30
Class B	More than one-fourth acre, but less than 10 acres	126	386.65
Class C	10 acres or more, but less than 100 acres	45	945.00
<b>Class D</b>	<b>100 acres or more, but less than 300 acres</b>	<b>3</b>	<b>441.00</b>
Class E	300 acres or more, but less than 1,000 acres		
Class F	1,000 acres or more, but less than 5,000 acres		
Class G	5,000 acres or more.		
<b>Total Pike County Fires</b>		<b>215</b>	<b>1,773.95</b>

Source: National Wildfire Coordinating Group. <https://www.nwcg.gov/term/glossary/size-class-of-fire>; Alabama Forestry Commission, <https://forestry.alabama.gov/Pages/Fire/Totals.aspx>

Another mechanism to measure wildfire extent is the Fire Intensity Scale (FIS), also available from the SWRAP Butler County Fire Risk Assessment Report. FIS identifies areas where significant fuel hazards and associated fire behavior potential exist based on a weighted average of four percentile weather categories. FIS consists of five classes where the order of magnitude between classes is ten-fold. The minimum class, Class 1, represents very low wildfire intensities and the maximum class, Class 5, represents very high wildfire intensities. The FIS categories, shown in Table 4.26, provide a standard scale to measure potential wildfire intensity.



**Table 4.106: SWRAP Fire Intensity Scale Categories**

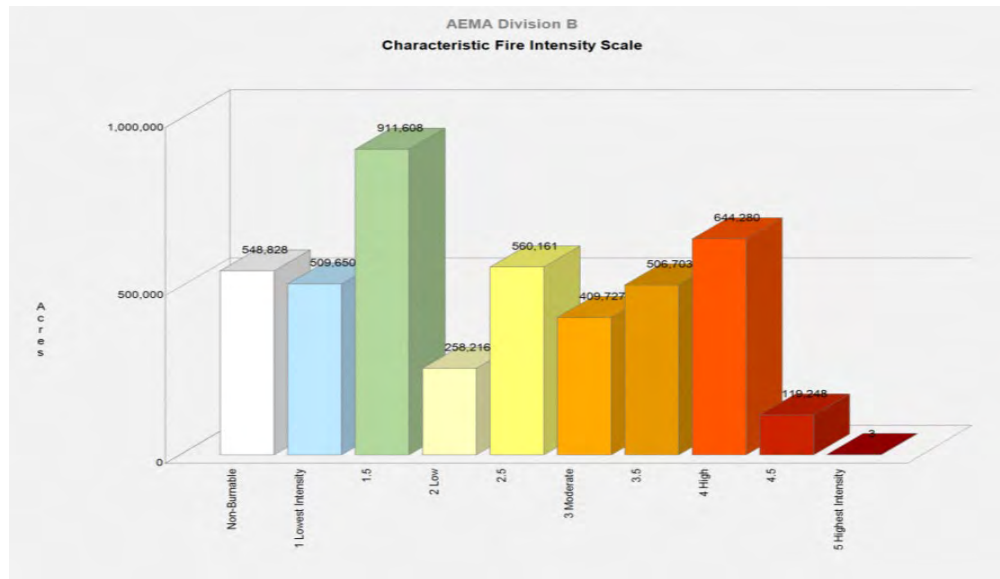
<b>FIS Class</b>	<b>FIS Class Description</b>
<b>Class 1: Very Low</b>	Very small, discontinuous flames, usually less than 1 foot in length; very low rate of spread; no spotting. Fires are typically easy to suppress by firefighters with basic training and non-specialized equipment.
<b>Class 2: Low</b>	Small flames, usually less than two feet long; small amount of very short range spotting possible. Fires are easy to suppress by trained firefighters with protective equipment and specialized tools.
<b>Class 3: Moderate</b>	Flames up to 8 feet in length; short-range spotting is possible. Trained firefighters will find these fires difficult to suppress without support from aircraft or engines, but dozer and plows are generally effective. Increasing potential for harm or damage to life and property
<b>Class 4: High</b>	Large Flames, up to 30 feet in length; short-range spotting common; medium range spotting possible. Direct attack by trained firefighters, engines, and dozers is generally ineffective, indirect attack may be effective. Significant potential for harm or damage to life and property.
<b>Class 5: Very High</b>	Very large flames up to 150 feet in length; profuse short-range spotting, frequent long-range spotting; strong fire-induced winds. Indirect attack marginally effective at the head of the fire. Great potential for harm or damage to life and property.

The graphs in Figure 4.166 show the percentage of land in Butler, Crenshaw and Pike Counties. In Butler County, the FIS category with the highest percentage of land is 4-High, with an estimated 178,623 acres or 35.9 percent of the total land area. However, 43.2 percent of the land area is in the 1-Very Low or 2-Low categories, while 4.9 percent is considered to be non-burnable. None of the land area in Butler County is in the 5<sup>th</sup> category of Highest Intensity. Therefore, Category 4-High would be considered the highest wildfire extent for Butler County

In Crenshaw County, the FIS category with the highest percentage of land is 1.5-Low, with an estimated 101,399 acres, or 25.9 percent of the total land area. However, 22.2 percent of the land area is in the 4-High category and a small percentage, at 0.6 percent, of the land area is in the 4.5-High category, while 6.0 percent is considered to be non-burnable. None of the land area in Crenshaw County is in the 5<sup>th</sup> category of Highest Intensity. Therefore, Category 4-High would be considered the highest extent for wildfire in Crenshaw County.

In Pike County, the FIS category with the highest percentage of land is 1.5-Low, with an estimated 135,486 acres, or 31.5 percent of the total land area. However, 11.9 percent of the land area is in the 4-High category and 10.1 percent is in the 3.5 Moderately High category, while 8.7 percent is considered to be non-burnable. Category 4-High is the highest extent for Pike County.

**Figure 4.166: AEMA Division B Land Area by FIS Category**



Source: Southern Group of State Foresters Wildfire Risk Assessment, Butler County Fire Risk Assessment Report, 2020. (<https://www.southernwildfirerisk.com/>)

### ***Historical Occurrences.***

There are no recorded occurrences of wildfire for Barbour County on the National Centers for Environmental Information Storm Events Database. The Alabama Forestry Commission has records of wildfires dating back to 2007. Between 2007 and 2020, Barbour County experienced 291 wildfires with 3,887.37 acres burned, which equates to 13.35 acres per fire. These fires are listed in Table 4.107. Barbour County's largest fire occurred in April 2013 with 325 acres burned. By far, the great majority of the wildfires in Barbour County are small burning less than 10 acres.

**Table 4.107: Wildfire Occurrences 100 Acres or more in Barbour County, 2007 to 2020**

Fire #	County	Acres	Reported On	Contained On	Controlled On
20190921-5	Barbour	101	9/21/2019 12:49	9/23/2019 13:23	9/24/2019 15:58
20180303-9	Barbour	178.42	3/3/2018 14:37	3/4/2018 11:30	3/4/2018 11:30
20170131-29	Barbour	138	1/31/2017 14:36	1/31/2017 19:45	2/2/2017 16:39
SER-20141027-001	Barbour	133	10/27/2014 9:56		10/28/2014 14:17
SER-20110603-002	Barbour	200	6/3/2011 13:46		6/3/2011 16:06
MGM-20080327-012	Barbour	100	3/27/2008 21:01		3/27/2008 23:49

MGM-20070312-004	Barbour	120	3/12/2007 18:27		3/12/2007 20:17
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#### ***Probability of Future Occurrences.***

The Barbour County Fire Risk Assessment Report, compiled by the Southern Group of State Foresters Wildfire Risk Assessment Portal (SWRAP), includes data for Burn Probability (BP). Burn Probability depicts the probability of an area burning given current landscape conditions, percentile weather, historical ignition patterns and historical fire prevention and suppression efforts, with a rating from 1 (least burn probability) to 10 (highest burn probability). Of the total area in Barbour County, 61.1 percent is rated either 1, 2 or 3 and 38.9 percent are 4 and higher. Given the relatively low burn probability but the high percentage of the population living in the WUI, the probability for future wildfire occurrences would be regarded as Medium.

#### ***Historical Occurrences.***

The Alabama Forestry Commission has records of wildfires dating back to 2007. Between 2007 and 2020, Barbour County experienced 291 wildfires with 3,887.37 acres burned, which equates to 13.35 acres per fire. These fires are listed in Table 4.108. Barbour County's largest fire occurred in April 2013 with 325 acres burned. By far, the great majority of the wildfires in Barbour County are small burning less than 10 acres.

**Table 4.108: Wildfire Occurrences 100 Acres or more in Butler County, 2007 to 2020**

Fire #	Acres	Reported On	Contained On	Controlled On
SER-20150403-001	144	4/3/2015 12:35		4/3/2015 12:49
SWR-20150216-003	252	2/16/2015 11:15		2/16/2015 15:53
SER-20150216-005	652	2/16/2015 10:51		2/16/2015 17:29
SER-20130309-004	283	3/9/2013 15:24		3/9/2013 18:49
SER-20110824-002	147	8/24/2011 15:55		8/24/2011 20:58

Source: Alabama Forestry Commission. <https://forestry.alabama.gov/Pages/Fire/Totals.aspx>

#### ***Probability of Future Occurrences***

The Barbour County Fire Risk Assessment Report, compiled by the Southern Group of State Foresters Wildfire Risk Assessment Portal (SWRAP), includes data for Burn Probability (BP). Burn Probability depicts the probability of an area burning given current landscape conditions, percentile weather, historical ignition patterns and historical fire prevention and suppression efforts, with a rating from 1 (least burn probability) to 10 (highest burn probability). Of the total area in Barbour County, 61.1 percent is rated either 1, 2 or 3 and 38.9 percent are 4 and higher. Given the relatively low burn probability but the high percentage of the population living in the WUI, the probability for future wildfire occurrences would be regarded as Medium.

#### ***Historical Occurrences.***

There are no recorded occurrences of wildfire for Coffee County on the National Centers for Environmental Information Storm Events Database. The Alabama Forestry Commission has records of wildfires dating back to 2007. Between 2007 and 2020, Coffee County experienced 191 wildfires with 1,065 acres burned, which equates to 5.57 acres per fire. These fires are listed

in Table 4.20. Coffee County's largest fire occurred in May 2011 with 139 acres burned. By far, the great majority of the wildfires in Coffee County are small burning less than 10 acres

**Table 4.109: Wildfire Occurrences 100 Acres or more in Coffee County, 2007 to 2020**

Fire #	County	Acres	Reported On	Contained On	Controlled On
SER-20110523-002	Coffee	139	5/23/2011 14:05	1/31/2017	5/23/2011 18:16

***Probability of Future Occurrences.***

The Coffee County Fire Risk Assessment Report, compiled by the Southern Group of State Foresters Wildfire Risk Assessment Portal (SWRAP), includes data for Burn Probability (BP). Burn Probability depicts the probability of an area burning given current landscape conditions, percentile weather, historical ignition patterns and historical fire prevention and suppression efforts, with a rating from 1 (least burn probability) to 10 (highest burn probability). Of the total area in Coffee County, 71.6 percent is rated either 1, 2 or 3 and 28.4 percent are 4 and higher. Given the relatively low burn probability but the high percentage of the population living in the WUI, the probability for future wildfire occurrences would be regarded as Medium.

***Historical Occurrences.***

The Alabama Forestry Commission has records of wildfires dating back to 2007. Between 2007 and 2020, Covington County experienced 387 wildfires with 4814.03 acres burned, which equates to 12.4 acres per fire. These fires are listed in Table 4.110. Covington County's largest fire occurred in September 2019 with 589 acres burned. By far, the great majority of the wildfires in Covington County are small burning less than 10 acres.

**Table 4.110: Wildfire Occurrences 100 Acres or more in Covington County, 2007 to 2020**

Fire #	County	Acres	Reported On	Contained On	Controlled On
20190927-5	Covington	589.00	9/27/2019 1:24:56 PM	10/7/2019 4:50:39 PM	10/8/2019 10:21:10 AM
20180324-2	Covington	160.00	3/24/2018 1:04:43 PM	3/24/2018 7:18:03 PM	3/24/2018 7:18:03 PM
20170414-6	Covington	295.00	4/14/2017 3:37:26 PM	4/15/2017 12:29:17 AM	4/15/2017 9:29:24 AM
20170318-5	Covington	130.00	3/18/2017 2:33:35 PM	3/18/2017 11:37:45 PM	3/27/2017 8:44:11 AM
SER-20141102-002	Covington	145.00	11/2/2014 7:24:00 PM		11/3/2014 5:01:00 PM
MGM-20071001-002	Covington	110.00	10/1/2007 2:05:00 PM		10/1/2007 5:14:00 PM

***Probability of Future Occurrences.***

The Covington County Fire Risk Assessment Report, compiled by the Southern Group of State Foresters Wildfire Risk Assessment Portal (SWRAP), includes data for Burn Probability (BP).



Burn Probability depicts the probability of an area burning given current landscape conditions, percentile weather, historical ignition patterns and historical fire prevention and suppression efforts, with a rating from 1 (least burn probability) to 10 (highest burn probability). Of the total area in Covington County, 100 percent is rated either 1, 2, 3, 4 or 5. Given the relatively low burn probability but the high percentage of the population living in the WUI, the probability for future wildfire occurrences would be regarded as low-moderate.

#### ***Historical Occurrences.***

The Alabama Forestry Commission has records of wildfires dating back to 2007. Between 2007 and 2020, Dale County experienced 141 wildfires with 601 acres burned, which equates to 4.26 acres per fire. These fires are listed in Table 4.20. By far, the great majority of the wildfires in Dale County are small burning less than 10 acres.

There have been no wildfire occurrences over 100 acres in Dale County between 2007 and 2020.

#### ***Probability of Future Occurrences.***

The Dale County Fire Risk Assessment Report, compiled by the Southern Group of State Foresters Wildfire Risk Assessment Portal (SWRAP), includes data for Burn Probability (BP). Burn Probability depicts the probability of an area burning given current landscape conditions, percentile weather, historical ignition patterns and historical fire prevention and suppression efforts, with a rating from 1 (least burn probability) to 10 (highest burn probability). Of the total area in Dale County, 61.1 percent is rated either 1, 2 or 3 and 38.9 percent are 4 and higher. Given the relatively low burn probability but the high percentage of the population living in the WUI, the probability for future wildfire occurrences would be regarded as Medium.

#### ***Historical Occurrences.***

There are no recorded occurrences of wildfire for Geneva County on the National Centers for Environmental Information Storm Events Database. The Alabama Forestry Commission has records of wildfires dating back to 2007. Between 2007 and 2020, Geneva County experienced 225 wildfires with 1,951.39 acres burned, which equates to 8.67 acres per fire. These fires are listed in Table 4.111. Geneva County's largest fire occurred in January 2015 with 100 acres burned. By far, the great majority of the wildfires in Geneva County are small burning less than 10 acres.

**Table 4.111: Wildfire Occurrences 100 Acres or more in Geneva County, 2007 to 2020**

Fire#	County	Acres	Reported On	Contained On	Controlled On
SER-20150131-010	Geneva	100.00	1/31/2015 6:24:00 PM		1/31/2015 8:51:00 PM

#### ***Probability of Future Occurrences.***

The Geneva County Fire Risk Assessment Report, compiled by the Southern Group of State Foresters Wildfire Risk Assessment Portal (SWRAP), includes data for Burn Probability (BP). Burn Probability depicts the probability of an area burning given current landscape conditions, percentile weather, historical ignition patterns and historical fire prevention and suppression efforts, with a rating from 1 (least burn probability) to 10 (highest burn probability). Of the total

area in Geneva County, 92.2 percent is rated either 1, 2 or 3. Given the relatively low burn probability but the high percentage of the population living in the WUI, the probability for future wildfire occurrences would be regarded as Medium.

#### ***Historical Occurrences.***

There are no recorded occurrences of wildfire for Henry County on the National Centers for Environmental Information Storm Events Database. The Alabama Forestry Commission has records of wildfires dating back to 2007. Between 2007 and 2020, Henry County experienced 217 wildfires with 1,370.60 acres burned, which equates to 15.8 acres per fire. These fires are listed in Table 4.112. Henry County's largest fire occurred in April 2011 with 189 acres burned. By far, the great majority of the wildfires in Henry County are small burning less than 10 acres.

**Table 4.112: Wildfire Occurrences 100 Acres or more in Henry County, 2007 to 2020**

Fire #	County	Acres	Reported On	Contained On	Controlled On
SER-20110423-003	Henry	189.00	4/23/2011 2:55:00 PM		4/23/2011 10:02:00 PM
SER-20110321-005	Henry	107.00	3/21/2011 3:54:00 PM		3/21/2011 6:43:00 PM
SER-20090310-002	Henry	109.00	3/10/2009 3:43:00 PM		3/10/2009 5:53:00 PM

#### ***Probability of Future Occurrences.***

The Henry County Fire Risk Assessment Report, compiled by the Southern Group of State Foresters Wildfire Risk Assessment Portal (SWRAP), includes data for Burn Probability (BP). Burn Probability depicts the probability of an area burning given current landscape conditions, percentile weather, historical ignition patterns and historical fire prevention and suppression efforts, with a rating from 1 (least burn probability) to 10 (highest burn probability). Of the total area in Henry County, 100 percent is rated either 1, 2, 3, 4 or 5. Given the relatively low burn probability but the high percentage of the population living in the WUI, the probability for future wildfire occurrences would be regarded as low-moderate.

#### ***Historical Occurrences.***

There are no recorded occurrences of wildfire for Houston County on the National Centers for Environmental Information Storm Events Database. The Alabama Forestry Commission has records of wildfires dating back to 2007. Between 2007 and 2020, Houston County experienced 204 wildfires with 1,318.90 acres burned, which equates to 6.46 acres per fire. These fires are listed in Table 4.113. Houston County's largest fire occurred in July 2017 with 105 acres burned. By far, the great majority of the wildfires in Houston County are small burning less than 10 acres.

**Table 4.113: Wildfire Occurrences 100 Acres or more in Houston County, 2007 to 2020**

Fire#	County	Acres	Reported On	Controlled On
20170422-9	Houston	151.50	4/22/2017 5:04:48 PM	4/25/2017

SER-20110423-003	Houston	189.00	4/23/2011 2:55:00 PM	4/23/2011
SER-20110321-005	Houston	107.00	3/21/2011 3:54:00 PM	3/21/2011

***Probability of Future Occurrences.***

The Houston County Fire Risk Assessment Report, compiled by the Southern Group of State Foresters Wildfire Risk Assessment Portal (SWRAP), includes data for Burn Probability (BP). Burn Probability depicts the probability of an area burning given current landscape conditions, percentile weather, historical ignition patterns and historical fire prevention and suppression efforts, with a rating from 1 (least burn probability) to 10 (highest burn probability). Of the total area in Houston County, 91.2 percent is rated either 1, 2, 3, 4, or 5. Given the relatively low burn probability but the high percentage of the population living in the WUI, the probability for future wildfire occurrences would be regarded as Medium.

***Historical Occurrences.***

The Alabama Forestry Commission has records of wildfires dating back to 2007. Between 2007 and 2020, Butler County experienced 536 wildfires with 3,952.85 acres burned, which equates to 7.37 acres per fire.

**Table 4.114: Wildfire Occurrences 100 Acres or more in Pike County, 2007 to 2020**

Fire #	Acres	Reported On	Contained On	Controlled On
20170322-28	133	3/22/2017 18:14	3/23/2017 1:52	3/23/2017 14:01
SER-20120318-004	194	3/18/2012 16:46		3/18/2012 22:31
SER-20110215-007	114	2/15/2011 14:59		2/15/2011 20:00

Source: Alabama Forestry Commission. <https://forestry.alabama.gov/Pages/Fire/Totals.aspx>

***Probability of Future Occurrences.***

The Butler County Fire Risk Assessment Report, compiled by the Southern Group of State Foresters Wildfire Risk Assessment Portal (SWRAP), includes data for Burn Probability (BP). Burn Probability depicts the probability of an area burning given current landscape conditions, percentile weather, historical ignition patterns and historical fire prevention and suppression efforts, with a rating from 1 (least burn probability) to 10 (highest burn probability).

Of the total area in Butler County, 92.2 percent is in the Burn Probability Class 1, 2 or 3. Given the relatively low burn probability but the high percentage of the population living in the WUI, the probability for future wildfire occurrences for all jurisdictions in Butler County would be regarded as Medium.

Of the total area in Crenshaw County, 85.5 percent is in the Burn Probability Class 1, 2 or 3. Given the relatively low burn probability but the high percentage of the population living in the WUI, the probability for future wildfire occurrences for all jurisdictions in Crenshaw County would be regarded as Medium.

Of the total area in Pike County, 79.1 percent is in the Burn Probability Class 1, 2 or 3; 18.2 percent is in Class 4 and 2.7 percent is in Class 5. Given the relatively low burn probability but the high

percentage of the population living in the WUI, the probability for future wildfire occurrences for all jurisdictions in Pike County would be regarded as Medium.

## **WINTER / ICE STORMS**

### ***Description.***

As defined by FEMA, winter storms can range from a normal snow over a few hours to a blizzard with blinding, wind-driven snow that lasts for several days. Many winter storms bring dangerously low temperatures and sometimes, strong winds, icing, sleet, and freezing rain. One of the main concerns is that winter weather can knock out heat, power, and communication, sometimes for days at a time. Heavy snowfall and extreme cold can have serious effects on an entire region. Icy roadways can cause serious accidents, and sometimes people die from being in cold temperatures for too long.

Winter storms, due to climatic and temperature conditions in central Alabama have been very limited with negligible damage. The primary issues have been power outages, downed power lines and travel limitations on roads and bridges. Most of these events impact both incorporated municipalities and unincorporated Butler, Crenshaw and Pike Counties. Winter storms in the AEMA Division B region are generally not characteristic of a typical winter storm. In other locations, winter storms may be accompanied by dangerously low temperatures and sometimes by strong winds, icing, sleet, and freezing rain. In the mild climate of central Alabama, a winter storm in AEMA Division B region would most often be primarily icing, sleet and freezing rain sometimes accompanied by minimal snowfall.

### ***Locations.***

When they do occur, winter storms are not isolated to small areas of the county. Instead, all of the county and the surrounding region has been affected by winter storms in the past. Of the 18 winter/ice storms that have occurred in Butler, Crenshaw and Pike Counties, all events were countywide events and not isolated to any one part of the county.

### ***Extent.***

Although a winter or ice storm is not a frequent occurrence in Butler, Crenshaw or Pike County, the impact of even a small winter storm can be hugely significant due to the lack of equipment and other resources to handle those conditions. Additionally, winter storms can cause power and communication outages, resulting in loss of heat and closing of businesses. Further, the agricultural economy of the counties cannot withstand the extreme temperatures and freezing conditions without financial loss. So, while Butler, Crenshaw and Pike Counties are not highly susceptible to frequent winter or ice storms, the counties and their residents are very vulnerable when these events occur.

### ***Historical Occurrences.***

According to the National Centers for Environmental Information storm event data, Barbour County has experienced two winter/ice storm events, but there is no reported death, injury, or property or crop damage, as shown in Table 4.115. Each of these storms, included one to two inches of sleet. The most significant impacts would be closure of most normal operations, travel restrictions and road closures, and power outages



**Table 4.115 Barbour County Winter Storm Events, 2000 to 2020**

Location	Date	Type of Event	Mag	Death	Injuries	Property Damage	Crop Damage
Countywide	1/9/2011	Ice Storm	0	0	0	0	0
Countywide	1/28/2014	Winter Weather	0	0	0	0	0
Total Winter Storm Events		2 Events	0	0	0	0	0

***Historical Occurrences.***

According to the National Centers for Environmental Information storm event data, Coffee County has experienced one winter/ice storm event, recording property damages of \$200,000. However this events produced no deaths or injuries, as shown in Table 4.116 This storm produced mostly sleet and wintry mix precipitation. The most significant impacts would be closure of most normal operations, travel restrictions and road closures, and power outages.

**Table 4.116 Covington County Winter Storm Events, 2000 to 2020**

Location	Date	Event Type	Mag	Death	Injuries	Property Damage	Crop Damage
Countywide	1/28/2014	Winter Weather	0	0	0	\$200,00	0
Total Winter Storm Events		1 Event	0	0	0	\$200,000	0

***Historical Occurrences.***

According to the National Centers for Environmental Information storm event data, Covington County has experienced nine winter/ice storm events causing no property damage, no reported death, injury, or crop damage, as shown in Table 4.117 The most significant impacts would be closure of most normal operations, travel restrictions and road closures, and power outages.

**Table 4.117 Covington County Winter Storm Events, 2000 to 2020**

Location	Date	Event Type	Mag	Deaths	Injuries	Property Damage	Crop Damage
Countywide	1/2/2002	Winter Storm		0	0	\$0	\$0
Countywide	2/12/2010	Winter Storm		0	0	\$0	\$0
Countywide	2/12/2010	Winter Storm		0	0	\$0	\$0
Countywide	2/12/2010	Winter Storm		0	0	\$0	\$0
Countywide	2/12/2010	Winter Storm		0	0	\$0	\$0
Countywide	2/12/2010	Winter Storm		0	0	\$0	\$0

Countywide	2/12/2010	Winter Storm		0	0	\$0	\$0
Countywide	12/8/2017	Winter Weather		0	0	\$0	\$0
Countywide	1/16/2018	Winter Weather		0	0	\$0	\$0
Total Winter Storm Events		9 Events		0	0	\$200,000	\$0

#### ***Historical Occurrences.***

According to the National Centers for Environmental Information storm event data, Dale County has experienced two winter/ice storm events, but there is no reported death or injury. These events caused \$200,000 of property damage with no crop damage, as shown in Table 4.118 Each of these storms, included one to two inches of sleet. The most significant impacts would be closure of most normal operations, travel restrictions and road closures, and power outage

**Table 4.118 Dale County Winter Storm Events, 2000 to 2020**

Location	Date	Event Type	Mag	Death	Injuries	Property Damage	Crop Damage
Countywide	1/28/2014	Winter Storm	0	0	0	\$200,000	\$0
Countywide	1/17/2018	Winter Weather	0	0	0	\$0	\$0
Total Winter Storm Events		2 Events	0	0	0	\$200,000	\$0

#### ***Historical Occurrences.***

According to the National Centers for Environmental Information storm event data, Geneva County has experienced two winter/ice storm events causing \$20,000 in property damage, but there is no reported death, injury, or crop damage, as shown in Table 4.119 The most significant impacts would be closure of most normal operations, travel restrictions and road closures, and power outages

**Table 4.119 Geneva County Winter Storm Events, 2000 to 2020**

Location	Date	Event Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Countywide	1/28/2014	Winter Storm		0	0	\$20,000	\$0
Countywide	1/17/2018	Winter Weather		0	0	\$0	\$0
Total Winter Storm Events		2 Events		0	0	\$20,000	\$0

#### ***Historical Occurrences.***

According to the National Centers for Environmental Information storm event data, Houston County has experienced two winter/ice storm events causing \$200,000 in property damage, but there is no reported death, injury, or crop damage, as shown in Table 4.120 The most significant impacts would be closure of most normal operations, travel restrictions and road closures, and power outages.

**Table 4.120 Houston County Winter Storm Events, 2000 to 2020**

Location	Date	Event Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Countywide	1/28/2014	Winter Storm		0	0	\$200,000	\$0
Countywide	1/17/2018	Winter Weather		0	0	\$0	\$0
Total Winter Storm Events		2 Events		0	0	\$200,000	\$0

***Historical Occurrences.***

According to the National Centers for Environmental Information storm event data, Henry County has experienced two winter/ice storm events causing \$200,000 in property damage, but there is no reported death, injury, or crop damage, as shown in Table 4.121 The most significant impacts would be closure of most normal operations, travel restrictions and road closures, and power outages.

**Table 4.121 Henry County Winter Storm Events, 2000 to 2020**

Location	Date	Event Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Countywide	1/28/2014	Winter Storm		0	0	\$200,000	\$0
Countywide	1/17/2018	Winter Weather		0	0	\$0	\$0
Total Winter Storm Events		2 Events		0	0	\$200,000	\$0

***Historical Occurrences.***

According to the National Centers for Environmental Information storm event data, Butler County has experienced four winter/ice storm events, Crenshaw County experienced six winter/ice storm events, and Pike County experienced seven winter/ice storm events in the last 20 years. There have been no reported deaths, injuries, or property or crop damage, as shown in Table 4.122 through Table 4.124 Each of these storms, however, brought one to three inches of snow along with icy conditions. The most significant impacts would be closure of most normal operations, travel restrictions and road closures, and power outages.

**Table 4.122: Butler County Winter Storm Events, 2000 to 2020**

Location	Date	Event Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Countywide	1/2/2002	Winter Storm		0	0	0	0
Countywide	2/12/2010	Winter Storm		0	0	0	0
Countywide	12/8/2017	Winter Weather		0	0	0	0
Countywide	1/17/2018	Winter Storm		0	0	0	0
Total Winter Storm Events		5 Events		0	0	0	0

**Table 4.123: Crenshaw County Winter Storm Events, 2000 to 2020**

Location	Date	Event Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Countywide	1/27/2000	Sleet		0	0	\$0	\$0
Countywide	1/2/2002	Winter Storm		0	0	\$0	\$0
Countywide	2/12/2010	Winter Storm		0	0	\$0	\$0
Countywide	1/28/2014	Sleet		0	0	\$0	\$0
Countywide	1/16/2018	Winter Storm		0	0	\$0	\$0
Countywide	12/8/2017	Winter Weather		0	0	\$0	\$0
Total Winter Storm Events		6 Events		0	0	\$0	\$0

**Table 4.124: Pike County Winter Storm Events, 2000 to 2020**

Location	Date	Event Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Countywide	1/2/2002	Heavy Snow		0	0	\$0	\$0
Countywide	1/24/2003	Extreme Cold/Wind Chill		0	0	\$0	\$0
Countywide	2/12/2010	Heavy Snow		0	0	\$0	\$0
Countywide	12/15/2010	Winter Weather		0	0	\$0	\$0
Countywide	1/9/2011	Ice Storm		0	0	\$0	\$0
Countywide	1/6/2014	Cold/Wind Chill		0	0	\$0	\$0
Countywide	1/28/2014	Winter Weather		0	0	\$0	\$0
Total Winter Storm Events		7 Events		0	0	\$0	\$0

***Probability of Future Occurrences.***

Due to the infrequency of winter storm occurrences in the planning area and their short duration of effects, there is a Low probability for major damage caused by a winter storm for all jurisdictions in Division B counties.

**4.3 TECHNOLOGICAL, HUMAN-CAUSED HAZARDS, AND PANDEMICS**

AEMA Division B has susceptibility to technological and human-caused hazards. General discussions of hazards that may affect the planning area are described in the subsections below.

**Structure Fire**

Prevention and control are requirements in the building codes and zoning ordinances in many jurisdictions. The most vulnerable structures to fire other than wildfires would likely be those in commercial districts of each jurisdiction. This is primarily due to the close proximity of the structures in these areas. The larger jurisdictions in the planning area are generally well-equipped to deal with structure fires that occur in their areas. Rural jurisdictions are primarily served by volunteer fire departments that are continuing to improve the service to their community and have varying ISO ratings and are utilizing funds provided by local legislation, FEMA grants, as well as a variety of other resources.



## **Hazardous Materials**

There are several areas within the planning area with many industries and commercial businesses. Many of these businesses and industries handle various types and quantities of hazardous materials. Hazardous materials are an ongoing potential hazard due to the large amount of materials being transported throughout the region. Areas near railroad tracks, especially the CSX line that bisects the planning area, are particularly vulnerable to hazardous material incidents because of the shipping of hazardous materials through the commercial and residential districts. A rail accident with hazardous materials would be catastrophic in regard to loss of life and property damage. There would be little to no time to evacuate the endangered area. Most jurisdictions have a warning network that quickly notifies the public and gives them time to evacuate or escape a rapidly developing incident. Hazardous materials are tracked through Local Emergency Planning Committees and information is disseminated to local first responders.

## **Terrorism**

FEMA classifies terrorism as using illegal force or violence against persons or property for purposes of intimidation or ransom. Groups that are both domestic and foreign in nature, with differing political or religious views may aim for terrorism tactics. The threat of terrorism places certain facilities in greater risk, including government facilities, high profile areas, and utility infrastructure. Different types of terror acts are described below.

**Biological or Chemical Attack:** Liquid or other contaminants that can be dispersed to cause casualties and negative psychological impact.

**Conventional Attack:** Active shooter type of situation that is normally an individual or small group that create havoc in a particular area for different means.

**Cyber Attack:** Normally used to gain information or negatively affect operations due to intrusion into computer systems.

**Hostage Situation:** Holding people against their will in order to achieve demands, which can be on the realm from international political situations to local domestic situations.

State and local agencies regularly conduct exercises and plan for this potential to incorporate Emergency Service Functions and the State, Federal Emergency Response Plan, and the National Incident Command System. Many local utilities have undertaken a risk assessment of their water system and sewer facilities to determine if any additional security measures are needed for implementation of those mitigating features.

## **Radiological**

The Joseph M. Farley Nuclear Plant (FNPP) is located in Houston County 18 miles east of Dothan, near Gordon. The plant began operation in December 1977. Nuclear power plants will rarely experience incidents involving the possibility of releases of radioactive materials. These incidents may occur at any time with varying degrees of seriousness. The release of radioactive material from Plant Farley could affect the populace within a 10-mile radius and food ingestion within a 50-mile radius of FNPP. The most severe circumstances at Plant Farley could possibly require selective or general evacuation out of the Plume Exposure Pathway. Houston County has over 8,000 people that live in the 10-mile Emergency Planning Zone (EPZ). Of that, slightly over one percent (1%) are special needs population. The jurisdictions that are in the EPZ are Ashford, Gordon, Webb, Columbia, and a great portion of east side of unincorporated Houston County. Henry County is also involved in the planning process, as Farley could affect southeastern portions of its area. Each level of government (local, county, state, and federal) is responsible for the safety

and welfare of the populace to the extent of its capabilities. Therefore, pre-disaster mitigation planning is an ongoing process by all government agencies, and Southern Nuclear Operating Co. Two exercises are conducted each year by all agencies, with a FEMA graded exercise every other year. Training sessions to meet objectives are conducted throughout the year for all agencies. Plant Farley is considered a high-risk target. However, as discussed, planning and preparation is complete, and evaluated on a daily, monthly, and yearly basis.

### **Pandemics**

Although it is not considered a natural disaster, the COVID-19 pandemic event of 2020 has triggered two federal disaster declarations in Alabama. On March 13, 2020, President Trump declared a nationwide emergency pursuant to Section 501(b) of the Stafford Act (EM-3472) to avoid the need for individual governor requests. On April 30, 2020, the State of Alabama received the FEMA-4503-DR disaster declaration that covered the entire state in response to COVID-19. Alabama received \$3.5 million from FEMA's Emergency Food and Shelter Program (EFSP) to help residents experiencing hunger and homelessness. Alabama jurisdictions also received \$1,290,136 for Fiscal Year 2019 and \$2,293,626 from the Coronavirus Aid, Relief and Economic Security (CARES) Act to supplement local organizations that offer a variety of assistance including meals, groceries, food boxes, residential shelters, and rent and/or utility assistance.

Pandemics of the magnitude of COVID-19 are crippling events. Not only do they affect the physical health and emotional well-being of the population, they can have a disastrous effect on the continued operations of critical facilities and economy of an area. Further, the impact of a pandemic event can hinder the ability to provide emergency response by limiting the number of responders available due to infection and limiting the proximity of response.

All of the jurisdictions in the AEMA Division B area were just as susceptible and unprepared for the impact of the COVID-19 pandemic as the rest of the state and nation. Since the onset of the pandemic, critical facility operations and industries have instituted virtual communications, social distancing, and sanitation protocols. These protocols have slowly enabled the regular operation and provision of services, albeit in a manner that is often different than pre-pandemic conditions.

## Section 4 Hazard Profiles and Risk Assessment – Region B

### Section Contents

- 4.1 Hazard Overview
- 4.2 Hazard Profiles
- 4.3 Technological and Human-Caused Hazards
- 4.4 Vulnerability Overview
- 4.5 Probability of Future Occurrence and Loss Estimation
- 4.6 Total Population and Property Valuation Summary by Jurisdiction
- 4.7 Critical Facilities/Infrastructure by Jurisdiction
- 4.8 Hazard Impacts

### Data Sources Per Hazard\*

Agency/Organization	DF	DR/EH	EQ	FL	HW	LS	SU	WF	WS
ADECA-OWR	X	X		X					
AFC								X	
ASCE	X								
ASCE/SEI					X				
ASDSO	X								
Climate Central								X	
Climate Impact Lab									
FEMA	X	X	X	X	X	X	X	X	X
Geological Survey of Alabama (GSA)			X			X			
NOAA, National Centers for Environmental Information		X		X	X				X
National Weather Service				X	X				X
Southern Wildfire Risk Assessment Portal (SWRAP)								X	
The Tornado History Project					X				
The Tornado and Storm Research Organization (TORRO)					X				
US Army Corps of Engineers	X								
US Geological Survey (USGS)			X			X	X		

\*Hazards are abbreviated as follows: Dam Failure (DF), Drought and Extreme Heat (DR/EH), Earthquakes (EQ), Flooding (FL), High Winds (HW), Landslides (LS), Sinkholes and Land Subsidence (SU), Wildfire (WF), Winter/Ice Storms (WS)

## 4.4 Vulnerability Overview

It should be noted that this version of the 2020 AEMA Division B Regional Hazard Mitigation Plan was unable to use FEMA's HAZUS-MH software to assist in the vulnerability assessment due to incompatibility with the GIS software used by SEARP&DC and SCADC. Both agencies intend to continue updating their GIS software in hopes of obtaining compatibility with the HAZUS program.

Table 4.124 provides criteria to assist in a qualitative assessment of the risk and potential impact of each identified hazard. Assigned risk levels were determined based on the hazard profiles developed earlier in this section. The classifications generated from this table assists in the prioritization of hazard risk by objectively looking at the possible scope of the applicable hazards. In order to quantify the risk classifications, varying degrees of risk factors (probability, impact, location extent, warning time, and duration) were assigned a value of "1" to "4" and weighted in order to create a total value with a maximum score of 4.0.

**Table 4.124: Risk Index for Hazards**

Category	Level	Criteria	Index Value	Weighted Factor
Probability	Very Low	Less than 1% annual probability	1	30%
	Low	Between 1% and 10% annual probability	2	
	Medium	Between 10% and 100% annual probability	3	
	High	100% annual probability	4	
Impact	Minor	Very few injuries, if any occur. Only minor property damage and minimal disruption of quality of life. Temporary shutdown of critical facilities	1	30%
	Limited	Minor injuries only. More than 10% of property in affected area damaged or destroyed. Complete shutdown of critical facilities for more than one day.	2	
	Critical	Multiple deaths/injuries possible. More than 25% of property in affected area damaged or destroyed. Complete shutdown of critical facilities for more than one week.	3	
	Catastrophic	High number of deaths/injuries possible. More than 50% of property in affected area damaged or destroyed. Complete shutdown of critical facilities for one month or more.	4	
Location Extent	Negligible	Less than 1% of area affected.	1	20%
	Small	Between 1% and 10% of area affected.	2	
	Moderate	Between 10% and 50% of area affected.	3	
	Large	Between 50% and 100% of area affected.	4	
Warning Time	More than 24 hours	Self-explanatory	1	10%
	12 to 24 hours	Self-explanatory	2	
	6 to 12 hours	Self-explanatory	3	
	Less than 6 hours	Self-explanatory	4	
Duration	Less than 6 hours	Self-explanatory	1	10%
	Less than 24 hours	Self-explanatory	2	
	Less than one week	Self-explanatory	3	
	More than one week	Self-explanatory	4	



Table 4.125 through Table 4.134 assigns a quantitative risk impact assessment for each hazard, based on the hazard profiles created in this section and other input from plan stakeholders. The results were used in calculating the values for each hazard in order to prioritize the impacts of identified hazards in this plan.

Each jurisdiction in Barbour County was equally susceptible to each applicable natural hazard with the exception of the City of Eufaula. Flooding probability for Eufaula is rated as High due to the presence of Lake Eufaula within the corporate boundaries, as opposed to the Low probability rating assigned to the remainder of the county. Based on the results of the hazard assessment summary, the highest priority hazards for Barbour County are Flooding for Eufaula, High Winds-Tornadoes, and Drought and Extreme Heat. It should be noted that this assessment is a categorization of most likely factors for each hazard.

**Table 4.125: Summary of Regional Hazards Risk Impact – Barbour County**

Barbour County Natural Hazard Priority Status	Probability		Impact		Location Extent		Warning Time		Duration		Weighted Score	Weighted Priority Ranking
	Index Value 1 to 4	Weighted Factor 30%	Index Value	Weighted Factor 30%	Index Value	Weighted Factor 20%	Index Value	Weighted Factor 10%	Index Value	Weighted Factor 10%		
Dam Failure	2	0.3	1	0.8	1	0.2	2	0.2	1	0.1	1.4	10
Drought/ Extreme Heat	3	0.9	4	1.2	4	0.9	1	0.1	4	0.4	3.25	3
Earthquake	0.5	0.15	0.5	0.15	0.5	0.1	4	0.4	1	0.1	0.9	14
Flooding – All of Butler County except Eufaula	4	1.2	4	1.2	2	0.4	3	0.3	3	0.3	3.4	1
Flooding – City of Eufaula	4	0.3	1	0.3	1	0.2	3	0.3	2	0.2	1.3	11/12 /13
High Winds - Hail	3	.9	1	0.3	1	0.2	4	0.4	1	0.1	2.2	8/9
High Winds - Thunderstorms	4	1.1	1	0.3	2	0.4	4	0.4	1	0.1	2.4	6/7
High Winds - Lightning	4	1.2	1	0.3	1	0.2	4	0.4	1	0.1	2.2	8/9
High Winds - Tornados	4	1.2	4	1.2	2	0.4	4	0.4	1	0.1	3.3	2
High Winds - Hurricanes	3	0.9	4	1.2	4	0.8	1	0.1	2	0.2	3.2	4
Land Subsidence	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	11/12 /13
Landslides	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	11/12 /13
Wildfire	3	1.1	2	0.6	2	0.4	4	0.4	3	0.3	2.6	5
Winter Storms	1	0.3	3	0.9	4	0.8	1	0.1	3	0.3	2.4	6/7

Each jurisdiction in Butler County was equally susceptible to each applicable natural hazard with the exception of Town of McKenzie. Flooding probability for McKenzie is rated as Low due to the lack of flood plain areas within the corporate boundaries, as opposed to the High probability rating assigned to the remainder of the county. Based on the results of the hazard assessment summary, the highest priority hazards for Butler County are Flooding for all of Butler County except McKenzie (3.4 Score), High Winds-Tornadoes (3.3 Score), and Drought and Extreme Heat (3.25 Score). It should be noted that this assessment is just a categorization of most likely factors for each hazard.

**Table 4.126: Summary of Regional Hazards Risk Impact – Butler County**

Butler County Natural Hazard Priority Status	Probability		Impact		Location Extent		Warning Time		Duration		Weighted Score	Weighted Priority Ranking
	Index Value	Weighted Factor 30%	Index Value	Weighted Factor 30%	Index Value	Weighted Factor 20%	Index Value	Weighted Factor 10%	Index Value	Weighted Factor 10%		
Dam Failure	1	0.3	2	0.6	1	0.2	2	0.2	1	0.1	1.4	10
Drought/ Extreme Heat	2.5	0.75	4	1.2	4	0.8	1	0.1	4	0.4	3.25	3
Earthquake	0.5	0.15	0.5	0.15	0.5	0.1	4	0.4	1	0.1	0.9	14
Flooding – All of Butler County except McKenzie	4	1.2	4	1.2	2	0.4	3	0.3	3	0.3	3.4	1
Flooding – Town of McKenzie	1	0.3	1	0.3	1	0.2	3	0.3	2	0.2	1.3	11/12 /13
High Winds - Hail	4	1.2	1	0.3	1	0.2	4	0.4	1	0.1	2.2	8/9
High Winds - Thunderstorms	4	1.2	1	0.3	2	0.4	4	0.4	1	0.1	2.4	6/7
High Winds - Lightning	4	1.2	1	0.3	1	0.2	4	0.4	1	0.1	2.2	8/9
High Winds - Tornados	4	1.2	4	1.2	2	0.4	4	0.4	1	0.1	3.3	2
High Winds - Hurricanes	3	0.9	4	1.2	4	0.8	1	0.1	2	0.2	3.2	4
Land Subsidence	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	11/12 /13
Landslides	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	11/12 /13
Wildfire	3	0.9	2	0.6	2	0.4	4	0.4	3	0.3	2.6	5
Winter Storms	1	0.3	3	0.9	4	0.8	1	0.1	3	0.3	2.4	6/7

Each jurisdiction in Coffee County was equally susceptible to each applicable natural hazard with the exception of The City of Elba. Flooding probability for Elba is rated as High due to the presence and proximity of the Pea River and White Water Creek. The remainder of Coffee County is rated as Moderate risk based on proximity to various creeks and streams. Based on the results of the hazard assessment summary, the highest priority hazards for Coffee County are Drought / Heat and Tornadoes for all of Coffee County except Elba. It should be noted that this assessment is just a categorization of most likely factors for each hazard.

**Table 4.127: Summary of Regional Hazards Risk Impact – Coffee County**

Crenshaw County Natural Hazard Priority Status	Probability		Impact		Location Extent		Warning Time		Duration		Weighted Score	Weighted Priority Ranking
	Index Value 1 to 4	Weighted Factor 30%	Index Value 1 to 4	Weighted Factor 30%	Index Value 1 to 4	Weighted Factor 20%	Index Value 1 to 4	Weighted Factor 10%	Index Value 1 to 4	Weighted Factor 10%		
Dam Failure	1	0.3	2	0.6	1	0.2	2	0.2	1	0.1	1.4	10
Drought/ Extreme Heat	2.5	0.75	3	0.9	4	0.8	1	0.1	4	0.4	2.9 5	4
Earthquake	0.5	0.15	0.5	0.15	0.5	0.1	4	0.4	1	0.1	0.9	13
Flooding County	2	.30	.30	.30	2	1	3	0.3	1	0.1	1.0	8
Flooding (Elba)	4	1.2	4	1.2	2	0.4	3	0.3	3	0.3	3.4	1
High Winds - Hail	4	1.2	1	0.3	1	0.2	3	0.3	1	0.1	2.1	8/9
High Winds - Thunderstorms	4	1.2	2	0.6	2	0.4	4	0.4	1	0.1	2.7	6
High Winds - Lightning	4	1.2	1	0.3	1	0.2	3	0.3	1	0.1	2.1	8/9
High Winds - Tornados	4	1.2	4	1.2	2	0.4	4	0.4	1	0.1	3.3	2
High Winds - Hurricanes	3	0.9	4	1.2	4	0.8	1	0.1	2	0.2	3.2	3
Land Subsidence	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	11/12
Landslides	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	11/12
Wildfire	2.5	0.75	2	0.6	2	0.4	4	0.4	3	0.3	2.4 5	7
Winter Storms	2.5	0.75	3	0.9	4	0.8	1	0.1	3	0.3	2.8 5	5

Each jurisdiction in Covington County was equally susceptible to each applicable natural hazard. Flooding probability for Covington is rated as Moderate due to the lack of flood plain areas within the corporate boundaries, as opposed to the High probability rating assigned to the remainder of the county. Based on the results of the hazard assessment summary, the highest priority hazards for Covington County are Tornadoes, Drought / Heat for all of Covington County except High Winds-Tornadoes. It should be noted that this assessment is just a categorization of most likely factors for each hazard.

**Table 4.128: Summary of Regional Hazards Risk Impact – Covington County**

Pike County Natural Hazard Priority Status	Probability		Impact		Location Extent		Warning Time		Duration		Weighted Score	Weighted Priority Ranking
	Index Value	Weighted Factor 30%	Index Value	Weighted Factor 30%	Index Value	Weighted Factor 20%	Index Value	Weighted Factor 10%	Index Value	Weighted Factor 10%		
Dam Failure	1	0.3	2	0.6	1	0.2	2	0.2	1	0.1	1.4	10
Drought/ Extreme Heat	3	0.9	4	1.2	4	0.8	1	0.1	4	0.4	3.4	1/2
Earthquake	0.5	0.15	0.5	0.15	0.5	0.1	4	0.4	1	0.1	0.9	14
Flooding – All of Covington County,	4	1.2	4	1.2	2	0.4	3	0.3	3	0.3	3.4	1/2
High Winds - Hail	4	1.2	1	0.3	1	0.2	3	0.3	1	0.1	2.1	8/9
High Winds - Thunderstorms	4	1.2	1	0.3	2	0.4	4	0.4	1	0.1	2.4	7
High Winds - Lightning	4	1.2	1	0.3	1	0.2	3	0.3	1	0.1	2.1	8/9
High Winds - Tornados	4	1.2	4	1.2	2	0.4	4	0.4	1	0.1	3.3	3
High Winds - Hurricanes	3	0.9	4	1.2	4	0.8	1	0.1	2	0.2	3.2	4
Land Subsidence	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	11/12 /13
Landslides	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	11/12 /13
Wildfire	2.5	0.75	2	0.6	2	0.4	4	0.4	3	0.3	2.45	6
Winter Storms	2	0.6	3	0.9	4	0.8	1	0.1	3	0.3	2.7	5



Each jurisdiction in Crenshaw County was equally susceptible to each applicable natural hazard. Based on the results of the hazard assessment summary, the highest priority hazards for Crenshaw County are Flooding (3.4 Score), High Winds-Tornadoes (3.3 Score), and High Winds - Hurricanes (3.2 Score). Although the Towns of Petrey and Rutledge are not participants in the NFIP because of a lack of floodplains within the jurisdictional boundaries, there is enough past occurrences reported in both towns to warrant the high probability and impact ratings for a flood event. The Crenshaw County Planning Committee had considerable discussion over the impact of drought/extreme heat and thunderstorms. It was concluded that while high winds – thunderstorms caused considerable infrastructural damage due to falling trees over roadways and road erosion, the personal impact to health and safety was generally not imminent. It was also concluded that although drought and heat are fairly common, there remains a high incidence who are hospitalized each year due to complications with extreme heat. The impact values of both hazards were adjusted accordingly. It should be noted that this assessment is just a categorization of most likely factors for each hazard.

**Table 4.129: Summary of Regional Hazards Risk Impact – Crenshaw County**

Crenshaw County Natural Hazard Priority Status	Probability		Impact		Location Extent		Warning Time		Duration		Weighted Score	Weighted Priority Ranking
	Index Value	Weighted Factor 30%	Index Value	Weighted Factor 30%	Index Value	Weighted Factor 20%	Index Value	Weighted Factor 10%	Index Value	Weighted Factor 10%		
Dam Failure	1	0.3	2	0.6	1	0.2	2	0.2	1	0.1	1.4	10
Drought/ Extreme Heat	2.5	0.75	3	0.9	4	0.8	1	0.1	4	0.4	2.95	4
Earthquake	0.5	0.15	0.5	0.15	0.5	0.1	4	0.4	1	0.1	0.9	13
Flooding	4	1.2	4	1.2	2	0.4	3	0.3	3	0.3	3.4	1
High Winds - Hail	4	1.2	1	0.3	1	0.2	3	0.3	1	0.1	2.1	8/9
High Winds - Thunderstorms	4	1.2	2	0.6	2	0.4	4	0.4	1	0.1	2.7	6
High Winds - Lightning	4	1.2	1	0.3	1	0.2	3	0.3	1	0.1	2.1	8/9
High Winds - Tornados	4	1.2	4	1.2	2	0.4	4	0.4	1	0.1	3.3	2
High Winds - Hurricanes	3	0.9	4	1.2	4	0.8	1	0.1	2	0.2	3.2	3
Land Subsidence	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	11/12
Landslides	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	11/12
Wildfire	2.5	0.75	2	0.6	2	0.4	4	0.4	3	0.3	2.45	7
Winter Storms	2.5	0.75	3	0.9	4	0.8	1	0.1	3	0.3	2.85	5

Each jurisdiction in Dale County was equally susceptible to each applicable natural hazard. Flooding probability for Dale County is varied because of the location of the Choctawhatchee River near Newton and Clayhatchee. Based on the results of the hazard assessment summary, the highest priority hazards for Dale County are Flooding, High Winds-Tornadoes (3.3 Score), and Drought and Extreme Heat. It should be noted that this assessment is just a categorization of most likely factors for each hazard.

**Table 4.130: Summary of Regional Hazards Risk Impact – Dale County**

Dale County Natural Hazard Priority Status	Probability		Impact		Location Extent		Warning Time		Duration		Weighted Score	Weighted Priority Ranking
	Index Value	Weighted Factor 30%	Index Value	Weighted Factor 30%	Index Value	Weighted Factor 20%	Index Value	Weighted Factor 10%	Index Value	Weighted Factor 10%		
Dam Failure	1	0.3	2	0.6	1	0.2	2	0.2	1	0.1	1.4	10
Drought/ Extreme Heat	2.5	0.75	3	0.9	4	0.8	1	0.1	4	0.4	2.95	4
Earthquake	0.5	0.15	0.5	0.15	0.5	0.1	4	0.4	1	0.1	0.9	13
Flooding	4	1.2	4	1.2	2	0.4	3	0.3	3	0.3	3.4	1
High Winds - Hail	4	1.2	1	0.3	1	0.2	3	0.3	1	0.1	2.1	8/9
High Winds - Thunderstorms	4	1.2	2	0.6	2	0.4	4	0.4	1	0.1	2.7	6
High Winds - Lightning	4	1.2	1	0.3	1	0.2	3	0.3	1	0.1	2.1	8/9
High Winds - Tornados	4	1.2	4	1.2	2	0.4	4	0.4	1	0.1	3.3	2
High Winds - Hurricanes	3	0.9	4	1.2	4	0.8	1	0.1	2	0.2	3.2	3
Land Subsidence	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	11/12
Landslides	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	11/12
Wildfire	2.5	0.75	2	0.6	2	0.4	4	0.4	3	0.3	2.45	7
Winter Storms	2.5	0.75	3	0.9	4	0.8	1	0.1	3	0.3	2.85	5

Each jurisdiction in Geneva County was equally susceptible to each applicable natural hazard with the exception of the City of Geneva. Flooding probability for the City of Geneva is rated as High due to the flood plain areas within the corporate boundaries, as opposed to the Medium probability rating assigned to the remainder of the county. Based on the results of the hazard assessment summary, the two highest priority hazards for Geneva County are Flooding for all of Geneva County and Drought/ Extreme Heat. Flooding and drought/extreme heat are followed by High Winds-Tornadoes, and High Winds-Hurricanes. It should be noted that this assessment is just a categorization of most likely factors for each hazard.

**Table 4.131: Summary of Regional Hazards Risk Impact – Geneva County**

Geneva County Natural Hazard Priority Status	Probability		Impact		Location Extent		Warning Time		Duration		Weighted Score	Weighted Priority Ranking
	Index Value	Weighted Factor 30%	Index Value	Weighted Factor 30%	Index Value	Weighted Factor 20%	Index Value	Weighted Factor 10%	Index Value	Weighted Factor 10%		
Dam Failure	1	0.3	2	0.6	1	0.2	2	0.2	1	0.1	1.4	10
Drought/ Extreme Heat	3	0.9	4	1.2	4	0.8	1	0.1	4	0.4	3.4	1/2
Earthquake	0.5	0.15	0.5	0.15	0.5	0.1	4	0.4	1	0.1	0.9	14
Flooding – All of Geneva County,	4	1.2	4	1.2	2	0.4	3	0.3	3	0.3	3.4	1/2
Flooding – City of Geneva	1	0.3	1	0.3	1	0.2	3	0.3	2	0.2	1.3	11/12 /13
High Winds - Hail	4	1.2	1	0.3	1	0.2	3	0.3	1	0.1	2.1	8/9
High Winds - Thunderstorms	4	1.2	1	0.3	2	0.4	4	0.4	1	0.1	2.4	7
High Winds - Lightning	4	1.2	1	0.3	1	0.2	3	0.3	1	0.1	2.1	8/9
High Winds - Tornados	4	1.2	4	1.2	2	0.4	4	0.4	1	0.1	3.3	3
High Winds - Hurricanes	3	0.9	4	1.2	4	0.8	1	0.1	2	0.2	3.2	4
Land Subsidence	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	11/12 /13
Landslides	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	11/12 /13
Wildfire	2.5	0.75	2	0.6	2	0.4	4	0.4	3	0.3	2.45	6
Winter Storms	2	0.6	3	0.9	4	0.8	1	0.1	3	0.3	2.7	5

Each jurisdiction in Henry County was equally susceptible to each applicable natural hazard. Based on the results of the hazard assessment summary, the two highest priority hazards for Henry County are Drought/ Extreme Heat (both with a 3.4 Score). Flooding and drought/extreme heat are followed by High Winds-Tornadoes (3.3 Score), and High Winds-Hurricanes (3.2 Score). It should be noted that this assessment is just a categorization of most likely factors for each hazard.

**Table 4.132: Summary of Regional Hazards Risk Impact – Henry County**

Henry County Natural Hazard Priority Status	Probability		Impact		Location Extent		Warning Time		Duration		Weighted Score	Weighted Priority Ranking
	Index Value	Weighted Factor 30%	Index Value	Weighted Factor 30%	Index Value	Weighted Factor 20%	Index Value	Weighted Factor 10%	Index Value	Weighted Factor 10%		
Dam Failure	1	0.3	2	0.6	1	0.2	2	0.2	1	0.1	1.4	10
Drought/ Extreme Heat	3	0.9	4	1.2	4	0.8	1	0.1	4	0.4	3.4	1/2
Earthquake	0.5	0.15	0.5	0.15	0.5	0.1	4	0.4	1	0.1	0.9	14
Flooding – All of Pike County, except Banks	4	1.2	4	1.2	2	0.4	3	0.3	3	0.3	3.4	1/2
Flooding – Town of Banks	1	0.3	1	0.3	1	0.2	3	0.3	2	0.2	1.3	11/12 /13
High Winds - Hail	4	1.2	1	0.3	1	0.2	3	0.3	1	0.1	2.1	8/9
High Winds - Thunderstorms	4	1.2	1	0.3	2	0.4	4	0.4	1	0.1	2.4	7
High Winds - Lightning	4	1.2	1	0.3	1	0.2	3	0.3	1	0.1	2.1	8/9
High Winds - Tornados	4	1.2	4	1.2	2	0.4	4	0.4	1	0.1	3.3	3
High Winds - Hurricanes	3	0.9	4	1.2	4	0.8	1	0.1	2	0.2	3.2	4
Land Subsidence	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	11/12 /13
Landslides	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	11/12 /13
Wildfire	2.5	0.75	2	0.6	2	0.4	4	0.4	3	0.3	2.45	6
Winter Storms	2	0.6	3	0.9	4	0.8	1	0.1	3	0.3	2.7	5



The Town of Columbia is the jurisdiction that is most susceptible to flooding in Houston County. Flooding probability for other areas in Houston County is rated as Moderate due to the lack of flood plain areas within the corporate boundaries, as opposed to the High probability rating assigned to the Town of Columbia. Based on the results of the hazard assessment summary, the two highest priority hazards for Houston County are Thunderstorms for all of Houston County and Drought/ Extreme Heat (both with a 3.4 Score). Flooding and drought/extreme heat are followed by High Winds-Tornadoes (3.3 Score), and High Winds-Hurricanes (3.2 Score). It should be noted that this assessment is just a categorization of most likely factors for each hazard.

**Table 4.133: Summary of Regional Hazards Risk Impact – Houston County**

Houston County Natural Hazard Priority Status	Probability		Impact		Location Extent		Warning Time		Duration		Weighted Score	Weighted Priority Ranking
	Index Value	Weighted Factor 30%	Index Value	Weighted Factor 30%	Index Value	Weighted Factor 20%	Index Value	Weighted Factor 10%	Index Value	Weighted Factor 10%		
Dam Failure	1	0.3	2	0.6	1	0.2	2	0.2	1	0.1	1.4	10
Drought/ Extreme Heat	3	0.9	4	1.2	4	0.8	1	0.1	4	0.4	3.4	1/2
Earthquake	0.5	0.15	0.5	0.15	0.5	0.1	4	0.4	1	0.1	0.9	14
Flooding – All of Pike County, except Banks	4	1.2	4	1.2	2	0.4	3	0.3	3	0.3	3.4	1/2
Flooding – Town of Banks	1	0.3	1	0.3	1	0.2	3	0.3	2	0.2	1.3	11/12 /13
High Winds - Hail	4	1.2	1	0.3	1	0.2	3	0.3	1	0.1	2.1	8/9
High Winds - Thunderstorms	4	1.2	1	0.3	2	0.4	4	0.4	1	0.1	2.4	7
High Winds - Lightning	4	1.2	1	0.3	1	0.2	3	0.3	1	0.1	2.1	8/9
High Winds - Tornados	4	1.2	4	1.2	2	0.4	4	0.4	1	0.1	3.3	3
High Winds - Hurricanes	3	0.9	4	1.2	4	0.8	1	0.1	2	0.2	3.2	4
Land Subsidence	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	11/12 /13
Landslides	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	11/12 /13
Wildfire	2.5	0.75	2	0.6	2	0.4	4	0.4	3	0.3	2.45	6
Winter Storms	2	0.6	3	0.9	4	0.8	1	0.1	3	0.3	2.7	5

Each jurisdiction in Pike County was equally susceptible to each applicable natural hazard with the exception of Town of Banks. Flooding probability for Banks is rated as Low due to the lack of flood plain areas within the corporate boundaries, as opposed to the High probability rating assigned to the remainder of the county, and the lack of reported flooding occurrences in Banks. Based on the results of the hazard assessment summary, the two highest priority hazards for Pike County are Flooding for all of Pike County except the Town of Banks and Drought/ Extreme Heat (both with a 3.4 Score). Flooding and drought/extreme heat are followed by High Winds-Tornadoes (3.3 Score), and High Winds-Hurricanes (3.2 Score). It should be noted that this assessment is just a categorization of most likely factors for each hazard.

**Table 4.134: Summary of Regional Hazards Risk Impact – Pike County**

Pike County Natural Hazard Priority Status	Probability		Impact		Location Extent		Warning Time		Duration		Weighted Score	Weighted Priority Ranking
	Index Value	Weighted Factor 30%	Index Value	Weighted Factor 30%	Index Value	Weighted Factor 20%	Index Value	Weighted Factor 10%	Index Value	Weighted Factor 10%		
Dam Failure	1	0.3	2	0.6	1	0.2	2	0.2	1	0.1	1.4	10
Drought/ Extreme Heat	3	0.9	4	1.2	4	0.8	1	0.1	4	0.4	3.4	1/2
Earthquake	0.5	0.15	0.5	0.15	0.5	0.1	4	0.4	1	0.1	0.9	14
Flooding – All of Pike County, except Banks	4	1.2	4	1.2	2	0.4	3	0.3	3	0.3	3.4	1/2
Flooding – Town of Banks	1	0.3	1	0.3	1	0.2	3	0.3	2	0.2	1.3	11/12 /13
High Winds - Hail	4	1.2	1	0.3	1	0.2	3	0.3	1	0.1	2.1	8/9
High Winds - Thunderstorms	4	1.2	1	0.3	2	0.4	4	0.4	1	0.1	2.4	7
High Winds - Lightning	4	1.2	1	0.3	1	0.2	3	0.3	1	0.1	2.1	8/9
High Winds - Tornados	4	1.2	4	1.2	2	0.4	4	0.4	1	0.1	3.3	3
High Winds - Hurricanes	3	0.9	4	1.2	4	0.8	1	0.1	2	0.2	3.2	4
Land Subsidence	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	11/12 /13
Landslides	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	11/12 /13
Wildfire	2.5	0.75	2	0.6	2	0.4	4	0.4	3	0.3	2.45	6
Winter Storms	2	0.6	3	0.9	4	0.8	1	0.1	3	0.3	2.7	5

## 4.5 Probability of Future Occurrences and Damage Estimates

Flooding is one of the most common hazards in the United States and has killed an average of 86 people a year nationwide over the last 30 years. Flooding incidences are increasing, however, as the Earth continues to warm causing more frequent heavy storm events. Since 2015, it is estimated that 100 people per year die in flooding events. Flooding is a problem in several counties of Division B such as Coffee County, Barbour County, Geneva County and portions of Covington County.

The frequency of future events and estimated damages for each jurisdiction is calculated in Table 4.135 through 4.144 for the top priority hazard categories. These frequency of future events and estimated damages were calculated from events recorded at different time periods, based on source data. There is no guarantee the recorded level of hazard events will continue into the future at the same rate.

Two formulas were used to determine (1) probability of future occurrences and (2) estimated damages, as shown below. The probability (%) that an identified hazard will occur on an annual basis was determined by dividing the number of reported events by the number of years in the reporting period. Estimated damages per event were calculated by dividing the total dollar damage past events have caused by the number of events in the reporting period. It should be noted that most of the reporting time periods are 20 years from January 2000 to May 2021. Data was not available for all hazard types, however, for that same time period. Therefore, the reporting time period for each of the nine types of hazards included in the future probability calculations is provided below.

Result	Formula
Probability of Future Occurrences	Number of reported events / Number of years in time frame = Probability of A Future Annual Event
Estimated Damages	Total damages for each reported event /Number of events = Damage Expectations Per Damaging Event

Hazard	Number of Years in Reporting Period
Drought / Extreme Heat	20 years
Flooding	20 years
High Winds - Hail	20 years
High Winds – Lightening	20 years
High Winds – Thunderstorms	20 years
High Winds - Tornados	20 years
Hurricanes	20 years
Wildfire	14 years
Winter Storms	20 years

**Table 4.135 Barbour County Probability and Anticipated Damages of Future Hazard Events**

Hazard by Jurisdiction	Number of Occurrences	Probability of a Future Annual Event	Total Past Damages	Damage Expectations Per Damaging Event
Barbour Countywide				
Drought / Extreme Heat	4	20.0%	\$0	\$0
Flooding	3	15.0%	\$10,000	\$3,333
High Winds - Hail	0	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	0	0.0%	\$0	\$0
High Winds - Tornados	0	0.0%	\$0	\$0
Hurricanes	2	10.0%	\$200,000	\$100,000
Wildfire	536	2680.0% 38.3 events/yr	Not Available	
Winter Storms	5	25.0%	\$0	\$0
Town of Baker Hill				
Drought / Extreme Heat	See Countywide			
Flooding	0	0.0%	\$0	\$0
High Winds - Hail	6	30.0%	\$0	\$0
High Winds – Lightning	2	10.0%	\$5,000	\$2,500
High Winds – Thunderstorms	4	20.0%	\$127,000	\$31,750
High Winds - Tornados	5	25.0%	\$178,000	\$35,600
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Town of Blue Springs				
Drought / Extreme Heat	See Countywide			
Flooding	4	20.0%	\$10,000	\$2,500
High Winds - Hail	8	40.0%	\$1,000	\$125
High Winds – Lightning	2	10.0%	\$5,000	\$2,500
High Winds – Thunderstorms	6	30.0%	\$396,000	\$66,000
High Winds - Tornados	1	5.0%	\$150,000	\$150,000
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
City of Clayton				
Drought / Extreme Heat	See Countywide			
Flooding	0	0.0%	\$0	\$0
High Winds - Hail	0	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	37	185.0% 1.6 events/yr	\$35,000	\$946
High Winds - Tornados	2	10.0%	\$108,000	\$54,000
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Town Clio				
Drought / Extreme Heat	See Countywide			
Flooding	0	0.0%	\$0	\$0
High Winds - Hail	6	30.0%	\$0	\$0
High Winds – Lightning	2	10.0%	\$5,000	\$2,500
High Winds – Thunderstorms	4	20.0%	\$127,000	\$31,750
High Winds - Tornados	5	25.0%	\$178,000	\$35,600
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
City of Eufaula				



Drought / Extreme Heat	See Countywide			
Flooding	0	0.0%	\$0	\$0
High Winds - Hail	6	30.0%	\$0	\$0
High Winds – Lightning	2	10.0%	\$5,000	\$2,500
High Winds – Thunderstorms	4	20.0%	\$127,000	\$31,750
High Winds - Tornados	5	25.0%	\$178,000	\$35,600
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Town of Louisville				
Drought / Extreme Heat	See Countywide			
Flooding	0	0.0%	\$0	\$0
High Winds - Hail	6	30.0%	\$0	\$0
High Winds – Lightning	2	10.0%	\$5,000	\$2,500
High Winds – Thunderstorms	4	20.0%	\$127,000	\$31,750
High Winds - Tornados	5	25.0%	\$178,000	\$35,600
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Unincorporated Barbour County				
Drought / Extreme Heat	See Countywide			
Flooding	3	15.0%	\$600,000	\$200,000
High Winds - Hail	8	40.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	14	70.0%	\$722,000	\$51,571
High Winds - Tornados	4	20.0%	\$125,000	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Barbour County Total				
Drought / Extreme Heat	4	20.0%	\$0	\$0
Flooding	10	50.0%	\$620,000	\$62,000
High Winds - Hail	22	110.0% 1.1 event/yr	\$1,000	\$45
High Winds – Lightning	4	20.0%	\$10,000	\$2,500
High Winds – Thunderstorms	61	305.0% 3.1 events/yr	\$1,280,000	\$20,984
High Winds - Tornados	12	60.0%	\$561,000	\$222,667
Hurricanes	2	10.0%	\$200,000	\$100,000
Wildfire	536	2680.0% 38.3 event/yr	Not Available	
Winter Storms	5	25.0%	\$0	\$0

**Table 4.136 Butler County Probability and Anticipated Damages of Future Hazard Events**

Hazard by Jurisdiction	Number of Occurrences	Probability of a Future Annual Event	Total Past Damages	Damage Expectations Per Damaging Event
Butler Countywide				
Drought / Extreme Heat		20.0%	\$0	\$0
Flooding		15.0%	\$10,000	\$3,333
High Winds - Hail		0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	0	0.0%	\$0	\$0
High Winds - Tornados	0	0.0%	\$0	\$0
Hurricanes	2	10.0%	\$200,000	\$100,000
Wildfire	536	2680.0% 38.3 events/yr	Not Available	
Winter Storms	5	25.0%	\$0	\$0
City of Georgiana				
Drought / Extreme Heat	See Countywide			
Flooding	0	0.0%	\$0	\$0
High Winds - Hail	6	30.0%	\$0	\$0
High Winds – Lightning	2	10.0%	\$5,000	\$2,500
High Winds – Thunderstorms	4	20.0%	\$127,000	\$31,750
High Winds - Tornados	5	25.0%	\$178,000	\$35,600
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
City of Greenville				
Drought / Extreme Heat	See Countywide			
Flooding	4	20.0%	\$10,000	\$2,500
High Winds - Hail	8	40.0%	\$1,000	\$125
High Winds – Lightning	2	10.0%	\$5,000	\$2,500
High Winds – Thunderstorms	6	30.0%	\$396,000	\$66,000
High Winds - Tornados	1	5.0%	\$150,000	\$150,000
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Town of McKenzie				
Drought / Extreme Heat	See Countywide			
Flooding	0	0.0%	\$0	\$0
High Winds - Hail	0	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	37	185.0% 1.6 events/yr	\$35,000	\$946
High Winds - Tornados	2	10.0%	\$108,000	\$54,000
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Unincorporated Butler County				
Drought / Extreme Heat	See Countywide			
Flooding	3	15.0%	\$600,000	\$200,000
High Winds - Hail	8	40.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	14	70.0%	\$722,000	\$51,571
High Winds - Tornados	4	20.0%	\$125,000	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Butler County Total				

Drought / Extreme Heat	4	20.0%	\$0	\$0
Flooding	10	50.0%	\$620,000	\$62,000
High Winds - Hail	22	110.0% 1.1 event/yr	\$1,000	\$45
High Winds – Lightening	4	20.0%	\$10,000	\$2,500
High Winds – Thunderstorms	61	305.0% 3.1 events/yr	\$1,280,000	\$20,984
High Winds - Tornados	12	60.0%	\$561,000	\$222,667
Hurricanes	2	10.0%	\$200,000	\$100,000
Wildfire	536	2680.0% 38.3 event/yr	Not Available	
Winter Storms	5	25.0%	\$0	\$0

**Table 4.137 Coffee County Probability and Anticipated Damages of Future Hazard Events**

Hazard by Jurisdiction	Number of Occurrences	Probability of a Future Annual Event	Total Past Damages	Damage Expectations Per Damaging Event
Coffee Countywide				
Drought / Extreme Heat	49	20.0%	\$0	\$0
Flooding	0	15.0%	\$0	\$0
High Winds - Hail	0	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	4	0.0%	\$341,000	\$0
High Winds - Tornados	0	0.0%	\$0	\$0
Hurricanes	6	10.0%	\$0	\$0
Wildfire	191	2680.0% 38.3 events/yr	Not Available	
Winter Storms	1	25.0%	\$200,000	\$0
City of Elba				
Drought / Extreme Heat	See Countywide			
Flooding	1	0.0%	\$0	\$0
High Winds - Hail	5	30.0%	\$0	\$0
High Winds – Lightning	0	10.0%	\$0	\$0
High Winds – Thunderstorms	26	20.0%	\$119,750	\$0
High Winds - Tornados	1	25.0%	\$350,000	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
City of Enterprise				
Drought / Extreme Heat	See Countywide			
Flooding	0	20.0%	\$0	\$0
High Winds - Hail	12	40.0%	\$50,000	\$0
High Winds – Lightning	0	10.0%	\$0	\$0
High Winds – Thunderstorms	42	30.0%	\$258,250	\$0
High Winds - Tornados	3	5.0%	\$254,000,000	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Town of Kinston				
Drought / Extreme Heat	See Countywide			
Flooding	0	20.0%	\$0	\$0
High Winds - Hail	3	40.0%	\$0	\$0
High Winds – Lightning	0	10.0%	\$0	\$0
High Winds – Thunderstorms	6	185.0%	\$105,500	\$0

		1.6 events/yr		
High Winds - Tornados	1	10.0%	\$5,000	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Town of New Brockton				
Drought / Extreme Heat	See Countywide			
Flooding	0	20.0%	\$0	\$0
High Winds - Hail	1	40.0%	\$0	\$0
High Winds – Lightning	0	10.0%	\$0	\$0
High Winds – Thunderstorms	8	30.0%	\$112,000	\$0
High Winds - Tornados	0	5.0%	\$0	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Unincorporated Coffee County				
Drought / Extreme Heat	See Countywide			
Flooding	6	15.0%	\$1,785,000	\$0
High Winds - Hail	8	40.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	149	70.0%	\$122,000	\$0
High Winds - Tornados	9	20.0%	\$346,000	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Coffee County Total				
Drought / Extreme Heat	49	20.0%	\$0	\$0
Flooding	7	50.0%	\$1,785,000	\$0
High Winds - Hail	27	110.0% 1.1 event/yr	\$50,000	\$0
High Winds – Lightning	0	20.0%	\$0	\$0
High Winds – Thunderstorms	231	305.0% 3.1 events/yr	\$1,841,750	\$0
High Winds - Tornados	14	60.0%	\$254,438,500	\$222,667
Hurricanes	6	10.0%	\$0	\$0
Wildfire	191	2680.0% 38.3 event/yr	Not Available	
Winter Storms	1	25.0%	\$200,000	\$0

**Table 4.138 Crenshaw County Probability and Anticipated Damages of Future Hazard Events**



Hazard by Jurisdiction	Number of Occurrences	Probability of a Future Annual Event	Total Past Damages	Damage Expectations Per Damaging Event
Crenshaw Countywide				
Drought / Extreme Heat	4	20.0%	\$0	\$0
Flooding	1	5.0%	\$10,000	\$10,000
High Winds - Hail	0	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	0	0.0%	\$0	\$0
High Winds - Tornados	0	0.0%	\$0	\$0
Hurricanes	2	10.0%	\$0	\$0
Wildfire	239	1,195.0% 17.1 events/yr	Not Available	
Winter Storms	6	30.0%	\$0	\$0
Town of Brantley				
Drought / Extreme Heat	See Countywide			
Flooding	1	5.0%	\$0	\$0
High Winds - Hail	1	5.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	18	90.0%	\$212,000	\$11,778
High Winds - Tornados	1	5.0%	\$0	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Town of Dozier				
Drought / Extreme Heat	See Countywide			
Flooding	0	0.0%	\$0	\$0
High Winds - Hail	2	10.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	6	30.0%	\$41,000	\$6,833
High Winds - Tornados	2	10.0%	\$15,000	\$7,500
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Town of Glenwood				
Drought / Extreme Heat	See Countywide			
Flooding	0	0.0%	\$0	\$0
High Winds - Hail	0	0.0%	\$0	0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	3	15.0%	\$18,000	\$6,000
High Winds - Tornados	0	0.0%	\$0	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
City of Luverne				
Drought / Extreme Heat	See Countywide			
Flooding	3	15.0%	\$0	\$0
High Winds - Hail	4	20.0%	\$4,000	\$1,000
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	18	90.0%	\$1,087,000	\$60,389
High Winds - Tornados	3	15.0%	\$2,000	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Town of Petrey				

Drought / Extreme Heat	See Countywide			
Flooding	1	5.0%	\$0	\$0
High Winds - Hail	0	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	0	0.0%	\$0	\$0
High Winds - Tornados	0	0.0%	\$0	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Town of Rutledge				
Drought / Extreme Heat	See Countywide			
Flooding	3	15.0%	\$30,000	\$10,000
High Winds - Hail	1	5.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	5	25.0%	\$22,000	\$4,400
High Winds - Tornados	0	0.0%	\$0	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Unincorporated Crenshaw County				
Drought / Extreme Heat	See Countywide			
Flooding	4	20.0%	\$135,000	\$33,750
High Winds - Hail	8	40.0%	\$13,000	\$1,625
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	33	165.0% 1.7 events/yr	\$181,000	\$5,485
High Winds - Tornados	10	50.0%	\$1,170,000	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Crenshaw County Total				
Drought / Extreme Heat	4	20.0%	\$0	\$0
Flooding	13	65.0%	\$175,000	\$13,462
High Winds - Hail	16	80.0%	\$17,000	\$1,063
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	83	415.0% 4.2 events/yr	\$1,561,000	\$18,807
High Winds - Tornados	16	80.0%	\$1,187,000	\$183,750
Hurricanes	2	10.0%	\$0	\$0
Wildfire	239	2390.0% 17.1 events/yr	Not Available	
Winter Storms	6	30.0%	\$0	\$0

**Table 4.139 Covington County Probability and Anticipated Damages of Future Hazard Events**

Hazard by Jurisdiction	Number of Occurrences	Probability of a Future Annual Event	Total Past Damages	Damage Expectations Per Damaging Event
<b>Covington Countywide</b>				
Drought / Extreme Heat	4	235.0% 2.6 events/yr	\$0	\$0
Flooding	1	5.0%	\$10,000	\$0
High Winds - Hail	0	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	0	30.0%	\$0	\$0
High Winds - Tornadoes	0	0.0%	\$0	\$0
Hurricanes	1	30.0%	\$440,590	\$12,667
Wildfire	387	1075.0% 15.4 events/yr	Not Available	
Winter Storms	9	35.0%	\$200,000	\$0
<b>City of Andalusia</b>				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	3	5.0%	\$0	\$0
High Winds - Hail	20	0.0%	\$15,000	\$0
High Winds – Lightning	3	0.0%	\$35,000	\$0
High Winds – Thunderstorms	34	30.0%	\$393,00	\$0
High Winds - Tornadoes	2	0.0%	\$100,000	\$0
Hurricanes	6	30.0%	\$76,000	\$12,667
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0
<b>Town of Babbie</b>				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	0	5.0%	\$0	\$0
High Winds - Hail	2	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	0	30.0%	\$0	\$0
High Winds - Tornadoes	0	0.0%	\$0	\$0
Hurricanes	6	30.0%	\$76,000	\$12,667
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0
<b>Town of Carolina</b>				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	0	5.0%	\$0	\$0
High Winds - Hail	0	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	0	30.0%	\$0	\$0
High Winds - Tornadoes	0	0.0%	\$0	\$0
Hurricanes	6	30.0%	\$76,000	\$12,667
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0
<b>City of Florala</b>				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	0	5.0%	\$0	\$0

High Winds - Hail	5	0.0%	\$0	\$0
High Winds – Lightning	1	0.0%	\$0	\$0
High Winds – Thunderstorms	11	30.0%	\$107,000	\$0
High Winds - Tornados	0	0.0%	\$0	\$0
Hurricanes	6	30.0%	\$76,000	\$12,667
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0
<b>Town of Gantt</b>				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	0	5.0%	\$0	\$0
High Winds - Hail	3	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	7	30.0%	\$229,000	\$0
High Winds - Tornados	1	0.0%	\$40,000	\$0
Hurricanes	6	30.0%	\$76,000	\$12,667
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0
<b>Town of Heath</b>				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	1	5.0%	\$0	\$0
High Winds - Hail	4	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	2	30.0%	\$5,000	\$0
High Winds - Tornados	0	0.0%	\$0	\$0
Hurricanes	6	30.0%	\$76,000	\$12,667
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0
<b>Town of Horn Hill</b>				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	0	5.0%	\$0	\$0
High Winds - Hail	0	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	0	30.0%	\$0	\$0
High Winds - Tornados	0	0.0%	\$0	\$0
Hurricanes	6	30.0%	\$76,000	\$12,667
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0
<b>Town of Libertyville</b>				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	1	5.0%	\$0	\$0
High Winds - Hail	5	0.0%	\$6,000	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	2	30.0%	\$7,000	\$0
High Winds - Tornados	2	0.0%	\$35,000	\$0
Hurricanes	6	30.0%	\$76,000	\$12,667
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0
<b>Town of Lockhart</b>				



Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	0	5.0%	\$0	\$0
High Winds - Hail	1	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	1	30.0%	\$5,000	\$0
High Winds - Tornados	1	0.0%	\$15,000	\$0
Hurricanes	6	30.0%	\$76,000	\$12,667
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0
Town of Onycha				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	0	5.0%	\$0	\$0
High Winds - Hail	0	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms		30.0%	\$0	\$0
High Winds - Tornados	0	0.0%	\$0	\$0
Hurricanes	6	30.0%	\$76,000	\$12,667
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0
City of Opp				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	1	5.0%	\$0	\$0
High Winds - Hail	14	0.0%	\$0	\$0
High Winds – Lightning	2	0.0%	\$25,000	\$0
High Winds – Thunderstorms	15	30.0%	\$125,000	\$0
High Winds - Tornados	0	0.0%	\$0	\$0
Hurricanes	1	30.0%	\$5,000	\$12,667
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0
Town of River Falls				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	1	5.0%	\$0	\$0
High Winds - Hail	1	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	4	30.0%	\$48,000	\$0
High Winds - Tornados	1	0.0%	\$15,000	\$0
Hurricanes	6	30.0%	\$76,000	\$12,667
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0
Town of Red Level				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	0	5.0%	\$0	\$0
High Winds - Hail	5	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	5	30.0%	\$33,000	\$0
High Winds - Tornados	2	0.0%	\$1.15m	\$0
Hurricanes	6	30.0%	\$76,000	\$12,667
Wildfire	0	1075.0%	Not Available	

		15.4 events/yr		
Winter Storms	0	35.0%	\$0	\$0
<b>Town of Sanford</b>				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	0	5.0%	\$0	\$0
High Winds - Hail	1	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	0	30.0%	\$0	\$0
High Winds - Tornados	0	0.0%	\$0	\$0
Hurricanes	6	30.0%	\$76,000	\$12,667
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0

**Table 4.140 Dale County Probability and Anticipated Damages of Future Hazard Events**

Hazard by Jurisdiction	Number of Occurrences	Probability of a Future Annual Event	Total Past Damages	Damage Expectations Per Damaging Event
<b>Dale Countywide</b>				
Drought / Extreme Heat	36	235.0% 2.6 events/yr	\$0	\$0
Flooding	1	5.0%	\$0	\$0
High Winds - Hail	0	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	5	30.0%	\$526,000	\$0
High Winds - Tornados	0	0.0%	\$0	\$0
Hurricanes	9	30.0%	\$0	\$0
Wildfire	141	1075.0% 15.4 events/yr	Not Available	
Winter Storms	2	35.0%	\$200,000	\$0
<b>City of Daleville</b>				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	0	5.0%	\$0	\$0
High Winds - Hail	7	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	10	30.0%	\$69,000	\$0
High Winds - Tornados	1	0.0%	\$3m	\$0
Hurricanes	0	30.0%	\$0	\$0
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0
<b>Town of Midland City</b>				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	2	5.0%	\$5,000	\$0
High Winds - Hail	2	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	8	30.0%	\$34,000	\$0
High Winds - Tornados	1	0.0%	\$5,000	\$0
Hurricanes	0	30.0%	\$0	\$0
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0
Drought / Extreme Heat		235.0%	\$0	\$0

		2.6 events/yr		
<b>City of Ozark</b>				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	4	5.0%	\$0	\$0
High Winds - Hail	11	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	56	30.0%	\$587,000	\$0
High Winds - Tornadoes	3	0.0%	\$325,000	\$0
Hurricanes	0	30.0%	\$0	\$0
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0
<b>Town of Ariton</b>				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	0	5.0%	\$0	\$0
High Winds - Hail	2	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	13	30.0%	\$151,000	\$0
High Winds - Tornadoes	0	0.0%	\$0	\$0
Hurricanes	0	30.0%	\$0	\$0
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0
<b>Town of Skipperville</b>				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	1	5.0%	\$10,000	\$0
High Winds - Hail	2	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	10	30.0%	\$0	\$0
High Winds - Tornadoes	0	0.0%	\$0	\$0
Hurricanes	0	30.0%	\$0	\$0
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0
<b>Town of Pinkard</b>				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	2	5.0%	\$5,000	\$0
High Winds - Hail	2	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	7	30.0%	\$12,000	\$0
High Winds - Tornadoes	3	0.0%	\$2.01m	\$0
Hurricanes	0	30.0%	\$0	\$0
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0
<b>Town of Grimes</b>				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	1	5.0%	\$0	\$0
High Winds - Hail	0	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	0	30.0%	\$0	\$0
High Winds - Tornadoes	0	0.0%	\$0	\$0

Hurricanes	0	30.0%	\$0	\$0
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0

<b>Town of Napier Field</b>				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	0	5.0%	\$0	\$0
High Winds - Hail	0	0.0%	\$0	\$0
High Winds – Lightening	0	0.0%	\$0	\$0
High Winds – Thunderstorms	0	30.0%	\$0	\$0
High Winds - Tornados	0	0.0%	\$0	\$0
Hurricanes	0	30.0%	\$0	\$0
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0
<b>Town of Newton</b>				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	0	5.0%	\$0	\$0
High Winds - Hail	3	0.0%	\$0	\$0
High Winds – Lightening	1	0.0%	\$0	\$0
High Winds – Thunderstorms	7	30.0%	\$79,750	\$0
High Winds - Tornados	0	0.0%	\$0	\$0
Hurricanes	0	30.0%	\$0	\$0
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0

**Table 4.141 Geneva County Probability and Anticipated Damages of Future Hazard Events**

Hazard by Jurisdiction	Number of Occurrences	Probability of a Future Annual Event	Total Past Damages	Damage Expectations Per Damaging Event
<b>Geneva Countywide</b>				
Drought / Extreme Heat	31	235.0% 2.6 events/yr	\$0	\$0
Flooding	0	5.0%	\$0	\$0
High Winds - Hail	0	0.0%	\$0	\$0
High Winds – Lightening	0	0.0%	\$0	\$0
High Winds – Thunderstorms	3	30.0%	\$26,000	\$0
High Winds - Tornados	0	0.0%	\$0	\$0
Hurricanes	8	30.0%	\$1.85m	\$0
Wildfire	225	1075.0% 15.4 events/yr	Not Available	
Winter Storms	2	35.0%	\$20,000	\$0
<b>Town of Black</b>				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	2	5.0%	\$0	\$0
High Winds - Hail	0	0.0%	\$0	\$0



High Winds – Lightening	0	0.0%	\$0	\$0
High Winds – Thunderstorms	5	30.0%	\$36,500	\$0
High Winds - TORNADOS	2	0.0%	\$235,000	\$0
Hurricanes	0	30.0%	\$0	\$0
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0
<b>City of Geneva</b>				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	5	5.0%	\$200,000	\$0
High Winds - Hail	1	0.0%	\$0	\$0
High Winds – Lightening	0	0.0%	\$0	\$0
High Winds – Thunderstorms	34	30.0%	\$950,000	\$0
High Winds - TORNADOS	2	0.0%	\$2.6m	\$0
Hurricanes	0	30.0%	\$0	\$0
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0
<b>City of Hartford</b>				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	3	5.0%	\$30,000	\$0
High Winds - Hail	2	0.0%	\$0	\$0
High Winds – Lightening	0	0.0%	\$0	\$0
High Winds – Thunderstorms	16	30.0%	\$482,000	\$0
High Winds - TORNADOS	1	0.0%	\$50,000	\$0
Hurricanes	0	30.0%	\$0	\$0
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0
<b>Town of Malvern</b>				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	2	5.0%	\$100,000	\$8,000
High Winds - Hail	2	0.0%	\$0	\$0
High Winds – Lightening	0	0.0%	\$0	\$0
High Winds – Thunderstorms	10	30.0%	\$43,000	\$501,500
High Winds - TORNADOS	2	0.0%	\$75,000	\$0
Hurricanes	0	30.0%	\$0	\$0
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0

<b>City of Slocumb</b>				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	6	5.0%	\$0	\$0
High Winds - Hail	2	0.0%	\$1,000	\$0
High Winds – Lightening	0	0.0%	\$0	\$0
High Winds – Thunderstorms	20	30.0%	\$358,000	\$0
High Winds - TORNADOS	0	0.0%	\$0	\$0
Hurricanes	0	30.0%	\$0	\$0
Wildfire	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0

<b>City of Samson</b>				
Drought / Extreme Heat	0	235.0% 2.6 events/yr	\$0	\$0
Flooding	3	5.0%	\$5,000	\$0
High Winds - Hail	4	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	23	30.0%	\$127,000	\$0
High Winds - Tornadoes	0	0.0%	\$0	\$0
Hurricanes	0	30.0%	\$0	\$0
Wildfires	0	1075.0% 15.4 events/yr	Not Available	
Winter Storms	0	35.0%	\$0	\$0

**Table 4.142 Henry County Probability and Anticipated Damages of Future Hazard Events**

Hazard by Jurisdiction	Number of Occurrences	Probability of a Future Annual Event	Total Past Damages	Damage Expectations Per Damaging Event
Henry Countywide				
Drought / Extreme Heat	38	235.0% 2.6 events/yr	\$0	\$0
Flooding	1	5.0%	\$0	\$0
High Winds - Hail	0	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	1	30.0%	\$5,000	\$0
High Winds - Tornadoes	0	0.0%	\$0	\$0
Hurricanes	7	30.0%	\$1.01m	\$0
Wildfire	217	1075.0% 15.4 events/yr	Not Available	
Winter Storms	2	35.0%	\$200,000	\$0
City of Abbeville				
Drought / Extreme Heat	See Countywide			
Flooding	2	0.0%	\$0	\$0
High Winds - Hail	7	5.0%	\$0	\$0
High Winds – Lightning	1	0.0%	\$20,000	\$0
High Winds – Thunderstorms	42	5.0%	\$127,250	\$1,000
High Winds - Tornadoes	3	0.0%	\$16.9m	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Town of Haleburg				
Drought / Extreme Heat	See Countywide			
Flooding	1	5.0%	\$0	\$0
High Winds - Hail	1	15.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	5	20.0%	\$12,000	\$0
High Winds - Tornadoes	0	5.0%	\$0	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
City of Headland				
Drought / Extreme Heat	See Countywide			
Flooding	1	5.0%	\$5,000	\$0
High Winds - Hail	3	25.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	19	15.0%	\$95,000	\$0

High Winds - TORNADOS	2	10.0%	\$2.05m	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Town of Newville				
Drought / Extreme Heat	See Countywide			
Flooding	0	20.0%	\$0	\$0
High Winds - Hail	0	40.0%	\$0	\$0
High Winds – Lightning	0	5.0%	\$0	\$0
High Winds – Thunderstorms	9	80.0%	\$20,500	\$0
High Winds - TORNADOS	1	35.0%	\$150,000	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Unincorporated Henry County				
Drought / Extreme Heat	See Countywide			
Flooding	6	15.0%	\$5.301m	\$0
High Winds - Hail	8	30.0%	\$0	\$0
High Winds – Lightning	1	0.0%	\$50,000	\$0
High Winds – Thunderstorms	67	110.0% 1.1 event/yr	\$220,500	\$0
High Winds - TORNADOS	4	75.0%	\$2.33m	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Henry County Total				
Drought / Extreme Heat	38	235.0% 2.6 events/yr	\$0	\$0
Flooding	12	50.0%	\$5.306m	\$0
High Winds - Hail	18	115.0% 1.6 event/yr	\$0	\$0
High Winds – Lightning	2	5.0%	\$70,000	\$0
High Winds – Thunderstorms	143	260.0% 2.6 events/yr	\$546,250	\$0
High Winds - TORNADOS	21	125.0% 1.3 event/yr	\$21.38m	\$0
Hurricanes	6	30.0%	\$76,000	\$12,667
Wildfire	217	1075.0% 15.4 events/yr	Not Available	
Winter Storms	2	35.0%	\$200,000	\$0

**Table 4.143 Houston County Probability and Anticipated Damages of Future Hazard Events**

Hazard by Jurisdiction	Number of Occurrences	Probability of a Future Annual Event	Total Past Damages	Damage Expectations Per Damaging Event
Houston Countywide				
Drought / Extreme Heat	32	235.0% 2.6 events/yr	\$0	\$0
Flooding	1	5.0%	\$10,000	\$0
High Winds - Hail	0	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	6	30.0%	\$355,000	\$0
High Winds - Tornadoes	0	0.0%	\$0	\$0
Hurricanes	6	30.0%	\$0	\$0
Wildfire	204	1075.0% 15.4 events/yr	Not Available	
Winter Storms	2	35.0%	\$200,000	\$0
Town of Ashford				
Drought / Extreme Heat	See Countywide			
Flooding	1	0.0%	\$0	\$0
High Winds - Hail	5	5.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	14	5.0%	\$35,250	\$0
High Winds - Tornadoes	0	0.0%	\$0	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Town of Avon				
Drought / Extreme Heat	See Countywide			
Flooding	0	5.0%	\$0	\$0
High Winds - Hail	0	15.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	3	20.0%	\$7,000	\$0
High Winds - Tornadoes	1	5.0%	\$0	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Town of Columbia				
Drought / Extreme Heat	See Countywide			
Flooding	2	5.0%	\$1.7m	\$0
High Winds - Hail	0	25.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	9	15.0%	\$17,300	\$0
High Winds - Tornadoes	0	10.0%	\$0	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Town of Cowarts				
Drought / Extreme Heat	See Countywide			
Flooding	0	20.0%	\$0	\$0
High Winds - Hail	2	40.0%	\$0	\$0
High Winds – Lightning	0	5.0%	\$0	\$0
High Winds – Thunderstorms	6	80.0%	\$10,000	\$0
High Winds - Tornadoes	0	35.0%	\$0	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			



City of Dothan				
Drought / Extreme Heat	See Countywide			
Flooding	5	0.0%	\$51,000	\$0
High Winds - Hail	14	5.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	40	5.0%	\$2.6m	\$0
High Winds - Tornados	1	0.0%	\$10,000	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Town of Cottonwood				
Drought / Extreme Heat	See Countywide			
Flooding	0	0.0%	\$51,000	\$0
High Winds - Hail	6	5.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	66	5.0%	\$120,500	\$0
High Winds - Tornados	0	0.0%	\$0	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Town of Gordon				
Drought / Extreme Heat	See Countywide			
Flooding	0	0.0%	\$0	\$0
High Winds - Hail	0	5.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	6	5.0%	\$48,750	\$0
High Winds - Tornados	1	0.0%	\$75,000	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Town of Kinsey				
Drought / Extreme Heat	See Countywide			
Flooding	1	0.0%	\$200,000	\$0
High Winds - Hail	3	5.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	7	5.0%	\$13,000	\$0
High Winds - Tornados	0	0.0%	\$0	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Town of Madrid				
Drought / Extreme Heat	See Countywide			
Flooding	2	0.0%	\$30,000	\$0
High Winds - Hail	0	5.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	7	5.0%	\$104,000	\$0
High Winds - Tornados	3	0.0%	\$125,000	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Town of Rehobeth				
Drought / Extreme Heat	See Countywide			
Flooding	1	0.0%	\$0	\$0
High Winds - Hail	0	5.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	11	5.0%	\$235,000	\$0
High Winds - Tornados	0	0.0%	\$0	\$0

Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
City of Taylor				
Drought / Extreme Heat	See Countywide			
Flooding	5	0.0%	\$0	\$0
High Winds - Hail	2	5.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	5	5.0%	\$72,000	\$0
High Winds - Tornados	1	0.0%	\$500,000	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Town of Webb				
Drought / Extreme Heat	See Countywide			
Flooding	0	0.0%	\$0	\$0
High Winds - Hail	2	5.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	14	5.0%	\$57,000	\$0
High Winds - Tornados	0	0.0%	\$0	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Unincorporated Houston County				
Drought / Extreme Heat	See Countywide			
Flooding	26	15.0%	\$85.53m	\$0
High Winds - Hail	3	30.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	62	110.0% 1.1 event/yr	\$647,000	\$0
High Winds - Tornados	6	75.0%	\$290,000	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Houston County Total				
Drought / Extreme Heat	32	235.0% 2.6 events/yr	\$0	\$0
Flooding	38	50.0%	\$88.05m	\$0
High Winds - Hail	43	115.0% 1.6 event/yr	\$0	\$0
High Winds – Lightning	0	5.0%	\$0	\$0
High Winds – Thunderstorms	288	260.0% 2.6 events/yr	\$4.88m	\$0
High Winds - Tornados	17	125.0% 1.3 event/yr	\$1.93m	\$0
Hurricanes	6	30.0%	\$1.2m	\$0
Wildfire	204	1075.0% 15.4 events/yr	Not Available	
Winter Storms	2	35.0%	\$200,000	\$0

**Table 4.144 Pike County Probability and Anticipated Damages of Future Hazard Events**

Hazard by Jurisdiction	Number of Occurrences	Probability of a Future Annual Event	Total Past Damages	Damage Expectations Per Damaging Event
Pike Countywide				
Drought / Extreme Heat	47	235.0% 2.6 events/yr	\$0	\$0
Flooding	1	5.0%	\$8,000	\$8,000
High Winds - Hail	0	0.0%	\$0	\$0
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	6	30.0%	\$3,009,000	\$501,500
High Winds - Tornados	0	0.0%	\$0	\$0
Hurricanes	6	30.0%	\$76,000	\$12,667
Wildfire	215	1075.0% 15.4 events/yr	Not Available	
Winter Storms	7	35.0%	\$0	\$0
Town of Banks				
Drought / Extreme Heat	See Countywide			
Flooding	0	0.0%	\$0	\$0
High Winds - Hail	1	5.0%	\$8,000	\$8,000
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	1	5.0%	\$1,000	\$1,000
High Winds - Tornados	0	0.0%	\$0	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
City of Brundidge				
Drought / Extreme Heat	See Countywide			
Flooding	1	5.0%	\$0	\$0
High Winds - Hail	3	15.0%	\$2,000	\$667
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	4	20.0%	\$76,000	\$19,000
High Winds - Tornados	1	5.0%	\$0	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Town of Goshen				
Drought / Extreme Heat	See Countywide			
Flooding	1	5.0%	\$2,000	\$0
High Winds - Hail	5	25.0%	\$3,000	\$600
High Winds – Lightning	0	0.0%	\$0	\$0
High Winds – Thunderstorms	3	15.0%	\$12,000	\$4,000
High Winds - Tornados	2	10.0%	\$0	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
City of Troy				
Drought / Extreme Heat	See Countywide			
Flooding	4	20.0%	\$0	\$0
High Winds - Hail	8	40.0%	\$108,000	\$13,500
High Winds – Lightning	1	5.0%	\$25,000	\$0
High Winds – Thunderstorms	16	80.0%	\$86,750	\$5,422
High Winds - Tornados	7	35.0%	\$99,000	\$14,143
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			

Unincorporated Pike County				
Drought / Extreme Heat	See Countywide			
Flooding	3	15.0%	\$0	\$0
High Winds - Hail	6	30.0%	\$0	\$0
High Winds – Lightening	0	0.0%	\$0	\$0
High Winds – Thunderstorms	22	110.0% 1.1 event/yr	\$46,000	\$2,091
High Winds - Tornados	15	75.0%	\$664,000	\$0
Hurricanes	See Countywide			
Wildfire	See Countywide			
Winter Storms	See Countywide			
Pike County Total				
Drought / Extreme Heat	47	235.0% 2.6 events/yr	\$0	\$0
Flooding	10	50.0%	\$10,000	\$1,000
High Winds - Hail	23	115.0% 1.6 event/yr	\$121,000	\$5,261
High Winds – Lightening	1	5.0%	\$25,000	\$25,000
High Winds – Thunderstorms	52	260.0% 2.6 events/yr	\$3,230,750	\$62,130
High Winds - Tornados	25	125.0% 1.3 event/yr	\$763,000	\$169,030
Hurricanes	6	30.0%	\$76,000	\$12,667
Wildfire	215	1075.0% 15.4 events/yr	Not Available	
Winter Storms	7	35.0%	\$0	\$0

**Dam Failure:** The risk of losses from dam failure (and levee breach) cannot be calculated based on historic records due to lack of data. Even though dam failure is a rare occurrence and is mostly unprecedented in the planning area, an occurrence could cause critical damages downstream.

**Drought/Extreme Heat:** The risk of losses from drought and extreme heat cannot be calculated based on historic records due to lack of data. Qualitative documentation shows evidence that drought and extreme heat conditions cause agricultural losses and water quantity issues, but it is difficult to define the exact impact from this hazard.

**Flooding:** Flooding is a major concern for counties and municipalities in Division B and the future probability of occurrences is high. Communities that are especially susceptible to flooding include Elba in Coffee County, Geneva in Geneva County Eufaula in Barbour County, portions of Butler, Crenshaw and Pike Counties.

**High Winds (Hurricanes, Tornadoes, and Severe Thunderstorms):** High wind events are one of the most frequent natural disasters to occur, with thunderstorms second only to wildfires in all three counties. Combined, Butler, Crenshaw and Pike Counties have suffered 325 high wind events during the last 20 years that incurred more than \$9 million in damages. Thunderstorms are the costliest hazard event in each of the three counties and tornadoes are the second costliest hazard in Crenshaw and Pike Counties. High wind events are the most likely natural hazard to result in death and injuries, as well.

**Landslides:** The risk of losses from landslides cannot be calculated based on historic records due to lack of data. Though a few incidents of landslides have been recorded in the AEMA Division B

region, there is no damage estimate attached to those events. Any landslide occurrence in the region would most likely be minor in impact due to the localized nature of these events.

**Land Subsidence / Sinkholes:** The risk of losses from land subsidence events, such as sinkholes, cannot be calculated based on historic records due to lack of data. Though much of the planning area has depressions noted on topographic maps or has karst terrain, information about previous incidents are limited at best with no damage estimates. Any land subsidence occurrence in the planning area would most likely be minor in impact due to the localized nature of these events.

**Wildfires:** Though wildfires are the most likely hazard to occur in the planning area, with an average of 38.29 wildfire events per year in Butler County, 17.1 wildfires per year in Crenshaw County, and 15.4 wildfires per year in Pike County, over a 14-year period. The impact of most wildfires is assumed to have been minor and localized in mostly undeveloped areas. There is no financial loss data available to gauge the true impact of wildfires within the region. Historically, wildfires have primarily affected timber resources in the planning area; however, future development in wildland urban interface areas should be mindful of this potential hazard.

**Winter Storms:** There is a 25 to 35 percent chance of a winter storm in the region each year, based on past events of the last 20 years. Winter storms include sleet, snow and ice. There have been no cost estimates reported of damages from winter storms. These events normally have a short duration and have minor impacts. None of the counties in the AEMA Division B region, however, is especially prepared for a long duration event if it were to occur. Hazard mitigation planning committee members state that it is impractical to own and maintain road equipment for the very infrequent use incurred in the area.



## 4.6 Total Population and Property Valuation Summary by Jurisdiction

The data in Table 4.145 is derived from local government and tax valuation from the County Revenue Offices, as well as the U.S. Census, 2014-2018 American Community Survey 5-Year Estimates. It is important to note that actual values may be somewhat higher than those values assigned for tax purposes. Also, these values do not always include tax-exempt properties and structures such as government buildings and churches.

**Table 4.145 Population and Property Information by Jurisdiction**

Jurisdiction	2018 Population	Number of Parcels	Number of Buildings	Total Appraised Value of Improvements
<b>Barbour County (Uninc.)</b>	<b>9,019</b>	<b>*</b>	<b>*</b>	<b>*</b>
Town of Baker Hill	279	*	*	*
Town of Blue Springs	96	*	*	*
City of Clayton	3,008	*	*	*
City of Clio	1,399	*	*	*
City of Eufaula	13,137	*	*	*
Town of Louisville	519	*	*	*
<b>Butler County (Uninc.)</b>	<b>19,680</b>	<b>13,099</b>	<b>4,747</b>	<b>\$278,301,092</b>
Town of Greenville	7,984	4,505	3,050	*
Town of Georgiana	1,616	1,273	645	*
Town of Mckenzie	522	357	215	*
<b>Crenshaw County</b>	<b>13,865</b>	<b>15,041</b>	<b>6,985</b>	<b>\$568,151,722</b>
Town of Brantley	828	585	341	\$26,827,780
Town of Dozier	367	217	130	\$6,533,720
Town of Glenwood	221	254	147	\$5,669,460
City of Luverne	2,771	1,982	1,238	\$185,500,840
Town of Petrey	48	66	46	\$3,197,820
Town of Rutledge	363	390	243	\$16,871,480
Unincorporated Crenshaw County	9,267	11,547	4,840	323,550,622
<b>Pike County</b>	<b>33,403</b>	<b>22,174</b>	<b>11,958</b>	<b>\$1,440,879,640</b>
Town of Banks	157	133	85	\$4,640,400
City of Brundidge	2,295	1,533	1,001	\$110,466,800
Town of Goshen	223	282	150	\$14,274,580
City of Troy	19,141	7,537	5,191	\$877,278,200
Unincorporated Pike County	11,587	12,689	5,531	\$434,219,660
<b>Coffee County (Uninc.)</b>	<b>18,183</b>	<b>18,183</b>	<b>18,183</b>	<b>*</b>
City of Elba	3,940	3,940	3,940	*
City of Enterprise	26,139	26,139	26,139	*
Town of Kinston	540	540	540	*
Town of New Brockton	1,146	1,146	1,146	*
<b>Covington County (Uninc.)</b>	<b>16,436</b>	<b>16,436</b>	<b>16,436</b>	<b>\$16,436</b>
City of Andalusia	9,015	5,820	4,163	\$574,596,880

Town of Babbie	603	*	*	*
Town of Carolina	297	*	*	*
City of Florala	1,980	1,699	1,050	\$88,652,190
Town of Gantt	222	215	125	\$8,273,570
Town of Heath	254	*	*	*
Town of Horn Hill	228	*	*	*
Town of Libertyville	117	*	*	*
Town of Lockhart	516	412	224	\$11,848,950
Town of Onycha	184	*	*	*
City of Opp	6,659	4,249	3,054	\$300,231,240
Town of Red Level	487	407	250	\$19,140,660
Town of River Falls	526	488	265	\$28,461,000
<b>Dale County (Uninc.)</b>	<b>33,403</b>	<b>12,454</b>	<b>4,920</b>	<b>*</b>
City of Daleville	5,086	2,684	1,589	*
City of Ozark	14,303	8,851	6,003	*
Town of Clayhatchee	580	352	171	*
Town of Ariton	735	583	275	*
Town of Grimes	540	331	165	*
Town of Napier Field	340	194	136	*
Town of Midland City	2,350	961	678	
Town of Newton	1,505	1,123	613	*
Town of Pickard	625	560	286	*
<b>Geneva County (Uninc.)</b>	<b>13,904</b>	<b>12,416</b>	<b>4,480</b>	<b>\$4,649,260</b>
Town of Coffee Springs	228	186	118	\$6,812,900
City of Geneva	4,452	4,246	1,811	\$179,888,680
City of Hartford	2,624	1,548	1,160	\$92,370,700
Town of Malvern	1,448	899	431	\$39,161,400
Town of Black	207	233	70	\$4,649,500
City of Slocomb	1,980	1,488	905	\$62,397,700
City of Samson	1,940	1,315	797	\$56,521,900
City of Taylor	7	2	1	\$125,800
<b>Henry County (Uninc.)</b>	<b>9,457</b>	<b>13,377</b>	<b>5,184</b>	<b>\$359,563,050</b>
City of Abbeville	2,688	2,229	1,317	\$106,695,991
City of Dothan (part)	5	*	*	*
Town of Haleburg	103	*	*	*
City of Headland	4,510	3,227	2,206	\$226,024,911
Town of Newville	539	484	291	\$13,497,107
<b>Houston County (Uninc.)</b>	<b>22,377</b>	<b>16,185</b>	<b>8,752</b>	<b>\$843,107,900</b>
Town of Ashford	157	133	85	\$4,640,400
Town of Avon	543	288	182	\$14,748,200
Town of Columbia	740	663	392	\$23,478,200
Town of Cottonwood	1,289	986	524	\$29,045,900
City of Dothan	64,604	33,078	28,217	\$4,149,835,900

Town of Gordon	332	274	126	\$5,713,200
Town of Kinsey	2,198	1,180	834	\$60,873,000
Town of Madrid	350	274	126	\$7,785,500
Town of Rehobeth	1,297	893	619	\$77,816,700
City of Taylor	2,368	1,030	818	\$76,468,900
Town of Webb	1,430	882	519	\$41,374,100

*Source: U.S. Census, 2014-2018 American Community Survey 5-Year Estimates, County Revenue Commissioner Offices, 2019 Tax Year*

#### 4.7 Critical Facilities/Infrastructure by Jurisdiction

Critical facilities are defined as facilities that are essential to the community or may be crucial to the delivery of vital services, such as utilities and public safety. Critical facilities may also house or serve an at-risk population such as schools, hospitals, or nursing homes. Critical facilities would also likely result in catastrophic financial loss if severely damaged or destroyed, such as major industrial buildings, courthouses, and other government facilities. Critical facilities may vary from a transmission line that provides vital electricity to the community, to a hospital that provides medical care, or to the local public safety facilities that serve a community.

Table 4.147 lists a summary of critical facilities categorized by type in Region B. This list is not all-inclusive and includes facilities prioritized by specific jurisdictions. An inventory of critical facilities will be reviewed periodically and continually updated to reflect any changes in each of the jurisdictions. A concerted effort was made using information from the public, EMA, local government officials and industry stakeholders to identify the critical facilities in the three counties. Such facilities were considered vital to transportation, energy, communication, health care, utility systems, food services, and the delivery of public safety. Structures that are occupied by at-risk populations such as schools are also included. The information listed below was provided by the individual jurisdictions. The ‘Other Concentrations of Population’ includes public housing authorities and companies with more than 100 employees. Other critical facilities locations are the facilities that store Extremely Hazardous Substances (EPCRA Section 302-Extremely Hazardous Substances, CERCLA Hazardous Substances, EPCRA, Section 313 Toxic Chemicals, CAA 122®) Regulated Chemicals for Accidental Release Prevention and other facilities that are covered. Local EMA offices maintain these lists.

**Table 4.146 Region B County Summary of Critical Facilities**

Jurisdiction	Type of Facility						
	Continuity of Government	Fire/Rescue	Law Enforcement	Health	Education	Infrastructure	*Other Concentrations of Population
<b>Barbour County</b>	8	9	3	4	0	0	0
Town of Baker Hill	1	1	0	0	0	1	0
Town of Blue Springs	1	1	0	0	0	0	0
City of Clayton	1	1	1	0	3	1	0
Town of Clio	1	0	0	0	0	3	0
Town of Louisville	1	1	0	0	0	1	0
City of Eufaula	5	3	1	2	5	4	0
<b>Butler County</b>	8	10	2	2	1	6	1
City of Georgiana	1	1	0	2	0	4	0
City of Greenville	1	0	0	2	2	6	6
Town of McKenzie	1	1	0	0	0	1	1
Butler County Board of Education	0	0	0	0	6	0	0
<b>Coffee County</b>	2	5	3	1	4	7	0
City of Elba	1	1	1	1	1	5	0
City of Enterprise	3	2	1	3	10	6	0
Town of Kinston	1	1	0	0	0	2	0
Town of New Brockton	1	1	1	0	0	2	0
Jack Water Authority	0	0	0	0	0	2	0
<b>Covington County</b>	6	4	2	4	2	8	0
City of Andalusia	1	1	1	1	3	8	0
Town of Babbie	1	1	0	0	0	0	0
Town of Carolina	0	1	0	0	0	0	0
City of Florala	1	1	1	1	1	7	1
Town of Gantt	1	1	0	0	0	0	0
Town of Heath	1	0	0	0	0	0	0
Town of Horn Hill	0	0	0	0	0	0	0
Town of Libertyville	0	1	0	0	0	0	0
Town of Lockhart	1	1	1	0	0	5	0
City of Opp	1	1	1	1	3	3	0
Town of Red Level	1	1	0	0	0	0	0
Town of River Falls	1	1	0	0	0	1	0
Town of Sanford	1	1	0	0	0	0	0
<b>Crenshaw County</b>	7	11	2	0	0	8	0
Town of Brantley	2	1	1	0	1	3	1
Town of Dozier	1	1	0	1	2	1	1
Town of Glenwood	1	1	0	0	0	0	0

City of Luverne	5	1	1	3	2	3	4
Town of Petrey	1	0	0	0	0	0	0
Town of Rutledge	1	1	0	0	0	0	0
Crenshaw County Board of Education	0	0	0	0	4	0	0
<b>Pike County</b>	6	5	3	1	0	7	0
Town of Banks	1	1	0	0	0	0	0
City of Brundidge	6	1	1	0	2	0	3
Town of Goshen	1	1	0	0	0	0	0
City of Troy	6	1	1	2	4	0	14
Pike County Board of Education	0	0	0	0	6	0	0
City of Troy Schools	0	0	0	0	3	0	0
Troy University	0	0	0	0	1	0	0
<b>Dale County</b>	6	5	3	1	0	7	0
City of Daleville	2	1	1	1	3	2	0
City of Ozark	2	2	1	3	5	6	0
Town of Clayhatchee	1	0	0	0	0	0	0
Town of Ariton	1	1	1	0	2	2	0
Town of Grimes	1	0	0	0	0	0	0
Town of Midland City	1	1	1	0	1	3	0
Town of Napier Field	1	1	0	0	0	1	0
Town of Newton	1	1	1	0	1	1	0
Town of Pinckard	1	1	1	0	0	1	0
<b>Geneva County</b>	8	9	5	3	0	0	0
City of Geneva	2	2	2	2	3	4	0
Town of Black	1	1	0	0	0	2	0
Coffee Springs	1	1	0	0	0	1	0
City of Hartford	1	2	1	0	3	1	0
Town of Malvern	1	1	0	0	0	0	0
City of Slocomb	1	1	1	0	3	2	0
City of Samson	1	1	1	0	3	2	0
<b>Henry County</b>	4	4	4	2	0	0	0
City of Abbeville	1	1	1	0	3	2	0
Town of Haleburg	0	1	0	0	0	0	0
City of Headland	1	1	1	0	3	3	0
Town of Newville	1	1	0	0	0	1	0
<b>Houston County</b>	3	1	2	0	3	5	0
Town of Ashford	1	1	1	0	1	1	0
Town of Avon	1	0	0	0	0	0	0
Town of Columbia	1	1	1	0	1	1	0
Town of Cottonwood	1	1	1	0	1	2	0
Town of Cowarts	1	1	0	0	0	1	0
City of Dothan	3	5	2	8	19	7	0
Town of Gordon	1	1	0	0	0	1	0
Town of Kinsey	1	1	0	0	0	1	0



Town of Madrid	1	1	0	0	0	0	0
Town of Rehobeth	1	1	1	0	3	2	0
City of Taylor	1	1	1	0	0	1	0
Town of Webb	1	1	1	0	1	1	0

\*Other Concentrations of Populations for Barbour County includes the following public housing facilities and companies with more than 100 employees:

- Tyson Foods
- WESTROCK Mahrt Mill
- Boyd Brothers, LLC
- Eufaula City Schools
- Medical Center Barbour
- The City of Eufaula
- Hummingbird – Johnson Outdoors
- Southern Plastics
- Benny Whitehead Trucking

\*Other Concentrations of Populations for Butler County includes the following public housing facilities and companies with more than 100 employees:

- Greenville Housing Authority
- Butler County Housing of McKenzie
- Coastal Forest Products, LLC
- Connector Manufacturing Co.
- Hwashin American Corporation
- Hysco American Company
- Shoreline Transportation
- Source corp, Inc.

\*Other Concentrations of Populations for Crenshaw County includes the following public housing facilities and companies with more than 100 employees:

- Brantley Housing Authority
- Dozier Housing Authority
- Luverne Housing Authority
- Smart of Alabama LLC
- Dongwon Autopart Technology Alabama, LLC
- Southern Field Maintenance and Fabrication
- Luverne Health and Rehabilitation, LLC

\*Other Concentrations of Populations for Pike County includes the following public housing facilities and companies with more than 100 employees:

- Brundidge Housing Authority
- Troy Housing Authority
- Wiley Sanders Truck Lines
- Wal-Mart Distribution Center
- Sikorsky Aircraft Manufacturing
- Sanders Lead Co., Inc.
- City of Troy
- HB&G Building Products, Inc.
- CGI
- Lockheed Martin
- Troy Regional Medical Center
- KW Plastics Recycling Division
- KW Plastics – Troy Facility
- Troy Cable
- Southern Classic Food Group, Inc.
- Troy Bank & Trust
- Kimber

\*Other Concentrations of Populations for Coffee County includes the following public housing facilities and companies with more than 100 employees:

- Enterprise Housing Authority
- M1 Services
- Wayne Farms
- City of Enterprise
- Hwaseung Automotive
- Pilgrim's Pride
- Elba Housing Authority
- Inzi Controls
- Ben E. Keith Foods Southeast
- Medical Center Enterprise
- ALFAB
- Utility Trailer Manufacturing
- Dorsey Trailers
- Enterprise Electronics
- Elba Nursing Home
- Arista Aviation

\*Other Concentrations of Populations for Covington County includes the following public housing facilities and companies with more than 100 employees:

- Andalusia Housing Authority
- Opp Housing Authority
- Wayne Farms
- City of Andalusia
- Shaw Industries
- Power South Electrical Cooperative
- Wal-Mart
- Andalusia Regional Hospital
- Mizell Memorial Hospital
- American Apparel
- MFG Galileo
- H.T. Hackney
- SAEHAESUNG
- Vector Aerospace

\*Other Concentrations of Populations for Dale County includes the following public housing facilities and companies with more than 100 employees:

- Ozark Housing Authority
- M1 Services
- Michelin North America
- Dale Medical Center
- Commercial Jet
- Covan International
- Bell Helicopter
- CMI
- Computer Sciences Corporation
- E&H Steel Corporation
- City of Ozark
- Daleville Housing Authority

\*Other Concentrations of Populations for Geneva County includes the following public housing facilities and companies with more than 100 employees:

- Geneva Housing Authority
- Reliable Metal Products
- Sysco Food Services – Gulf Coast
- Sowega Cotton
- Hwaseung Automotive

\*Other Concentrations of Populations for Henry County includes the following public housing facilities and companies with more than 100 employees:

- Headland Housing Authority
- Abbeville Fiber
- Great Southern Wood

\*Other Concentrations of Populations for Houston County includes the following public housing facilities and companies with more than 100 employees:

- City of Dothan
- Dothan Housing Authority
- Southeast Alabama Medical Center
- Flowers Hospital
- Southern Nuclear (Farley)
- Perdue Farms
- Wal-Mart Supercenter
- Michelin
- Georgia-Pacific
- Medical Center Enterprise
- ALFAB
- Utility Trailer Manufacturing
- Dorsey Trailers
- Enterprise Electronics
- Elba Nursing Home
- Arista Aviation

#### 4.8 Hazard Impacts

This section provides a narrative overview of each hazard's impact on the jurisdictions of the AEMA Division B region, based on previous findings within this section. Each value score is based on a scale of 1 to 4, as outlined in Section 4.4: Vulnerability Overview. The weighted priority score was then used to

#### Dam Failure

According to the Risk Impact Assessment, the dam failure hazard scored a value of 1.4 in all three counties, on a scale of 0 to 4, which gave dam failure a priority ranking of 10 out of 13 hazards.

**Table 4.148: Risk Impact Assessment for Dam Failure**

<b>Butler County</b>	
Probability	1 - Very Low
Impact	2 - Limited
Location Extent	1 - Minor
Warning Time	2 - 12 to 24 hours
Duration	1 - Less than 6 hours
<b>Crenshaw County</b>	
Probability	1 - Very Low
Impact	2 - Limited
Location Extent	1 - Minor
Warning Time	2 - 12 to 24 hours
Duration	1 - Less than 6 hours
<b>Pike County</b>	
Probability	1 - Very Low
Impact	2 - Limited
Location Extent	1 - Minor
Warning Time	2 - 12 to 24 hours
Duration	1 - Less than 6 hours
<b>Barbour County</b>	
Probability	1 - Very Low
Impact	2 - Limited
Location Extent	1 - Minor
Warning Time	2 - 12 to 24 hours
Duration	1 - Less than 6 hours
<b>Coffee County</b>	
Probability	1 - Very Low
Impact	2 - Limited
Location Extent	1 - Minor

Warning Time	2 - 12 to 24 hours
Duration	1 - Less than 6 hours
<b>Covington County</b>	
Probability	1 - Very Low
Impact	2 - Limited
Location Extent	1 - Minor
Warning Time	2 - 12 to 24 hours
Duration	1 - Less than 6 hours
<b>Dale County</b>	
Probability	1 - Very Low
Impact	2 - Limited
Location Extent	1 - Minor
Warning Time	2 - 12 to 24 hours
Duration	1 - Less than 6 hours
<b>Geneva County</b>	
Probability	1 - Very Low
Impact	2 - Limited
Location Extent	1 - Minor
Warning Time	2 - 12 to 24 hours
Duration	1 - Less than 6 hours
<b>Henry County</b>	
Probability	1 - Very Low
Impact	2 - Limited
Location Extent	1 - Minor
Warning Time	2 - 12 to 24 hours
Duration	1 - Less than 6 hours
<b>Houston County</b>	
Probability	1 - Very Low
Impact	2 - Limited
Location Extent	1 - Minor
Warning Time	2 - 12 to 24 hours
Duration	1 - Less than 6 hours

Dam regulation and research is an ongoing hazard mitigation issue in the State of Alabama. Currently, there are no state laws to regulate existing private dams or the construction of new private dams that do not require federal licenses or inspections. There have been four attempts to pass legislation requiring inspection of dams on bodies of water over 50 acre-feet or dams higher than 25 feet. Opposition of agricultural interest groups and insurance companies has hampered enactment.

Information pertaining to potential damages from dam failure is limited at the current time. The ADECA Office of Water Resources is currently conducting a dam study, as data listed within the National Inventory of Dams (NID) is outdated and not entirely accurate according to preliminary findings by ADECA. Once the dam assessment is complete, information regarding high hazard dams should allow for additional studies pertaining to potential vulnerability of this hazard.

### **Drought / Extreme Heat**

According to the Risk Impact Assessment, the drought and extreme heat hazard are extremely probable to occur again with in Division B counties.

**Table 4.149: Risk Impact Assessment for Drought / Extreme Heat**

<b>Butler County</b>	
Probability	2.5 - Low to Medium

Impact	4 - Catastrophic
Location Extent	4 - Large
Warning Time	1 - More than 2 hours
Duration	4 - More than one week
<b>Crenshaw County</b>	
Probability	2.5 - Low to Medium
Impact	3 - Critical
Location Extent	4 - Large
Warning Time	1 - More than 2 hours
Duration	4 - More than one week
<b>Pike County</b>	
Probability	3 - Medium
Impact	4 - Catastrophic
Location Extent	4 - Large
Warning Time	1 - More than 2 hours
Duration	4 - More than one week
<b>Barbour County</b>	
Probability	2.5 - Low to Medium
Impact	4 - Catastrophic
Location Extent	4 - Large
Warning Time	1 - More than 2 hours
Duration	4 - More than one week
<b>Coffee County</b>	
Probability	2.5 - Low to Medium
Impact	3 - Critical
Location Extent	4 - Large
Warning Time	1 - More than 2 hours
Duration	4 - More than one week
<b>Covington County</b>	
Probability	3 - Medium
Impact	4 - Catastrophic
Location Extent	4 - Large
Warning Time	1 - More than 2 hours
Duration	4 - More than one week
<b>Dale County</b>	
Probability	2.5 - Low to Medium
Impact	4 - Catastrophic
Location Extent	4 - Large
Warning Time	1 - More than 2 hours
Duration	4 - More than one week
<b>Geneva County</b>	
Probability	2.5 - Low to Medium
Impact	3 - Critical
Location Extent	4 - Large
Warning Time	1 - More than 2 hours
Duration	4 - More than one week
<b>Henry County</b>	
Probability	3 - Medium
Impact	4 - Catastrophic
Location Extent	4 - Large
Warning Time	1 - More than 2 hours
Duration	4 - More than one week
<b>Houston County</b>	
Probability	2.5 - Low to Medium
Impact	4 - Catastrophic
Location Extent	4 - Large



Warning Time	1 - More than 2 hours
Duration	4 - More than one week

Because it cannot be predicted where drought and extreme heat may occur, all existing and future buildings, facilities, agricultural production, depletion of groundwater resources, and susceptibility to wildfire occurrences, and the general population in the planning area are considered to be vulnerable to this hazard and its impacts. Residents that are very young or advanced in age are more susceptible to health effects from extreme heat. Extreme heat may stress electrical utility providers, due to increased air condition requirements. Need for health services may also increase due to extreme heat. However, due to ongoing planning and relative common occurrence of these hazards, anticipated future damages or losses are expected to be minimal.

All existing and future buildings in the planning area are vulnerable to effects from drought and extreme heat. More importantly, all agricultural products and other natural resources are at risk. However, it is difficult to estimate values for damages, including crop failure, that are primarily due to drought and extreme heat issues. Due to the varying nature of this hazard, damages are caused to crop losses and issues to water supplies, but there is little methodology to calculating loss estimates that are due to these hazards.

## Earthquake

According to the Risk Impact Assessment, the earthquake hazard is one of the lowest scores for the planning study area.

**Table 4.150: Risk Impact Assessment for Earthquakes**

<b>Butler County</b>	
Probability	0.5 – Very, Very Low
Impact	0.5 – Minor
Location Extent	0.5 – Negligible
Warning Time	4 – Less than 6 hours
Duration	1 - Less than 6 hours
<b>Crenshaw County</b>	
Probability	0.5 – Very, Very Low
Impact	0.5 – Minor
Location Extent	0.5 – Negligible
Warning Time	4 – Less than 6 hours
Duration	1 - Less than 6 hours
<b>Pike County</b>	
Probability	0.5 – Very, Very Low
Impact	0.5 – Minor
Location Extent	0.5 – Negligible
Warning Time	4 – Less than 6 hours
Duration	1 - Less than 6 hours
<b>Coffee County</b>	
Probability	0.5 – Very, Very Low
Impact	0.5 – Minor
Location Extent	0.5 – Negligible
Warning Time	4 – Less than 6 hours
Duration	1 - Less than 6 hours
<b>Covington County</b>	
Probability	0.5 – Very, Very Low
Impact	0.5 – Minor
Location Extent	0.5 – Negligible

Warning Time	4 – Less than 6 hours
Duration	1 - Less than 6 hours
<b>Dale County</b>	
Probability	0.5 – Very, Very Low
Impact	0.5 – Minor
Location Extent	0.5 – Negligible
Warning Time	4 – Less than 6 hours
Duration	1 - Less than 6 hours
<b>Butler County</b>	
Probability	0.5 – Very, Very Low
Impact	0.5 – Minor
Location Extent	0.5 – Negligible
Warning Time	4 – Less than 6 hours
Duration	1 - Less than 6 hours
<b>Geneva County</b>	
Probability	0.5 – Very, Very Low
Impact	0.5 – Minor
Location Extent	0.5 – Negligible
Warning Time	4 – Less than 6 hours
Duration	1 - Less than 6 hours
<b>Henry County</b>	
Probability	0.5 – Very, Very Low
Impact	0.5 – Minor
Location Extent	0.5 – Negligible
Warning Time	4 – Less than 6 hours
Duration	1 - Less than 6 hours
<b>Houston County</b>	
Probability	0.5 – Very, Very Low
Impact	0.5 – Minor
Location Extent	0.5 – Negligible
Warning Time	4 – Less than 6 hours
Duration	1 - Less than 6 hours

Information from the U.S. Geological Survey shows that historical earthquake events have been non-existent in the planning area. Due to the lack of substantive documentation of previous events and being located in the 4% to 8% range of incidence on the U.S. Seismic Hazard Map, it is assumed that although earthquake events may occur at any location within the planning area, the likelihood is extremely low. Still, all existing and future buildings, facilities, and the general population in the planning area are considered to be vulnerable to this hazard and its impacts should an earthquake occur.

## **Flooding**

The primary areas affected by riverine flooding in the planning area are along the Chattahoochee River, Choctawhatchee River, Pea River, Conecuh River, and major tributaries to those rivers. Other areas inside the floodplains are streams and creeks throughout the counties and the municipalities. The NFIP has identified flood zones in areas of each jurisdiction, with the exception of Baker Hill (Barbour County), McKenzie (Butler County), Onycha and Sanford (Covington County), and Webb (Houston County). Table 4.151 provides the risk impact assessment for each county, as well as those jurisdictions that have no flood vulnerability. The table is followed by discussion of each community's specific vulnerability to flooding

Flash flooding may potentially affect all residents of the planning area and cause runoff that

becomes fast-rising waters that can cause property and street damage as well as casualties. Unlike riverine flooding, which can be forecasted over a few days, flash flooding is normally a quick onset hazard with little warning.

Flash flooding is a more frequent threat than riverine flooding and may occur at any location in the planning area where there are low-lying areas, particularly roads that may hold water for a short period of time. Flash flooding may potentially affect all residents of the planning area and cause runoff that becomes fast-rising waters that can cause property and street damage as well as casualties. Unlike riverine flooding, which can be forecasted over a few days, flash flooding is normally a quick onset hazard with little warning.

**Table 4.151: Risk Impact Assessment for Flooding**

<b>Butler County</b>	
Probability	4 - High
Impact	4 - Catastrophic
Location Extent	2 - Small
Warning Time	3 – 6 to 12 hours
Duration	3 - Less than one week
<b>Town of McKenzie, Butler County</b>	
Probability	1 -Very Low
Impact	1 - Minor
Location Extent	1 - Negligible
Warning Time	3 – 6 to 12 hours
Duration	2 – Less than 24 hours
<b>Crenshaw County</b>	
Probability	4 - High
Impact	4 - Catastrophic
Location Extent	2 - Small
Warning Time	3 – 6 to 12 hours
Duration	3 - Less than one week
<b>Pike County</b>	
Probability	4 - High
Impact	4 - Catastrophic
Location Extent	2 - Small
Warning Time	3 – 6 to 12 hours
Duration	3 - Less than one week
<b>Town of Banks, Pike County</b>	
Probability	1 -Very Low
Impact	1 - Minor
Location Extent	1 - Negligible
Warning Time	3 – 6 to 12 hours
Duration	2 – Less than 24 hours
<b>Barbour County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Coffee County</b>	
Probability	4 - High
Impact	2 – Limited
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours

Duration	1 – Less than 6 hours
<b>City of Elba, Coffee County</b>	
Probability	4 - High
Impact	4 - Catastrophic
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	4 – Less than 6 hours
<b>Covington County</b>	
Probability	4 - High
Impact	2 - Limited
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Dale County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Geneva County</b>	
Probability	4 - High
Impact	2 – Limited
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Henry County</b>	
Probability	4 - High
Impact	2 - Limited
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Houston County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours

**Barbour County-** The primary flooding vulnerability facing Barbour County is flooding and ponding in low lying rural areas. Many roads are unimproved in rural Barbour County and have poor or inadequate drainage facilities that allow dangerous flooding and ponding conditions. Because these vulnerabilities are located in rural areas there is no large scale flooding vulnerability to a significant population of the county. Cowikee Water Authority, Mount Andrew Water Authority and West Barbour County Water Authority are located in rural regions of Barbour County. These utilities face the same flooding vulnerabilities as other rural areas of Barbour County.

Baker Hill’s primary flood vulnerability results from poor drainage in low lying areas on unimproved roads. The primary vulnerability facing the Baker Hill Water Authority is poorly drained unimproved roads during times of intense rainfall. A minimal number of structures are vulnerable to flooding in Baker Hill and Baker Hill Water Authority because of the rural nature of the community.

The primary flood vulnerability facing Blue Springs is flooding due to poor drainage systems on rural roads after periods of intense rainfalls. After intense rainfalls ponding and flooding occurs in low lying areas that overwhelms the drainage system and causes further damage to the infrastructure in the community.

The City of Clayton's greatest flood vulnerability is from ponding during times of intense rainfall. During these times of intense rainfall ponding in low lying areas occurs. These problems are exacerbated by the city's poor drainage facilities and unimproved street conditions.

The Town of Clio's greatest flood vulnerability is from ponding during times of intense rainfall. During these times of intense rainfall ponding in low lying areas occurs. These problems are exacerbated by the city's poor drainage facilities and unimproved street conditions. A minimal amount of residences are affected by this type of ponding and flooding.

Within the City of Eufaula, flooding problems are due primarily to the overflow of the Chattahoochee River and Lake Eufaula (Walter F. George Reservoir). While Eufaula City Schools are located in close proximity to Lake Eufaula they are located outside the designated flood zones and are not as vulnerable to flooding. Poor drainage facilities and unimproved streets are the primary causes of the localized flooding and ponding that occurs in Eufaula. Most of the drainage issues are located on residential streets or near the state park in Eufaula.

The Town of Louisville's greatest flood vulnerability is from ponding during times of intense rainfall. During these times of intense rainfall ponding in low lying areas occurs. These problems are exacerbated by the town's poor drainage facilities and unimproved street conditions.

**Butler County-** According to the Risk Impact Assessment, the flooding hazard scored a value of 3.4 for all of Butler County except the Town of McKenzie which scored a value of 1.3, on a scale of 0 to 4. There are a number of low-lying roads in Butler County that are vulnerable to flash flooding throughout the county. The most vulnerable roads are in the southern part of the county without structural drainage facilities and are impacted by the Brushy Creek floodplains and Pigeon Creek Swamp area. Due to the rural nature of these areas, however, only a small portion of residents are impacted, and the biggest impact is the temporary road closings and repair.

The Town of Georgiana may experience flooding from Panther, Persimmon, and Rocky Creeks which can top their banks during intense rainfall. The east side of Georgiana contains a swamp that is subject to ponding water during intense rainfall events. These problems are exacerbated by the town's poor drainage facilities on residential streets. Very little development has occurred within the noted floodplain areas. In the past, Rocky Street and Rocky Lane were unpaved roads on the east side of the town with only one outlet. Residents in these areas were often trapped due to the roads becoming impassable during storm events. These roads have since been improved to enable traffic flow even during storm events. Currently, the most vulnerable areas are U.S. Highway 31, and Alabama Highways 55 and 106 due to flash flooding on the town's primary travel corridors which impact a significant number of commuting vehicles. The Georgiana School is located within a floodplain that is a tributary to Rocky Creek which is addressed under the Butler County School System.



The City of Greenville may experience localized ponding along residential streets during intense rainfall events due to poor drainage systems which the city plans to address in the future. Smaller Zone AE (one-percent annual chance flood with elevation) designations are found in Greenville along small lengths of Peavy Creek, Stallings, Creek, Tanyard Branch, and tributaries to Persimmon Creek. Areas vulnerable to flooding in the City of Greenville are located on the city's east side, associated with Persimmon Creek and its tributaries, and on Greenville's southwest side, associated with Stallings Creek and Peavy Creek. Persimmon Creek flows north to south primarily through lightly developed to undeveloped parts of the city, with little to no impact on residents or facilities. In the northern part of the city, however, Persimmon Creek and one of its tributaries surround the Greenville Municipal Airport. Although only one event, which impacted several counties in south Alabama, has reported flooding at the airport, its location within these two floodplains makes it a vulnerable critical facility. A tributary to Persimmon Creek in the south central part of the city makes the residents in the School Highland Road area vulnerable to flash floods and standing water. This area impacts approximately 31 parcels with 12 structures, having a combined total value of just under \$1.5 million. The most vulnerable infrastructure in Greenville is one of the city's main east-west corridors, U.S. Highway 10, which has several low-lying areas that are susceptible to flash flooding. These include the crossing of Stallings Creek, east of Interstate 65; crossing of an unnamed tributary to Persimmon Creek near Industrial Boulevard; a low-lying rail underpass between Olive Street and Bolling Street; crossing of Persimmon Creek Tributary Number 3, west of Beeland Park; and crossing of Persimmon Creek, east of U.S. Highway 31. Alabama Highway 10 is Greenville's primary downtown route and the primary corridor for east-west traffic. Although very little personal or property damage has occurred, flash flooding along this major route is an impediment to safe and efficient travel.

As noted in the 2009 Butler County Flood Insurance Study, the Town of McKenzie is considered to be a non-floodprone community due to the lack of flood areas or flood plains located with the McKenzie corporate boundaries.

The Butler County School System consists of Greenville Elementary School, W.O. Parmer Elementary School, Greenville Middle School, Greenville High School, Georgiana School, and McKenzie School. The Butler County School system does not experience frequent riverine flooding nor flash flooding and are not considered a flood hazard. The Georgiana School, however, does lie within a second tier unnamed tributary to Rocky Creek. No flooding incidences have been reported at the Georgiana School and possible short-term standing water appears to be the only threat to the school.

**Coffee County-** The principal sources of flooding in Coffee County, Alabama, are Pea River, Beaver dam, Blanket, Cowpen, Harrand, Patrick, and Whitewater Creeks. Low-lying areas located along Pea River and Blanket, Cowpen, Harrand, Patrick and Whitewater Creeks are occasionally flooded. County Road 682 at Double Bridges Creek faces a continuous vulnerability from flood waters as well as numerous other county roads. The Jack Water Authority is located in the northern portion of Coffee County about 10 miles north of the City of Elba. The Jack Water Authority primarily covers rural areas where single family homes and small manufacturing businesses are located. The Jack Water Authority faces minimal flooding vulnerabilities primarily on poorly drained unimproved county roads. Coffee County intends to address these vulnerabilities primarily through improving the drainage and road system

throughout the county and in the municipalities. Coffee County Schools are located outside the designated flood zones and are not as vulnerable to flooding.

The City of Elba is the most flood vulnerable community in Coffee County. There are several areas that are considered flood prone in Elba. These areas are located in Elba along State Highway 189 South and north of Elba on Riverview Drive. Primary structures that are vulnerable to flooding in these areas include single family homes and light manufacturing and retail businesses. The west side of the city also faces vulnerabilities to flooding due to its proximity to Beaver Dam Creek. This area is primarily residential structures along with some retail and light manufacturing industries that could be affected by future flooding. The city plans to address these flood prone areas in the future. Elba City Schools are located outside the designated flood zones and are not as vulnerable to flooding.

The City of Enterprise experiences flooding during times of intense rainfall however there is no threat to Enterprise due to riverine flooding currently. The primary vulnerabilities in Enterprise are near Double Bridges Creek and Harrand Creek. The city is planning to address these areas in the future. Primary structures vulnerable in these areas include single family and multifamily residential homes. Enterprise City Schools are located outside the designated flood zones and are not as vulnerable to flooding.

The Town of Kinston also experiences flooding during times of intense rainfall. This flooding is caused by a poor downtown drainage system on Main Street and the town has plans to address these issues in the future. Single family residences are the most affected due this localized flooding.

The Town of New Brockton only experiences intermittent flooding issues caused by poor drainage in low lying areas. There are no flood vulnerable areas or structures in New Brockton. If flooding severity increases in the future the town will look into mitigation measures.

**Covington County-** The principal flooding sources within Covington County include Conecuh River, Five Runs Creek, Patsaliga River, Pigeon Creek, and their associated tributaries. Other areas prone to flooding in Covington County include poorly drained low lying areas and along unimproved county roads within unincorporated areas of the county. The primary structures that are vulnerable to flooding in Covington County include single family residential homes, light manufacturing and retail businesses throughout the county. Covington County intends to address these vulnerabilities primarily through improving the drainage and road system throughout the county and in the municipalities. Covington County Schools are located outside the designated flood zones and are not as vulnerable to flooding.

The principal flooding vulnerability facing the City of Andalusia is flooding from poorly maintained streets and drainage systems. Poor drainage has led to minor ponding and flooding on north side of Bypass between Coleman Drive and Berry Avenue, to a flood prone area, beginning south of East Pass Road and ending at Lark Street, from East Watson Street, behind First Baptist Church, to South Cotton and Knox streets, to an eroding drainage ditch between Hilda Street and Manhattan Drive. This vulnerability primarily affects residential, manufacturing and retail businesses located along those corridors. The city plans to address these areas in the future. Andalusia City Schools are located outside the designated flood zones and are not as vulnerable to flooding.

The communities of Babbie faces flooding vulnerabilities primarily on poorly drained unimproved county roads. This flooding primarily occurs in rural unpopulated areas that affect few single family homes. Parker Road is a poorly drained unimproved road in Babbie that experiences minor flooding vulnerabilities which the town is seeking approval of a grant from the state to improve the drainage in this area.

The town of Carolina's flood vulnerabilities lay primarily on poorly drained unimproved county roads. This flooding primarily occurs in rural unpopulated areas affecting single family home structures. However, due to infrequency of flooding in this area the town does not have a plan set to address these areas.

The primary flooding vulnerabilities facing the City of Florala include flooding caused from poor drainage facilities and low lying sewer lift stations. This flooding primarily is located at Lake Jackson around 2<sup>nd</sup> Avenue and Gilmer Avenue. Additional drainage flooding occurs at 6<sup>th</sup> and 7<sup>th</sup> Avenue, 7<sup>th</sup> Street and 4<sup>th</sup> Street. The city is looking into improving drainage in these areas in the future. These areas are primarily residential areas affecting single family homes.

The Town of Gantt faces unique flooding vulnerabilities due to Power south's Gantt / Point A Dam being located in the town. Gantt works with Power south frequently to evaluate flooding vulnerabilities due to the dam. Other flooding vulnerabilities include poor drainage facilities that cause flooding on town streets and drainage issues behind town hall. The town is working to address these areas in the future. Gantt is primarily a residential community and single family homes are the primary flooding vulnerability.

The Town of Heath faces a minor flooding vulnerability that can be mitigated by replacing undersized and deteriorated culverts within the town. The town is planning to take these mitigation measures at a future date. The areas affected by the minor flooding are primarily single family residences.

The Town of Horn Hill faces minor flooding due to overflowing ditch culverts and its proximity to Indian Creek. If flooding severity increases in these areas the town will plan to take mitigation measures at a future date. The primary vulnerability facing the town is single family homes and manufactured homes driveways being inaccessible due to street ponding.

The Town of Libertyville faces minimal flooding vulnerabilities primarily from poorly maintained drainage ditches along Alabama Highway 55. If flood severity or frequency worsen the town will take mitigation measures. The town is located in a rural area and primarily single family homes with acreage face ponding near driveways and drainage ditches.

The Town of Lockhart faces flooding vulnerabilities due to poorly maintained drainage facilities and unimproved streets. Drainage facilities cause ponding on Cherokee Street, Choctaw Street, Osage Avenue, and Rappahannock Avenue. The town is seeking to improve the drainage along these streets. The structures in these areas are primarily single family residences.

The Town of Onycha faces minimal flooding vulnerabilities primarily resulting from poorly maintained drainage ditches and unimproved streets. If flooding events worsen or become more

frequent the town will look into taking mitigation measures. The vulnerable flooding areas are primarily single family homes.

The City of Opp faces flooding vulnerabilities from poorly maintained drainage facilities and streets. The primary flooding vulnerability is ponding in streets and drainage ditches in times of intense rainfall. The primary structures vulnerable to this flooding is single family home residences and retail businesses. The city is seeking funding opportunities to improve streets and runoff drainage systems within the residential neighborhoods and business areas. Opp City Schools do not lie in a flood plain and are not vulnerable to flood hazards.

The Town of Red Level faces minimal flooding vulnerabilities mainly due to poorly maintained storm drainage facilities and unimproved roads. Minor ponding occurs on North Street and County Road 107 due to poor drainage and drainage facilities. If flooding severity increases the town will look into mitigation measures. The primary structures vulnerable to this flooding are single family home residential areas.

The Town of River Falls faces some flooding vulnerabilities due to Power south Energy Cooperative dam being located near the town. Other vulnerabilities include minor ponding during times of intense rainfall and poorly maintained drainage ditches and streets. The primary structures vulnerable to this flooding are residential areas and light industry areas. The town is looking into measures to mitigate effects of the ponding and also working with South Energy Power with up keep of the dam.

The Town of Sanford flooding vulnerabilities occurs primarily because of poorly maintained drainage facilities and unimproved roads within the town. Sanford consists of mainly single family homes in rural areas. If flooding severity increases the town will take mitigation measures.

**Crenshaw County-** Based on historic occurrences, Crenshaw County is more vulnerable to flash flooding than to riverine flooding. In the Risk Impact Assessment for flooding in Crenshaw County, flooding scored a value of 3.4, ranking it as the number one priority hazard risk in Crenshaw County. In the unincorporated part of the county, those most vulnerable to flooding area properties in low lying areas associated with Blue Creek, the Conecuh River, Little Patsaliga Creek, Patsaliga Creek, and Piney Woods Creek. For the most part, there is very little development in these rural parts of the county and the surrounding property is used for forestry purposes. The primary threat in the unincorporated part of Crenshaw County is the flooding and erosion of low-lying roads as they cross the major stream beds, which can then cause flooding of the occasional nearby housing unit. The most significant issue with flooding on these low-lying roads is the impediment to traffic flow and access to higher grounds. Crenshaw County makes improvements to these vulnerable areas as financially feasible based on the number of people impacted and has undertaken several road and drainage improvement projects through the State of Alabama Community Development Block Grant Program. Crenshaw County intends to continue addressing problem areas by improving the drainage and road system throughout the county as funds are available.

The Town of Brantley is slightly susceptible to flooding of the Conecuh River, with associated tributaries and floodplains located across the southern part of the town. There is almost no development within the larger floodplains of the town and land is primarily used for forestry

purposes. The most vulnerable population in Brantley are residents along N. Sasser Street, just west of Main Street, due to a flood plain along a tributary to the Conecuh River. This area is home to much of town's lower income population as well as a small low-income housing complex. Flooding in this area has the potential to impact 34 structures on 44 parcels with a combined total value of just over \$2 million. Secondly, another tributary to the Conecuh River has the potential to impact seven structures on 13 parcels, most of which are residential, with a combined total value of \$822,380.

The Conecuh River forms the southern border of the Town of Dozier while Hornet Creek forms the western border. There is no structural development within the floodplains of either waterbody; however, a small portion of the Town of Dozier's sewage lagoon system lies within the Conecuh River floodplain in the southern part of the town. Further, the Dozier Downtown Main Street terminates at a bridge over the Conecuh River, making the downtown area, including town hall, vulnerable to flooding should there ever be any clogging or spillover at the bridge site. Otherwise, Dozier has no history of past flooding events and little probability of future vulnerability.

The Town of Glenwood lies just northwest of the Conecuh River; however, there is no structural development within the floodplain of the main stem of the river. A tributary to the Conecuh River that flows through the western part of the town does present some issues with nearby residents due to the expansive nature of the floodplain, high water table and flat terrain which results in standing water on roadways and a limited number of properties in the area bounded by Gin Creek Road, Hughes Road, Golden Road and Glenwood Road. Otherwise, Glenwood has no history of past flooding events and little probability of future vulnerability.

The City of Luverne has had three historical flooding events but no reported injuries, deaths, or property damages. The most vulnerable part of the city is the northwestern side where there is an expansive flood plain associated with Patsaliga Creek. In the northern part of the city, Frank Sikes Airport is located within this floodplain, east of the U.S. Highway 231. The airport is the only critical facility within the floodplain. There is no residential or commercial development within the floodplain and the majority of the floodplain is forested. The only other issue with the Patsaliga Creek floodplain in Luverne is the crossing of U.S. Highway 331 and the associated bridges. This portion of US 331 carries a high volume of heavy truck traffic as well as an extremely high volume of seasonal traffic traveling to the Florida beaches. As such, the northern stretch of US 331 in Luverne is the site of numerous accidents, making this portion of roadway extremely vulnerable to any future flooding potential. Other flooding vulnerability issues in Luverne are related flash flooding on low-lying roads during heavy storm events, or hurricane storm events. These flash flooding events have occurred in locations throughout the city, usually resulting in road closures for a short period of time until the water drains off the roadway.

A swamp-like floodplain associated with Piney Woods Creek is found on the west side of the Town of Petrey. The floodplain area is forested and has no structural development. Local reports state that there is no history of flooding in Petrey; however, the National Centers for Environmental Information reports one flooding event due to heavy storms related to Hurricane Fay in 2008 which caused road closures in the area for more than one hour. Petrey has no other history of past flooding events and little probability of future vulnerability.

The Town of Rutledge lies north of the Patsaliga Creek and east of Little Patsaliga Creek. A very small amount of the Little Patsaliga Creek floodplain on the west side of the town is the only



floodplain area within the corporate borders. Rather than riverine flooding, Rutledge is more susceptible to flash flooding and ponding due to its topography which has very little change in elevation throughout the town. The Town of Rutledge has undertaken numerous road and drainage improvement projects through the State of Alabama Community Development Block Grant Program to alleviate local flooding during heavy rainfall events. The Town intends to continue making road and drainage improvements as funds are available.

The Crenshaw County School System includes three schools: the Brantley School, located on Main Street (U.S. Highway 331) in Brantley; the Highland Home School, located on U.S. Highway 331 in the Highland Home community in the northern part of the county; and the Luverne School, located on 1<sup>st</sup> Avenue in Luverne. None of the school campuses are located in a floodplain area, have no historical reports of local flooding, and are therefore not considered to be vulnerable to flooding issues.

**Dale County-** the principal sources of flooding in Dale County are the Choctawhatchee River Watershed, and the Pea River Watershed. Based on a review of the FRIS maps, flooding in Dale County is most likely to be of a riverine nature, with parts of Newton, Daleville, Clayhatchee and Ozark being in the floodplain areas found along the Choctawhatchee River, Claybank Creek, and the Little Choctawhatchee River. Flooding in Daleville is likely to be from intensive rainfall and due to overwhelmed drainage systems. The county has plans to look into mitigation measures for these flood prone areas. The flooding primarily impacts residential areas and businesses. Dale County Schools are located outside the designated flood zones and are not as vulnerable to flooding.

The Town of Ariton flood vulnerabilities are primarily the result of low lying areas flooding during times of intense rainfall. Poorly maintained drainage facilities also contribute to ponding during flooding conditions. If flood severity or frequency increases the town will take mitigation measures. These issues primarily affect single family homes and drive ways homeowners use to access their homes.

The Town of Newton is located in close proximity to the Choctawhatchee River which is a flooding vulnerability to the town. Flooding in Newton is typically located on Alabama State Highway 123 and Alabama State Highway 134. Most of the buildings that are affected by flooding in Newton are located near the river and in low lying areas. The town plans to take mitigation measures in the future. These structures are typically single family homes on rural lots.

Clayhatchee is a riverine however because these areas are primarily rural in nature only single family residential homes in the flood zones would be affected north and south of State Route 92. Most of the flooding vulnerability in Clayhatchee is due lack of maintenance on drainage facilities and unimproved streets with poor drainage. If flooding extent and frequency increase the town will look into mitigation measures in the future. This vulnerability affects primarily single family residences.

The Town of Grimes flood vulnerabilities are primarily the result of low lying areas flooding during times of intense rainfall. This vulnerability affects single family residences and unimproved streets. In the future if flooding extent and frequency increase the town will look into mitigation measures.

The Town of Level Plains is in close proximity to Cowpen Creek which presents the primary flood vulnerability to the town. The town experiences flooding and ponding in low lying areas during times of intense rainfall. If flood frequency and severity increases in the future the town will take mitigation measures. This flooding primarily affects single family residences, light manufacturing businesses and retail businesses.

The Town of Midland City faces minimal flooding vulnerability mainly due to poor drainage facilities and unimproved roads within the town. This flooding primarily affects single family residences. If flood frequency and severity increases in the future the town will take mitigation measures.

The Town of Napier Field faces minimal flooding vulnerability mainly due to poor drainage facilities and unimproved roads within the town. If ponding frequency and severity increases in the future the town will take mitigation measures. This ponding primarily affects single family residential homes within Napier Field.

The Town of Pinckard's primary vulnerability to flooding is due to poorly maintained drainage facilities and unimproved streets. This results in ponding in drainage ditches and flooding on unimproved roads within the town. In the future if flooding increases in future the town will take mitigation measures. The flooding primarily affects single family residential homes.

The City of Ozark faces some flooding vulnerabilities that could affect various portions of the city. Little Claybank Creek in Ozark is also a flood prone area. The primary vulnerability to Ozark is along U.S. Highway 231 at the Claybank Creek Bridge and along Roy Parker Road. The city has plans to address these flood prone areas in the future. These areas are lightly populated and primarily affect single family residential homes and retail businesses. Ozark City Schools are located outside the designated flood zones and are not as vulnerable to flooding.

**Geneva County**— Several residences along Watson Street and Westville Avenue are located in the Pea River floodplain. Residential areas exist on Cumbra Street and in the area across from the County Courthouse north of Maple Avenue that are in the floodplain of Double Bridges Creek. Several residences located on Highway 27 between Double Bridges Creek and Choctawhatchee River are subject to flooding. The county is looking into mitigating these flood prone areas in the future. Single family residential areas are primarily effected by this flooding, as well as some retail businesses. Geneva County Schools are located outside the designated flood zones and are not as vulnerable to flooding.

The Town of Black's flood vulnerability is primarily the result of low lying areas and poor drainage facilities. There are several small tributaries located near East Lowery Street and Burnt Street that in Geneva County that are vulnerable to flooding. These drainage issues are primarily in low lying flood prone areas. If flooding severity increases the town will adopt mitigation measures. Single family residential areas are primarily affected.

The City of Geneva - The City of Geneva is the community most vulnerable to flooding in Geneva County. The majority of Geneva is in the AE Floodway and has experienced extensive flooding in the past. Typical structures vulnerable to flooding in Geneva include single and multi-family residential homes, manufacturing businesses, and retail businesses. There are also critical facilities vulnerabilities in Geneva such as the Geneva County Courthouse, Geneva City Hall, Geneva

Police Department and EMA due to their proximity to the Choctawhatchee River and Live Oak Cutoff. The Geneva City Schools flood vulnerability is similar to the City of Geneva's because of its proximity to the Choctawhatchee River. The city plans to address these vulnerable areas in the future. Geneva City Schools are located outside the designated flood zones and are not as vulnerable to flooding.

The City of Hartford primary flooding vulnerability is the result of several tributaries north and south of the downtown area. This flooding vulnerability primarily affects single family homes and retail businesses. The city plans to address these vulnerable areas in the future. Hartford's flood vulnerability also is the result of poor drainage systems and street conditions throughout the city.

The Town of Malvern faces flooding vulnerability due to minor ponding issues experienced because of inadequate drainage systems and unimproved street conditions. If ponding severity increase in the future the town will take mitigation measures. This affects primarily residential driveways and streets within the town limits.

The City of Samson's flooding vulnerability is primarily a result of inadequate drainage facilities and poor street conditions throughout the city. Drainage problems near South Broad Street also allow ponding conditions. The city plans to address these vulnerable areas in the future. Single family residences are the primary structures affected by ponding and flooding in Samson.

The City of Slocomb's flood vulnerability is primarily the result of an inadequate drainage system and poor street conditions. The city is currently seeking funding opportunities from the state to improve street and drainage conditions to address ponding. These drainage and street issues result in ponding near driveways and residences that prevent access to residential dwellings.

The Town of Coffee Springs' flood vulnerability is primarily the result of low lying areas and poor drainage facilities. These problems are exacerbated by the city's poor drainage facilities and unimproved street conditions in the residential communities. If flood severity increases the city will take mitigation measures in the future.

**Henry County**– The principal sources of flooding in Henry County are the Choctawhatchee River Watershed, and the Pea River Watershed. Flooding in Henry County is most likely to be caused by heavy rainfall and ponding conditions on unimproved county roads. There are several areas in the northern part of the county that border Abbie Creek that experience minor flooding issues. Only a small number of residential single family homes are vulnerable to infrequent flooding in Henry County. In the future if flood severity increase the county will address mitigation measures. Henry County Schools are located outside the designated flood zones and are not as vulnerable to flooding.

The City of Abbeville primary flood vulnerability comes from flooding and ponding in low lying areas within the city. This flooding and ponding is the result of intense rainfalls and an inadequate drainage system and poorly maintained streets. North Doswell Street and Gilliam Street are areas of Abbeville where some flooding occurs that cause's minor damage. The city has plans to address these areas in the future. This flooding primarily affects single family residences.

The Town of Haleburg and the Town of Newville face minor flood vulnerabilities that are collectively the result of ponding and runoff from inadequate drainage facilities and unimproved

roads in rural surrounding areas. Few residential areas are threatened by this ponding or flooding. If flood severity increases in the future the town will look into mitigation measures.

The City of Headland flood vulnerabilities are primarily the result of ponding and flooding due to runoff from inadequate drainage facilities and poor road conditions. Blackwood Creek flows under East Main Street. State Highway 173 causes ponding in low lying areas that can affect road conditions. The city has plans to address these issues in the future. Primarily single family residences are affected by the ponding and flooding areas.

The Town of Newville's vulnerability to minor flooding is due to poorly maintained drainage facilities and unimproved streets. This results in ponding in drainage ditches and minor flooding on unimproved roads within the town. In the future if flooding increases in future the town will take mitigation measures. The flooding primarily affects single family residential homes and rural lots.

**Houston County-** the principal sources of flooding in Houston County are the Chattahoochee River Watershed and its tributaries. Based on a review of the FRIS maps, flooding in Houston County is most likely to be of a riverine nature, with parts of Columbia, and parts of the Gordon town limits being in the floodplain areas found along the Chattahoochee River. The Little Choctawhatchee River flows through part of Dothan which during periods of intense rainfall can cause ponding in low lying area and can overwhelm drainage systems. Flooding in Houston County is likely to be from intensive rainfall and due to overwhelmed drainage systems. The county has plans to look into mitigation measures for these flood prone areas. The flooding primarily impacts residential areas and businesses. Houston County Schools are located outside the designated flood zones and are not as vulnerable to flooding.

The Town of Ashford's primary flood vulnerability comes from flooding and ponding in low lying areas within the town. This flooding and ponding is the result of intense rainfalls and an inadequate drainage system and poorly maintained streets. In the future if flooding increase the town will take mitigation measures. This flooding primarily affects single family residences.

The Town of Avon's primary vulnerability to flooding is due to poorly maintained drainage facilities and unimproved streets. This results in minor ponding in drainage ditches and flooding on unimproved roads within the town. In the future if flooding increases in future the town will take mitigation measures. The ponding primarily affects single family residential homes.

The City of Columbia's primary vulnerability to flooding is from its proximity to the Chattahoochee River and its tributaries. Poorly maintained street drainage systems result in ponding along low lying areas during periods of intense rainfall. Primarily single family homes and light industry are vulnerable, the city has a plan to look into taking mitigation measures in the future.

Town of Cottonwood's minor flooding incidents are primarily due to overflow of Boggy Creek, Buck Creek, and their tributaries. Single family residential homes and residential streets that lie within low areas area vulnerable to this minor flooding. If flooding severity increases the town will take mitigation measures.

The Town of Cowarts' primary vulnerability to flooding is due to poorly maintained drainage facilities and unimproved streets. Resulting in minor ponding along unimproved roads within the town. In the future if flooding increases in future the town will take mitigation measures. The ponding primarily affects single family residential homes.

Dothan primarily during times of intense rainfall. The majority of flooding in Dothan Flooding problems occur on Rock Creek in various locations – structures flood west of Westgate Parkway and near Brookside Drive; and flooding occurs on Rock Creek Tributary at Plaza Drive, Cherokee Drive, the Garden District, and Girard Ditch. Omusee Road Bridge abutment at Omusee Creek. On Poplar Springs Branch, Dunn Road is overtopped and structures on State Highway 52/Columbia Highway and Plant Street are flooded during heavy rains. On Cypress Creek, flooding has occurred in the Aberdeen and Shamrock Road area and at the intersection of Third Avenue and the Atlanta and St. Andrews Bay Railway. Flooding vulnerabilities are also located at, Cypress Creek Tributary 2 overtopped Mimosa Drive and State Highway 53/Cottonwood Road. Flowers Hospital, along with Grove Park, Chapel wood, and Spann Farm Subdivisions experience flooding from overland flow and lack of defined waterways. Dothan City Schools are located outside the designated flood zones and are not as vulnerable to flooding.

The Town of Gordon's primary vulnerability is due to poorly maintained street drainage systems result in ponding along low lying areas during periods of intense rainfall. Few single family homes are vulnerable. If flood severity and frequency increase the town will take mitigation measures.

The Town of Kinsey's vulnerability to flooding is from its proximity to Omusee Creek and its tributaries. Flooding and ponding occurs in low lying areas during periods of heavy sustained rainfall. Streets such as Beauville Dr., Nomad Circle, and El Camino Drive are streets susceptible to flooding. The town has plans to address flooding in the future. Single family residential neighborhoods, businesses, and light manufacturing areas are vulnerable to this flooding.

The Town of Madrid's primary vulnerability to flooding is due to poorly maintained street drainage systems that result in ponding along residential streets during periods of intense rainfall. Single family homes are vulnerable to this ponding. If ponding severity and frequency increase the town will take mitigation measures.

The Town of Rehobeth's vulnerability to flooding is along low lying streets with ill maintained culverts and unimproved roads along Chipola Creek, Harkin Branch, and Limestone Creeks and its tributaries. The town has a plan to address the drainage issues in the future. Residential areas are the most vulnerable to this flooding.

The Town of Taylor's primary vulnerability is due to poorly maintained street drainage systems result in ponding during periods of intense rainfall. Single family residential areas are vulnerable to this ponding. If ponding severity and frequency increase the town will take mitigation measures.

The Town of Webb's primary vulnerability are low lying areas that can pond and flood during periods of intense rainfall due to poorly maintained street drainage systems Single family homes are vulnerable to this ponding. If flood severity and frequency increase the town will take mitigation measures.



**Pike County-** Based on historic occurrences, Pike County is more vulnerable to flash flooding than to riverine flooding. In the Risk Impact Assessment for flooding in Pike County flooding scored a value of 3.4 out of 4 points, except for the Town of Banks, ranking it as the number one priority hazard risk in most of the county. In the Town of Banks, flooding scored a value of 1.3, making it one of the four lowest hazard risks for the town. The principal sources of flooding in Pike County are Patsaliga Creek, which forms the county's northwestern border; the Conecuh River which flows diagonally across the county from the northeast corner to the southwestern corner; and the Pea River, which forms most of the county's eastern border.

The primary threat in the unincorporated part of Pike County has been the flooding and erosion of low-lying roads as they cross the major stream beds, which can then cause flooding of the occasional nearby housing unit. The most significant issue with flooding on these low-lying roads is the impediment to traffic flow and access to higher grounds. In the unincorporated part of Pike County, the spots that are most likely to be vulnerable to flooding include Pike County Road 4427 at the Barefoot Creek crossing, located southeast of Brundidge, and on Pike County Road 3319 at the Whitewater Creek crossing, located southwest of Brundidge. Pike County has had considerable success with addressing the county's road and drainage needs with improvement projects funded through the State of Alabama Community Development Block Grant Program. Crenshaw County intends to continue addressing problem areas by improving the drainage and road system throughout the county as funds are available.

There are no floodplains located within the Town of Banks and there is no record of any historical occurrences of flooding in the town. Therefore, the Town of Banks is not considered to be vulnerable to flooding.

The City of Brundidge is located just west of the Pea River but is more vulnerable to flooding from the Pea River tributaries that are located within the town's corporate limits, including Bear Creek, Bowden Mill Creek, Mims Creek, Sandy Run Creek, and Whitewater Creek. Due to the topography of the city, floodplains in Brundidge are generally constrained to linear areas that follow the course of the major streams and tributaries in the city. Floodplains in the southern part of the city tend to be slightly more expansive than those in the north, particularly along Mims Creek. Most of the floodplains are not in the developed portions of Brundidge and do not present vulnerable conditions for Brundidge residents. There exist two areas that are exceptions, both of which are adjacent to highly developed areas in the southwest quadrant of the city. The first area includes tributaries to Whitewater Creek located in the southwest corner of the intersection of U.S. Highway 231 and Alabama Highway 10/County Road 3316, which has potential for commercial or industrial development. In fact, there are floodplains on either side of the WalMart Distribution Center, which is a major economic contributor to the Brundidge economy. The second vulnerable area is the location of Mims Creek, where it appears that several houses have been constructed within the floodplain. In particular, there are 12 residences located on 12 parcels in the Caldwell Subdivision, with a total combined value of \$902,000, that suffer from ponding and flooding from Mims Creek during heavy rainfall events. The City of Brundidge has filed a Hazard Mitigation Grant Program (HMGP) application with FEMA to address the flooding in this area.

The Town of Goshen lies on the western banks of the Conecuh River. With less than 10 feet of elevation change throughout the town, Goshen is vulnerable to flooding of the Conecuh River, along with flooding of the numerous tributaries that are located within the Town's corporate boundaries. Unfortunately, some development has occurred within the existing floodplains,

making these areas even more vulnerable to flooding conditions. Development within the floodplains includes two poultry farms on the western side of the town and approximately seven residences along Glenwood Drive (CR 1132), just south of South Montgomery Road. These properties have a total combined value of more than \$311,000. Perhaps the most vulnerable part of Goshen is a residential area bounded by Baptist Bottom Road and Anderson Boulevard, south of Greenville Avenue, that lies between two floodplains. There are local reports of flooding and ponding due to the low elevation between the floodplains and flat topography of the area. This area is home to approximately 30 structures, many of which are manufactured homes, with a total combined value of approximately \$650,000. Further, the roads in the area are the primary access to the town's largest industry, Birdsong Peanuts. Although the roads are paved, they are in poor condition with no structural drainage. The heavy truck traffic that serves the local industries have only increased the problem.

The City of Troy is not overly vulnerable to flooding of the Conecuh River which lies across the northeast part of the city, but is vulnerable from runoff from Persimmon Creek and its tributaries. Most streets in Troy, although not all, have curb and gutter for drainage. Troy's storm drainage system consists of a piped conveyance system with storm drain inlets, pipes and culverts in the downtown area and a few residential areas. The remainder of the city's storm drainage system is a gravity-based open conveyance system with storm runoff flowing to the lowest point through open ditches and grassed swales to natural creeks. The topography of the city allows for rapid water runoff that causes severe erosion and deep gullies. The major drainage problems begin at the headwaters of Persimmon Creek that primarily lead to street runoff in the north central part of the city. Troy has completed several street and drainage improvements throughout the city, some of which are FEMA related and funded, and some through the state's CDBG program. There are many streets that, due to their age and physical deterioration, need to be resurfaced. Further, a large portion of street deterioration in Troy is a result of drainage issues that undermine roadways.

The Pike County School System includes seven schools: Banks School, Goshen Elementary School, Goshen High School, Pike County Elementary School (Brundidge), Pike County High School (Brundidge), Troy-Pike Center for Technology (Troy), and the Center for Advanced Academics and Accelerated Learning (Troy). None of the schools are located within a floodplain area and there is no record of any historical flooding at any of the schools. Therefore, the Pike County School System is not considered to be vulnerable to flooding.

Troy City Schools System consists of Troy Elementary School, Charles Henderson Middle School, and Charles Henderson High School, all of which are located in Troy. None of the three school structures are located within a floodplain, although the south side of the Middle School football field lies within a small floodplain area. There is no record of any historical occurrences of flooding at any of the schools. Therefore, the Troy City Schools System is not considered to be vulnerable to flooding.

The Troy University campus has two floodplain areas, both of which are associated with tributaries to Persimmon Creek. One floodplain lies across the northern part of the campus and terminates at Lake Lagoon. The other floodplain lies across the southern part of the campus within the Troy Arboretum. There is no structural development within either floodplain, although some the university's tennis courts are located within the northern floodplain. There is no record of any historical occurrences of flooding at Troy University. Therefore, the Troy University is not considered to be vulnerable to flooding.

### Historical Insured Flood Losses:

According to FEMA flood insurance policy records as of August 2014, there have been 887 flood losses reported through the NFIP since 1970 in the planning area, totaling \$21,637,366 in claims payments. A summary of these figures are provided in Table 4.20. It should be noted that these loss numbers only include structures that were insured through NFIP and that were reported. It is likely that there are many other flood losses not reported, in uninsured structures, or denied payment.

### Repetitive Loss Properties:

A repetitive loss property is an insurable structure that has had two or more claims of more than \$1,000 within any ten-year period since 1978. A repetitive loss property may or may not be currently insured by the National Flood Insurance Program (NFIP). According to the State NFIP Coordinator as of June 2014. The repetitive loss data was provided by the Alabama Emergency Management Agency. Only jurisdictions that have repetitive loss properties are listed in the table.

State	County Name	Comm Nbr	Community Name	Occupancy	FMA RL Properties	Insured FMA RL Properties	Total Paid in Claims on FMA RL	NFIP RL Properties	Insured NFIP RL Properties	Total Paid in Claims on NFIP RL
AL	COFFEE COUNTY	10239	COFFEE COUNTY *	SINGLE FMLY	-	-	\$ -	1	-	\$ 19,677
AL	COFFEE COUNTY	10239	COFFEE COUNTY *	SINGLE FMLY	1	1	\$ 21,949	1	1	\$ 21,949
AL	COFFEE COUNTY	15004	ELBA, CITY OF	ASSMD CONDO	1	-	\$ 52,125	1	-	\$ 62,625
AL	COFFEE COUNTY	15004	ELBA, CITY OF	OTHR-NONRES	-	-	\$ -	3	1	\$ 420,588
AL	COFFEE COUNTY	15004	ELBA, CITY OF	SINGLE FMLY	-	-	\$ -	15	3	\$ 578,957
AL	COFFEE COUNTY	15004	ELBA, CITY OF	SINGLE FMLY	20	6	\$ 1,429,774	17	4	\$ 1,227,241
AL	COFFEE COUNTY	10045	ENTERPRISE, CITY OF	SINGLE FMLY	-	-	\$ -	4	2	\$ 69,690
AL	COFFEE COUNTY	10045	ENTERPRISE, CITY OF	SINGLE FMLY	1	-	\$ 103,986	2	-	\$ 154,480
AL	COVINGTON COUNTY	10244	COVINGTON COUNTY *	SINGLE FMLY	-	-	\$ -	4	2	\$ 111,458
AL	COVINGTON COUNTY	10244	COVINGTON COUNTY *	SINGLE FMLY	2	-	\$ 102,705	2	-	\$ 102,705
AL	DALE COUNTY	10060	DALE COUNTY *	OTHR-NONRES	-	-	\$ -	1	-	\$ 20,761
AL	DALE COUNTY	10060	DALE COUNTY *	OTHR-NONRES	1	-	\$ 240,961	1	-	\$ 240,961
AL	DALE COUNTY	10060	DALE COUNTY *	SINGLE FMLY	-	-	\$ -	3	-	\$ 80,584
AL	DALE COUNTY	10060	DALE COUNTY *	SINGLE FMLY	1	-	\$ 114,321	1	-	\$ 122,906
AL	DALE COUNTY	10061	DALEVILLE, CITY OF	SINGLE FMLY	-	-	\$ -	2	-	\$ 169,901
AL	DALE COUNTY	10061	DALEVILLE, CITY OF	SINGLE FMLY	5	2	\$ 781,907	5	2	\$ 812,886
AL	DALE COUNTY	10104	DOTHAN, CITY OF	OTHER RESID	-	-	\$ -	1	-	\$ 538,190
AL	DALE COUNTY	10104	DOTHAN, CITY OF	SINGLE FMLY	-	-	\$ -	3	1	\$ 144,927
AL	DALE COUNTY	10419	NEWTON, TOWN OF	SINGLE FMLY	1	1	\$ 126,300	-	-	\$ -
AL	GENEVA COUNTY	10085	GENEVA, CITY OF	SINGLE FMLY	-	-	\$ -	5	1	\$ 149,150
AL	GENEVA COUNTY	10085	GENEVA, CITY OF	SINGLE FMLY	2	-	\$ 142,293	2	-	\$ 142,293
AL	GENEVA COUNTY	10258	GENEVA COUNTY *	SINGLE FMLY	-	-	\$ -	4	1	\$ 285,901
AL	GENEVA COUNTY	10258	GENEVA COUNTY *	SINGLE FMLY	2	-	\$ 254,059	1	-	\$ 148,194
AL	GENEVA COUNTY	10086	HARTFORD, CITY OF	SINGLE FMLY	-	-	\$ -	1	-	\$ 41,329
AL	GENEVA COUNTY	10086	HARTFORD, CITY OF	SINGLE FMLY	1	-	\$ 37,900	1	-	\$ 66,086
AL	GENEVA COUNTY	10089	SLOCOMB, CITY OF	SINGLE FMLY	-	-	\$ -	1	-	\$ 7,722
AL	HOUSTON COUNTY	10099	ASHFORD, CITY OF	SINGLE FMLY	-	-	\$ -	3	2	\$ 205,192
AL	HOUSTON COUNTY	10101	COLUMBIA, TOWN OF	OTHR-NONRES	-	-	\$ -	1	-	\$ 361,997
AL	HOUSTON COUNTY	10101	COLUMBIA, TOWN OF	SINGLE FMLY	3	2	\$ 169,617	1	-	\$ 11,993
AL	HOUSTON COUNTY	10098	HOUSTON COUNTY *	SINGLE FMLY	-	-	\$ -	2	1	\$ 99,926
AL	HOUSTON COUNTY	10098	HOUSTON COUNTY *	SINGLE FMLY	1	1	\$ 48,199	1	1	\$ 48,199
AL	HOUSTON COUNTY	10109	WEBB, TOWN OF	SINGLE FMLY	-	-	\$ -	1	1	\$ 67,050

### High Winds: Hail, Thunderstorms, Lightning, Tornadoes, Hurricanes

**Hail:** Hail has the potential to impact all areas of the planning study area and as such receive high probability scores in each jurisdiction participating in the plan. Hail typically accompanies severe thunderstorms which are a high impact risk for all of the jurisdictions in the planning study area.

**Table 4.152: Risk Impact Assessment for Hail**

<b>Butler County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	1 - Negligible
Warning Time	4 – Less than 6 hours
Duration	1 - Less than 6 hours
<b>Crenshaw County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	1 - Negligible
Warning Time	3 – 6 to 12 hours
Duration	1 - Less than 6 hours
<b>Pike County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	1 - Negligible
Warning Time	3 - 6 to 12 hours
Duration	1 - Less than 6 hours
<b>Barbour County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	1 - Negligible
Warning Time	4 – Less than 6 hours
Duration	1 - Less than 6 hours
<b>Coffee County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	1 - Negligible
Warning Time	3 – 6 to 12 hours
Duration	1 - Less than 6 hours
<b>Covington County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	1 - Negligible
Warning Time	3 - 6 to 12 hours
Duration	1 - Less than 6 hours
<b>Dale County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	1 - Negligible
Warning Time	4 – Less than 6 hours
Duration	1 - Less than 6 hours
<b>Geneva County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	1 - Negligible
Warning Time	3 – 6 to 12 hours
Duration	1 - Less than 6 hours
<b>Henry County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	1 - Negligible
Warning Time	3 - 6 to 12 hours
Duration	1 - Less than 6 hours
<b>Houston County</b>	
Probability	4 - High

Impact	1 – Minor
Location Extent	1 - Negligible
Warning Time	4 – Less than 6 hours
Duration	1 - Less than 6 hours

Because hail will mostly occur with severe thunderstorms and high winds, hail may occur at any location within the planning area. While hail is generally not catastrophic in nature, it can cause considerable property damage. All existing and future buildings, facilities, and the general population in the planning area are considered to be vulnerable to this hazard and its impacts. Also similar to thunderstorms, hail will be more localized than hurricane events but more widespread than tornadoes.

**Thunderstorms:** Thunderstorms have the potential to impact all areas of the planning study area and as such receive high probability scores in each jurisdiction participating in the plan. Because severe thunderstorms with high winds may occur at any location within the planning area, all existing and future buildings, facilities, and the general population in the planning area are considered to be vulnerable to this hazard and its impacts. Severe thunderstorms with high winds can also produce similar effects to tornadoes and hurricanes. These effects will be more localized than hurricane events but more widespread than tornadoes.

**Table 4.153: Risk Impact Assessment for Thunderstorms**

<b>Butler County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Crenshaw County</b>	
Probability	4 - High
Impact	2 – Limited
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Pike County</b>	
Probability	4 - High
Impact	2 - Limited
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Barbour County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Coffee County</b>	
Probability	4 - High
Impact	2 – Limited
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Covington County</b>	



Probability	4 - High
Impact	2 - Limited
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Dale County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Geneva County</b>	
Probability	4 - High
Impact	2 – Limited
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Henry County</b>	
Probability	4 - High
Impact	2 - Limited
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Houston County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours

The impact of thunderstorms is generally in property damage because of falling debris, however, personal injuries and even death are not uncommon. Between 2000 and 2020, Butler County suffered two death, four injuries, and \$1.28 million in property damages; Crenshaw County had \$1.56 million in property damages; and, Pike County experienced one injury and \$3.26 million in property damages. Because severe thunderstorms with high winds may occur at any location within the planning area, all existing and future buildings, facilities, and the general population in the planning area are considered to be vulnerable to this hazard and its impacts. Severe thunderstorms with high winds can also produce similar effects to tornadoes and hurricanes. These effects will be more localized than hurricane events but more widespread than tornadoes.

**Lightning:** According to the Risk Impact Assessment, the lightning hazard scored a value of 2.2, on a scale of 0 to 4, which gave lightning a priority ranking of 8/9 (tying with hail) out of 14 hazards; a value of 2.1 in Crenshaw County which gave lightning a priority ranking of 8/9 (tying with hail) out of 13 hazards; and, a value of 2.1 in Pike County which gave lightning a priority ranking of 8/9 (tying with hail) out of 14 hazards.

**Table 4.154: Risk Impact Assessment for Lightning**

<b>Butler County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	1 - Negligible
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Crenshaw County</b>	

Probability	4 - High
Impact	1 – Minor
Location Extent	1 - Negligible
Warning Time	3 – 6 to 12 hours
Duration	1 – Less than 6 hours
<b>Pike County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	1 - Negligible
Warning Time	3 – 6 to 12 hours
Duration	1 – Less than 6 hours
<b>Barbour County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Coffee County</b>	
Probability	4 - High
Impact	2 – Limited
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Covington County</b>	
Probability	4 - High
Impact	2 - Limited
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Dale County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Geneva County</b>	
Probability	4 - High
Impact	2 – Limited
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Henry County</b>	
Probability	4 - High
Impact	2 - Limited
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Houston County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours

Because lightning most often occurs in conjunction with severe thunderstorms and high wind events, lightning may occur at any location within the planning area. All existing and future buildings, facilities, and the general population in the planning area are considered to be vulnerable to this hazard and its impacts. Also similar to thunderstorms, lightning will be more localized than hurricane events but more widespread than tornadoes.

**Tornados:** According to the Risk Impact Assessment, all of the planning study area is susceptible to tornadoes and high wind events. Most jurisdictions report high probability and catastrophic impacts from severe localized tornado damage. There is also little advance warning time to prepare for a tornado in the planning study area.

**Table 4.155: Risk Impact Assessment for Tornados**

<b>Butler County</b>	
Probability	4 - High
Impact	4 – Catastrophic
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Crenshaw County</b>	
Probability	4 - High
Impact	4 – Catastrophic
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Pike County</b>	
Probability	4 - High
Impact	4 – Catastrophic
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Barbour County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Coffee County</b>	
Probability	4 - High
Impact	2 – Limited
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Covington County</b>	
Probability	4 - High
Impact	2 - Limited
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Dale County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours

<b>Geneva County</b>	
Probability	4 - High
Impact	2 – Limited
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Henry County</b>	
Probability	4 - High
Impact	2 - Limited
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Houston County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours

Because tornadoes may touch down anywhere within the planning area, all existing and future buildings, facilities, and the general population in the planning area are considered to be vulnerable to this hazard and its impacts. Tornadoes can occur during hurricane events or other severe thunderstorm events, which can create multiple impacts.

All locations in the planning area are susceptible to tornadoes. The most likely time for tornadoes is during the spring months from March through May, with a secondary peak of tornado activity in November, but tornadoes can occur in every month of the year. Tornadoes present the most frequent hazard and most likely source of property damage and injury in the planning area from a natural hazard. Tornadoes are possibly more destructive than hurricanes, but impacts are far more localized. Even though favorable conditions for tornadoes can be forecasted in advance, the location of a tornado is unknown until a few moments before the storm occurs.

**Hurricanes:** According to the Risk Impact Assessment, the hurricane hazard scored a value of 3.2 in Butler County, on a scale of 0 to 4, which gave hurricanes a priority ranking of 4 out of 14 hazards; a value of 3.2 in Crenshaw County which gave hurricanes a priority ranking of 3 out of 13 hazards; and, a value of 3.2 in Pike County which gave hurricanes a priority ranking of 4 out of 14 hazards, a priority ranking of 3 in Barbour County of on a scale of 0 to 4, a priority ranking of 4 in Coffee County of on a scale of 0 to 4, a priority ranking of 4 in Covington County of on a scale of 0 to 4, a priority ranking of 3 in Dale County of on a scale of 0 to 4, a priority ranking of 4 in Geneva County of on a scale of 0 to 4, a priority ranking of 3 in Henry County of on a scale of 0 to 4, a priority ranking of 4 in Houston County of on a scale of 0 to 4.

**Table 4.156: Risk Impact Assessment for Hurricanes**

<b>Butler County</b>	
Probability	3 - Medium
Impact	4 – Catastrophic
Location Extent	4 - Large
Warning Time	1 – More than 24 hours
Duration	2 – Less than 24 hours
<b>Crenshaw County</b>	
Probability	3 - Medium
Impact	4 – Catastrophic

Location Extent	4 - Large
Warning Time	1 – More than 24 hours
Duration	2 – Less than 24 hours
<b>Pike County</b>	
Probability	3 - Medium
Impact	4 – Catastrophic
Location Extent	4 - Large
Warning Time	1 – More than 24 hours
Duration	2 – Less than 24 hours
<b>Barbour County</b>	
Probability	3 - Medium
Impact	3 – Minor
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Coffee County</b>	
Probability	4 - High
Impact	3 – Limited
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Covington County</b>	
Probability	4 - High
Impact	2 - Limited
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Dale County</b>	
Probability	3 - Medium
Impact	1 – Minor
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Geneva County</b>	
Probability	4 - High
Impact	4 – Catastrophic
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Henry County</b>	
Probability	4 - High
Impact	2 - Limited
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Houston County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours

Because hurricanes and other tropical events commonly affect a large spatial area, all existing and future buildings, facilities, and the general population in the planning area are considered to be vulnerable to this hazard and its impacts. The planning area is an inland location and will not



receive some of the intensity and extent of hurricane storms, but the magnitude of hurricanes affecting the central Gulf Coast can remain high as these storms travel inland into the region. The projected effects of hurricanes on the planning area may include additional hazards, including flooding from torrential rains, debris creation, and a lesser threat of weak tornadoes spawned by the hurricane system. Hurricanes will provide those widespread effects during the summer and early autumn portions of the year. Normally there are several days of warning before a hurricane impacts the planning area allowing for preparations.

### **Landslides**

The risk of losses from landslides cannot be calculated based on historic records due to lack of data. Though a few incidents of landslides have been recorded in Division B counties, there is no damage estimated attached to those events. Any landslide occurrence in the planning area would most likely be minor in impact due to the localized nature of these events.

**Table 4.157: Risk Impact Assessment for Landslide**

Probability	1 – Very Low
Impact	1 – Minor
Location Extent	1 – Negligible
Warning Time	4 – 6 to 12 hours
Duration	1 - Less than 6 hours

Information from the Geological Survey of Alabama shows that historical landslide events have been very sparse across the planning area. Due to the lack of substantive documentation of previous events, it is assumed that landslides events may occur at any location within the planning area. All existing and future buildings, facilities, and the general population in the planning area are considered to be vulnerable to this hazard and its impacts. With little recorded activity and documentation, however, it is believed that any potential losses in the planning area would be minor in scope.

### **Land Subsidence / Sinkholes**

The risk of losses from land subsidence events, such as sinkholes, cannot be calculated based on historic records due to lack of data. Though much of the planning area has depressions noted on topographic maps or has karst terrain, information about previous incidents are limited at best with no damage estimates. Any land subsidence occurrence in the planning area would most likely be minor in impact due to the localized nature of these events. According to the Risk Impact Assessment, the land subsidence/sinkholes hazard scored a value Very Low for the majority of the planning areas counties and jurisdictions.

**Table 4.158: Risk Impact Assessment for Land Subsidence / Sinkholes**

<b>Butler County</b>	
Probability	1 – Very Low
Impact	1 – Minor
Location Extent	1 – Negligible
Warning Time	4 – 6 to 12 hours
Duration	1 - Less than 6 hours
<b>Crenshaw County</b>	
Probability	1 – Very Low
Impact	1 – Minor
Location Extent	1 – Negligible
Warning Time	4 – 6 to 12 hours
Duration	1 - Less than 6 hours

<b>Pike County</b>	
Probability	1 – Very Low
Impact	1 – Minor
Location Extent	1 – Negligible
Warning Time	4 – 6 to 12 hours
Duration	1 - Less than 6 hours
<b>Coffee County</b>	
Probability	1 – Very Low
Impact	1 – Minor
Location Extent	1 – Negligible
Warning Time	4 – 6 to 12 hours
Duration	1 - Less than 6 hours
<b>Covington County</b>	
Probability	1 – Very Low
Impact	1 – Minor
Location Extent	1 – Negligible
Warning Time	4 – 6 to 12 hours
Duration	1 - Less than 6 hours
<b>Dale County</b>	
Probability	1 – Very Low
Impact	1 – Minor
Location Extent	1 – Negligible
Warning Time	4 – 6 to 12 hours
Duration	1 - Less than 6 hours
<b>Geneva County</b>	
Probability	1 – Very Low
Impact	1 – Minor
Location Extent	1 – Negligible
Warning Time	4 – 6 to 12 hours
Duration	1 - Less than 6 hours
<b>Henry County</b>	
Probability	1 – Very Low
Impact	1 – Minor
Location Extent	1 – Negligible
Warning Time	4 – 6 to 12 hours
Duration	1 - Less than 6 hours
<b>Houston County</b>	
Probability	1 – Very Low
Impact	1 – Minor
Location Extent	1 – Negligible
Warning Time	4 – 6 to 12 hours
Duration	1 - Less than 6 hours

Information from the Geological Survey of Alabama shows that geology that is conducive to sinkholes and other forms of land subsidence are located with a limited degree across the planning area. Due to the lack of substantive documentation of previous events, it is assumed that land subsidence events may occur at any location within the planning area. All existing and future buildings, facilities, and the general population in the planning area are considered to be vulnerable to this hazard and its impacts. With little recorded activity and documentation, however, it is believed that any potential losses in the planning area would be minor in scope.

### **Wildfire**

Though wildfires are the most likely hazard to occur in the planning area, with an average of 167 wildfire events over a 16-year period, the impact of wildfires have been very minor and localized

in mostly undeveloped areas. Though historically, wildfires have only affected timber resources in the planning area, future development in wildland urban interface areas should be mindful of this potential hazard.

**Table 4.159: Risk Impact Assessment for Wildfire**

<b>Butler County</b>	
Probability	3 –Medium
Impact	2 – Limited
Location Extent	2 – Small
Warning Time	4 – Less than 6 hours
Duration	3 - Less than one week
<b>Crenshaw County</b>	
Probability	2.5 – Low to Medium
Impact	2 – Limited
Location Extent	2 – Small
Warning Time	4 – Less than 6 hours
Duration	3 - Less than one week
<b>Pike County</b>	
Probability	2.5 – Low to Medium
Impact	2 – Limited
Location Extent	2 – Small
Warning Time	4 – Less than 6 hours
Duration	3 - Less than one week
<b>Barbour County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Coffee County</b>	
Probability	4 - High
Impact	2 – Limited
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Covington County</b>	
Probability	4 - High
Impact	2 - Limited
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Dale County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Geneva County</b>	
Probability	4 - High
Impact	2 – Limited
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Henry County</b>	
Probability	4 - High

Impact	2 - Limited
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours
<b>Houston County</b>	
Probability	4 - High
Impact	1 – Minor
Location Extent	2 - Small
Warning Time	4 – Less than 6 hours
Duration	1 – Less than 6 hours

The effects caused by wildfires primarily will damage timber land in the planning area. If factors such as winds and drought are present, wildfires may spread from forested areas to areas with residential structures. These fires may begin due to events, such as burning debris or lightning, and are often difficult to contain due to the lack of access to the fire and a lack of readily available water to control the fires and the rapid spread of these fires. In the event of wildfires, structures in less populated areas in the proximity of the forested areas could be at risk of fire damage. Though all of the planning area's residents are at least somewhat vulnerable to wildfires, areas in isolated unincorporated areas are at a higher vulnerability according to the Alabama Forestry Commission. Butler County has a fairly high ranking for wildfire in comparison to other counties in the AEMA Division B Region. The elevated risk in Butler County is due to the presence of Interstate 65 which runs north-south through the county. Equipment use along the Interstate 65 Corridor is a significant contributor to wildfire occurrences in Butler County.

Though several wildfires occur annually in the planning area, most are very small and only affect small forested areas. Butler County has experienced six wildfires in the last 14 years, however, that have burned more than 100 acres in each fire, according to the Alabama Forestry Commission. One fire burned 652 acres, and two fires burned more than 200 acres each. In comparison, Crenshaw County has had no fires larger than 100 acres (no Class D or Class E fires); and Pike County has had only three Class D fires (100 to 300 acres) and no Class E fires. The total acreage burned in Butler County is significantly more than other counties in Division B. Unfortunately, the Alabama Forestry Commission does not provide data on financial losses due to wildfire. In all three counties, it can be assumed that the larger wildfires were in heavily forested areas that are prevalent with the timber industry of the county. Therefore, the timber industry will suffer the greatest loss in these types of events. Although they are more frequent than in other counties, other wildfire incidents have been much smaller in size and wildfire damages over a long period of time are fairly minimal.

### **Winter Storm**

The planning area has experienced minimal risk from winter storm events and these events score low in each of the risk assessments of for the individual jurisdictions. These events normally have a short duration and have minor impacts, though the planning area is not especially prepared for a long duration event, if it would occur.

**Table 4.160: Risk Impact Assessment for Winter Storms**

<b>Butler County</b>	
Probability	1 – Very Low
Impact	3 – Critical
Location Extent	4 – Large
Warning Time	1 – More than 24 hours
Duration	3 - Less than one week
<b>Crenshaw County</b>	
Probability	2.5 – Low to Medium
Impact	3 – Critical
Location Extent	4 – Large
Warning Time	1 – More than 24 hours
Duration	3 - Less than one week
<b>Pike County</b>	
Probability	2 – Low
Impact	3 – Critical
Location Extent	4 – Large
Warning Time	1 – More than 24 hours
Duration	3 - Less than one week
<b>Barbour County</b>	
Probability	2 - Low
Impact	1 – Minor
Location Extent	2 - Small
Warning Time	1 – More than 24 hours
Duration	3 - Less than one week
<b>Coffee County</b>	
Probability	2 - Low
Impact	2 – Limited
Location Extent	2 - Small
Warning Time	1 – More than 24 hours
Duration	3 - Less than one week
<b>Covington County</b>	
Probability	2 - Low
Impact	2 - Limited
Location Extent	2 - Small
Warning Time	1 – More than 24 hours
Duration	3 - Less than one week
<b>Dale County</b>	
Probability	2 - Low
Impact	1 – Minor
Location Extent	2 - Small
Warning Time	1 – More than 24 hours
Duration	3 - Less than one week
<b>Geneva County</b>	
Probability	1 - Very Low
Impact	2 – Limited
Location Extent	2 - Small
Warning Time	1 – More than 24 hours
Duration	3 - Less than one week
<b>Henry County</b>	
Probability	2 - Low
Impact	2 - Limited
Location Extent	2 - Small
Warning Time	1 – More than 24 hours



Duration	3 - Less than one week
Houston County	
Probability	2 - Low
Impact	1 – Minor
Location Extent	2 - Small
Warning Time	1 – More than 24 hours
Duration	3 - Less than one week

Historical records show the planning area has occasional instances of winter weather, which is primarily through frozen precipitation (snow/ice) that only affects the area for a few days at the most. Because winter weather events may occur at any location within the planning area, all existing and future buildings, facilities, and the general population in the planning area are considered to be vulnerable to this hazard and its impacts. Winter weather events will affect those in vulnerable housing more severely than other areas.

## **Section 5 Mitigation**

### **Section Contents**

- 5.1 Mitigation Planning Process
- 5.2 Regional Mitigation Goals
- 5.3 Regional Mitigation Strategies
- 5.4 Capabilities Assessment for Local Jurisdictions
- 5.5 Jurisdictional Mitigation Action Plans
  - 5.5.3 County and Municipal Jurisdiction Actions

## **5.1 Mitigation Planning Process**

Local planning stakeholders were asked to review the progress of their previously adopted mitigation goals and to reevaluate those strategies based on updated information from the Risk Assessment and vulnerability to each profiled hazard. The goals and strategies were viewed in light of the impact and extent of hazard occurrences in local jurisdictions and the region as a whole. During the update of the plan no changes in priorities were identified by participating jurisdictions.

## **5.2 Regional Mitigation Goals**

Mitigation goals are broad statements that focus on long-term visions to reduce or avoid vulnerabilities to identified hazards within the region. Through the planning process, six primary goals were developed from corresponding goals in previous local mitigation plans. The mitigation goals expected to be achieved by development, adoption, and continuation of this plan include:

1. Manage the development of land and buildings to minimize risk of life and property loss due to hazard events (PREVENTION).
2. Protect structures and their occupants and contents from the damaging effects of hazard events (PROPERTY PROTECTION).
3. Preserve, rehabilitate, and enhance the beneficial functions of the natural environment to promote a balance between natural systems and social and economic demands (NATURAL RESOURCE PROTECTION).
4. Apply engineered structural modifications to natural systems and public infrastructure to reduce the potentially damaging impacts of hazards, where those modifications are feasible and environmentally suitable (STRUCTURAL MITIGATION).
5. Improve the efficiency, timing, and effectiveness of response and recovery efforts for hazard events (EMERGENCY SERVICES).
6. Educate and foster public awareness of hazards and techniques available for mitigation (PUBLIC EDUCATION AND AWARENESS).

## **5.3 Regional Mitigation Strategies**

Mitigation strategies are broad, yet more defined actions that help to further define mitigation goals. A wide range of activities that are aligned with the six goal categorizations were considered in order to help achieve the established mitigation goals, in particular emphasizing mitigation concerning new and existing buildings and infrastructure. These strategies also provide additional background to addressing any specific hazard concerns. Land use planning capacity in much of the region is limited, due to the lack of land use planning and zoning authority in unincorporated areas, with the exception of floodplain management and subdivision regulations. Also, many small municipalities have limited planning and building enforcement functions, due to fiscal constraints and lack of expertise, and choose not to implement land use, zoning, or code enforcement mechanisms. The six goal categorizations used for mitigation strategies include: Prevention, Property Protection, Natural Resource Protection, Structural Mitigation, Emergency Services, and Public Awareness and Education. These are discussed in further detail, along with the identification of the related hazard(s) that are mitigated through these strategies.

**Goal #1: Prevention**

Prevention activities are primarily intended to address future development and to keep hazard effects from increasing. Prevention activities are often administered through government programs or regulatory actions that influence the built environment. These activities are particularly effective in hazard mitigation for areas with little current capital investment or development. Examples of prevention activities include:

1. Land use planning and zoning administration (All Hazards, primarily Flooding)
2. Building code enforcement program (Flooding, High Winds)
3. Open space preservation (Flooding)
4. Floodplain management regulations (Flooding)
5. Stormwater management regulations (Flooding)
6. Participation in National Flood Insurance Program (NFIP) (Flooding)
7. Capital improvements planning (All Hazards)

**Goal #2: Property Protection**

Property protection activities primarily concentrate on the modification of existing buildings and adjacent areas to strengthen their ability to withstand hazard events, or to remove an at-risk structure from hazardous locations. Examples of property protection activities include:

1. Acquisition of flood-prone properties (Flooding)
2. Relocation of flood-prone structures (Flooding)
3. Elevation of flood-prone structures (Flooding)
4. Retrofitting of critical facilities and other structures (All Hazards)

**Goal #3: Natural Resource Protection**

Natural resource protection activities reduce the impact of hazard events by preserving, rehabilitating, or enhancing the natural environment and its protective functions. These activities would include areas such as floodplains, wetlands, and steep slopes. Examples of natural resource protection activities include:

1. Floodplain protection (Flooding)
2. Watershed management (Flooding)
3. Riparian buffers (Flooding)
4. Forest and vegetation management (Flooding, Wildfire)
5. Conservation easements (Flooding, Land Subsidence)

**Goal #4: Structural Mitigation**

Structural mitigation protection activities are intended to lessen the impact of a hazard by utilizing construction of an appropriate structure. Examples of structural mitigation protection activities include:

1. Reservoirs (Flooding)
2. Levees and dams (Flooding)
3. Stormwater diversion (Flooding)
4. Retention and detention structures (Flooding)
5. Safe rooms and shelters (High Winds, Extreme Temperatures)

**Goal #5: Emergency Services**

Emergency services protection activities involve protecting people and property before, during, and after a hazard event. These activities assist in providing capable actions regarding hazard events. Examples of emergency services activities include:

1. Warning alert systems (All Hazards)
2. Continuity of operations (All Hazards)
3. Evacuation routes (All Hazards)
4. Emergency responder training (All Hazards)
5. Provision of alternative power (e.g. generators) (All Hazards)
6. Debris removal (All Hazards)

**Goal #6: Public Education and Awareness**

Public education and awareness activities inform and remind residents, business owners, elected officials, and other stakeholders about hazards, vulnerable locations, and mitigation actions that can be used to avoid losses. Examples of public education and awareness activities include:

1. Information dissemination, including maps and websites displaying hazard information (All Hazards)
2. Public exposition or workshops (All Hazards)
3. Educational programs (All Hazards)
4. Real estate disclosures (Dam Failure, Flooding, Technological Hazards)

**5.4 Capabilities Assessment for Local Jurisdictions**

A capability assessment examines the ability of each jurisdiction to implement a comprehensive mitigation strategy by examining existing programs, regulations, resources, and practices. This determination allows a jurisdiction to assess whether mitigation actions are feasible, due to financial resources, political climate, administrative capacity, and other jurisdictional capabilities.

The Alabama Emergency Management Agency (AEMA) Division B is a ten-county region composed of 70 municipalities with a myriad of governmental powers. All county governments are governed by an elected commission. Most municipalities have a Mayor/Council form of government, with the exception of Dothan which is a Mayor/Commission/City Manager form of government.

The mitigation strategies listed in Section 5.2 is framed by the capacity and capability of local jurisdictions to implement those particular actions through existing authorities, policies, programs, and resources. For most jurisdictions in the planning area, these are each very limited. Authority to control development through land use planning and zoning, a critical tool in hazard mitigation, is vested in municipalities that choose to exercise this practice. However, capacity is limited for enforcement due to local expertise, financial constraints, and public acceptance. The State of Alabama does not require a jurisdiction to implement land use planning and associated regulations. Therefore, most local jurisdictions avoid the practice of land use planning and zoning for general purposes and for hazard mitigation. In unincorporated areas within county jurisdictions, this authority is largely absent except as it applies to flood control and public street and subdivision regulation, which are practiced by each county in the planning area. Flood control, more broadly, is authorized for each local jurisdiction to practice through a local ordinance regulating the placement and construction of new structures. Most municipalities and each county participate in



the National Flood Insurance Program (NFIP) and maintain compliance with the applicable regulations (Table 5.3). Likewise, the authority to enforce building codes is primarily restricted to municipalities and is only practiced by a limited number of these due to capacity constraints in the form of personnel, financial ability, and public acceptance.

Financial and technical capacity are limiting factors for implementation in most participating jurisdictions. The need for assistance in local planning and implementation is well established. Communities work together through the local EMA and their regional commissions (SEARP&DC or SCADC) to meet gaps in technical capacity related to planning for mitigation. Local jurisdictions work with county EMAs to implement specific strategies. Authority over spending is vested in local elected or appointed boards and commissions. Primarily, the county commissions and local municipal councils have been the leaders in deciding which mitigation strategies are worthy of investment. Other eligible jurisdictions have traditionally channeled mitigation projects through these local governmental bodies for sponsoring. The use of federal and state grants is a prevalent feature of the financial strategy for mitigation projects involving new construction and major rehabilitation of public facilities or expenditures.

The capabilities of each participating jurisdiction are defined by the authorities, policies, programs, and resources that each utilizes in pursuit of hazard mitigation. Each jurisdiction falls into one of several categories, which possesses distinct authorities and resources to establish hazard mitigation actions. For example, counties and municipalities differ in terms of statutory authority to pursue hazard mitigation. Meanwhile, two communities with the same authority may approach mitigation entirely differently in terms of the exercise of their authority. School and utility boards are subject to even greater restrictions on their authority.

Table 5.1 summarizes the statutory authority and resources of each jurisdiction and its present use or intended future use of these powers to implement potential actions and types of actions listed in the hazard mitigation plan. The table describes powers or policies that are granted to different types of jurisdictions in general terms, describes the jurisdictions that currently apply those policies in their mitigation efforts, describes the jurisdictions that intend to apply those authorities and policies for future implementation, and describes the means by which each jurisdiction will incorporate the mitigation action into its existing powers, authorities, policies, and capabilities. In every case, the primary means of incorporation involves review of proposed actions and implementation through the appropriate governmental authority such as the city council, county commission, school board, or utility board.

**Table 5.1: Statutory Authority and Resources**

Multi-Jurisdictional Hazard Mitigation Action Plan: Capability Assessment	Authorized for...	Practiced by...	Proposed for...	Incorporated through...
Police power: ability to regulate activities of individuals in the jurisdiction for purposes of health, safety, and public welfare	Municipalities	All municipal jurisdictions	All municipal jurisdictions	Council or Commission action to enact and enforce regulations

<b>Control of public expenditures:</b> ability to acquire property and improve property owned by the jurisdiction; capacity to borrow and expend funds	Municipalities, Counties, School Boards, Utilities	All jurisdictions	All jurisdictions	Action to approve expenditures by local county commission, city council, school board, or utility board
<b>Building code enforcement:</b> ability to enforce codes related to building materials and construction standards outside of flood hazard areas	Municipalities	Eufaula, Greenville, Elba, Enterprise, Andalusia, Florala, Opp, Luverne, Geneva, Hartford, Samson, Slocomb, Abbeville, Headland, Ashford, Cowarts, Dothan, Rehobeth, Brundidge, Troy	Eufaula, Greenville, Elba, Enterprise, Andalusia, Florala, Opp, Luverne, Geneva, Hartford, Samson, Slocomb, Abbeville, Headland, Ashford, Cowarts, Dothan, Rehobeth, Brundidge, Troy	Council or Commission action to enact and enforce regulations
<b>Multi-Jurisdictional Hazard Mitigation Action Plan: Capability Assessment</b>	<b>Authorized for...</b>	<b>Practiced by...</b>	<b>Proposed for...</b>	<b>Incorporated through...</b>
<b>Floodplain management authority:</b> ability to regulate development in areas of special flood hazard in compliance with NFIP standards; includes authority to regulate land use and subdivisions inside of flood hazard areas	Municipalities, Counties	All participating NFIP jurisdictions	All participating NFIP jurisdictions	Council or Commission action to enact and enforce regulations
<b>Purchase properties</b> subject to flooding and maintain as permanent open space.	Municipalities, Counties, School Boards, Utilities	All jurisdictions	All jurisdictions	Action to approve expenditures by local county commission, city council, school board, or utility board
<b>Capital improvements:</b> ability to plan and implement public infrastructure to mitigate hazards	Municipalities, Counties, School Boards, Utilities	All jurisdictions	All jurisdictions	Action to approve expenditures by local county commission, city council, school board, or utility board
<b>Zoning authority:</b> ability to divide political jurisdiction into districts for purposes of regulating buildings and their use, both inside and outside of flood hazard areas	Municipalities	Baker Hill, Clayton, Clio, Eufaula, Georgiana, Greenville, Elba, Enterprise, New Brockton, Andalusia, Florala, Opp, River Falls, Brantley, Luverne, Geneva, Hartford, Samson, Slocomb, Abbeville, Headland, Ashford, Cowarts, Dothan,	Baker Hill, Clayton, Clio, Eufaula, Georgiana, Greenville, Elba, Enterprise, New Brockton, Andalusia, Florala, Opp, River Falls, Brantley, Luverne, Geneva, Hartford, Samson, Slocomb, Abbeville, Headland, Ashford, Cowarts, Dothan,	Council action to enact and enforce regulations

		Kinsey, Rehobeth, Brundidge, Troy	Kinsey, Rehobeth, Brundidge, Troy	
<b>Subdivision regulations:</b> ability to regulate new developments involving new parcels and infrastructure, both inside and outside of flood hazard areas	Municipalities, Counties	Eufaula, Enterprise, Andalusia, Florala, Opp, Brantley, Luverne, Abbeville, Dothan, Brundidge, Troy, All Counties	Eufaula, Enterprise, Andalusia, Florala, Opp, Brantley, Luverne, Abbeville, Dothan, Brundidge, Troy, All Counties	County Commission or Council action to enact and enforce regulations
<b>Storm water management program:</b> ability to regulate retention, detention, and release of storm water runoff	Municipalities	Dothan, Troy	Dothan, Troy	Council action to enact and enforce regulations

Table 5.2 provides a summary of local plans, ordinances, and programs currently in place, or being developed within jurisdictions in Southeast Alabama. A “Yes” (Y) indicates the item is currently in place and being implemented. A “No” (N) indicates the items is not in place or being implemented. An asterisk (\*) indicates the item is currently being developed for future implementation.

**Table 5.2: Relevant Plans, Ordinances, and Programs Jurisdiction**

Jurisdiction	Zoning Ordinance	Code Enforcement	Recent Master Plan	Certified Floodplain Manager	NFIP Participation
<b>Barbour County</b>	N	N	N	N	Y
Town of Baker Hill	Y	N	N	N	N
Town of Blue Springs	N	N	N	N	Y
Town of Clayton	Y	N	N	N	Y
Town of Clio	Y	N	N	N	Y
City of Eufaula	Y	Y	Y	N	Y
Town of Louisville	N	N	N	N	Y
<b>Butler County</b>	N	N	N	Y	Y
City of Georgiana	Y	N	N	N	Y
City of Greenville	Y	Y	Y	N	Y
Town of McKenzie	N	N	N	N	Y
<b>Coffee County</b>	N	N	N	N	Y
City of Enterprise	Y	Y	Y	N	Y
City of Elba	Y	Y	N	Y	Y
Town of Kinston	N	N	N	N	Y
Town of New Brockton	Y	N	N	N	Y

<b>Covington County</b>	N	N	N	N	Y
City of Andalusia	Y	Y	Y	N	Y
Town of Babbie	N	N	N	N	Y
Town of Carolina	N	N	N	N	N
City of Florala	Y	Y	Y	N	Y
Town of Gantt	N	N	N	N	Y
Town of Heath	N	N	N	N	Y
Town of Horn Hill	N	N	N	N	N
Town of Libertyville	N	N	N	N	N
Town of Lockhart	N	N	N	N	N
City of Opp	Y	Y	Y	Y	Y
Town of Red Level	N	N	N	N	Y
Town of River Falls	Y	N	N	N	Y
Town of Sanford	N	N	N	N	N
<b>Crenshaw County</b>	N	N	N	Y	Y
Town of Brantley	Y	Y	*	N	Y
Town of Dozier	N	N	N	N	Y
Town of Glenwood	N	N	N	N	Y
City of Luverne	Y	Y	N	N	Y
Town of Petry	N	N	N	N	N
Town of Rutledge	N	N	N	N	N
<b>Dale County</b>	Y	Y	Y	Y	Y
Town of Arifton	N	Y	Y	Y	Y
Town of Clayhatchee	N	N	N	N	Y
City of Daleville	Y	Y	Y	Y	Y
Town of Grimes	N	N	N	N	N
City of Midland City	N	N	N	N	Y
Town of Napier Field	N	N	N	N	N
Town of Newton	N	N	N	N	Y
City of Ozark	Y	Y	Y	Y	Y
Town of Pinckard	N	N	N	N	Y
<b>Geneva County</b>	N	N	N	N	Y
Town of Black	N	N	N	N	Y
City of Geneva	Y	Y	N	N	Y
City of Hartford	Y	Y	N	N	Y
Town of Malvern	N	N	N	N	Y
City of Samson	Y	Y	N	N	Y
City of Slocumb	Y	Y	Y	N	Y
<b>Henry County</b>	N	N	N	N	Y
City of Abbeville	Y	Y	Y	N	Y
Town of Haleburg	N	N	N	N	N
City of Headland	Y	Y	Y	N	Y
Town of Newville	N	N	N	N	Y

<b>Houston County</b>	Y	Y	N	N	Y
Town of Ashford	Y	Y	N	N	Y
Town of Avon	N	N	N	N	Y
Town of Columbia	N	N	N	N	Y
Town of Cottonwood	N	N	N	N	Y
Town of Cowarts	Y	Y	N	N	Y
City of Dothan	Y	Y	Y	Y	Y
Town of Gordon	N	N	N	N	Y
Town of Kinsey	Y	N	N	N	Y
Town of Madrid	N	N	N	N	Y
Town of Rehobeth	Y	Y	N	N	Y
City of Taylor	N	N	N	N	Y
Town of Webb	N	N	N	N	Y
<b>Pike County</b>	N	N	N	Y	Y
Town of Banks	N	N	N	N	N
City of Brundidge	Y	Y	Y	N	Y
Town of Goshen	N	N	N	N	Y
City of Troy	Y	Y	Y	Y	Y

Table 5.3 summarizes NFIP participation and policy statistics for each jurisdiction in the planning area as of July 31, 2020. More site specific information on at-risk structures and repetitive loss properties is provided in Section 4.8 in the Risk Assessment. Jurisdictions that are non-participating in the NFIP Program participated in the hazard mitigation planning process and have Mitigation Actions to address their status.

**Table 5.3: National Flood Insurance Program (NFIP) Status**

<b>Jurisdiction</b>	<b>County</b>	<b>Participation Status</b>	<b>Initial FBHM Identified</b>	<b>Initial FIRM Identified</b>	<b>Current Effective Map Date</b>
<b>Butler County</b>	<b>Butler</b>	<b>Yes</b>	<b>4/21/1978</b>	<b>9/11/2009</b>	<b>9/11/2009</b>
Georgiana	Butler	Yes	2/21/1975	7/15/1977	9/11/2009(M)
Greenville	Butler	Yes	10/8/1976	5/1/1980	9/11/2009
McKenzie	Butler	Yes	N/A	9/11/2009	NSFHA
<b>Crenshaw County</b>	<b>Crenshaw</b>	<b>Yes</b>	<b>12/06/74</b>	<b>7/17/86</b>	<b>10/16/09(M)</b>
Town of Brantley	Crenshaw	Yes	6/28/74	10/16/09	10/16/09(M)
Town of Dozier	Crenshaw	Yes	9/20/74	3/1/95	10/16/09(M)
Town of Glenwood	Crenshaw	Yes	9/20/74	10/16/09	10/16/09(M)
City of Luverne	Crenshaw	Yes	6/28/74	10/16/09	10/16/09
Town of Petry	Crenshaw	No	2/25/77	10/16/09	10/16/09
Town of Rutledge	Crenshaw	No		10/16/09	10/16/09
<b>Pike County</b>	<b>Pike</b>	<b>Yes</b>	<b>6/18/76</b>	<b>8/1/87</b>	<b>12/2/11(M)</b>
Town of Banks	Pike	No		9/19/07	12/2/11
City of Brundidge	Pike	Yes	10/22/76	6/1/94	12/2/11(M)



Town of Goshen	Pike	Yes	10/15/76	4/2/86	12/2/11(M)
City of Troy	Pike	Yes	1/24/75	9/18/85	12/2/11(M)
Barbour County	Barbour	Yes	4/28/1978	1/1/1987	8/18/2009
Baker Hill	Barbour	Not Mapped			
Blue Springs	Barbour	Yes	1/10/1975	9/1/1986	8/18/2009
Clayton	Barbour	Yes	9/9/1978	5/1/1994	8/18/2009
Clio	Barbour	Yes	7/11/1975	7/18/1985	8/18/2009
Eufaula	Barbour	Yes	12/14/1973	1/15/1988	8/18/2009
Louisville	Barbour	Yes	1/10/1975	9/1/1987	8/18/2009
Butler County	Butler	Yes	4/21/1978	9/11/2009	9/11/2009
Georgiana	Butler	Yes	2/21/1975	7/15/1977	9/11/2009
Greenville	Butler	Yes	10/8/1976	5/1/1980	9/11/2009
McKenzie	Butler	Yes	N/A	9/11/2009	NSFHA
Coffee County	Coffee	Yes	1/17/1975	12/5/1990	8/19/2010
Elba	Coffee	Yes	N/A	10/11/1972	8/19/2010
Enterprise	Coffee	Yes	7/26/1974	7/2/1980	8/19/2010
Kinston	Coffee	Yes	1/10/1975	12/30/1977	8/19/2010
New Brockton	Coffee	Yes	1/17/1975	7/22/1977	8/19/2010
Covington County	Covington	Yes	12/13/1974	9/1/1990	11/4/2009
Andalusia	Covington	Yes	1/13/1978	11/4/2009	11/4/2009
Babbie	Covington	Yes	1/10/1975	11/4/2009	11/4/2009
Carolina	Covington	No	1/10/1975	11/4/2009	11/4/2009
Floral	Covington	Yes	N/A	11/4/2009	11/4/2009
Gantt	Covington	Yes	6/7/1974	11/4/2009	11/4/2009
Heath	Covington	Yes	11/4/2009	11/4/2009	11/4/2009
Horn Hill	Covington	No	11/4/2009	11/4/2009	11/4/2009
Libertyville	Covington	No	11/4/2009	11/4/2009	11/4/2009
Lockhart	Covington	No	11/4/2009	11/4/2009	11/4/2009
Onycha	Covington	Not Mapped			
Opp	Covington	Yes	7/11/1975	7/18/1985	11/4/2009
Red Level	Covington	Yes	1/10/1975	11/4/2009	11/4/2009
River Falls	Covington	Yes	9/20/1974	7/8/1977	11/4/2009
Sanford	Covington	Not Mapped			
Geneva County	Geneva	Yes	2/20/1976	5/1/1995	2/20/2008
Black	Geneva	Yes	2/7/1975	2/20/2008	2/20/2008
Coffee Springs	Geneva	Yes	N/A	2/20/2008	2/20/2008
Geneva	Geneva	Yes	3/29/1974	7/2/1980	2/20/2008
Hartford	Geneva	Yes	6/28/1974	7/22/1977	2/20/2008
Malvern	Geneva	Yes	12/6/1974	2/24/1978	2/20/2008

Samson	Geneva	Yes	6/7/1974	2/24/1978	2/20/2008
Slocomb	Geneva	Yes	5/24/1974	12/16/1977	2/20/2008
Henry County	Henry	Yes	1/17/1975	8/1/1987	9/28/2007
Abbeville	Henry	Yes	1/31/1975	9/4/1985	9/28/2007
Haleburg	Henry	No	N/A	9/28/2007	9/28/2007
Headland	Henry	Yes	6/28/1974	8/19/1986	9/28/2007
Newville	Henry	Yes	1/10/1975	9/29/1986	9/28/2007
Houston County	Houston	Yes	2/14/1975	9/29/1989	12/16/2005
Ashford	Houston	Yes	10/31/1975	9/4/1985	12/16/2005
Avon	Houston	Yes	9/20/1974	9/1/1986	12/16/2005
Columbia	Houston	Yes	2/20/1976	9/4/1985	12/16/2005
Cottonwood	Houston	Yes	5/17/1974	4/5/1988	12/16/2005
Cowarts	Houston	Yes	10/31/1975	11/21/2002	12/16/2005
Dothan	Dale / Houston	Yes	12/28/1973	1/15/1988	12/16/2005
Gordon	Houston	Yes	10/25/1974	4/2/1986	12/16/2005
Kinsey	Houston	Yes	9/13/1974	9/29/1986	12/16/2005
Madrid	Houston	Yes	8/23/1974	7/18/1985	12/16/2005
Rehobeth	Houston	Yes	N/A	11/21/2002	12/16/2005
Taylor	Houston	Yes	9/13/1974	11/21/2002	2/20/2008
Webb	Houston	Yes	8/23/1974	11/21/2002	NSFHA

## 5.5 Jurisdictional Mitigation Action Plans

This section identifies and analyzes a range of mitigation actions and projects under consideration to achieve the regional mitigation goals for reducing the effects of hazard events for the region at large, as well as each of the jurisdictions within the region. Local planning stakeholders thoroughly reviewed and considered the Risk Assessment and their local capabilities to determine the most appropriate plan of action for their jurisdictions. Mitigation strategies that have been completed or that have been deemed by the mitigation planning committee to no longer be relevant are listed at the beginning of each jurisdiction's mitigation action plan, with an explanation as to why the action items are no longer included in the action plan. Additionally, new action items have been incorporated into the mitigation action plans. Most of the new action items are low cost best management practices, education and promotion, and investigation and inventory steps to provide a better foundation for the prevention and mitigation of all natural hazards in region. Each action or project listed has accessory information, such as designation of a lead agency, hazard(s) addressed, and potential funding source(s). The following table describes the key elements of the Mitigation Action Plans.

<b>Goal</b>	<p>Category of goal that is met:</p> <p>#1: Manage the development of land and buildings to minimize risk of life and property loss due to hazard events (PREVENTION)</p> <p>#2: Protect structures and their occupants and contents from the damaging effects of hazard events (PROPERTY PROTECTION)</p> <p>#3: Preserve, rehabilitate, and enhance the beneficial functions of the natural environment to promote a balance between natural systems and social and economic demands (NATURAL RESOURCE PROTECTION)</p> <p>#4: Apply engineered structural modifications to natural systems and public infrastructure to reduce the potentially damaging impacts of hazards, where those modifications are feasible and environmentally suitable (STRUCTURAL MITIGATION)</p> <p>#5: Improve the efficiency, timing, and effectiveness of response and recovery efforts for hazard events (EMERGENCY SERVICES)</p> <p>#6: Educate and foster public awareness of hazards and techniques available for mitigation (PUBLIC EDUCATION AND AWARENESS)</p>
<b>Action Description</b>	Title and description of action to be undertaken
<b>Hazards Addressed</b>	Hazard which the action addresses
<b>Lead Agency</b>	Entity responsible for undertaking the action
<b>Funding Source</b>	Level of funding required for action, where applicable
<b>Priority/Status</b>	<p>Categorization based on the following projected criteria:</p> <p>Completed: Notable mitigation projects implemented in the past five years</p> <p>Ongoing: Action in progress / perennial occurrence</p> <p>High: Projected implementation within five years</p> <p>Medium: Projected implementation between five and ten years</p> <p>Low: Projected implementation beyond ten years</p>
<b>Benefit/Cost Score</b>	<p>The Benefit/Cost score included in the jurisdictional Mitigation Action Plans are considered at the planning level and does not include a full analysis of all costs and benefits associated with action implementation. For example, a mitigation action that scores "High" in benefits and "Low" in costs will be listed as "Moderate" in the plan due to providing a long-term solution, but with a high implementation cost. For some projects, such as routine or ongoing operations conducted with local operating funds and existing staff, this may be the only explicit comparison of costs and benefits. For projects of which grant funding or bond issues may be sought, more in-depth evaluations of costs and benefits may be required. As specific project scopes are detailed, the benefits and costs of an action can be identified with more precision and the benefit-cost ratio (BCR) that results from a full benefit-cost analysis may differ from the planning level Benefit/Cost score presented in the plan. It should be noted that higher scores do not necessarily correspond to high priorities, nor do low scores correspond to low priority projects. An important action with a high priority to a jurisdiction may have a lower Benefit/Cost score because of its complexity, assumed high expense, and other potential costs. Jurisdictions should not be discouraged or deterred from further consideration of actions which have low scores until additional, more specific, evaluations of the costs and benefits has been undertaken.</p> <p><b>Low</b></p> <p>Benefits: Projects that only benefit a limited population or provides short-term benefits</p> <p>Costs: projects likely to cost over \$100,000 and requiring additional funding or staffing outside of normal operations and is complicated to implement.</p> <p><b>Moderate</b></p> <p>Benefits: Projects that would be felt by moderate amount of population in jurisdiction, or solves a problem for several years</p>

	<p>Costs: projects that may need additional funding or continued study or staffing outside of normal operations, with estimated costs between \$10,000 and \$100,000.</p> <p><b>High</b></p> <p>Benefits: Projects that benefit many in the jurisdiction that are long-term solutions /</p> <p>Costs: projects that can be implemented by existing personnel with little additional burden on budget and uncomplicated to implement.</p>
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### **5.5.1 Barbour County Jurisdictions Mitigation Actions**

- 1. Barbour County**
- 2. Barbour County Schools**
- 3. Town of Baker Hill**
- 4. Baker Hill Water Authority**
- 5. Town of Blue Springs**
- 6. City of Clayton**
- 7. City of Clio**
- 8. Cowikee Water Authority**
- 9. City of Eufaula**
- 10. Eufaula City Schools**
- 11. Town of Louisville**
- 12. Mount Andrew Water Authority**
- 13. West Barbour County Water Authority**



### Barbour County Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Installation of two individual safe rooms	High Winds	Barbour County EMA	HMGP / Private	Completed	N/A
1,3	Continue participation in the NFIP through maintaining and administering the county's floodplain development regulations, enforcing subdivision regulations that minimize flood risk to new developments, participating in flood map updates, and providing flood risk information to the public.	Flooding	NFIP Coordinator	HMGP/FMA/Local	High	High
1	Establish a building department with inspectors	All	Barbour County Engineer	Local	High	Moderate
1	Adopt tree ordinance limiting height along public rights-of-ways	All (primarily High Winds)	County Administration	Local	Medium	High
1	Continue to maintain and update flood mapping and watershed plans, subdivision regulations, and other planning documents	Flooding	Barbour County Engineer / NFIP Coordinator	HMGP/Local	High	High
1	Implement GIS system to assist in hazard mitigation planning	All	County Administration	Grants TBD/Local	High	Moderate
6	Promote building safety and disaster awareness of schools and civic organizations through presentations and publications	All	Barbour County EMA	Local	High	High
4	Improve maintenance of existing drainage structures	Flooding	Barbour Co Road and Bridge	HMGP/DRA/CDBG/Local	High	Moderate
5	Procure and maintain generators for critical facilities	All	Barbour County EMA	HMGP/State/Local	High	Moderate
5	Investigate use of phone messaging system to provide warning of all impending hazardous conditions to public	All	Barbour County EMA	DHS / Local	High	High
5	Maintain outdoor warning system	All	Barbour County EMA	HMGP / Local	High	Moderate

2	Acquire, elevate, and / or relocate flood prone structures and repetitive loss properties	Flooding	Barbour County EMA	HMGP / CDBG / Local	High	Moderate
4	Provide adequate community and individual safe rooms	High Winds	Barbour County EMA	HMGP / Local / Private	High	Moderate
3,4	Continue to provide structural projects such as wind retrofits, drainage improvements, reservoirs, and retention or detention basins which store excess water, levees, and floodwalls which place barriers between the source of flooding and damage-prone properties; channeling modifications: widening, straightening, or removing bridge and culvert restrictions so the channel can convey more water or carry it faster, diversions that redirect high flows to another location, and channel maintenance; keeping streams, ditches, and storage basins clear (riprap, etc.)	Flooding	Barbour County EMA / Barbour Co Road and Bridge	HMGP/CDBG/SRF/ Local	High	Moderate / Low

Barbour County Schools Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Provide safe rooms in school facilities for student and staff safety	High Winds	Barbour County Schools	HMGP/State/Local	High	Moderate
5	Procure and maintain generators for critical facilities	All	Barbour County Schools	HMGP/State/Local	High	Moderate

### Town of Baker Hill Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
5	Procure and maintain generators for critical facilities	All	Town Administration	HMGP/Local	High	Moderate
4	Add street lights through town	All	Town Administration	Local	Medium	Moderate
4	Add fire hydrants through town	All	Baker Hill Water Auth	CDBG/HMGP, other TBD	Medium	Moderate
5	Maintain and upgrade equipment for Police Dept and Baker Hill Vol Fire Dept	All	Police Dept / Baker Hill VFD	FEMA, ADECA, USDA, other TBD	High	Moderate
1,3	Study benefits of participation in NFIP	Flooding	Town Administration	Local	High	High
5	Investigate use of phone messaging system to provide warning of all impending hazardous conditions to public	All	Barbour County EMA	DHS/Local	High	High
5	Maintain outdoor warning siren system	All	Town Administration / Barbour County EMA	HMGP/Local	High	Moderate
4	Provide adequate community and individual safe rooms	High Winds	Barbour County EMA / Town Administration	HMGP/Local/ Private	High	Moderate
2	Acquire, elevate, and/or relocate flood prone structures and repetitive loss properties	Flooding	Town Administration	HMGP/Local	High	Moderate
3,4	Continue to provide structural projects such as wind retrofits, drainage improvements, reservoirs, and retention or detention basins which store excess water, levees, and floodwalls which place barriers between the source of flooding and damage-prone properties; channeling modifications: widening, straightening, or removing bridge and culvert restrictions so the channel can convey more water or carry it faster, diversions that redirect high flows to another location, and channel maintenance; keeping streams, ditches, and storage basins clear (riprap, etc.)	Flooding	Town Administration / Barbour Co Road and Bridge	CDBG/ FEMA/AEMA (HMGP, PDM), ADECA, other TBD	High	Moderate/Low (dependent on specific project)

Baker Hill Water Authority Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
5	Procure backup generator for Baker Hill Water System to ensure water distribution during emergencies	All	Baker Hill Water Authority	HMGP/Local	High	Moderate



### Town of Blue Springs Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
1,3	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, participating in flood map updates, and providing flood risk information to the public	Flooding	Town Administration	HMGP/FMA/Local	High	High
5	Cooperate with Blue Springs State Park on emergency matters	All	Town Administration	Local	High	High
5	Maintain outdoor warning siren system	All	Town Administration / Barbour County EMA	HMGP/Local	High	Moderate
5	Investigate use of phone messaging system to provide warning of all impending hazardous conditions to public	All	Barbour County EMA	DHS/Local	High	High
5	Purchase emergency generator for water system critical facilities	All	Baker Hill Water Authority	HMGP/Local	High	Moderate
5	Maintain and upgrade equipment for fire department	All	Blue Springs VFD	FEMA, ADECA, USDA, other TBD	High	Moderate
3,4	Continue to provide structural projects such as wind retrofits, drainage improvements, reservoirs, and retention or detention basins which store excess water, levees, and floodwalls which place barriers between the source of flooding and damage-prone properties; channeling modifications: widening, straightening, or removing bridge and culvert restrictions so the channel can convey more water or carry it faster, diversions that redirect high flows to another location, and channel maintenance; keeping streams, ditches, and storage basins clear (riprap, etc.)	Flooding	Town Administration / Barbour Co Road and Bridge	HMGP/CDBG/SRF/ Local	High	Moderate/Low (dependent on specific project)

Town of Blue Springs Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
2	Acquire, elevate, and/or relocate flood prone structures and repetitive loss properties	Flooding	Town Administration	HMGP/Local	High	Moderate
4	Provide adequate community and individual safe rooms	High Winds	Barbour County EMA / Town Administration	HMGP/Local/ Private	High	Moderate

### City of Clayton Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
1,3	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, participating in flood map updates, and providing flood risk information to the public	Flooding	City Administration	HMGP/FMA/Local	High	High
6	Provide public involvement activities and publish public information brochures on natural hazards and emergency situations	All	City Administration / Barbour County EMA	Private Sponsorships/ State Agencies/Local Grants	High	High
5	Procure and maintain generators for critical facilities	All	City Administration	HMGP/Local	High	Moderate
5	Maintain and upgrade equipment for fire department	All	Clayton FD	CDBG/ FEMA/AEMA (HMGP, PDM), ADECA, other TBD	High	Moderate
5	Maintain outdoor warning siren system	All	City Administration / Barbour County EMA	HMGP/Local	High	Moderate
5	Investigate use of phone messaging system to provide warning of all impending hazardous conditions to public	All	Barbour County EMA	AEMA/FEMA (HMGP, PDM), ADECA, other TBD	High	High
4	Provide adequate community and individual safe rooms	High Winds	Barbour County EMA / City Administration	HMGP/Local/ Private	High	Moderate

### City of Clayton Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
3,4	Continue to provide structural projects such as wind retrofits, drainage improvements, reservoirs, and retention or detention basins which store excess water, levees, and floodwalls which place barriers between the source of flooding and damage-prone properties; channeling modifications: widening, straightening, or removing bridge and culvert restrictions so the channel can convey more water or carry it faster, diversions that redirect high flows to another location, and channel maintenance; keeping streams, ditches, and storage basins clear (riprap, etc.)	Flooding	City Administration / Barbour Co Road and Bridge	HMGP/CDBG/SRF/ Local	High	Moderate/Low (dependent on specific project)
1	Adopt and update a comprehensive plan, zoning regulations, subdivision regulations, floodplain management regulations, storm water management regulations, building-related codes, fire prevention codes, wetlands protection regulations, water quality regulations, stream-dumping regulations, and the preservation of open space as preventative measures that protect existing and future buildings, infrastructure and critical facilities	All	City Administration	CDBG/Local	Medium	High

City of Clio Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
1,3	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, participating in flood map updates, and providing flood risk information to the public	Flooding	City Administration	HMGP/FMA/Local	High	High
1	Incorporate “neighbor accountability” facet into neighborhood watch program	All	City Administration	Local	High	High
1	Assess tree hazards adjacent to electrical transmission lines to report to Pea River Electric Cooperative	All (primarily High Winds)	City Administration / Pea River Electric Coop	Local	High	High
5	Compile list of local heavy equipment owner/operators for responsive debris removal on surface streets post-disaster	All (primarily High Winds)	City Administration	Local	High	High
5	Procurement of holding tanks for storage of critical fuels	All	City Administration	ADEM/Local	High	Moderate
5	Procure and maintain generators for critical facilities	All	City Administration	HMGP/Local	High	Moderate
5	Maintain outdoor warning siren system	All	City Administration / Barbour County EMA	HMGP/Local	High	Moderate
4	Provide adequate community and individual safe rooms	High Winds	Barbour County EMA / City Administration	HMGP/Local/ Private	High	Moderate
5	Procure additional rescue equipment	All	Clio VFD	FEMA/USDA/Local	High	Moderate
5	Implement building collapse/confined space training	All	Clio VFD	DHS/Local	High	Moderate
5	Procure additional handheld communications equipment	All	City Administration	DHS/Local	High	Moderate
5	Establish volunteer search team with needed equipment	All	City Administration	DHS/Local	High	Moderate
5	Establish volunteer emergency dispatcher program with training	All	City Administration	Local	High	Moderate



### City of Clio Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
3,4	Continue to provide structural projects such as wind retrofits, drainage improvements, reservoirs, and retention or detention basins which store excess water, levees, and floodwalls which place barriers between the source of flooding and damage-prone properties; channeling modifications: widening, straightening, or removing bridge and culvert restrictions so the channel can convey more water or carry it faster, diversions that redirect high flows to another location, and channel maintenance; keeping streams, ditches, and storage basins clear (riprap, etc.)	Flooding	City Administration / Barbour Co Road and Bridge	HMGP/CDBG/SRF/ Local	High	Moderate/Low (dependent on specific project)
5	Investigate use of phone messaging system to provide warning of all impending hazardous conditions to public	All	Barbour County EMA	DHS/Local	High	High
6	Provide public involvement activities and publish public information brochures on natural hazards and emergency situations, including warning sirens, shelter information, basic needs during a disaster, and property protection activities	All	City Administration / Barbour County EMA	Partnerships/ Private Sponsorship/ State Agencies/Local Grants	High	High
5	Establish emergency triage locations	All	City Administration	Local	High	High
5	Establish emergency shelters at local churches	All	City Administration / Local Churches	Local	High	Moderate
5	Facilitate shelter operation plans with local agencies and Red Cross	All	City Administration	Local	High	High
5	Set up a secondary communications center with needed capabilities	All	City Administration	HMGP, other FEMA, other TBD	High	Moderate

Cowikee Water Authority Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
5	Procure backup generator for Cowikee Water System to ensure water distribution during emergencies	All	Cowikee Water Authority	HMGP/Local	High	Moderate

### City of Eufaula Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Rehabilitation of drainage system along sections of Sanford Ave and Malone St	Flooding	Public Works	DRA/CDBG/Local	Completed	N/A
1,3	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, zoning regulations to minimize development in flood prone areas, participating in flood map updates, and providing flood risk information to the public	Flooding	City Administration	HMGP/FMA/Local	High	High
1	Adopt construction storm water ordinance	Flooding	Building Dept	Local	High	High
5	Establish traffic control and route planning for emergencies	All	Police Dept	Local	High	High
5	Establish emergency debris disposal site	All	Public Works	Local	High	Moderate
1	Utilize city plans and land use ordinances for discussion of hazard mitigation techniques	All	City Administration	Local	High	High
1	Develop comprehensive watershed management program	All	City Administration / Chattahoochee-Chipola Clean Water Partnership	ADEM/Local	High	High
1	Develop plan of action for mosquito-borne diseases	All	City Administration / Public Health Dept	ADPH/Local	High	Moderate
5	Purchase new vehicles and equipment for police department	All	Police Dept	ADECA/Local, other TBD	High	Moderate
2	Continue housing rehabilitation programs in vulnerable areas	All	City Administration	CDBG/Private	Medium	Moderate
6	Coordinate hazard mitigation activities with local and county stakeholders	All	City Administration / Barbour County EMA	Local	High	High
1	Continue to update GIS system with hazard information	All	Building Dept	Local	High	High

### City of Eufaula Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
3,4	Continue to provide structural projects such as wind retrofits, drainage improvements, reservoirs, and retention or detention basins which store excess water, levees, and floodwalls which place barriers between the source of flooding and damage-prone properties; channeling modifications: widening, straightening, or removing bridge and culvert restrictions so the channel can convey more water or carry it faster, diversions that redirect high flows to another location, and channel maintenance; keeping streams, ditches, and storage basins clear (riprap, etc.)	Flooding	City Administration / Public Works	HMGP/CDBG/SRF/ Local	High	Moderate/Low (dependent on specific project)
5	Investigate use of phone messaging system to provide warning of all impending hazardous conditions to public	All	Barbour County EMA	DHS/Local	High	High
6	Promote a building safety week to educate the public about structural vulnerabilities	All	Building Dept	Local	High	High
6	Educate the public about preventing mosquito habitats	All	City Administration / Public Health Dept	ADPH/Local	High	High
6	Promote National Severe Weather Preparedness Week	All	City Administration / Barbour County EMA	FEMA/Local	High	High
6	Promote safety training in schools and public agencies	All	City Administration / Eufaula City Schools	DHS/FEMA/Local	High	High
6	Educate public about local government operations	All	City Administration	Local	High	High
5	Procure and maintain generators for critical facilities	All	City Administration	HMGP/Local	High	Moderate
5	Maintain outdoor warning siren system	All	City Administration / Barbour County EMA	HMGP/Local	High	Moderate
5	Establish program to regularly upgrade computer equipment	All	City Administration	Local	Medium	Moderate

### City of Eufaula Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Repair damaged and deteriorating drainage facilities	Flooding	Public Works	HMGP/DRA/CDBG/Local, other TBD	High	Moderate
5	Upgrade Police Station facilities	All	Police Dept	TBD/Local	High	Moderate
5	Upgrade communication abilities among all departments	All	City Administration	DHS/Local	High	Moderate
5	Establish Incident Command vehicle	All	Police Dept	DHS/Local	High	Moderate
4	Repair bluff area at Governor's Park	Flooding	Public Works	TBD/Local	High	Low
4	Provide adequate community and individual safe rooms	High Winds	Barbour County EMA / City Administration	HMGP/Local/Private	High	Moderate
3,4	Continue to provide structural projects such as wind retrofits, drainage improvements, reservoirs, and retention or detention basins which store excess water, levees, and floodwalls which place barriers between the source of flooding and damage-prone properties; channeling modifications: widening, straightening, or removing bridge and culvert restrictions so the channel can convey more water or carry it faster, diversions that redirect high flows to another location, and channel maintenance; keeping streams, ditches, and storage basins clear (riprap, etc.)	Flooding	City Administration / Barbour Co Road and Bridge	HMGP/CDBG/SRF/Local	High	Moderate/Low (dependent on specific project)



### Eufaula City Schools Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Provide safe rooms in school facilities for student and staff safety	High Winds	Eufaula City Schools	HMGP/Local	High	Moderate
5	Procure and maintain generators for critical facilities	All	Eufaula City Schools	HMGP/Local	High	Moderate

Town of Louisville Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
1,3	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, participating in flood map updates, and providing flood risk information to the public	Flooding	Town Administration	HMGP/FMA/Local	High	High
1,4	Add backflow valves in sewer lines	All	Town Administration	ADEM/USDA, other TBD	High	Moderate
5	Procure and maintain generators for critical facilities	All	Town Administration	HMGP/Local	High	Moderate
6	Provide public involvement activities and publish public information brochures on natural hazards and emergency situations, including warning sirens, shelter information, basic needs during a disaster, and property protection activities	All	Town Administration / Barbour County EMA	State Agencies/Local	High	High
1	Implement GIS system to assist with hazard mitigation	All	Town Administration	Grants TBD/Local	High	High
3,4	Continue to provide structural projects such as wind retrofits, drainage improvements, reservoirs, and retention or detention basins which store excess water, levees, and floodwalls which place barriers between the source of flooding and damage-prone properties; channeling modifications: widening, straightening, or removing bridge and culvert restrictions so the channel can convey more water or carry it faster, diversions that redirect high flows to another location, and channel maintenance; keeping streams, ditches, and storage basins clear (riprap, etc.)	Flooding	Town Administration / Barbour Co Road and Bridge	HMGP/CDBG/SRF/ Local	High	Moderate/Low (dependent on specific project)

Town of Louisville Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
5	Install dry hydrants and upgrade fire hydrants	All	Town Administration / Louisville VFD	CDBG/ADEM, other TBD	High	Moderate
5	Maintain outdoor warning siren system	All	Town Administration / Barbour County EMA	HMGP/Local	High	Moderate
5	Investigate use of phone messaging system to provide warning of all impending hazardous conditions to public	All	Barbour County EMA	DHS/Local	High	High
4	Provide adequate community and individual safe rooms	High Winds	Barbour County EMA / Town Administration	HMGP/Local/Private	High	Moderate

Mount Andrew Water Authority Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
5	Procure backup generator for Mt Andrew Water System to ensure water distribution during emergencies	All	Mt Andrew Water Authority	HMGP/Local	High	Moderate

West Barbour Water Authority Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
5	Procure backup generator for West Barbour Co Water System to ensure water distribution during emergencies	All	West Barbour Water Authority	HMGP/Local	High	Moderate



### **5.5.2 Butler County Jurisdictions Mitigation Actions**

1. Butler County
2. City of Georgiana
3. City of Greenville
4. Town of McKenzie
5. Butler County Schools

### Butler County Mitigation Action Plan

Goal	Deleted Actions	Hazards Addressed	Reason for Deletion of Action			
1	For NFIP, incorporate and enforce flood management provisions in all land use <del>and zoning regulations</del> decisions, as possible.	Flooding	Butler County does not have zoning authority			
4	Installation of 13 individual safe rooms in last several years	High Winds	Action has been completed in Butler County.			
5	Completion of new water well for additional supply	All	Action has been completed in Butler County.			
5	Continue investigating need for emergency water supply during disaster events and assess generator needs for water supply	All	Action is no longer relevant with addition of new water well.			
5	Continue planning and installation of approximately 45 sirens at targeted sites to adequately cover population pockets in Butler County	All	Butler County has transitioned to an automated phone call warning system and is no longer utilizing warning sirens.			
5	Equip fire departments with emergency radios	All	Action is complete.			
5	Installation of three (3) outdoor warning sirens in past five (5) years	All	Redundant and Butler County has transitioned to an automated phone call warning system and is no longer utilizing warning sirens.			
5	Installation of three (3) outdoor warning sirens in the past five (5) years	All	Redundant and Butler County has transitioned to an automated phone call warning system and is no longer utilizing warning sirens.			
5	Investigate need for and acquire emergency generators to provide back-up power to critical facilities	All	Action has been completed in Butler County.			
5	Investigate use of phone messaging system to provide warning of all impending hazardous conditions	All	Butler County has transitioned to an automated phone call warning system.			
5	Construct warning signage for limited visibility due to forest fires on major roads in targeted areas; especially during controlled burns	Wildfire	Action was deemed to no longer be relevant in Butler County.			
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Adopt and enforce modern building codes	All	Butler County Engineer, Planning Officials	Local	High	High
1	Continue to research and provide hazard mitigation, emergency preparedness, and disaster recovery grant management	All	Butler County EMA	Local	Medium	High
1	Develop long-range growth and development plan to address permitting and construction process in unincorporated areas, including subdivision regulations	All	Butler County Engineer, Planning Official	Local, other TBD	Medium	High
1	Ensure the Butler County EMA is involved in reviewing local planning documents	All	Local Government Building Officials	Local	Medium	High
1	Incorporate development of Geographic Information Systems (GIS) for database of critical facilities, infrastructure, and other applicable data to assist in hazard risk assessments	All	Butler County EMA, SCADC, Local Officials	Local, other TBD	Medium	Moderate

1	Work with municipalities to assist with implementation and update of hazard mitigation plan	All	Butler County EMA / Municipal Officials	Local	High	High
1	For NFIP, ensure future land use and growth plans do not extend development into flood plains	Flooding	Butler County Engineer, Municipal Bldg/Planning Officials	Local	High	High
1	For NFIP, incorporate and enforce flood management provisions in all land use decisions, as possible.	Flooding	Building/Planning Officials /Zoning Board	HMGP/FMA/ Local	High	High
1	Limit economic development activity in areas with a risk for landslides and land subsidence.	Landslides, Subsidence	Local Planning and Building Officials	Local	High	High
1	Further investigate areas of topographical depressions to evaluate local risk for land subsidence or sinkholes.	Subsidence	Butler County EMA, Butler County Engineer	Local	Medium	High
1	Support Butler County EMA efforts to investigate areas of topographical depressions to evaluate local risk for land subsidence or sinkholes.	Subsidence	Butler County EMA, Butler County Engineer	Local	Medium	High
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
2	Request flood studies for the southern part of Butler County that includes Georgiana and Garland communities to develop baseline elevations.	Flooding	Butler County EMA/ Butler County Engineer	HMGP/Local	High	Moderate
2	Acquisition of properties in floodplains to be used for open space and other recreational activities, as funds and properties are available.	Flooding	Butler County EMA, Butler County Engineer, Local Administration	HMGP/ Local, other TBD	High	Moderate
2	Acquisition or relocation of at-risk structures from flood prone and other natural areas	Flooding / All	Butler County EMA / Local Officials	HMGP/Local	High	Low
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Butler County EMA / SCADC	Local	Medium	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Butler County EMA, LEPC	Local	Medium	High
3	Assess vegetation in wildfire-prone areas to prevent landslides after fires.	Landslides	Butler County EMA, AFC	Local	Medium	High
4	Initiate local inventory of existing publicly- and privately-owned dams and record individual dam characteristics.	Dam Failure	Butler County EMA, Butler County Engineer, Local Building Officials	Local	Medium	High
4	Support Alabama Office of Water Resources efforts to record existing dams and their characteristics on a statewide basis.	Dam Failure	Butler County EMA, Butler County Engineer, Local Building Officials	Local	Medium	High
4	Continue bridge inspection and improvement efforts to prevent damage during flood events	Flooding	Butler County Road Dept., Municipal Administrations, Greenville Public Works	AEMA/ FEMA (HMGP, PDM), ADECA, TBD	High	Low

4	Identify flood prone roads to limit erosion and flood damage	Flooding	Butler Co Road Dept	ALDOT/Local	High	High
4	Construct new public shelter facilities in those areas of the county with no shelter facilities, including outdoor recreation areas; consider ADECA/ADSS model	High Winds	Butler County EMA	HMGP/ADECA, other TBD	High	Moderate
4	Secure funds for individual safe rooms	High Winds	Butler County EMA	HMGP/ Private	High	High
4	Work with developers, homebuilders, and contractors to promote construction of a safe room in all new residential development	High Winds	Butler County EMA, Building and Planning Officials	Local	Medium	High
5	Continue coordination of hazard mitigation activities with pandemic and health department provisions for emergency preparedness	All	Butler County EMA, Regional Medical Center	ADPH/Local Agencies	High	High
5	Continue inventory of emergency response services and assess needs	All	Butler County EMA, Municipal Administrations	Local	High	High
5	Designation of volunteer central emergency coordinator	All	Municipal Administrations	Local	High	N/A
5	Maintain all roadways to allow access for emergency response, recovery and repair, and continuity of delivery services	All	Butler County Road Dept, City Administration	ALDOT/ County/Local	High	Low
5	Maintain designation of a volunteer central emergency coordinator in each municipality / community to better facilitate communications with the Butler County EMA.	All	Each municipality	Local Funds	High	High
5	Maintain emergency generators to provide back-up power to critical facilities	All	Butler County EMA, Local Officials	HMGP/Local	High	Moderate
5	Provide for incident command training for local emergency personnel	All	Butler County EMA	DHS/Local, other TBD	High	High
5	Limit non-critical water consumption during severe drought conditions	Drought / Ex. Heat	Local Water Systems	Local	Medium	High
5	Maintain existing outdoor warning sirens as population fully transitions to mass notification system	High Winds	Butler County EMA, Local Officials	Local	Medium	High
5	Plan for and maintain adequate road and debris clearing capabilities.	High Winds, Winter / Ice Storms	Butler County EMA, Butler County Engineer, Greenville Public Works	Local	High	High
6	Actively participate in natural hazard reporting and record keeping on local level to ensure that Butler County and its municipalities have an accurate record of past hazard events, including severity	All	Butler County EMA, Municipal Administrative Staff	Local	Medium	High
6	Investigate natural hazard reporting methodology on national level to ensure that Butler County has an accurate record of past hazard events, including severity	All	Butler County EMA	Local	Medium	High
6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Butler County EMA	Local	High	High
6	Continue communication with the general public annually to provide status update of hazard mitigation plan and ongoing implementation	All	Butler County EMA	Local	High	High

6	Continue coordination with various local agencies (e.g. DHR, Board of Education, local churches) to assist with distribution of information	All	Butler County EMA, Local Agencies	Local Agencies	High	High
6	Continue distribution of hazard-related coloring and activity books	All	Butler County EMA / Board of Education	Butler County Schools / County EMA	High	High
6	Continue LEPC meetings to provide regular updates to county, municipal, utility, and emergency personnel	All	Butler County EMA	Local	High	High
6	Continue utilization of information booth for display of informational materials at public events	All	Butler County EMA	Local Agencies / State Agencies	High	High
6	Continue utilization of website and social media with timely information for citizens	All	Butler County EMA	Local	High	High
6	Develop broadcast public service announcements for local television	All	Butler County EMA, Various Agencies	Local/ Partnerships	High	Moderate
6	Develop print public service announcements, as funding allows.	All	Butler County EMA, Various Agencies	State Agencies/ Local	High	High
6	Work with Butler County Farm Agency and County Extension Office to establish drought information center	Drought / Ex. Heat	Butler County Officials	Local Agencies, other TBD	High	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Butler County EMA / Butler County Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Butler County EMA	Local	Medium	High
6	Include earthquake potential in GIS hazard mapping for residents and design professionals.	Earthquake	Butler County EMA / SCADC	Local	Medium	High
6	Publicize information on locations of existing public shelter and appropriate use	High Winds	Butler County EMA, Red Cross	Local	High	High
6	Educate citizens that all fuel-burning equipment should be vented to the outside.	Winter / Ice Storms	Butler County EMA	Local	High	High
6	Encourage homeowners to install carbon monoxide monitors and alarms.	Winter / Ice Storms	Butler County EMA, Local Building Officials	Local	High	High
1,4	Investigate need and feasibility for establishing a local reserve fund for repairing and/or incorporating hazard mitigation measures for public and private facilities and infrastructure that are at risk from natural hazards	All	County and Municipal Officials	Local	High	High
1,5	Develop drought and heat indicator plan and warning system	Drought / Ex. Heat	Farm Service Agency / County Extension Office	Local	High	High
2,3	Develop land management course of training with County Extension System for decrease of property damage	All	Butler County EMA / County Extension Service	Extension Service/Local	High	High
2,5	Continue to identify critical facilities and evaluate potential mitigation techniques	All	Butler County EMA / LEPC / Local Officials	Local	High	High
2,5	Designate and upgrade/retrofit, as necessary, existing public facilities to provide shelter	High Winds	Butler County EMA / City Administration	Funding TBD	High	Moderate



2,5	Designate and upgrade/retrofit, as necessary, existing public facilities to provide shelter in areas of Butler County where there currently are no shelters, primarily targeting schools and community centers; include the consideration of community colleges for additional shelters; consider coordinating with a medical needs shelter and comfort care facility with county health department or hospital	High Winds	Butler County EMA / Shelter Operators / Dept of Public Health	Funding TBD	Medium	Moderate
3,6	Multi-jurisdictional implementation of public awareness and education efforts about water conservation and quality	Drought / Ex. Heat	Butler County EMA, Local Water Systems, Health Dept	Applicable Agencies/ Local	Medium	High
3,6	Establish education program on buffer construction and fire breaks in wildland interface areas	Wildfire	Butler County EMA, Fire Protection Authorities	Alabama Forestry / Local, other TBD	Medium	High
3,6	Support Alabama Forestry Commission efforts to educate private landowners on best practices	Wildfire	Butler County EMA, Fire Protection Authorities, Building and Planning Officials	Local	Medium	High
4,5	Maintain and expand existing shelter facilities to provide adequate pre-disaster care and space, as needed; add additional generators; need to include shelter training and communication/shelter training	High Winds	Shelter Operators, American Red Cross	HMGP/ADECA, other TBD	Medium	High
5,6	Work with medical providers to develop emergency supplies and education program through the Healthcare Coalition	All	Butler County EMA, ADPH, County Health Dept, Medical Providers	ADPH/Local Medical Facilities	High	High

### City of Georgiana Mitigation Action Plan

Goal	Deleted Action Description	Hazards Addressed	Reason for Deletion of Action			
1	For NFIP, incorporate and enforce flood management provisions in all land use <del>and zoning regulations</del> decisions, as possible.	Flooding	The Town of Georgiana has not adopted a zoning ordinance and does not enforce zoning regulations.			
4	Construction of a new public shelter facility, including outdoor recreation areas	High Winds	Action was deemed to no longer be relevant in Georgiana.			
5	Continue investigating need for emergency water supply during disaster events and assess generator needs for water supply	All	Action is no longer relevant with addition of new water well.			
5	Investigate use of phone messaging system to provide warning of all impending hazardous conditions	All	Butler County has transitioned to an automated phone call warning system.			
5	Installation of additional outdoor warning siren	All	Butler County has transitioned to an automated phone call warning system and is no longer installing new warning sirens.			
5	Facilitate warning signage for limited visibility due to forest fires on major roads in targeted areas; especially during controlled burns	Wildfire	Action was deemed to no longer be relevant in Georgiana.			
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Continue to research and provide hazard mitigation, emergency preparedness, and disaster recovery grant management	All	Butler County EMA	Local	Medium	High
1	Incorporate development of Geographic Information Systems (GIS) for database of critical facilities, infrastructure, and other applicable data to assist in hazard risk assessments	All	Butler County EMA, SCADC, Local Officials	Local, other TBD	Medium	Moderate
1	For NFIP, incorporate and enforce flood management provisions in all land use decisions, as possible.	Flooding	Building/Planning Officials /Zoning Board	HMGP/FMA/ Local	High	High

1	Limit economic development activity in areas with a risk for landslides and land subsidence.	Landslides, Subsidence	Local Planning and Building Officials	Local	High	High
1	Support Butler County EMA efforts to investigate areas of topographical depressions to evaluate local risk for land subsidence or sinkholes.	Subsidence	Butler County EMA, Butler County Engineer	Local	Medium	High
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Assist with implementation and update of hazard mitigation plan	All	Butler County EMA, Municipal Administrations	Local	High	High
1	Continue enforcement of modern building codes	All	City Clerk, Bldg Inspector, Greenville Planning Dept	Local	High	High
1	Ensure the Butler County EMA is involved in reviewing local planning documents	All	Municipal Bldg and Planning Officials	Local	High	High
1	For NFIP, incorporate and enforce flood management provisions in all land use and zoning regulations	Flooding	Planning Dept, Planning Commission	HMGP/FMA/ Local	High	High
1	Utilize zoning ordinance for development in urban fringe areas	Wildfire	City Clerk / Zoning Board / Planning Dept	Local	High	High
2	Request flood studies for the southern part of Butler County that includes Georgiana and Garland communities to develop baseline elevations.	Flooding	Butler County EMA/ Butler County Engineer	HMGP/Local	High	Moderate
2	Acquisition of properties in floodplains to be used for open space and other recreational activities, as funds and properties are available.	Flooding	Butler County EMA, Butler County Engineer, Local Administration	HMGP/ Local, other TBD	High	Moderate
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Butler County EMA / SCADC	Local	Medium	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Butler County EMA, LEPC	Local	Medium	High
3	Assess vegetation in wildfire-prone areas to prevent landslides after fires.	Landslides	Butler County EMA, AFC	Local	Medium	High
4	Initiate local inventory of existing publicly- and privately-owned dams and record individual dam characteristics.	Dam Failure	Butler County EMA, Butler County Engineer, Local Building Officials	Local	Medium	High
4	Support Alabama Office of Water Resources efforts to record existing dams and their characteristics on a statewide basis.	Dam Failure	Butler County EMA, Butler County Engineer, Local Building Officials	Local	Medium	High
4	Continue bridge inspection and improvement efforts to prevent damage during flood events	Flooding	Butler County Road Dept., Municipal Administrations, Greenville Public Works	AEMA/ FEMA (HMGP, PDM), ADECA, TBD	High	Low
4	Secure funds for individual safe rooms	High Winds	Butler County EMA	HMGP/ Private	High	High

4	Work with developers, homebuilders, and contractors to promote construction of a safe room in all new residential development	High Winds	Butler County EMA, Building and Planning Officials	Local	Medium	High
4	Continue to evaluate flood prone roads to limit erosion and flood damage	Flooding	Butler County Road Dept., Municipal Administrations, Greenville Public Works	ALDOT, Local	High	High
5	Continue coordination of hazard mitigation activities with pandemic and health department provisions for emergency preparedness	All	Butler County EMA, Regional Medical Center	ADPH/Local Agencies	High	High
5	Continue inventory of emergency response services and assess needs	All	Butler County EMA, Municipal Administrations	Local	High	High
5	Designation of volunteer central emergency coordinator	All	Municipal Administrations	Local	High	N/A
5	Maintain all roadways to allow access for emergency response, recovery and repair, and continuity of delivery services	All	Butler County Road Dept, City Administration	ALDOT/ County/Local	High	Low
5	Maintain designation of a volunteer central emergency coordinator in each municipality / community to better facilitate communications with the Butler County EMA.	All	Each municipality	Local Funds	High	High
5	Maintain emergency generators to provide back-up power to critical facilities	All	Butler County EMA, Local Officials	HMGP/Local	High	Moderate
5	Provide for incident command training for local emergency personnel	All	Butler County EMA	DHS/Local, other TBD	High	High
5	Limit non-critical water consumption during severe drought conditions	Drought / Ex. Heat	Local Water Systems	Local	Medium	High
5	Maintain existing outdoor warning sirens as population fully transitions to mass notification system	High Winds	Butler County EMA, Local Officials	Local	Medium	High
5	Plan for and maintain adequate road and debris clearing capabilities.	High Winds, Winter / Ice Storms	Butler County EMA, Butler County Engineer, Greenville Public Works	Local	High	High
5	Procurement of additional generators at critical facilities for operations, as needed.	All	Butler County EMA, Municipal Administrations	HMGP/Local	High	Moderate
6	Actively participate in natural hazard reporting and record keeping on local level to ensure that Butler County and its municipalities have an accurate record of past hazard events, including severity	All	Butler County EMA, Municipal Administrative Staff	Local	Medium	High
6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Butler County EMA	Local	High	High
6	Continue coordination with various local agencies (e.g. DHR, Board of Education, local churches) to assist with distribution of information	All	Butler County EMA, Local Agencies	Local Agencies	High	High
6	Develop broadcast public service announcements for local television	All	Butler County EMA, Various Agencies	Local/ Partnerships	High	Moderate

6	Develop print public service announcements, as funding allows.	All	Butler County EMA, Various Agencies	State Agencies/ Local	High	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Butler County EMA / Butler County Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Butler County EMA	Local	Medium	High
6	Publicize information on locations of existing public shelter and appropriate use	High Winds	Butler County EMA, Red Cross	Local	High	High
6	Educate citizens that all fuel-burning equipment should be vented to the outside.	Winter / Ice Storms	Butler County EMA	Local	High	High
6	Encourage homeowners to install carbon monoxide monitors and alarms.	Winter / Ice Storms	Butler County EMA, Local Building Officials	Local	High	High
1,4	Investigate need and feasibility for establishing a local reserve fund for repairing and/or incorporating hazard mitigation measures for public and private facilities and infrastructure that are at risk from natural hazards	All	County and Municipal Officials	Local	High	High
1,5	Develop drought and heat indicator plan and warning system	Drought / Ex. Heat	Farm Service Agency / County Extension Office	Local	High	High
2,3	Develop land management course of training with County Extension System for decrease of property damage	All	Butler County EMA / County Extension Service	Extension Service/Local	High	High
2,5	Continue to identify critical facilities and evaluate potential mitigation techniques	All	Butler County EMA / LEPC / Local Officials	Local	High	High
2,5	Designate and upgrade/retrofit, as necessary, existing public facilities to provide shelter	High Winds	Butler County EMA / City Administration	Funding TBD	High	Moderate
3,6	Multi-jurisdictional implementation of public awareness and education efforts about water conservation and quality	Drought / Ex. Heat	Butler County EMA, Local Water Systems, Health Dept	Applicable Agencies/ Local	Medium	High
3,6	Establish education program on buffer construction and fire breaks in wildland interface areas	Wildfire	Butler County EMA, Fire Protection Authorities	Alabama Forestry / Local, TBD	High	High
3,6	Support Alabama Forestry Commission efforts to educate private landowners on best practices	Wildfire	Butler County EMA, Fire Protection Authorities, Building and Planning Officials	Local	Medium	High
4,5	Maintain and expand existing shelter facilities to provide adequate pre-disaster care and space, as needed; add additional generators; need to include shelter training and communication/shelter training	High Winds	Shelter Operators, American Red Cross	HMGP/ADECA, other TBD	Medium	High
5,6	Work with medical providers to develop emergency supplies and education program through the Healthcare Coalition	All	Butler County EMA, ADPH, County Health Dept, Medical Providers	ADPH/Local Medical Facilities	High	High



### City of Greenville Mitigation Action Plan

Goal	Deleted Action Description	Hazards Addressed	Reason for Deletion of Action
4	Investigate construction of a new public shelter facility, including at school campuses and outdoor recreation areas	High Winds	Action was deemed to no longer be relevant in the City of Greenville.
5	Continue investigating need for emergency water supply during disaster events and assess generator needs for water supply	All	Action is complete and no longer relevant with addition of new water well.
5	Investigate use of phone messaging system to provide warning of all impending hazardous conditions	All	Butler County has transitioned to an automated phone call warning system.
5	Facilitate warning signage for limited visibility due to forest fires on major roads in targeted areas; especially during controlled burns	Wildfire	Action was deemed to no longer be relevant in Georgiana.
5	Investigate need for and acquire emergency generators to provide back-up power to critical facilities	All	Action is complete.
5	Continued installation of additional outdoor warning siren	All	Butler County has transitioned to an automated phone call warning system and is no longer installing new warning sirens.
5	Installation of outdoor warning sirens	All	Butler County has transitioned to an automated phone call warning system and is no longer installing new warning sirens.

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Continue to research and provide hazard mitigation, emergency preparedness, and disaster recovery grant management	All	Butler County EMA	Local	Medium	High
1	Incorporate development of Geographic Information Systems (GIS) for database of critical facilities, infrastructure, and other applicable data to assist in hazard risk assessments	All	Butler County EMA, SCADC, Local Officials	Local, other TBD	Medium	Moderate
1	Limit economic development activity in areas with a risk for landslides and land subsidence.	Landslides, Subsidence	Local Planning and Building Officials	Local	High	High
1	Support Butler County EMA efforts to investigate areas of topographical depressions to evaluate local risk for land subsidence or sinkholes.	Subsidence	Butler County EMA, Butler County Engineer	Local	Medium	High
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Assist with implementation and update of hazard mitigation plan	All	Butler County EMA, Municipal Administrations	Local	High	High
1	Continue enforcement of modern building codes	All	City Clerk, Bldg Inspector, Greenville Planning Dept	Local	High	High
1	Ensure the Butler County EMA is involved in reviewing local planning documents	All	Municipal Bldg and Planning Officials	Local	High	High
1	For NFIP, incorporate and enforce flood management provisions in all land use and zoning regulations	Flooding	Planning Dept, Planning Commission	HMGP/FMA/ Local	High	High
1	Utilize zoning ordinance for development in urban fringe areas	Wildfire	City Clerk / Zoning Board / Planning Dept	Local	High	High
1	For NFIP, incorporate and enforce flood management provisions in all land use and zoning regulations	Flooding	Planning Dept	HMGP/FMA/ Local	High	High
1	For NFIP, maintain and update Comprehensive Plan and ensure future land use and growth plans do not extend development into flood plains	Flooding	Planning Dept	Local	High	High
2	Acquisition of properties in floodplains to be used for open space and other recreational activities, as funds and properties are available.	Flooding	Butler County EMA, Butler County Engineer, Local Administration	HMGP/ Local, other TBD	High	Moderate
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Butler County EMA / SCADC	Local	Medium	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Butler County EMA, LEPC	Local	Medium	High
3	Assess vegetation in wildfire-prone areas to prevent landslides after fires.	Landslides	Butler County EMA, AFC	Local	Medium	High

4	Initiate local inventory of existing publicly- and privately-owned dams and record individual dam characteristics.	Dam Failure	Butler County EMA, Butler County Engineer, Local Building Officials	Local	Medium	High
4	Support Alabama Office of Water Resources efforts to record existing dams and their characteristics on a statewide basis.	Dam Failure	Butler County EMA, Butler County Engineer, Local Building Officials	Local	Medium	High
4	Continue bridge inspection and improvement efforts to prevent damage during flood events	Flooding	Butler County Road Dept., Municipal Administrations, Greenville Public Works	AEMA/ FEMA (HMGP, PDM), ADECA, other TBD	High	Low
4	Secure funds for individual safe rooms	High Winds	Butler County EMA	HMGP/ Private	High	High
4	Work with developers, homebuilders, and contractors to promote construction of a safe room in all new residential development	High Winds	Butler County EMA, Building and Planning Officials	Local	Medium	High
4	Continue to evaluate flood prone roads to limit erosion and flood damage	Flooding	Butler County Road Dept., Municipal Administrations, Greenville Public Works	ALDOT, Local	High	High
4	Improve drainage conditions along Overlook Road, near Middle School	Flooding	Public Works	HMGP/Local	High	Moderate
5	Continue coordination of hazard mitigation activities with pandemic and health department provisions for emergency preparedness	All	Butler County EMA, Regional Medical Center	ADPH/Local Agencies	High	High
5	Continue inventory of emergency response services and assess needs	All	Butler County EMA, Municipal Administrations	Local	High	High
5	Designation of volunteer central emergency coordinator	All	Municipal Administrations	Local	High	N/A
5	Maintain all roadways to allow access for emergency response, recovery and repair, and continuity of delivery services	All	Butler County Road Dept, City Administration	ALDOT/ County/Local	High	Low
5	Maintain designation of a volunteer central emergency coordinator in each municipality / community to better facilitate communications with the Butler County EMA.	All	Each municipality	Local Funds	High	High
5	Maintain emergency generators to provide back-up power to critical facilities	All	Butler County EMA, Local Officials	HMGP/Local	High	Moderate
5	Provide for incident command training for local emergency personnel	All	Butler County EMA	DHS/Local, other TBD	High	High
5	Limit non-critical water consumption during severe drought conditions	Drought / Ex. Heat	Local Water Systems	Local	Medium	High
5	Maintain existing outdoor warning sirens as population fully transitions to mass notification system	High Winds	Butler County EMA, Local Officials	Local	Medium	High
5	Plan for and maintain adequate road and debris clearing capabilities.	High Winds, Winter / Ice Storms	Butler County EMA, Butler County Engineer, Greenville Public Works	Local	High	High
5	Procurement of additional generators at critical facilities for operations, as needed.	All	Butler County EMA, Municipal Administrations	HMGP/Local	High	Moderate

6	Actively participate in natural hazard reporting and record keeping on local level to ensure that Butler County and its municipalities have an accurate record of past hazard events, including severity	All	Butler County EMA, Municipal Administrative Staff	Local	Medium	High
6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Butler County EMA	Local	High	High
6	Continue coordination with various local agencies (e.g. DHR, Board of Education, local churches) to assist with distribution of information	All	Butler County EMA, Local Agencies	Local Agencies	High	High
6	Develop broadcast public service announcements for local television	All	Butler County EMA, Various Agencies	Local/ Partnerships	High	Moderate
6	Develop print public service announcements, as funding allows.	All	Butler County EMA, Various Agencies	State Agencies/ Local	High	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Butler County EMA / Butler County Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Butler County EMA	Local	Medium	High
6	Publicize information on locations of existing public shelter and appropriate use	High Winds	Butler County EMA, Red Cross	Local	High	High
6	Educate citizens that all fuel-burning equipment should be vented to the outside.	Winter / Ice Storms	Butler County EMA	Local	High	High
6	Encourage homeowners to install carbon monoxide monitors and alarms.	Winter / Ice Storms	Butler County EMA, Local Building Officials	Local	High	High
1,4	Investigate need and feasibility for establishing a local reserve fund for repairing and/or incorporating hazard mitigation measures for public and private facilities and infrastructure that are at risk from natural hazards	All	County and Municipal Officials	Local	High	High
2,3	Develop land management course of training with County Extension System for decrease of property damage	All	Butler County EMA / County Extension Service	Extension Service/Local	High	High
2,5	Continue to identify critical facilities and evaluate potential mitigation techniques	All	Butler County EMA / LEPC / Local Officials	Local	High	High
2,5	Designate and upgrade/retrofit, as necessary, existing public facilities to provide shelter	High Winds	Butler County EMA / City Administration	Funding TBD	High	Moderate
3,6	Multi-jurisdictional implementation of public awareness and education efforts about water conservation and quality	Drought / Ex. Heat	Butler County EMA, Local Water Systems, Health Dept	Applicable Agencies/ Local	Medium	High
3,6	Establish education program on buffer construction and fire breaks in wildland interface areas	Wildfire	Butler County EMA, Fire Protection Authorities	Alabama Forestry / Local, other TBD	High	High

3,6	Support Alabama Forestry Commission efforts to educate private landowners on best practices	Wildfire	Butler County EMA, Fire Protection Authorities, Building and Planning Officials	Local	Medium	High
4,5	Maintain and expand existing shelter facilities to provide adequate pre-disaster care and space, as needed; add additional generators; need to include shelter training and communication/shelter training	High Winds	Shelter Operators, American Red Cross	HMGP/ADECA, other TBD	Medium	High
5,6	Work with medical providers to develop emergency supplies and education program through the Healthcare Coalition	All	Butler County EMA, ADPH, County Health Dept, Medical Providers	ADPH/Local Medical Facilities	High	High



### Town of McKenzie Mitigation Action Plan

Goal	Deleted Action Description	Hazards Addressed	Reason for Deletion of Action			
4	Investigate construction of a new public shelter facility, including at school campuses and outdoor recreation areas	High Winds	Action was deemed to no longer be relevant in the Town of McKenzie.			
5	Continue investigating need for emergency water supply during disaster events and assess generator needs for water supply	All	Action is complete and no longer relevant with addition of new water well.			
5	Investigate use of phone messaging system to provide warning of all impending hazardous conditions	All	Butler County has transitioned to an automated phone call warning system.			
5	Facilitate warning signage for limited visibility due to forest fires on major roads in targeted areas; especially during controlled burns	Wildfire	Action was deemed to no longer be relevant in McKenzie.			
5	Investigate need for and acquire emergency generators to provide back-up power to critical facilities	All	Action is complete.			
5	Installation of additional outdoor warning siren	All	Butler County has transitioned to an automated phone call warning system and is no longer installing new warning sirens.			
1,2	Promote firewise building practices in urban fringe areas	Wildfire	Action was deemed to no longer be relevant in McKenzie.			
1,3	Join the NFIP program to enforce flood management provisions.	Flooding	Action was deemed to not be relevant in the Town of McKenzie because there are no floodplains located within the town's corporate boundaries.			
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Continue to research and provide hazard mitigation, emergency preparedness, and disaster recovery grant management	All	Butler County EMA	Local	Medium	High
1	Incorporate development of Geographic Information Systems (GIS) for database of critical facilities, infrastructure, and other applicable data to assist in hazard risk assessments	All	Butler County EMA, SCADC, Local Officials	Local, other TBD	Medium	Moderate
1	Limit economic development activity in areas with a risk for landslides and land subsidence.	Landslides, Subsidence	Local Planning and Building Officials	Local	High	High
1	Support Butler County EMA efforts to investigate areas of topographical depressions to evaluate local risk for land subsidence or sinkholes.	Subsidence	Butler County EMA, Butler County Engineer	Local	Medium	High
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Assist with implementation and update of hazard mitigation plan	All	Butler County EMA, Municipal Administrations	Local	High	High

1	Adopt and enforce modern building codes	All	Butler County Engineer, Planning Officials	Local	Medium	High
1	Ensure the Butler County EMA is involved in reviewing local planning documents	All	Local Government Building Officials	Local	Medium	High
1	For NFIP, ensure future land use and growth plans do not extend development into flood plains	Flooding	Butler County Engineer, Municipal Bldg/Planning Officials	Local	High	High
1	Develop long-range growth and development plan to address permitting and construction	All	Town Administration	Local, other TBD	Medium	High
2	Acquisition of properties in floodplains to be used for open space and other recreational activities, as funds and properties are available.	Flooding	Butler County EMA, Butler County Engineer, Local Administration	HMGP/ Local, other TBD	High	Moderate
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Butler County EMA / SCADC	Local	Medium	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Butler County EMA, LEPC	Local	Medium	High
3	Assess vegetation in wildfire-prone areas to prevent landslides after fires.	Landslides	Butler County EMA, AFC	Local	Medium	High
4	Initiate local inventory of existing publicly- and privately-owned dams and record individual dam characteristics.	Dam Failure	Butler County EMA, Butler County Engineer, Local Building Officials	Local	Medium	High
4	Support Alabama Office of Water Resources efforts to record existing dams and their characteristics on a statewide basis.	Dam Failure	Butler County EMA, Butler County Engineer, Local Building Officials	Local	Medium	High
4	Continue bridge inspection and improvement efforts to prevent damage during flood events	Flooding	Butler County Road Dept., Municipal Administrations, Greenville Public Works	AEMA/ FEMA (HMGP, PDM), ADECA, other TBD	High	Low
4	Secure funds for individual safe rooms	High Winds	Butler County EMA	HMGP/ Private	High	High
4	Work with developers, homebuilders, and contractors to promote construction of a safe room in all new residential development	High Winds	Butler County EMA, Building and Planning Officials	Local	Medium	High
4	Continue to evaluate flood prone roads to limit erosion and flood damage	Flooding	Butler County Road Dept., Municipal Administrations, Greenville Public Works	ALDOT, Local	High	High
4	Improve drainage conditions along North Garland Road, in front of school	Flooding	Town Administration	HMGP /Local, other TBD	Medium	Moderate
5	Continue coordination of hazard mitigation activities with pandemic and health department provisions for emergency preparedness	All	Butler County EMA, Regional Medical Center	ADPH/Local Agencies	High	High
5	Continue inventory of emergency response services and assess needs	All	Butler County EMA, Municipal Administrations	Local	High	High
5	Designation of volunteer central emergency coordinator	All	Municipal Administrations	Local	High	N/A

5	Maintain all roadways to allow access for emergency response, recovery and repair, and continuity of delivery services	All	Butler County Road Dept, City Administration	ALDOT/ County/Local	High	Low
5	Maintain designation of a volunteer central emergency coordinator in each municipality / community to better facilitate communications with the Butler County EMA.	All	Each municipality	Local Funds	High	High
5	Maintain emergency generators to provide back-up power to critical facilities	All	Butler County EMA, Local Officials	HMGP/Local	High	Moderate
5	Provide for incident command training for local emergency personnel	All	Butler County EMA	DHS/Local, other TBD	High	High
5	Limit non-critical water consumption during severe drought conditions	Drought / Ex. Heat	Local Water Systems	Local	Medium	High
5	Maintain existing outdoor warning sirens as population fully transitions to mass notification system	High Winds	Butler County EMA, Local Officials	Local	Medium	High
5	Plan for and maintain adequate road and debris clearing capabilities.	High Winds, Winter / Ice Storms	Butler County EMA, Butler County Engineer, Greenville Public Works	Local	High	High
5	Procurement of additional generators at critical facilities for operations, as needed.	All	Butler County EMA, Municipal Administrations	HMGP/Local	High	Moderate
6	Actively participate in natural hazard reporting and record keeping on local level to ensure that Butler County and its municipalities have an accurate record of past hazard events, including severity	All	Butler County EMA, Municipal Administrative Staff	Local	Medium	High
6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Butler County EMA	Local	High	High
6	Continue coordination with various local agencies (e.g. DHR, Board of Education, local churches) to assist with distribution of information	All	Butler County EMA, Local Agencies	Local Agencies	High	High
6	Develop broadcast public service announcements for local television	All	Butler County EMA, Various Agencies	Local/ Partnerships	High	Moderate
6	Develop print public service announcements, as funding allows.	All	Butler County EMA, Various Agencies	State Agencies/ Local	High	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Butler County EMA / Butler County Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Butler County EMA	Local	Medium	High
6	Publicize information on locations of existing public shelter and appropriate use	High Winds	Butler County EMA, Red Cross	Local	High	High
6	Educate citizens that all fuel-burning equipment should be vented to the outside.	Winter / Ice Storms	Butler County EMA	Local	High	High
6	Encourage homeowners to install carbon monoxide monitors and alarms.	Winter / Ice Storms	Butler County EMA, Local Building Officials	Local	High	High

1,4	Investigate need and feasibility for establishing a local reserve fund for repairing and/or incorporating hazard mitigation measures for public and private facilities and infrastructure that are at risk from natural hazards	All	County and Municipal Officials	Local	High	High
2,3	Develop land management course of training with County Extension System for decrease of property damage	All	Butler County EMA / County Extension Service	Extension Service/Local	High	High
2,5	Continue to identify critical facilities and evaluate potential mitigation techniques	All	Butler County EMA / LEPC / Local Officials	Local	High	High
2,5	Designate and upgrade/retrofit, as necessary, existing public facilities to provide shelter	High Winds	Butler County EMA / City Administration	Funding TBD	High	Moderate
3,6	Multi-jurisdictional implementation of public awareness and education efforts about water conservation and quality	Drought / Ex. Heat	Butler County EMA, Local Water Systems, Health Dept	Applicable Agencies/ Local	Medium	High
3,6	Establish education program on buffer construction and fire breaks in wildland interface areas	Wildfire	Butler County EMA, Fire Protection Authorities	Alabama Forestry / Local, other TBD	High	High
3,6	Support Alabama Forestry Commission efforts to educate private landowners on best practices	Wildfire	Butler County EMA, Fire Protection Authorities, Building and Planning Officials	Local	Medium	High
4,5	Maintain and expand existing shelter facilities to provide adequate pre-disaster care and space, as needed; add additional generators; need to include shelter training and communication/shelter training	High Winds	Shelter Operators, American Red Cross	HMGP/ADECA, other TBD	Medium	High
5,6	Work with medical providers to develop emergency supplies and education program through the Healthcare Coalition	All	Butler County EMA, ADPH, County Health Dept, Medical Providers	ADPH/Local Medical Facilities	High	High

### Butler County Schools Mitigation Action Plan

Goal	Deleted Action Description	Hazards Addressed	Reason for Deletion of Action			
4	<del>Provide safe rooms in school facilities for student and staff safety</del>	High Winds	Action is complete.			
5	<del>Procure and maintain generators for critical facilities</del>	All	Action is complete.			
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Butler County EMA / SCADC	Local	Medium	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Butler County EMA, LEPC	Local	Medium	High
4	Provide isolation rooms in school facilities for pandemic children until they can be picked up.	High Winds	Butler County Schools	HMGP/Local	High	Moderate
5	Continue coordination of hazard mitigation activities with pandemic and health department provisions for emergency preparedness	All	Butler County EMA, Regional Medical Center	ADPH/Local Agencies	High	High
6	Actively participate in natural hazard reporting and record keeping on local level to ensure that Butler County and its municipalities have an accurate record of past hazard events, including severity	All	Butler County EMA, Municipal Administrative Staff	Local	Medium	High
6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Butler County EMA	Local	High	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Butler County EMA / Butler County Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Butler County EMA	Local	Medium	High
6	Continue distribution of hazard-related coloring and activity books	All	Butler County EMA / Board of Education	Butler County Schools / County EMA	High	High



6	Continue incorporation of hazard mitigation awareness in local schools	All	Butler County Board of Education	Butler County Schools / County EMA	High	High
6	Include safety strategies for severe weather in driver education classes and materials.	Winter / Ice Storms	Butler County EMA, Butler County Schools	Local	High	High



### **5.5.3 Coffee County Jurisdictions Mitigation Actions**

- 1. Coffee County**
- 2. Coffee County Schools**
- 3. City of Elba**
- 4. Elba City Schools**
- 5. City of Enterprise**
- 6. Enterprise City Schools**
- 7. Jack Water Authority**
- 8. Town of Kinston**
- 9. Town of New Brockton**

### Coffee County Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
5	Provide critical facilities with back-up emergency generators. This includes the Coffee County Engineer's Office, and Coffee County Regional Landfill Scale house.	All	Coffee County Engineer	HMGP / Local	High	Moderate
6	Continue incorporation of hazard mitigation awareness in local schools	All	Coffee County Board of Education / Enterprise, Elba City Schools	Coffee County Schools / County EMA	High	High
5	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Coffee County EMA	Local	Medium	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Coffee County EMA, LEPC	Local	Medium	High
3,6	Establish education program on buffer construction and fire breaks in wildland interface areas	Wildfire	Coffee County EMA, Fire Protection Authorities	Alabama Forestry / Local, other TBD	High	High
3,6	Support Alabama Forestry Commission efforts to educate private landowners on best practices	Wildfire	Coffee County EMA, Fire Protection Authorities, Building and Planning Officials	Local	Medium	High
6	Include safety strategies for severe weather in driver education classes and materials.	Winter / Ice Storms	Coffee County EMA, Coffee County Schools	Local	High	High
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Coffee County EMA / Coffee County Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Coffee County EMA	Local	Medium	High
3,6	Multi-jurisdictional implementation of public awareness and education efforts about water conservation and quality	Drought / Ex. Heat	Coffee County EMA, Local Water Systems, Health Dept	Applicable Agencies/ Local	Medium	High

5	Limit non-critical water consumption during severe drought conditions	Drought / Ex. Heat	Local Water Systems	Local	Medium	High
5	A large portion of rural Coffee County is currently not served by an outdoor warning siren system. The lack of this system places rural residents, including those at sporting events, in danger from severe weather or other phenomena. The county plans to improve the current outdoor warning siren system by installing additional sirens in populated areas and/or areas where there are substantial outdoor activities, including Pathways Wilderness Camp (152 PR 1204), Curtis Community along Hwy 141, and Camp Humming Hills Girl Scout Camp (657 CR 228)	High Winds / Severe Storms	Coffee County EMA	HMGP/Local	High	Moderate
5	Assist citizens with obtaining the means to purchase individual shelters / safe rooms to protect themselves and their families from tornadoes and hurricanes.	High Winds	County Administration / Coffee County Citizens	HMGP/Private	High	High
1	Continue participation in the NFIP through maintaining and administering the county's floodplain development regulations, enforcing subdivision regulations that minimize flood risk to new developments, participating in flood map updates, and providing flood risk information to the public.	Flooding	NFIP Coordinator / Local Government Administration	HMGP/FMA/Local	High	High
2	Acquisition of properties in floodplains to be used for open space and other recreational activities, as funds and properties are available.	Flooding	Coffee County EMA, Coffee County Engineer, Local Administration	HMGP/ Local, other TBD	High	Moderate



### Coffee County Schools Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	All existing schools and any future new school construction should include sufficient “shelter spaces/safe rooms” to provide adequate protection and safety for all students and staff.	High Winds	Coffee County Schools	HMGP/Coffee County Schools	High	Moderate
4	Provide isolation rooms in school facilities for pandemic children until they can be picked up.	High Winds	Coffee County Schools	HMGP/Local	High	Moderate
5	Procure and maintain generators for critical facilities	All	Coffee County Schools	HMGP/Coffee County Schools	High	Moderate
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Coffee County EMA	Local	Medium	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Coffee County EMA, LEPC	Local	Medium	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Coffee County EMA / Coffee County Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Coffee County EMA	Local	Medium	High
6	Continue distribution of hazard-related coloring and activity books	All	Coffee County EMA / Board of Education	Coffee County Schools / County EMA	High	High
6	Continue incorporation of hazard mitigation awareness in local schools	All	Coffee County Board of Education	Coffee County Schools / County EMA	High	High

City of Elba Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
2	Retrofitting of four sewer lift stations through elevation and upgrading	Flooding	City Administration	HMGP/Local	Completed	N/A
5	Provide critical facilities with back-up emergency generators.	All	City Administration	HMGP/Local	High	Moderate
5	Procure two generators to rotate among 40 sewer lift stations	All	City Administration	HMGP/Local	High	Moderate
5	Procure two generators to operate emergency shelters	All	City Administration	HMGP/Local	High	Moderate
5	Procure a generator for City Shop that supports multiple City departments with fueling, equipment repairs, and other emergency operations	All	City Administration	HMGP/Local	High	Moderate
5	Procure a generator for City Hall, which is the city's emergency/disaster command center for sustained operations	All	City Administration	HMGP/Local	High	Moderate
5	Purchase debris removal equipment which would expedite debris removal, clearing of roads and restoration of power.	All	City Administration	ADECA/Local	Medium	Moderate
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1,2,3	Purchase additional flood pumps to be installed in the west end of the city to prevent future flooding in that area.	Flooding	City Administration	HMGP/Local, other TBD	Medium	Moderate
4	Clearing project for two existing ditches located in the area of Whitman Street and Pinedale Drive. This would greatly improve flow capacity in and around that area.	Flooding	City Public Works	Local	Medium	Moderate
4	An erosion prevention and soil stabilization project at Elba City Schools	Flooding	City Engineer / County Engineer / NRCS	HMGP / NRCS/ Local	Medium	Moderate

	complex to help eliminate future flood damage to both facilities and streets.					
2	Acquisition or relocation of structures within FEMA-identified floodplain	Flooding	City Administration	HMGP/Local	Medium	Moderate
<b>City of Elba Mitigation Action Plan</b>						
<b>Goal</b>	<b>Action Description</b>	<b>Hazards Addressed</b>	<b>Lead Agency</b>	<b>Funding Source</b>	<b>Priority / Status</b>	<b>Benefit / Cost Score</b>
1	“Snagging and clearing” project on file with the US Army Corps of Engineers to improve flow capacity of the waterways in and around Elba, reducing out-of-bank conditions.	Flooding	City Engineer	US Army Corps of Engineers	Medium	Moderate
1,4	Elba is in the formative planning stages to determine requirements and estimate remodeling needed to convert an existing structure into a self-sufficient emergency operations center. The structure to be remodeled is the current Utility Operations Center, located at 475 Highway 203. The structure is located above the floodplain and is a substantial structure with emergency power. This will facilitate emergency operations should future flooding occur or should other factors make occupation of other portions of the city not possible.	All (primarily Flooding)	City Administration	Funding TBD	Medium	Moderate
1,3	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, participating in flood map updates, and providing flood risk information to the public. The local Flood Damage Prevention resolution was updated in 2009.	Flooding	NFIP Coordinator	HMGP/FMA/Local	High	High
1	Study of Beaver Dam and Moore’s Creek Basin to identify future mitigation projects to eliminate flooding in these areas.	Flooding	City Engineer	LEPC/HMGP	Low	Moderate
1	Acquisition of a bush hog attachment for a current excavator for clearing of river basin areas allowing for better flow of water	Flooding	City Engineer	USDA/Local	High	High

1	Limit economic development activity in areas with a risk for landslides and land subsidence.	Landslides, Subsidence	Local Planning and Building Officials	Local	High	High
1	Support Coffee County EMA efforts to investigate areas of topographical depressions to evaluate local risk for land subsidence or sinkholes.	Subsidence	Coffee County EMA, Coffee County Engineer	Local	Medium	High
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Coffee County EMA / Coffee County Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Coffee County EMA	Local	Medium	High
4	Work with developers, homebuilders, and contractors to promote construction of a safe room in all new residential development	High Winds	Coffee County EMA, Building and Planning Officials	Local	Medium	High
3,6	Establish education program on buffer construction and fire breaks in wildland interface areas	Wildfire	Coffee County EMA, Fire Protection Authorities	Alabama Forestry / Local, other TBD	High	High
3,6	Support Alabama Forestry Commission efforts to educate private landowners on best practices	Wildfire	Coffee County EMA, Fire Protection Authorities, Building and Planning Officials	Local	Medium	High

<b>Elba City Schools Mitigation Action Plan</b>						
<b>Goal</b>	<b>Action Description</b>	<b>Hazards Addressed</b>	<b>Lead Agency</b>	<b>Funding Source</b>	<b>Priority / Status</b>	<b>Benefit / Cost Score</b>
4	All existing schools and any future new school construction should include sufficient “shelter spaces/safe rooms” to provide adequate protection and safety for all students and staff.	High Winds	Elba City Schools	HMGP/Elba City Schools	High	Moderate
5	Provide critical facilities with back-up emergency generators. The BOE proposes the purchase of one portable trailer-mounted 150KW emergency generator to support the school system on an as-required basis. Approximate cost of \$25,000.	All	Elba City Schools / City Administration	HMGP/ADECA	High	Moderate



City of Enterprise Mitigation Action Plan			
Goal	Deleted Action Description	Hazards Addressed	Reason for Deletion of Action
4	Install drainage improvements on Dauphin Street to alleviate street flooding	Flooding	City has completed this action
4	Rehabilitate northeast and southeast sewage lagoons to remove sludge and debris from previous storms that have limited capacity and infiltration pump damage	All	City has completed this action
5	Provide critical facilities with emergency generators to support critical systems / activities until normal power is restored.	All	City has completed this action
1,3	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, zoning regulations to minimize development in flood prone areas, participating in flood map updates, and providing flood risk information to the public. The local Flood Damage Prevention resolution was updated in 2020.	Flooding	City updated and passed The local Flood Damage Prevention
4	Build catch basin on David Road to collect stormwater runoff and channel to shoulders to prevent road damage.	Flooding	No longer a priority for the City of Enterprise

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Safe Room insertion into new Enterprise High School	High Winds	Enterprise Schools	State/Local	Completed	N/A
2	Replacement of Northside Drive Bridge	Flooding	City Engineer	Local	Completed	N/A
1	Adopt updated building codes	All	City Engineer	Local	High	N/A
4	Rehabilitate drainage channel from Dauphin Street to Hillcrest Loop, which conveys storm drainage	Flooding	City Engineer	HMGP/Local	High	Moderate

	from Downtown. Years of erosion has increased flow restriction in the channel.					
5	Provide critical facilities with emergency generators to support critical systems / activities until normal power is restored.	All	City Administration	HMGP/Local	Completed	Moderate
1,5	Identification of critical facilities, such as government buildings, health care centers, schools and infrastructure, is ongoing. These facilities should have their own emergency response plans for any hazards they may be exposed to. Generate or revise emergency response plans accordingly. Determine the potential impact of the loss of the facility in terms of economic loss and impact on the community.	All	City Administration / Building Department	Funding TBD	Medium	High
1,2	Update City's planning documents, including Comprehensive Plan, zoning and subdivision regulations, and building codes. The Comprehensive Plan needs to include any relation between proposed land use and floodplain development, storm water management, drainage problems, and other hazardous areas. The zoning ordinance needs to include special zoning provisions for hazardous areas, including flood prone areas. The city needs to adopt the most current edition of the International Building Codes to provide the most stringent regulations for multiple hazards. These actions will require the services of a professional planner. It is estimated that the cost could approach \$50,000.	All (primarily Flooding)	City Administration / Building Dept	Local	High	High
5,6	Provide early warning of impending hazards to areas of the city not already covered through expansion of the existing siren system, including broadcast warnings over television and radio. Currently, the highest priority is the addition of an outdoor warning siren in the Oak Ridge Forest subdivision in southern Enterprise.	All	County	HMGP/Local	High	High
1,4	Develop and implement a program to inspect and clean the storm drainage system.	All	Public Works	ADEM / Public Works Dept	Low	High
1,4	Identify and implement a program for widening, straightening, removing, and/or replacing bridge and culvert restrictions.	All	Public Works	ALDOT / Public Works Dept	Low	Moderate
1	Upgrade the City's mapping services by developing a GIS and GPS system of mapping with the capability of inserting FIRM data.	All	Coffee County E-911	ADECA/Local	Medium	High

4,5	Install a safety shelter at the airport to include a generator for back-up emergency services.	All	City Administration	HMGP/Local	High	Moderate
4	Repair scouring at Dixie Drive bridge. Build retaining walls on either end to prevent future trouble.	Flooding	City Engineer	HMGP/Local	Complete	Moderate
4	Replace rusted storm water pipe at Grimes Street / West Hildreth Avenue intersection, due to it being rusted.	Flooding	Public Works	HMGP/Local	High	Moderate

<b>Enterprise City Schools Mitigation Action Plan</b>						
<b>Goal</b>	<b>Action Description</b>	<b>Hazards Addressed</b>	<b>Lead Agency</b>	<b>Funding Source</b>	<b>Priority / Status</b>	<b>Benefit / Cost Score</b>
4	All existing schools and any future new school construction should also include sufficient “shelter spaces/safe rooms” to provide adequate protection and safety for all students and staff. In all existing school facilities and any future new school construction, retrofit select windows and doors with lockable metal shutters and add hurricane clips to the rafters, where applicable, or perform other structural reinforcement for other types of roof structures, as needed, to provide sufficient “shelter spaces/safe rooms” for the safety of students and staff.	High Winds	Enterprise Schools / City Administration	HMGP/Enterprise City Schools	High	Moderate
5	Install backup generators to provide limited back-up electrical service for communication when needed for the safety of students and staff.	All	Enterprise Schools / City Administration	HMGP/ADECA	High	Moderate
4	All existing schools and any future new school construction should include sufficient “shelter spaces/safe rooms” to provide adequate protection and safety for all students and staff.	High Winds	Coffee County Schools	HMGP/Coffee County Schools	High	Moderate
4	Provide isolation rooms in school facilities for pandemic children until they can be picked up.	High Winds	Coffee County Schools	HMGP/Local	High	Moderate

5	Procure and maintain generators for critical facilities	All	Coffee County Schools	HMGP/Coffee County Schools	High	Moderate
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Coffee County EMA	Local	Medium	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Coffee County EMA, LEPC	Local	Medium	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Coffee County EMA / Enterprise City Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Coffee County EMA	Local	Medium	High
6	Continue distribution of hazard-related coloring and activity books	All	Coffee County EMA / Board of Education	Coffee County Schools / County EMA	High	High
6	Continue incorporation of hazard mitigation awareness in local schools	All	Enterprise City Board of Education	Coffee County Schools / County EMA	High	High

### Jack Water Authority Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
5	Procure backup generator for Jack Water System to ensure water distribution during emergencies	All	Jack Water Authority	HMGP/Local	High	Moderate



### Town of Kinston Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Conduct study to address the drainage problems of the downtown area. During storms with one to two inches of rainfall in a short time frame, Main Street becomes inundated with four to six inches of water which poses an extreme hazard to motorists. During heavy storms with long periods of heavy rain, the downtown drainage system (off Main Street and Gilmer Street) is unable to accommodate the volume of stormwater due to the inadequate size of the drainage system. This causes stormwater to back up. Water has backed up to the sidewalk on Main Street and has crossed over Gilmer Street and almost entered a house on the adjoining property. According to an engineering cost estimate, it will only cost approximately \$77,000 to remediate the downtown drainage problems, which will prevent the potential loss of hundreds of thousands of dollars in damages to Kinston's infrastructure and private property.	Flooding	Town Administration	HMGP / CDBG/ Coffee Co Road and Bridge	Medium	Moderate
1,3	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, zoning regulations to minimize development in flood prone areas, participating in flood map updates, and	Flooding	NFIP Coordinator	HMGP/FMA/Local	High	High

	providing flood risk information to the public. The local Flood Damage Prevention resolution was updated in 2009.					
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Town of Kinston Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
5	Purchase a generator for Senior Center facility	All	Town Administration	HMGP/Local	Medium	Moderate
5	Purchase fire suppression sprinkler systems for Senior Center and Town Hall	All	Town Administration	DHS/Local, other TBD	Medium	Moderate
4,5	All new construction, especially those occupied by at-risk populations such as senior centers, should include sufficient protection for all occupants.	All (primarily High Winds)	Town Administration	HMGP/ADECA/Local	High	Moderate
2	Retrofit new Senior Center with a safe room and/or lockable metal shutters and hurricane clips	All (primarily High Winds)	Town Administration	HMGP/Local	High	Moderate
4	Construction of an additional water well to ensure supply during a disaster. Currently, water supply is supplemented by Opp and Covington County systems, which are restricted during a disaster and early response/recovery, which limits Kinston's water supply.	All	Town Administration	USDA/CDBG	High	Moderate
5	Purchase an additional 45KW emergency generator to operate the town's proposed second water well during power outages.	All	Town Administration	HMGP/Local	High	Moderate

1,3	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, zoning regulations to minimize development in flood prone areas, participating in flood map updates, and providing flood risk information to the public. The local Flood Damage Prevention resolution was updated in 2009.	Flooding	NFIP Coordinator	HMGP/FMA/Local	High	High
5	Purchase one 45KW emergency generator to operate the town's water well during power outages.	All	Town Administration	HMGP/Local	High	Moderate
4	Conduct study to address the drainage problems of the downtown area. During storms with one to two inches of rainfall in a short time frame, Main Street becomes inundated with four to six inches of water which poses an extreme hazard to motorists. During heavy storms with long periods of heavy rain, the downtown drainage system (off Main Street and Gilmer Street) is unable to accommodate the volume of stormwater due to the inadequate size of the drainage system. This causes stormwater to back up. Water has backed up to the sidewalk on Main Street and has crossed over Gilmer Street and almost entered a house on the adjoining property. According to an engineering cost estimate, it will only cost approximately \$77,000 to remediate the downtown drainage problems, which will prevent the potential loss of hundreds of thousands of dollars in damages to Kinston's infrastructure and private property.	Flooding	Town Administration	HGMP/CDBG/Coffee County Road and Bridge	Medium	Moderate

### Town of New Brockton Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
1,3	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, zoning regulations to minimize development in flood prone areas, participating in flood map updates, and providing flood risk information to the public. The local Flood Damage Prevention resolution was updated in 2009.	Flooding	NFIP Coordinator	HMGP/FMA/Local	High	High
2,4	Upgrade wastewater treatment plant to reduce future storm damage	All	Water and Sewer Board	CDBG/ADEM/Local	High	Moderate
4	Pave Byrd Mill Road and upgrade storm water drainage structures	All (primarily Flooding)	Town Administration	CDBG/Coffee Co Road and Bridge/Local	High	Moderate
5	Purchase emergency generators to operate Town Hall, Senior Center, and sewer lift stations and water system infrastructure for operation during disaster events. Three	All	Town Administration / Water and Sewer Board	HMGP/Local	High	Moderate

	100 KW generators and three portable 60 KW generators are needed.					
4	Repair low points on Highway 84 East and Highway 84 West where water flows over the road during heavy rains	Flooding	Town Administration	HMGP/ALDOT/Local	High	Moderate
4	Repair low point on State Highway 122 where water stands from heavy rain events	Flooding	Town Administration	HMGP/ALDOT/Local	High	Moderate
2	Retrofit Town Hall (old National Guard Armory) to meet wind codes, purchase and install an emergency generator to allow the building to serve as an emergency shelter. Internal surface finishing work is needed, as well as plumbing and electrical overhaul, and roof repairs.	All (primarily High Winds)	Town Administration	HMGP/USDA/Local	High	Moderate
5,6	Provide additional communications and control capability for use during disasters	All	Town Administration / Coffee County EMA	DHS/Local	High	Moderate

### Town of New Brockton Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Improve drainage conditions on Tyler Street, Medley Road, Youngblood Road, Durham Street, South John Street, Willow Street, and Sparks Street	Flooding	Town Administration / Coffee Co Engineer	HMGP / Coffee Co Road and Bridge	High	Moderate
4	Pave and widen Medley Road, Knight Street, Willow Street, Pearl Street, and Corey Street to accommodate two-way traffic to facilitate rescue and evacuation	All	Town Administration / Coffee Co Engineer	HMGP / Coffee Co Road and Bridge	High	Moderate
4,5	Replace wooden bridges on Byrd Mill Road and Medley Road, bringing them up to standards. There is only one way into the communities on these roads and emergency vehicles cannot get through when the bridges are flooded.	All	Town Administration / Coffee Co Engineer	HMGP / Coffee Co Road and Bridge	High	Moderate
4	Widen and upgrade drainage ditch between Vester Cole Street and South John Street to	Flooding	Town Administration / Coffee Co Engineer	HMGP / Coffee Co Road and Bridge	High	Moderate



	prevent flooding of residences and Post Office					
4	Realign dangerous intersection at North John Street (Hwy 122) and Railroad Street	All	Town Administration / Coffee Co Engineer	HMGP / Coffee Co Road and Bridge	High	Moderate
4	Replace stormwater drainage structure at intersection of Caldwell Street and Youngblood Street	Flooding	Town Administration / Coffee Co Engineer	HMGP / Coffee Co Road and Bridge	Medium	Moderate

#### **5.5.4 Covington County Jurisdictions Mitigation Actions**

- 1. Covington County**
- 2. Covington County Schools**
- 3. City of Andalusia**
- 4. Andalusia City Schools**
- 5. Town of Babbie**
- 6. Town of Carolina**
- 7. City of Florala**
- 8. Town of Gantt**
- 9. Town of Heath**
- 10. Town of Horn Hill**
- 11. Town of Libertyville**
- 12. Town of Lockhart**
- 13. Town of Onycha**
- 14. City of Opp**
- 15. Opp City Schools**
- 16. Town of River Falls**
- 17. Town of Red Level**
- 18. Town of Sanford**

## Covington County Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Upgraded following bridges: Parrish Rd, Giles Rd, CR 45, Davis Rd, Clark Rd	Flooding	Cov County Road and Bridge	Federal/Local	Completed	N/A
4	Upgraded the following roads: Cotton House Rd, Sasser House Rd, Red Level School Parking Lot	All	Cov County Road and Bridge	Federal/Local	Completed	N/A
5	Develop a comprehensive outdoor warning siren network throughout County	All	Covington County EMA	HMGP/Local	High	Moderate
6	Provide public awareness for hazard events	All	Covington County EMA	State and Local Agencies	High	High
6	Provide printed information available to the public on natural hazards and safety	All	Covington County EMA	State and Local Agencies	High	High
4,5	Surveillance and maintenance of Gantt and Point "A" dams	Dam Failure	PowerSouth Energy Coop	PowerSouth Energy Coop	High	High
4	Replace older bridges to meet AASHTO standards throughout county	Flooding	Cov County Road and Bridge	ALDOT/Cov Co Road and Bridge	High	Low
4	Replace or upsize culverts as needed to prevent drainage impediments	Flooding	Cov County Road and Bridge	HMGP/Local	High	Moderate
4	Pave highly erodible and potentially flood prone roads that cross flood plains	Flooding	Cov County Road and Bridge	CDBG/Local	High	Moderate
4	Repair gulleys near right-of-way	Flooding	Cov County Road and Bridge	HMGP/Local	High	Moderate
4	Maintain county water system infrastructure	All	Cov County Water Authority	CDBG/ADEM/Local	High	Moderate
4	Correct any sinkholes that occur in the County	Land Subsidence	Cov County Road and Bridge	Funding TBD	High	Low
1	Assess vulnerability of critical facilities and infrastructure within the County	All	Covington County EMA	Funding TBD	High	High
2,4	Upgrade critical facilities	All	Agency overseeing facility	HMGP/Local	High	Low
1,6	Consult with the Covington County Forestry Office and Conecuh National Forest on wildfire prevention measures	Wildfire	Covington County EMA	Local Funds	High	High

### Covington County Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
2,5	Upgrade EMA office and Emergency Operations Center with FEMA-361 compliant safe room and generator	All	Covington County EMA	HMGP/Local	High	Low
2,5	Upgrade E-911 building through adding FEMA-361 compliant safe room and expansion	High Winds (primary)/All (secondary)	Covington County E-911	HMGP/Local	High	Low
5	Procurement of generator for E-911 building	All	Covington County E-911	HMGP/Local	High	Moderate
1	Maintain updated Emergency Operations Plan	All	Covington County EMA	AEMA/Local	High	Moderate
5	Procurement of generators for Covington County Volunteer Firefighters Association	All	Covington County EMA / Covington Co. Vol. Firefighters Assoc.	HMGP/Local	High	Moderate
4	Construction of FEMA-361 compliant safe room at Covington Electric Coop headquarters	High Winds (primary)/All (secondary)	Covington Electrical Coop	Covington Electrical Coop / Other TBD	High	Low
5	Procurement of generator for Covington Electric Coop headquarters	All	Covington Electric Coop	Covington Electrical Coop / Other TBD	High	Moderate
4	Hardening of distribution lines throughout the Covington Electric Coop system	High Winds (primary)/All (secondary)	Covington Electric Coop	Covington Electrical Coop / Other TBD	High	Low
1,3	Continue participation in the NFIP through maintaining and administering the county's floodplain development regulations, enforcing subdivision regulations that minimize flood risk to new developments, participating in flood map updates, and providing flood risk information to the public.	Flooding	Covington County EMA	HMGP/FMA/Local	High	High
1	Upgrade mapping system to determine base floodplain elevations to assist with NFIP requirements	Flooding	Covington County EMA	Local, other TBD	Medium	Moderate

Covington County Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
2	Acquire and relocate flood prone structures and repetitive loss properties	Flooding	Covington County EMA	HMGP/Local, other TBD	Low	Low
5	Purchase generators for well and tank sites	All	Covington County Water Authority	HMGP/Local	High	Moderate
4	Install community safe rooms where needed	High Winds	Covington County EMA	HMGP/Local	High	Low
4	Install individual safe rooms where needed	High Winds	Covington County EMA	HMGP/Private	High	Moderate



### Covington County Schools Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Provide safe rooms in school facilities for student and staff safety	High Winds	Covington County Schools	HMGP/Covington Co Schools	High	Moderate
5	Procure and maintain generators for critical facilities, especially W.S. Harlan Elementary	All	Covington County Schools	HMGP/Covington Co Schools	High	Moderate
2	Work with PowerSouth Electric Cooperative to reduce lightning damage at school facilities	Severe Storms (Lightning)	Covington Co Schools	PowerSouth EC / Covington Co Schools	High	High
4	All existing schools and any future new school construction should also include sufficient “shelter spaces/safe rooms” to provide adequate protection and safety for all students and staff. In all existing school facilities and any future new school construction, retrofit select windows and doors with lockable metal shutters and add hurricane clips to the rafters, where applicable, or perform other structural reinforcement for other types of roof structures, as needed, to provide sufficient “shelter spaces/safe rooms” for the safety of students and staff.	High Winds	Covington Co Schools / County Administration	HMGP/ Covington Co Schools	High	Moderate
5	Install backup generators to provide limited back-up electrical service for communication when needed for the safety of students and staff.	All	Covington Co Schools / County Administration	HMGP/ADECA	High	Moderate
4	All existing schools and any future new school construction should include sufficient “shelter spaces/safe rooms” to provide adequate protection and safety for all students and staff.	High Winds	Covington Co Schools	HMGP/ Covington Co Schools	High	Moderate
4	Provide isolation rooms in school facilities for pandemic children until they can be picked up.	High Winds	Covington Co Schools	HMGP/Local	High	Moderate

5	Procure and maintain generators for critical facilities	All	Covington Co Schools	HMGP/ Covington Co Schools	High	Moderate
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Covington County EMA	Local	Medium	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Covington County EMA, LEPC	Local	Medium	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Covington County EMA / Covington Co Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Covington County EMA	Local	Medium	High
6	Continue distribution of hazard-related coloring and activity books	All	Covington County EMA / Board of Education	Covington Co Schools / County EMA	High	High
6	Continue incorporation of hazard mitigation awareness in local schools	All	Covington Co Schools	Covington Co Schools / County EMA	High	High

### City of Andalusia Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
5	Implemented radio repeater system	All	Fire Department	Local	Completed	N/A
4	Drainage maintenance and cleaning program	Flooding	Public Works	Local	High	High
4	Street maintenance program	Flooding	Public Works	Local	High	Moderate
3	Open space and park maintenance	All	Leisure Services	LWCF/Local	High	Moderate
6	Efficient communication between local government and citizens for public awareness	All	Various Departments	Local	High	High
1,5	Utilization of the Comprehensive Assessment System	All	Various Departments	Local	High	High
5	Utilization of the Drug Task Force truck as Command Post	All	Police Dept	ALEA/Local/Other TBD	High	Moderate
5	Coordination of Anti-Terrorism Task Force and training	All	Police Dept	ALEA/Local/Other TBD	High	Moderate
2	Hazard retrofit city's critical facilities and infrastructure	All	Planning and Development	HMGP/CDBG/Local/Other TBD	High	Low
4	Upgrade sewer outfall throughout the system as needed	Flooding	Utilities Board	CDBG/ADEM/Local	High	Low
1	Implement Water and Wastewater Guideline Standards and Specifications	All	Utilities Board	Local	High	Low
4	Installation of community safe rooms and individual safe rooms in critical locations	High Winds	Covington County EMA	HMGP/Local/Private	High	Low
5	Install additional outdoor warning sirens	All	Covington County EMA / Planning and Development	HMGP/Local	High	Moderate
6	Promote "Building Safety Week"	High Winds	Planning and Development	Local	Medium	High
5	Develop emergency equipment storage at Coleman Center	All	Leisure Services	Local/Other TBD	Medium	Moderate
1	Maintain updated building codes	All	Planning and Development	Local	High	High
1	Continue to enforce zoning ordinance	All	Planning and Development	Local	High	High
5	Weekly tests for generators and continued upgrades	All	Planning and Development / Utilities Board	Local	High	High

### City of Andalusia Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
1	Improve GIS mapping capabilities, including floodplain information and utility systems	All	Planning and Development / Utilities Board	Local / Other TBD	High	High
1	Promote standards for existing homes to be retrofitted to exceed minimal codes	All	Planning and Development	Local	High	High
1	Participate in regular training opportunities for safety and hazard mitigation topics	All	Various Departments	Local / Other TBD	High	High
4	Maintain electrical distribution system	All	Utilities Board	Local / Other TBD	High	High
5	Maintain and upgrade vehicles and equipment	All	Various Departments	Local / Other TBD	High	High
5	Add emergency auxiliary electricity to staging areas	All	Leisure Services	Local	Medium	Moderate
1	Update current policies and procedures	All	City Administration	Local	High	High
5	Procure portable generator for major intersections: E. Three Notch and Bypass; River Falls St and Bypass; Stanley St and E Three Notch; S. Three Notch and Bypass	All	Utilities Board	HMGP / Local	Medium	Moderate
5	Installation of fiber optic cable to city facilities	All	Utilities Board	Funding TBD	Medium	Low
5	Secure preparation equipment	All	Leisure Services	Funding TBD	Medium	Moderate
4	Use manhole inserts in flood prone areas	Flooding	Public Works	Local	High	High
1	Support organizations, such as Alabama Rural Water Association, Conecuh-Sepulga Clean Water Partnership, and Alabama Water Pollution Control Assoc.	All	City Administration	Local	High	High
5	Attend Covington County EMA exercises	All	City Administration	Local	High	High
4	Implement additional needed drainage studies and projects	Flooding	Public Works	Local / Other TBD	Medium	Moderate
2,5	Relocate existing 3-phase overhead power to underground at critical care facilities:	All	Utilities Board	Funding TBD	Medium	Low

	Andalusia Regional Hospital and Andalusia Health Care					
<p style="text-align: center;"><b>City of Andalusia Mitigation Action Plan</b></p>						
<b>Goal</b>	<b>Action Description</b>	<b>Hazards Addressed</b>	<b>Lead Agency</b>	<b>Funding Source</b>	<b>Priority / Status</b>	<b>Benefit / Cost Score</b>
4	Implement storm drainage improvements on north side of Bypass between Coleman Drive and Berry Avenue, to a flood prone area, beginning south of East Pass Road and ending at Lark Street, from East Watson Street, behind First Baptist Church, to South Cotton and Knox streets, to an eroding drainage ditch between Hilda Street and Manhattan Drive	Flooding	Public Works	HMGP/CDBG/Local	Medium	Low
5	Procure portable generator for Industrial Park lift stations: Airport and Client Logic	All	Utilities Board	HMGP/Local	Medium	Moderate
5	Procure dedicated generators for lift stations: Lakeland Dr, Sanford Rd, CR 56, Meadowbrook Dr, Maple St, E. Pass Rd, Straughn School Rd, Moore Rd	All	Utilities Board	HMGP/Local	Medium	Low
2	Wind retrofit of Andalusia Head Start Building and Bright Beginnings Preschool Building for use as an emergency shelter	High Winds	City Administration	Funding TBD	Medium	Low
5	Procure dedicated generators for the following water well sites: Well #4-Debro Hill, Well #5-Debro Hill, Well #7-Waites Dr, Well #9-Piney Woods Rd, Well#10-CR 43, Well #11-Rose Hill, with Well #7 and Well #9 being primary locations	All	Utilities Board	HMGP/Local	Medium	Low



### City of Andalusia Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Implement storm drainage improvements on north side of Bypass between Coleman Drive and Berry Avenue, to a flood prone area, beginning south of East Pass Road and ending at Lark Street, from East Watson Street, behind First Baptist Church, to South Cotton and Knox streets, to an eroding drainage ditch between Hilda Street and Manhattan Drive	Flooding	Public Works	HMGP/CDBG/Local	Medium	Low
5	Procure portable generator for Industrial Park lift stations: Airport and Client Logic	All	Utilities Board	HMGP/Local	Medium	Moderate
5	Procure dedicated generators for lift stations: Lakeland Dr, Sanford Rd, CR 56, Meadowbrook Dr, Maple St, E. Pass Rd, Straughn School Rd, Moore Rd	All	Utilities Board	HMGP/Local	Medium	Low
2	Wind retrofit of Andalusia Head Start Building and Bright Beginnings Preschool Building for use as an emergency shelter	High Winds	City Administration	Funding TBD	Medium	Low
5	Procure dedicated generators for the following water well sites: Well #4-Debro Hill, Well #5-Debro Hill, Well #7-Waites Dr, Well #9-Piney Woods Rd, Well#10-CR 43, Well #11-Rose Hill, with Well #7 and Well #9 being primary locations	All	Utilities Board	HMGP/Local	Medium	Low

### Andalusia City Schools Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Provide safe rooms in school facilities for student and staff safety	High Winds	Andalusia City Schools	HMGP/Andalusia City Schools	High	Moderate
5	Procure and maintain generators for critical facilities	All	Andalusia City Schools	HMGP/Andalusia City Schools	High	Moderate
1,5	Installation of cameras in schools for security and safety purposes	All	Andalusia City Schools	AEMA/FEMA (HMGP, PDM), ADECA, other TBD	High	Moderate
4	Provide drainage improvements at school facilities	Flooding	Andalusia City Schools / Public Works	AEMA/FEMA (HMGP, PDM), ADECA, other TBD	High	Moderate
2	Work with PowerSouth Electric Cooperative to reduce lightning damage at school facilities	Severe Storms (Lightning)	Andalusia City Schools	PowerSouth EC / Andalusia City Schools	High	High
4	All existing schools and any future new school construction should also include sufficient “shelter spaces/safe rooms” to provide adequate protection and safety for all students and staff. In all existing school facilities and any future new school construction, retrofit select windows and doors with lockable metal shutters and add hurricane clips to the rafters, where applicable, or perform other structural reinforcement for other types of roof structures, as needed, to provide sufficient “shelter spaces/safe rooms” for the safety of students and staff.	High Winds	Andalusia Schools / City Administration	HMGP/Andalusia Schools	High	Moderate
5	Install backup generators to provide limited back-up electrical service for communication when needed for the safety of students and staff.	All	Andalusia Schools / City Administration	HMGP/ADECA	High	Moderate
4	All existing schools and any future new school construction should include sufficient “shelter spaces/safe rooms” to	High Winds	Andalusia City Schools	HMGP/Andalusia City Schools	High	Moderate

	provide adequate protection and safety for all students and staff.					
4	Provide isolation rooms in school facilities for pandemic children until they can be picked up.	High Winds	Andalusia City Schools	HMGP/Local	High	Moderate
5	Procure and maintain generators for critical facilities	All	Andalusia City Schools	HMGP/Andalusia City Schools	High	Moderate
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Covington County EMA	Local	Medium	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Covington County EMA, LEPC	Local	Medium	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Covington County EMA / Andalusia City Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Covington County EMA	Local	Medium	High
6	Continue distribution of hazard-related coloring and activity books	All	Covington County EMA / Board of Education	Andalusia City Schools / County EMA	High	High
6	Continue incorporation of hazard mitigation awareness in local schools	All	Andalusia City Board of Education	Andalusia City Schools / County EMA	High	High

### Town of Babbie Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
5	Install generator at Babbie Fire Department	All	Babbie VFD	HMGP/Local	High	Moderate
4	Installation of community safe rooms and individual safe rooms in critical locations	High Winds	Covington County EMA	HMGP/Local/Private	High	Low
4	Improve drainage problems	Flooding	Town of Babbie / Covington Co Road and Bridge	HMGP/Cov Co Road and Bridge / Local	High	Moderate
4	Improve unpaved streets that are washing out during rainfall events	Flooding	Town of Babbie / Covington Co Road and Bridge	CDBG / Cov Co Road and Bridge / Local	Medium	Low
2	Upgrade critical facilities	All	Town of Babbie / Babbie VFD	HMGP/CDBG/Local	Medium	Moderate
4	Maintenance and repair of water infrastructure	All	Cov Co Water Authority	Funding TBD	Medium	Moderate
5	Install additional outdoor warning sirens	All	Covington County EMA	HMGP/Local	Low	Moderate

Town of Carolina Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
5	Installation of water tank for consistent supply	All	Cov. Co Water Authority	USDA/Local	Completed	N/A
4	Installation of community safe rooms and individual safe rooms in critical locations	High Winds	Covington County EMA	HMGP/Local/Private	High	Low
4	Monitor potential drainage problem along Firehouse Road	Flooding	Town of Carolina / Cov Co Road and Bridge	Cov Co Road and Bridge/Local	High	Moderate
1	Consult with Covington County Forester for wildfire mitigation	Wildfire	Town of Carolina	Local	High	High
1,3	Adopt floodplain management regulations to meet NFIP requirements for reducing flood hazards	Flooding	Town of Carolina / Covington County EMA	Local	High	High
5	Install generator at Carolina Fire Department	All	Carolina VFD	HMGP/Local	Medium	Moderate
4	Improve unpaved streets that are washing out during rainfall events	Flooding	Town of Carolina / Cov Co Road and Bridge	CDBG/Cov Co Road and Bridge/Local	Medium	Low
4	Maintenance and repair of water infrastructure	All	Cov Co Water Authority	Funding TBD	Medium	Moderate
5	Install additional outdoor warning siren	All	Covington County EMA	HMGP/Local	Low	Moderate
2	Upgrade Carolina fire station	High Winds	Carolina VFD	Funding TBD	Low	Moderate
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High



City of Florala Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
5	Installation of two generators: Central lift station and grit chamber	All	Florala Utilities	CDBG/Local	Completed	N/A
2	Elevated new Central Y lift station	All	Florala Utilities	CDBG/Local	Completed	N/A
4	Completed storm drainage improvements at the 6 <sup>th</sup> Ave / 5 <sup>th</sup> Ave intersection	Flooding	Street Dept	Local	Completed	N/A
4	Evaluation of sewage collection system	All	Florala Utilities	Local	High	High
4	Improve dirt roads, ditches, and inspect flumes	All	Street Dept	Local/Other TBD	High	High
1,3	Continue participation in the NFIP through maintaining and administering floodplain development regulations, enforcing subdivision regulations that minimize flood risk to new developments, participating in flood map updates, and providing flood risk information to the public.	Flooding	City Administration	HMGP/FMA/Local	High	High
4	Installation of community safe rooms and individual safe rooms in critical locations	High Winds	Covington County EMA	HMGP/Local/Private	High	Low
5	Install generators for seven sewer lift stations and two water wells	All	Florala Utilities	HMGP/Local	High	Moderate
2	Elevate three lift stations: Lake Jackson, 2 <sup>nd</sup> Avenue, Gilmer Avenue	Flooding	Florala Utilities	HMGP/Local	High	Moderate
4	Storm drainage improvements at the 6 <sup>th</sup> Ave / 7 <sup>th</sup> St intersection	Flooding	Street Dept	HMGP/Local	High	Moderate
4	Storm drainage improvements at the 5 <sup>th</sup> Ave / 4 <sup>th</sup> St intersection	Flooding	Street Dept	HMGP/Local	High	Moderate
4	Storm drainage improvements at the 7 <sup>th</sup> St / 4 <sup>th</sup> St intersection	Flooding	Street Dept	HMGP/Local	High	Moderate
4	Storm drainage improvements at the 6 <sup>th</sup> Ave / 5 <sup>th</sup> Ave intersection	Flooding	Street Dept	HMGP/Local	High	Moderate
4	Storm drainage improvements on 5 <sup>th</sup> Ave, including reconstructing drainage ditch from 8 <sup>th</sup> St to 10 <sup>th</sup> St	Flooding	Street Dept	HMGP/Local	High	Moderate

City of Florala Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Improve storm drainage facilities and repair underground erosion	Flooding	Street Dept	Funding TBD	Medium	Moderate
2	Renovate/upgrade existing emergency shelter	High Winds / Flooding	City Administration	Funding TBD	Medium	Moderate
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Covington County EMA / City of Florala	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Covington County EMA	Local	Medium	High

Town of Gantt Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Upgraded water system in Rawls Subdivision	All	Town Administration	Federal/Local	Completed	N/A
4	Work with PowerSouth Energy Coop regarding Gantt Dam safety measures	Dam Failure	Town Administration	PowerSouth EC/Local	High	High
4	Installation of community safe rooms and individual safe rooms in critical locations	High Winds	Covington County EMA	HMGP/Local/Private	High	Low
4	Replace of upsize culverts as needed	Flooding	Town of Gantt / Cov Co Road and Bridge	HMGP/Local	High	Moderate
4	Repair gulleys along rights-of-way	Flooding	Town of Gantt / Cov Co Road and Bridge	HMGP/Local	High	Moderate
4	Improve drainage problems between Hwy 29 and Commerce St	Flooding	Town of Gantt / Cov Co Road and Bridge	HMGP/Local	High	Moderate
4	Improve drainage problems behind Town Hall	Flooding	Town of Gantt / Cov Co Road and Bridge	HMGP/Local	High	Moderate
5	Generator for Town Hall/Police Station	All	Town Administration / Police Dept	HMGP/Local	High	Moderate
1,3	Continue participation in the NFIP through maintaining and administering floodplain development regulations, enforcing subdivision regulations that minimize flood risk to new developments, participating in flood map updates, and providing flood risk information to the public.	Flooding	Town Administration	HMGP/FMA/Local	High	High
4	Maintenance of ditches	Flooding	Town of Gantt / Cov Co Road and Bridge	Local	High	High
4	Installation of radio read water meters	All	Town of Gantt	SRF/Local	High	High
2	Wind retrofit at Town Hall for first responders	All	Town of Gantt	HMGP/Local	High	Moderate

Town of Heath Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Upgraded substantial portion of water system through increasing water main diameter and adding fire hydrants	All	Town Administration	CDBG/Local	Completed	N/A
4	Replace undersized or deteriorated culverts	Flooding	Town Administration / Cov Co Road and Bridge	Cov Co Road and Bridge / Local	High	High
4	Installation of community safe rooms and individual safe rooms in critical locations	High Winds	Covington County EMA	HMGP/Local/Private	High	Low
4	Improve drainage problem at intersection of Straughn School Rd / CR 70	Flooding	Town Administration / Cov Co Road and Bridge	Funding TBD	Medium	Moderate
5	Generator for Town Hall / Fire Station	All	Town Administration / Heath Vol Fire Dept	HMGP/Local	Medium	Moderate
4	Add fire hydrants and increase water main diameter	All	Town Administration	CDBG/Local	In Progress	Moderate
5	Radio base station for Fire Dept	All	Heath Vol Fire Dept	Funding TBD	Medium	Moderate

<b>Town of Horn Hill Mitigation Action Plan</b>						
<b>Goal</b>	<b>Action Description</b>	<b>Hazards Addressed</b>	<b>Lead Agency</b>	<b>Funding Source</b>	<b>Priority / Status</b>	<b>Benefit / Cost Score</b>
4	Monitor bridges over Indian Creek	Flooding	Town Administration / Cov Co Road and Bridge	Cov Co Road and Bridge / Local	High	High
4	Monitor ditch culverts	Flooding	Town Administration / Cov Co Road and Bridge	Cov Co Road and Bridge / Local	High	High
4	Installation of community safe rooms and individual safe rooms in critical locations	High Winds	Covington County EMA	HMGP/Local/Private	High	Low
5	Generator for Community Center	All	Town Administration	HMGP/Local	High	Moderate
4	Deep well pump at Community Center	All	Town Administration	Funding TBD	Medium	Low
1,3	Adopt floodplain management regulations to meet NFIP requirements for reducing flood hazards	Flooding	Town Administration	Local	Medium	High



### Town of Libertyville Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Installation of community safe rooms and individual safe rooms in critical locations	High Winds	Covington County EMA	HMGP/Local/Private	High	Low
1,3	Adopt floodplain management regulations to meet NFIP requirements for reducing flood hazards	Flooding	Town Administration	Local	Medium	High
5	Generator for Town Hall / Fire Dept	All	Town Administration / Libertyville VFD	HMGP/Local	Medium	Moderate
4	Improve drainage ditch along Hwy 55	Flooding	Covington Co Road and Bridge	Funding TBD	Medium	Moderate
4	Construction of an elevated water storage tank	All	Covington County Water Authority	USDA/Local	Medium	Moderate

### Town of Lockhart Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Improvements to sewer system	All	Town Administration	CDBG/Local	Completed	N/A
4	Installation of community safe rooms and individual safe rooms in critical locations	High Winds	Covington County EMA	HMGP/Local/Private	High	Low
5	Procure generator for main water well	All	Town Administration	HMGP/Local	High	Moderate
5	Procure generator for wastewater treatment plant	All	Town Administration / Floralia Utilities	HMGP/Local	High	Moderate
4	Drainage improvements on Chickasaw Ave	Flooding	Town Administration	HMGP/CDBG/Local	High	Moderate
4	Drainage improvements along portions of Cherokee St and Choctaw St	Flooding	Town Administration	HMGP/CDBG/Local	High	Moderate
4	Repair drainage ditch on Chippeway St near old railroad track	Flooding	Town Administration	HMGP/CDBG/Local	High	Moderate
4	Repair eroded ditches along Mohawk St from north side of Rappahannock Ave	Flooding	Town Administration	HMGP/CDBG/Local	High	Moderate
4	Repair eroded ditches and damaged pavement along Rappahannock Ave and Osage Ave	Flooding	Town Administration	HMGP/CDBG/Local	High	Moderate
4	Repair sewer outfall line along Osage St	All	Town Administration	CDBG/Local	High	Moderate
4	Develop new water supply well	All	Town Administration	CDBG/Local	High	Moderate
4	Repair eroded access road to wastewater treatment plant	All	Town Administration	Funding TBD	Medium	Moderate
1,3	Adopt floodplain management regulations to meet NFIP requirements for reducing flood hazards	Flooding	Town Administration	Local	Medium	High

### Town of Onycha Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Keep drainage ditches clear of impediments	Flooding	Town Administration / Cov Co Road and Bridge	Cov Co Road and Bridge / Local	High	High
4	Replace deteriorated culverts	Flooding	Town Administration / Cov Co Road and Bridge	Cov Co Road and Bridge / Local	High	High
4	Installation of community safe rooms and individual safe rooms in critical locations	High Winds	Covington County EMA	HMGP/Local/Private	High	Low
5	New pumper truck	All	Onycha VFD	Funding TBD	High	Moderate
5	Procure generator to the Onycha well/tank	All	Covington County Water Authority	HMGP/Local	High	Moderate
1,3	Adopt floodplain management regulations to meet NFIP requirements for reducing flood hazards	Flooding	Town Administration	Local	Medium	High
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Covington County EMA / Town of Onycha	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Covington County EMA	Local	Medium	High
1	Consult with Covington County Forester for wildfire mitigation	Wildfire	Town of Onycha	Local	High	High

City of Opp Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Replaced sewer main east of Woodham Cir	All	Opp Utilities	Federal/Local	Completed	N/A
4	Replaced sewer mains located in and adjacent to a tributary of Cameron Creek, beginning at west of Mullins Ave and ending at Barnes St	All	Opp Utilities	Federal/Local	Completed	N/A
4	Replaced section of sewer main that crosses under Hwy 331 near Cooperative Propane	All	Opp Utilities	Federal/Local	Completed	N/A
5	Procured generators for three (3) sewer lift stations	All	Opp Utilities	Federal/Local	Completed	N/A
5	Procured four (4) portable generators to be used at several sewer lift stations	All	Opp Utilities	Federal/Local	Completed	N/A
1,3	Continue participation in the NFIP through maintaining and administering floodplain development regulations, enforcing subdivision regulations that minimize flood risk to new developments, participating in flood map updates, and providing flood risk information to the public.	Flooding	City Administration	HMGP/FMA/Local	High	High
4	Installation of community safe rooms and individual safe rooms in critical locations	High Winds	Covington County EMA	HMGP/Local/Private	High	Low
1,3	Implementation of Zoning Ordinance	Flooding	City Planner	Local	High	High
4	Drainage management	Flooding	City Planner	Local	High	High
4	Tree management to prevent power line damage	High Winds	City Planner	Local	High	High
4	Continue sewer work in the vicinity of Indian Creek	All	Opp Utilities	CDBG/Local	High	Moderate
2	Emergency services shelter areas	All	City Planner	Funding TBD	Medium	Low
4,6	Promote safe room implementation	High Winds	City Planner	Local	Medium	High
4	Procure generators for traffic lights on bypass and for the fuel pumps at city hall.	All	City Planner	HMGP/Local	High	High

City of Opp Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Repair/replace existing sanitary sewer mains at tributary of Cameron Creek, beginning at 6 <sup>th</sup> Ave and ending north of Opine Rd	All	Opp Utilities	Funding TBD	Medium	Low
5	Provide dedicated generators to the following pump stations: Capitol Heights, City Yard, and Pittman Lift Station	All	Opp Utilities	HMGP/Local	Medium	Moderate



Opp City Schools Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Provide safe rooms in school facilities for student and staff safety	High Winds	Opp City Schools	HMGP/Opp City Schools	High	Moderate
5	Procure and maintain generators for critical facilities	All	Opp City Schools	HMGP/Opp City Schools	High	Moderate

### Town of Red Level Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
5	Procured generator for water well	All	Town Administration	Federal/Local	Completed	N/A
4	Storm drainage improvements along North Street	Flooding	Town Administration	Federal/Local	Completed	N/A
	Procure and install generator for water well on Greer Street.	All	Town Administration	Federal/Local	High	High
1,3	Continue participation in the NFIP through maintaining and administering floodplain development regulations, enforcing subdivision regulations that minimize flood risk to new developments, participating in flood map updates, and providing flood risk information to the public.	Flooding	Town Administration	HMGP/FMA/Local	High	High
4	Removal of trees affecting utility service	High Winds	Town Administration	Local	High	High
4	Installation of community safe rooms and individual safe rooms in critical locations	High Winds	Covington County EMA	HMGP/Local/Private	High	Low
2	Work to retrofit critical facilities as funds are available	All	Town Administration	HMGP/Local/Other TBD	High	Low
5	Procure dedicated generator for Town Hall	All	Town Administration	HMGP/Local	High	Moderate
4	Riprap drainage ditch that runs east from North St	Flooding	Town Administration	HMGP/Local	High	Low
4	Drainage improvements along CR 107 near North St	Flooding	Town Administration	HMGP/Local	High	Low
4	Replace undersized storm drainage culverts	Flooding	Town Administration / Covington Co Road and Bridge	Cov Co Road and Bridge/Local/Other TBD	High	Moderate

5	Procure dedicated generator for Town Hall Annex (old Tri-County Clinic)	All	Town Administration	HMGP/Local	Medium	Moderate
5	Install additional outdoor warning siren	All	Town Administration	HMGP/Local	Medium	Moderate
2	Retrofit Town Hall	All	Town Administration	Funding TBD	Medium	Low

Town of River Falls Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Installation of community safe rooms and individual safe rooms in critical locations	High Winds	Covington County EMA	HMGP/Local/Private	High	Low
1	Enforcement of zoning ordinance	All	Town Administration	Local	High	High
1,3	Continue participation in the NFIP through maintaining and administering floodplain development regulations, enforcing subdivision regulations that minimize flood risk to new developments, participating in flood map updates, and providing flood risk information to the public.	Flooding	Town Administration	HMGP/FMA/Local	High	High
2,6	Educate residents of floodplain requirements and flood-proofing information	Flooding	Town Administration	Local	High	High
4	Regular maintenance of water system	All	Town Administration	Local / Other TBD	High	High
4	Maintain bridges and culverts	All	Town Administration / Cov Co Road and Bridge	Cov Co Road and Bridge / Local	High	High
4	Regular maintenance of streets	All	Town Administration / Cov Co Road and Bridge	Cov Co Road and Bridge / Local	High	High
2	Work to retrofit critical facilities as funds are available	All	Town Administration	HMGP/Local	High	Low
5	Supply critical facilities with emergency provisions for displaced persons during disaster	All	Town Administration	Local / Other TBD	High	High

5	Procure two portable generators to provide source of power for critical facilities	All	Town Administration	HMGP/Local	High	Moderate
4	Work with PowerSouth Electric Coop on dam mitigation measures	Dam Failure	Town Administration	PowerSouth EC/Local	High	High
1	Implement GIS mapping system for utility and floodplain development purposes	All	Town Administration	Local/Other TBD	Medium	Moderate
1	Adopt building codes to regulate integrity of buildings	All	Town Administration	Local	Medium	High
1	Promote standards for existing homes to be retrofitted so they exceed minimal codes	All	Town Administration	Local	Medium	High

Town of River Falls Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Pave highly erodible and potentially flood prone streets that cross flood plains	Flooding	Town Administration / Cov Co Road and Bride	Funding TBD	Medium	Moderate
1	Repair gulleys near right-of-way	Flooding	Town Administration / Cov Co Road and Bridge	Funding TBD	Medium	Moderate

### Town of Sanford Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Installation of community safe rooms and individual safe rooms in critical locations	High Winds	Covington County EMA	HMGP/Local/Private	High	Low
4	Improve unpaved roads	All	Town Administration / Cov Co Road and Bridge	CDBG/Cov Co Road and Bridge / Local	High	Moderate
4	Maintain drainage facilities	Flooding	Town Administration / Cov Co Road and Bridge	Cov Co Road and Bridge / Local	High	High
4	Repair gulleys near right-of-way	Flooding	Town Administration / Cov Co Road and Bridge	Funding TBD	High	Moderate
5	Procure generators for critical facilities	All	Town Administration / Sanford VFD	HMGP/Local	High	Moderate
4	Maintain water system	All	Cov Co Water Authority	Local	High	High
1,3	Adopt floodplain management regulations to meet NFIP requirements for reducing flood hazards	Flooding	Town Administration	Local	Medium	High
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High

6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Covington County EMA / Town of Onycha	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Covington County EMA	Local	Medium	High
1	Consult with Covington County Forester for wildfire mitigation	Wildfire	Town of Sanford	Local	High	High



### **5.5.5 Crenshaw County Jurisdictions Mitigation Action**

- 1. Crenshaw County**
- 2. Town of Brantley**
- 3. Town of Dozier**
- 4. Town of Glenwood**
- 5. City of Luverne**
- 6. Town of Petrey**
- 7. Town of Rutledge**
- 8. Crenshaw County Schools**

### Crenshaw County Mitigation Action Plan

Goal	Deleted Action Description	Hazards Addressed	Reason for Deletion of Action			
1	Encourage the utilization of a generator with a protective cover meeting FEMA 361 Guidelines with all community shelters.	All	This action item is complete in Crenshaw County.			
5	Upgrade the county's siren system.	All	Crenshaw County has transitioned to an automated phone call warning system and is no longer installing new warning sirens or making any further upgrades to the system.			
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Continue training of local flood plain managers through programs offered through the State Flood Plain Manager.	Flooding	Crenshaw County Engineer	Local	High	High
1	Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Flooding	Crenshaw County Engineer	Local	High	High
1	Seek a countywide update of all FIRMs in digital format, with an emphasis on detailed studies of developed and developing areas with elevations provided and floodways delineated.	Flooding	Crenshaw County Engineer, Building Officials, Crenshaw County EMA	FEMA Map Update Program	Medium	Moderate
1	Seek special flood studies to obtain base flood elevations in areas not currently mapped, or where flooding conditions have been changed or modified.	Flooding	Crenshaw County Engineer, Building Officials, Crenshaw County EMA	FEMA Map Update Program	Medium	Moderate
1	Distribute FEMA Publication 320 - <u>Taking Shelter From the Storm: Building a Safe Room in Your House</u> – to local homebuilders.	High Winds, Severe Storms, Tornadoes, Hurricanes	Crenshaw County EMA, Building Officials	Private	High	High
1	Encourage the construction of safe rooms in new and existing construction.	High Winds, Severe Storms, Tornadoes, Hurricanes	Crenshaw County EMA, Building Officials	Private	High	High
1	Encourage the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	High Winds, Severe Storms, Tornadoes, Hurricanes	Governing Body	HMGP, PDM, USDA	Low	Low
1	Retrofit public schools with community shelters.	High Winds, Severe Storms, Tornadoes, Hurricanes	Crenshaw County Schools	HMGP, PDM, USDA	Low	Low
1	Limit economic development activity in areas with a risk for landslides and land subsidence.	Landslides, Subsidence	Local Planning and Building Officials	Local	High	High

1	Further investigate areas of topographical depressions to evaluate local risk for land subsidence or sinkholes.	Subsidence	Crenshaw County EMA, Crenshaw County Engineer	Local	Medium	High
1	Support Crenshaw County EMA efforts to investigate areas of topographical depressions to evaluate local risk for land subsidence or sinkholes.	Subsidence	Crenshaw County EMA, Crenshaw County Engineer	Local	Medium	High
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
2	Promote the purchase of flood insurance coverage by property owners and renters in high-risk flooding areas.	Flooding	Crenshaw County EMA, Crenshaw County Engineer	Local	High	High
2	Seek funding sources, such as Community Development Block Grant funds and ADECA Weatherization, to assist low income homeowners with building retrofits to protect against flood damage and creating a weather seal.	Flooding, Extreme Heat, Winter Storms	Local Governments	ADECA CDBG, Weatherization	Medium	Moderate
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Crenshaw County EMA / SCADC	Local	Medium	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Crenshaw County EMA, LEPC	Local	Medium	High
3	Seek technical assistance through the Alabama Cooperative Extension System and/or the Alabama Forestry Commission with Best Management Practices (BMPs) for channel and drainage system maintenance.	Flooding	Crenshaw County Engineer, Building Officials, Crenshaw County EMA	Local	Medium	Low
3	Assess vegetation in wildfire-prone areas to prevent landslides after fires.	Landslides	Crenshaw County EMA, Alabama Forestry Commission	Local	Medium	High
4	Initiate local inventory of existing publicly- and privately-owned dams and record individual dam characteristics.	Dam Failure	Crenshaw County EMA, Crenshaw County Engineer, Local Building Officials	Local	Medium	High
4	Support Alabama Office of Water Resources efforts to record existing dams and their characteristics on a statewide basis.	Dam Failure	Crenshaw County EMA, Crenshaw County Engineer, Local Building Officials	Local	Medium	High
4	Prepare and implement standard operating procedures for drainage system maintenance.	Flooding	Crenshaw County Engineer, Local Governments	Local	High	High
5	Maintain existing warning sirens until they are no longer serviceable or needed for emergency notification.	All	Crenshaw County EMA, Local Governments	Local	Medium	High
5	Promote the addition of a generator to all critical facilities.	All	Crenshaw County EMA, Local Governments	HMGP/PDM	High	Moderate

5	Promote the use of weather radios in households and businesses.	All	Crenshaw County EMA	TBD	High	Moderate
5	Seek funding for generators to all critical facilities.	All	Crenshaw County EMA, Local Governments	HMGP/PDM	High	Moderate
5	Support the Alabama Skywarn Foundation's efforts to distribute weather radios to low-income households, especially in rural areas outside of siren coverage areas.	All	Crenshaw County EMA	HMGP/PDM	High	Moderate
5	Maintain existing emergency generators to provide back-up power to critical facilities	All	Crenshaw County EMA, Local Officials	HMGP/Local	High	Moderate
5	Plan for and maintain adequate road and debris clearing capabilities.	High Winds, Winter / Ice Storms	Crenshaw County EMA, Crenshaw County Engineer, Luverne Public Works	Local	High	High
6	Actively participate in natural hazard reporting and record keeping on local level to ensure that Crenshaw County and its municipalities have an accurate record of past hazard events, including severity	All	Crenshaw County EMA, Municipal Administrative Staff	Local	Medium	High
6	Investigate natural hazard reporting methodology on national level to ensure that Crenshaw County has an accurate record of past hazard events, including severity	All	Crenshaw County EMA	Local	Medium	High
6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Crenshaw County EMA, Local Governments	Local	High	High
6	Continue utilization of website and social media with timely information for citizens	All	Crenshaw County EMA	Local	High	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Crenshaw County EMA / Crenshaw County Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Crenshaw County EMA	Local	Medium	High
6	Include earthquake potential in GIS hazard mapping for residents and design professionals.	Earthquake	Crenshaw County EMA / SCADC	Local	Medium	High
6	Educate citizens that all fuel-burning equipment should be vented to the outside.	Winter / Ice Storms	Crenshaw County EMA	Local	High	High
6	Encourage homeowners to install carbon monoxide monitors and alarms.	Winter / Ice Storms	Crenshaw County EMA, Local Building Officials	Local	High	High
2, 6	Distribute hazard mitigation brochures to area schools for distribution to students.	All	Crenshaw County EMA	Local	High	High
2, 6	Obtain free publications from FEMA, NWS, USGS, and other federal and state agencies and deposit these materials with local libraries.	All	Crenshaw County EMA	Local	High	High
2, 6	Promote mitigation and severe weather awareness, through an annual severe weather awareness event.	All	Crenshaw County EMA, LEPC	Local	High	High

2, 6	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	Flooding	Crenshaw County EMA, Crenshaw County Engineer	Local	Low	High
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Town of Brantley Mitigation Action Plan						
Goal	Deleted Action Description	Hazards Addressed	Reason for Deletion of Action			
1	Encourage the utilization of a generator with a protective cover meeting FEMA 361 Guidelines with all community shelters.	All	This action item is complete in Crenshaw County and in the Town of Brantley.			
5	Upgrade the county's siren system.	All	Crenshaw County has transitioned to an automated phone call warning system and is no longer installing new warning sirens or making any further upgrades to the system.			
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Continue training of local flood plain managers through programs offered through the State Flood Plain Manager.	Flooding	Crenshaw County Engineer	Local	High	High
1	Seek a countywide update of all FIRMs in digital format, with an emphasis on detailed studies of developed and developing areas with elevations provided and floodways delineated.	Flooding	Crenshaw County Engineer, Building Officials, Crenshaw County EMA	FEMA Map Update Program	Medium	Moderate
1	Distribute FEMA Publication 320 - <u>Taking Shelter From the Storm: Building a Safe Room in Your House</u> – to local homebuilders.	High Winds, Severe Storms, Tornadoes, Hurricanes	Crenshaw County EMA, Building Officials	Private	High	High
1	Encourage the construction of safe rooms in new and existing construction.	High Winds, Severe Storms, Tornadoes, Hurricanes	Crenshaw County EMA, Building Officials	Private	High	High
1	Encourage the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	High Winds, Severe Storms, Tornadoes, Hurricanes	Governing Body	HMGP, PDM, USDA	Low	Low
1	Retrofit public schools with community shelters.	High Winds, Severe Storms, Tornadoes, Hurricanes	Crenshaw County Schools	HMGP, PDM, USDA	Low	Low
1	Limit economic development activity in areas with a risk for landslides and land subsidence.	Landslides, Subsidence	Local Planning and Building Officials	Local	High	High

1	Support Crenshaw County EMA efforts to investigate areas of topographical depressions to evaluate local risk for land subsidence or sinkholes.	Subsidence	Crenshaw County EMA, Crenshaw County Engineer	Local	Medium	High
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	For the Towns of Petrey and Brantley which have had special flood hazard areas identified but are not members of the NFIP, enact flood hazard prevention ordinances and establish them as regular members of the NFIP. Participation in the NFIP by the Town of Rutledge is encouraged.	Flooding	Local Governments	Local	High	High
2	Promote the purchase of flood insurance coverage by property owners and renters in high-risk flooding areas.	Flooding	Crenshaw County EMA, Crenshaw County Engineer	Local	High	High
2	Seek funding sources, such as Community Development Block Grant funds and ADECA Weatherization, to assist low income homeowners with building retrofits to protect against flood damage and creating a weather seal.	Flooding, Extreme Heat, Winter Storms	Local Governments	ADECA CDBG, Weatherization	Medium	Moderate
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Crenshaw County EMA / SCADC	Local	Medium	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Crenshaw County EMA, LEPC	Local	Medium	High
3	Assess vegetation in wildfire-prone areas to prevent landslides after fires.	Landslides	Crenshaw County EMA, Alabama Forestry Commission	Local	Medium	High
4	Initiate local inventory of existing publicly- and privately-owned dams and record individual dam characteristics.	Dam Failure	Crenshaw County EMA, Crenshaw County Engineer, Local Building Officials	Local	Medium	High
4	Support Alabama Office of Water Resources efforts to record existing dams and their characteristics on a statewide basis.	Dam Failure	Crenshaw County EMA, Crenshaw County Engineer, Local Building Officials	Local	Medium	High
4	Prepare and implement standard operating procedures for drainage system maintenance.	Flooding	Crenshaw County Engineer, Local Governments	Local	High	High
5	Maintain existing warning sirens until they are no longer serviceable or needed for emergency notification.	All	Crenshaw County EMA, Local Governments	Local	Medium	High
5	Promote the addition of a generator to all critical facilities.	All	Crenshaw County EMA, Local Governments	HMGP/PDM	High	Moderate
5	Seek funding for generators to all critical facilities.	All	Crenshaw County EMA, Local Governments	HMGP/PDM	High	Moderate



5	Support the Alabama Skywarn Foundation's efforts to distribute weather radios to low-income households, especially in rural areas outside of siren coverage areas.	All	Crenshaw County EMA	HMGP/PDM	High	Moderate
5	Maintain existing emergency generators to provide back-up power to critical facilities	All	Crenshaw County EMA, Local Officials	HMGP/Local	High	Moderate
5	Plan for and maintain adequate road and debris clearing capabilities.	High Winds, Winter / Ice Storms	Crenshaw County EMA, Crenshaw County Engineer, Luverne Public Works	Local	High	High
6	Actively participate in natural hazard reporting and record keeping on local level to ensure that Crenshaw County and its municipalities have an accurate record of past hazard events, including severity	All	Crenshaw County EMA, Municipal Administrative Staff	Local	Medium	High
6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Crenshaw County EMA, Local Governments	Local	High	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Crenshaw County EMA / Crenshaw County Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Crenshaw County EMA	Local	Medium	High
6	Educate citizens that all fuel-burning equipment should be vented to the outside.	Winter / Ice Storms	Crenshaw County EMA	Local	High	High
6	Encourage homeowners to install carbon monoxide monitors and alarms.	Winter / Ice Storms	Crenshaw County EMA, Local Building Officials	Local	High	High
2, 6	Distribute hazard mitigation brochures to area schools for distribution to students.	All	Crenshaw County EMA	Local	High	High
2, 6	Obtain free publications from FEMA, NWS, USGS, and other federal and state agencies and deposit these materials with local libraries.	All	Crenshaw County EMA	Local	High	High
2, 6	Promote mitigation and severe weather awareness, through an annual severe weather awareness event.	All	Crenshaw County EMA, LEPC	Local	High	High

### Town of Dozier Mitigation Action Plan

Goal	Deleted Action Description	Hazards Addressed	Reason for Deletion of Action			
1	Encourage the utilization of a generator with a protective cover meeting FEMA 361 Guidelines with all community shelters.	All	This action item is complete in Crenshaw County and in the Town of Dozier.			
5	Upgrade the county's siren system.	All	Crenshaw County has transitioned to an automated phone call warning system and is no longer installing new warning sirens or making any further upgrades to the system.			
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Continue training of local flood plain managers through programs offered through the State Flood Plain Manager.	Flooding	Crenshaw County Engineer	Local	High	High
1	Seek a countywide update of all FIRMs in digital format, with an emphasis on detailed studies of developed and developing areas with elevations provided and floodways delineated.	Flooding	Crenshaw County Engineer, Building Officials, Crenshaw County EMA	FEMA Map Update Program	Medium	Moderate
1	Distribute FEMA Publication 320 - <u>Taking Shelter From the Storm: Building a Safe Room in Your House</u> – to local homebuilders.	High Winds, Severe Storms, Tornadoes, Hurricanes	Crenshaw County EMA, Building Officials	Private	High	High
1	Encourage the construction of safe rooms in new and existing construction.	High Winds, Severe Storms, Tornadoes, Hurricanes	Crenshaw County EMA, Building Officials	Private	High	High
1	Encourage the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	High Winds, Severe Storms, Tornadoes, Hurricanes	Governing Body	HMGP, PDM, USDA	Low	Low

1	Retrofit public schools with community shelters.	High Winds, Severe Storms, Tornadoes, Hurricanes	Crenshaw County Schools	HMGP, PDM, USDA	Low	Low
1	Limit economic development activity in areas with a risk for landslides and land subsidence.	Landslides, Subsidence	Local Planning and Building Officials	Local	High	High
1	Support Crenshaw County EMA efforts to investigate areas of topographical depressions to evaluate local risk for land subsidence or sinkholes.	Subsidence	Crenshaw County EMA, Crenshaw County Engineer	Local	Medium	High
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
2	Seek funding sources, such as Community Development Block Grant funds and ADECA Weatherization, to assist low income homeowners with building retrofits to protect against flood damage and creating a weather seal.	Flooding, Extreme Heat, Winter Storms	Local Governments	ADECA CDBG, Weatherization	Medium	Moderate
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Crenshaw County EMA / SCADC	Local	Medium	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Crenshaw County EMA, LEPC	Local	Medium	High
3	Assess vegetation in wildfire-prone areas to prevent landslides after fires.	Landslides	Crenshaw County EMA, Alabama Forestry Commission	Local	Medium	High
3	Seek technical assistance through the Alabama Cooperative Extension System and/or the Alabama Forestry Commission with Best Management Practices (BMPs) for channel and drainage system maintenance.	Flooding	Crenshaw County Engineer, Building Officials, Crenshaw County EMA	Local	Medium	Low
4	Initiate local inventory of existing publicly- and privately-owned dams and record individual dam characteristics.	Dam Failure	Crenshaw County EMA, Crenshaw County Engineer, Local Building Officials	Local	Medium	High
4	Support Alabama Office of Water Resources efforts to record existing dams and their characteristics on a statewide basis.	Dam Failure	Crenshaw County EMA, Crenshaw County Engineer, Local Building Officials	Local	Medium	High
4	Prepare and implement standard operating procedures for drainage system maintenance.	Flooding	Crenshaw County Engineer, Local Governments	Local	High	High
5	Maintain existing warning sirens until they are no longer serviceable or needed for emergency notification.	All	Crenshaw County EMA, Local Governments	Local	Medium	High
5	Promote the addition of a generator to all critical facilities.	All	Crenshaw County EMA, Local Governments	HMGP/PDM	High	Moderate

5	Seek funding for generators to all critical facilities.	All	Crenshaw County EMA, Local Governments	HMGP/PDM	High	Moderate
5	Support the Alabama Skywarn Foundation's efforts to distribute weather radios to low-income households, especially in rural areas outside of siren coverage areas.	All	Crenshaw County EMA	HMGP/PDM	High	Moderate
5	Maintain existing emergency generators to provide back-up power to critical facilities	All	Crenshaw County EMA, Local Officials	HMGP/Local	High	Moderate
5	Plan for and maintain adequate road and debris clearing capabilities.	High Winds, Winter / Ice Storms	Crenshaw County EMA, Crenshaw County Engineer, Luverne Public Works	Local	High	High
5	Promote the use of weather radios in households and businesses.	All	Crenshaw County EMA	TBD	High	Moderate
6	Actively participate in natural hazard reporting and record keeping on local level to ensure that Crenshaw County and its municipalities have an accurate record of past hazard events, including severity	All	Crenshaw County EMA, Municipal Administrative Staff	Local	Medium	High
6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Crenshaw County EMA, Local Governments	Local	High	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Crenshaw County EMA / Crenshaw County Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Crenshaw County EMA	Local	Medium	High
6	Educate citizens that all fuel-burning equipment should be vented to the outside.	Winter / Ice Storms	Crenshaw County EMA	Local	High	High
6	Encourage homeowners to install carbon monoxide monitors and alarms.	Winter / Ice Storms	Crenshaw County EMA, Local Building Officials	Local	High	High
2, 6	Distribute hazard mitigation brochures to area schools for distribution to students.	All	Crenshaw County EMA	Local	High	High
2, 6	Obtain free publications from FEMA, NWS, USGS, and other federal and state agencies and deposit these materials with local libraries.	All	Crenshaw County EMA	Local	High	High
2, 6	Promote mitigation and severe weather awareness, through an annual severe weather awareness event.	All	Crenshaw County EMA, LEPC	Local	High	High
2, 6	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	Flooding	Crenshaw County EMA, Crenshaw County Engineer	Local	Low	High

### Town of Glenwood Mitigation Action Plan

Goal	Deleted Action Description	Hazards Addressed	Reason for Deletion of Action			
1	Encourage the utilization of a generator with a protective cover meeting FEMA 361 Guidelines with all community shelters.	All	This action item is complete in Crenshaw County and in the Town of Glenwood.			
5	Upgrade the county's siren system.	All	Crenshaw County has transitioned to an automated phone call warning system and is no longer installing new warning sirens or making any further upgrades to the system.			
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Continue training of local flood plain managers through programs offered through the State Flood Plain Manager.	Flooding	Crenshaw County Engineer	Local	High	High
1	Seek a countywide update of all FIRMs in digital format, with an emphasis on detailed studies of developed and developing areas with elevations provided and floodways delineated.	Flooding	Crenshaw County Engineer, Building Officials, Crenshaw County EMA	FEMA Map Update Program	Medium	Moderate
1	Distribute FEMA Publication 320 - <u>Taking Shelter From the Storm: Building a Safe Room in Your House</u> – to local homebuilders.	High Winds, Severe Storms, Tornadoes, Hurricanes	Crenshaw County EMA, Building Officials	Private	High	High
1	Encourage the construction of safe rooms in new and existing construction.	High Winds, Severe Storms, Tornadoes, Hurricanes	Crenshaw County EMA, Building Officials	Private	High	High
1	Encourage the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	High Winds, Severe Storms,	Governing Body	HMGP, PDM, USDA	Low	Low

		Tornadoes, Hurricanes				
1	Retrofit public schools with community shelters.	High Winds, Severe Storms, Tornadoes, Hurricanes	Crenshaw County Schools	HMGP, PDM, USDA	Low	Low
1	Limit economic development activity in areas with a risk for landslides and land subsidence.	Landslides, Subsidence	Local Planning and Building Officials	Local	High	High
1	Support Crenshaw County EMA efforts to investigate areas of topographical depressions to evaluate local risk for land subsidence or sinkholes.	Subsidence	Crenshaw County EMA, Crenshaw County Engineer	Local	Medium	High
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Flooding	Crenshaw County Engineer	Local	High	High
2	Seek funding sources, such as Community Development Block Grant funds and ADECA Weatherization, to assist low income homeowners with building retrofits to protect against flood damage and creating a weather seal.	Flooding, Extreme Heat, Winter Storms	Local Governments	ADECA CDBG, Weatherization	Medium	Moderate
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Crenshaw County EMA / SCADC	Local	Medium	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Crenshaw County EMA, LEPC	Local	Medium	High
3	Assess vegetation in wildfire-prone areas to prevent landslides after fires.	Landslides	Crenshaw County EMA, Alabama Forestry Commission	Local	Medium	High
3	Seek technical assistance through the Alabama Cooperative Extension System and/or the Alabama Forestry Commission with Best Management Practices (BMPs) for channel and drainage system maintenance.	Flooding	Crenshaw County Engineer, Building Officials, Crenshaw County EMA	Local	Medium	Low
4	Initiate local inventory of existing publicly- and privately-owned dams and record individual dam characteristics.	Dam Failure	Crenshaw County EMA, Crenshaw County Engineer, Local Building Officials	Local	Medium	High
4	Support Alabama Office of Water Resources efforts to record existing dams and their characteristics on a statewide basis.	Dam Failure	Crenshaw County EMA, Crenshaw County Engineer, Local Building Officials	Local	Medium	High
4	Prepare and implement standard operating procedures for drainage system maintenance.	Flooding	Crenshaw County Engineer, Local Governments	Local	High	High



5	Maintain existing warning sirens until they are no longer serviceable or needed for emergency notification.	All	Crenshaw County EMA, Local Governments	Local	Medium	High
5	Promote the addition of a generator to all critical facilities.	All	Crenshaw County EMA, Local Governments	HMGP/PDM	High	Moderate
5	Seek funding for generators to all critical facilities.	All	Crenshaw County EMA, Local Governments	HMGP/PDM	High	Moderate
5	Support the Alabama Skywarn Foundation's efforts to distribute weather radios to low-income households, especially in rural areas outside of siren coverage areas.	All	Crenshaw County EMA	HMGP/PDM	High	Moderate
5	Maintain existing emergency generators to provide back-up power to critical facilities	All	Crenshaw County EMA, Local Officials	HMGP/Local	High	Moderate
5	Plan for and maintain adequate road and debris clearing capabilities.	High Winds, Winter / Ice Storms	Crenshaw County EMA, Crenshaw County Engineer, Luverne Public Works	Local	High	High
5	Promote the use of weather radios in households and businesses.	All	Crenshaw County EMA	TBD	High	Moderate
6	Actively participate in natural hazard reporting and record keeping on local level to ensure that Crenshaw County and its municipalities have an accurate record of past hazard events, including severity	All	Crenshaw County EMA, Municipal Administrative Staff	Local	Medium	High
6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Crenshaw County EMA, Local Governments	Local	High	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Crenshaw County EMA / Crenshaw County Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Crenshaw County EMA	Local	Medium	High
6	Educate citizens that all fuel-burning equipment should be vented to the outside.	Winter / Ice Storms	Crenshaw County EMA	Local	High	High
6	Encourage homeowners to install carbon monoxide monitors and alarms.	Winter / Ice Storms	Crenshaw County EMA, Local Building Officials	Local	High	High
2, 6	Distribute hazard mitigation brochures to area schools for distribution to students.	All	Crenshaw County EMA	Local	High	High
2, 6	Obtain free publications from FEMA, NWS, USGS, and other federal and state agencies and deposit these materials with local libraries.	All	Crenshaw County EMA	Local	High	High
2, 6	Promote mitigation and severe weather awareness, through an annual severe weather awareness event.	All	Crenshaw County EMA, LEPC	Local	High	High
2, 6	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	Flooding	Crenshaw County EMA, Crenshaw County Engineer	Local	Low	High

### City of Luverne Mitigation Action Plan

Goal	Deleted Action Description	Hazards Addressed	Reason for Deletion of Action			
1	Encourage the utilization of a generator with a protective cover meeting FEMA 361 Guidelines with all community shelters.	All	This action item is complete in Crenshaw County and in the City of Luverne.			
5	Upgrade the county's siren system.	All	Crenshaw County has transitioned to an automated phone call warning system and is no longer installing new warning sirens or making any further upgrades to the system.			
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Continue training of local flood plain managers through programs offered through the State Flood Plain Manager.	Flooding	Crenshaw County Engineer	Local	High	High
1	Seek a countywide update of all FIRMs in digital format, with an emphasis on detailed studies of developed and developing areas with elevations provided and floodways delineated.	Flooding	Crenshaw County Engineer, Building Officials, Crenshaw County EMA	FEMA Map Update Program	Medium	Moderate
1	Distribute FEMA Publication 320 - <u>Taking Shelter From the Storm: Building a Safe Room in Your House</u> – to local homebuilders.	High Winds, Severe Storms, Tornadoes, Hurricanes	Crenshaw County EMA, Building Officials	Private	High	High
1	Encourage the construction of safe rooms in new and existing construction.	High Winds, Severe Storms, Tornadoes, Hurricanes	Crenshaw County EMA, Building Officials	Private	High	High

1	Encourage the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	High Winds, Severe Storms, Tornadoes, Hurricanes	Governing Body	HMGP, PDM, USDA	Low	Low
1	Retrofit public schools with community shelters.	High Winds, Severe Storms, Tornadoes, Hurricanes	Crenshaw County Schools	HMGP, PDM, USDA	Low	Low
1	Limit economic development activity in areas with a risk for landslides and land subsidence.	Landslides, Subsidence	Local Planning and Building Officials	Local	High	High
1	Support Crenshaw County EMA efforts to investigate areas of topographical depressions to evaluate local risk for land subsidence or sinkholes.	Subsidence	Crenshaw County EMA, Crenshaw County Engineer	Local	Medium	High
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Flooding	Crenshaw County Engineer	Local	High	High
1	Promote good construction practices and proper code enforcement to eliminate most structural problems during natural hazard events.	All	Building Officials	Local	High	High
2	Seek funding sources, such as Community Development Block Grant funds and ADECA Weatherization, to assist low income homeowners with building retrofits to protect against flood damage and creating a weather seal.	Flooding, Extreme Heat, Winter Storms	Local Governments	ADECA CDBG, Weatherization	Medium	Moderate
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Crenshaw County EMA / SCADC	Local	Medium	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Crenshaw County EMA, LEPC	Local	Medium	High
2	Promote the purchase of flood insurance coverage by property owners and renters in high-risk flooding areas.	Flooding	Crenshaw County EMA, Crenshaw County Engineer	Local	High	High
3	Assess vegetation in wildfire-prone areas to prevent landslides after fires.	Landslides	Crenshaw County EMA, Alabama Forestry Commission	Local	Medium	High
3	Seek technical assistance through the Alabama Cooperative Extension System and/or the Alabama Forestry Commission with Best Management Practices (BMPs) for channel and drainage system maintenance.	Flooding	Crenshaw County Engineer, Building Officials, Crenshaw County EMA	Local	Medium	Low
4	Initiate local inventory of existing publicly- and privately-owned dams and record individual dam characteristics.	Dam Failure	Crenshaw County EMA, Crenshaw County Engineer, Local Building Officials	Local	Medium	High

4	Support Alabama Office of Water Resources efforts to record existing dams and their characteristics on a statewide basis.	Dam Failure	Crenshaw County EMA, Crenshaw County Engineer, Local Building Officials	Local	Medium	High
4	Prepare and implement standard operating procedures for drainage system maintenance.	Flooding	Crenshaw County Engineer, Local Governments	Local	High	High
5	Maintain existing warning sirens until they are no longer serviceable or needed for emergency notification.	All	Crenshaw County EMA, Local Governments	Local	Medium	High
5	Promote the addition of a generator to all critical facilities.	All	Crenshaw County EMA, Local Governments	HMGP/PDM	High	Moderate
5	Seek funding for generators to all critical facilities.	All	Crenshaw County EMA, Local Governments	HMGP/PDM	High	Moderate
5	Support the Alabama Skywarn Foundation's efforts to distribute weather radios to low-income households, especially in rural areas outside of siren coverage areas.	All	Crenshaw County EMA	HMGP/PDM	High	Moderate
5	Maintain existing emergency generators to provide back-up power to critical facilities	All	Crenshaw County EMA, Local Officials	HMGP/Local	High	Moderate
5	Plan for and maintain adequate road and debris clearing capabilities.	High Winds, Winter / Ice Storms	Crenshaw County EMA, Crenshaw County Engineer, Luverne Public Works	Local	High	High
5	Promote the use of weather radios in households and businesses.	All	Crenshaw County EMA	TBD	High	Moderate
6	Actively participate in natural hazard reporting and record keeping on local level to ensure that Crenshaw County and its municipalities have an accurate record of past hazard events, including severity	All	Crenshaw County EMA, Municipal Administrative Staff	Local	Medium	High
6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Crenshaw County EMA, Local Governments	Local	High	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Crenshaw County EMA / Crenshaw County Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Crenshaw County EMA	Local	Medium	High
6	Educate citizens that all fuel-burning equipment should be vented to the outside.	Winter / Ice Storms	Crenshaw County EMA	Local	High	High
6	Encourage homeowners to install carbon monoxide monitors and alarms.	Winter / Ice Storms	Crenshaw County EMA, Local Building Officials	Local	High	High
2, 6	Distribute hazard mitigation brochures to area schools for distribution to students.	All	Crenshaw County EMA	Local	High	High
2, 6	Obtain free publications from FEMA, NWS, USGS, and other federal and state agencies and deposit these materials with local libraries.	All	Crenshaw County EMA	Local	High	High

2, 6	Promote mitigation and severe weather awareness, through an annual severe weather awareness event.	All	Crenshaw County EMA, LEPC	Local	High	High
2, 6	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	Flooding	Crenshaw County EMA, Crenshaw County Engineer	Local	Low	High

Town of Petrey Mitigation Action Plan						
Goal	Deleted Action Description	Hazards Addressed	Reason for Deletion of Action			
1	Encourage the utilization of a generator with a protective cover meeting FEMA 361 Guidelines with all community shelters.	All	This action item is complete in Crenshaw County and the Town of Petrey.			
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Seek a countywide update of all FIRMs in digital format, with an emphasis on detailed studies of developed and developing areas with elevations provided and floodways delineated.	Flooding	Crenshaw County Engineer, Building Officials, Crenshaw County EMA	FEMA Map Update Program	Medium	Moderate
1	Distribute FEMA Publication 320 - <u>Taking Shelter From the Storm: Building a Safe Room in Your House</u> – to local homebuilders.	High Winds, Severe Storms, Tornadoes, Hurricanes	Crenshaw County EMA, Building Officials	Private	High	High
1	Encourage the construction of safe rooms in new and existing construction.	High Winds, Severe Storms, Tornadoes, Hurricanes	Crenshaw County EMA, Building Officials	Private	High	High

1	Encourage the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	High Winds, Severe Storms, Tornadoes, Hurricanes	Governing Body	HMGP, PDM, USDA	Low	Low
1	Retrofit public schools with community shelters.	High Winds, Severe Storms, Tornadoes, Hurricanes	Crenshaw County Schools	HMGP, PDM, USDA	Low	Low
1	Limit economic development activity in areas with a risk for landslides and land subsidence.	Landslides, Subsidence	Local Planning and Building Officials	Local	High	High
1	Support Crenshaw County EMA efforts to investigate areas of topographical depressions to evaluate local risk for land subsidence or sinkholes.	Subsidence	Crenshaw County EMA, Crenshaw County Engineer	Local	Medium	High
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	For the Towns of Petrey and Brantley which have had special flood hazard areas identified but are not members of the NFIP, enact flood hazard prevention ordinances and establish them as regular members of the NFIP. Participation in the NFIP by the Town of Rutledge is encouraged.	Flooding	Local Governments	Local	High	High
2	Seek funding sources, such as Community Development Block Grant funds and ADECA Weatherization, to assist low income homeowners with building retrofits to protect against flood damage and creating a weather seal.	Flooding, Extreme Heat, Winter Storms	Local Governments	ADECA CDBG, Weatherization	Medium	Moderate
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Crenshaw County EMA / SCADC	Local	Medium	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Crenshaw County EMA, LEPC	Local	Medium	High
3	Assess vegetation in wildfire-prone areas to prevent landslides after fires.	Landslides	Crenshaw County EMA, Alabama Forestry Commission	Local	Medium	High
4	Initiate local inventory of existing publicly- and privately-owned dams and record individual dam characteristics.	Dam Failure	Crenshaw County EMA, Crenshaw County Engineer, Local Building Officials	Local	Medium	High
4	Support Alabama Office of Water Resources efforts to record existing dams and their characteristics on a statewide basis.	Dam Failure	Crenshaw County EMA, Crenshaw County Engineer, Local Building Officials	Local	Medium	High
4	Prepare and implement standard operating procedures for drainage system maintenance.	Flooding	Crenshaw County Engineer, Local Governments	Local	High	High



5	Maintain existing warning sirens until they are no longer serviceable or needed for emergency notification.	All	Crenshaw County EMA, Local Governments	Local	Medium	High
5	Promote the addition of a generator to all critical facilities.	All	Crenshaw County EMA, Local Governments	HMGP/PDM	High	Moderate
5	Seek funding for generators to all critical facilities.	All	Crenshaw County EMA, Local Governments	HMGP/PDM	High	Moderate
5	Maintain existing emergency generators to provide back-up power to critical facilities	All	Crenshaw County EMA, Local Officials	HMGP/Local	High	Moderate
5	Plan for and maintain adequate road and debris clearing capabilities.	High Winds, Winter / Ice Storms	Crenshaw County EMA, Crenshaw County Engineer, Luerne Public Works	Local	High	High
5	Promote the use of weather radios in households and businesses.	All	Crenshaw County EMA	TBD	High	Moderate
6	Actively participate in natural hazard reporting and record keeping on local level to ensure that Crenshaw County and its municipalities have an accurate record of past hazard events, including severity	All	Crenshaw County EMA, Municipal Administrative Staff	Local	Medium	High
6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Crenshaw County EMA, Local Governments	Local	High	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Crenshaw County EMA / Crenshaw County Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Crenshaw County EMA	Local	Medium	High
6	Educate citizens that all fuel-burning equipment should be vented to the outside.	Winter / Ice Storms	Crenshaw County EMA	Local	High	High
6	Encourage homeowners to install carbon monoxide monitors and alarms.	Winter / Ice Storms	Crenshaw County EMA, Local Building Officials	Local	High	High
2, 6	Distribute hazard mitigation brochures to area schools for distribution to students.	All	Crenshaw County EMA	Local	High	High
2, 6	Obtain free publications from FEMA, NWS, USGS, and other federal and state agencies and deposit these materials with local libraries.	All	Crenshaw County EMA	Local	High	High
2, 6	Promote mitigation and severe weather awareness, through an annual severe weather awareness event.	All	Crenshaw County EMA, LEPC	Local	High	High

### Town of Rutledge Mitigation Action Plan

Goal	Deleted Action Description	Hazards Addressed	Reason for Deletion of Action			
1	Encourage the utilization of a generator with a protective cover meeting FEMA 361 Guidelines with all community shelters.	All	This action item is complete in Crenshaw County and the Town of Rutledge.			
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Seek a countywide update of all FIRMs in digital format, with an emphasis on detailed studies of developed and developing areas with elevations provided and floodways delineated.	Flooding	Crenshaw County Engineer, Building Officials, Crenshaw County EMA	FEMA Map Update Program	Medium	Moderate
1	Distribute FEMA Publication 320 - <u>Taking Shelter From the Storm: Building a Safe Room in Your House</u> – to local homebuilders.	High Winds, Severe Storms, Tornadoes, Hurricanes	Crenshaw County EMA, Building Officials	Private	High	High
1	Encourage the construction of safe rooms in new and existing construction.	High Winds, Severe Storms,	Crenshaw County EMA, Building Officials	Private	High	High

		Tornadoes, Hurricanes				
1	Encourage the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	High Winds, Severe Storms, Tornadoes, Hurricanes	Governing Body	HMGP, PDM, USDA	Low	Low
1	Retrofit public schools with community shelters.	High Winds, Severe Storms, Tornadoes, Hurricanes	Crenshaw County Schools	HMGP, PDM, USDA	Low	Low
1	Limit economic development activity in areas with a risk for landslides and land subsidence.	Landslides, Subsidence	Local Planning and Building Officials	Local	High	High
1	Support Crenshaw County EMA efforts to investigate areas of topographical depressions to evaluate local risk for land subsidence or sinkholes.	Subsidence	Crenshaw County EMA, Crenshaw County Engineer	Local	Medium	High
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	For the Towns of Petrey and Brantley which have had special flood hazard areas identified but are not members of the NFIP, enact flood hazard prevention ordinances and establish them as regular members of the NFIP. Participation in the NFIP by the Town of Rutledge is encouraged.	Flooding	Local Governments	Local	High	High
1	Continue training of local flood plain managers through programs offered through the State Flood Plain Manager.	Flooding	Crenshaw County Engineer	Local	High	High
2	Seek funding sources, such as Community Development Block Grant funds and ADECA Weatherization, to assist low income homeowners with building retrofits to protect against flood damage and creating a weather seal.	Flooding, Extreme Heat, Winter Storms	Local Governments	ADECA CDBG, Weatherization	Medium	Moderate
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Crenshaw County EMA / SCADC	Local	Medium	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Crenshaw County EMA, LEPC	Local	Medium	High
3	Assess vegetation in wildfire-prone areas to prevent landslides after fires.	Landslides	Crenshaw County EMA, Alabama Forestry Commission	Local	Medium	High
4	Initiate local inventory of existing publicly- and privately-owned dams and record individual dam characteristics.	Dam Failure	Crenshaw County EMA, Crenshaw County Engineer, Local Building Officials	Local	Medium	High
4	Support Alabama Office of Water Resources efforts to record existing dams and their characteristics on a statewide basis.	Dam Failure	Crenshaw County EMA, Crenshaw County	Local	Medium	High

			Engineer, Local Building Officials			
5	Maintain existing warning sirens until they are no longer serviceable or needed for emergency notification.	All	Crenshaw County EMA, Local Governments	Local	Medium	High
5	Promote the addition of a generator to all critical facilities.	All	Crenshaw County EMA, Local Governments	HMGP/PDM	High	Moderate
5	Seek funding for generators to all critical facilities.	All	Crenshaw County EMA, Local Governments	HMGP/PDM	High	Moderate
5	Maintain existing emergency generators to provide back-up power to critical facilities	All	Crenshaw County EMA, Local Officials	HMGP/Local	High	Moderate
5	Plan for and maintain adequate road and debris clearing capabilities.	High Winds, Winter / Ice Storms	Crenshaw County EMA, Crenshaw County Engineer, Luverne Public Works	Local	High	High
5	Promote the use of weather radios in households and businesses.	All	Crenshaw County EMA	TBD	High	Moderate
5	Support the Alabama Skywarn Foundation's efforts to distribute weather radios to low-income households, especially in rural areas outside of siren coverage areas.	All	Crenshaw County EMA	HMGP/PDM	High	Moderate
6	Actively participate in natural hazard reporting and record keeping on local level to ensure that Crenshaw County and its municipalities have an accurate record of past hazard events, including severity	All	Crenshaw County EMA, Municipal Administrative Staff	Local	Medium	High
6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Crenshaw County EMA, Local Governments	Local	High	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Crenshaw County EMA / Crenshaw County Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Crenshaw County EMA	Local	Medium	High
6	Educate citizens that all fuel-burning equipment should be vented to the outside.	Winter / Ice Storms	Crenshaw County EMA	Local	High	High
6	Encourage homeowners to install carbon monoxide monitors and alarms.	Winter / Ice Storms	Crenshaw County EMA, Local Building Officials	Local	High	High
2, 6	Distribute hazard mitigation brochures to area schools for distribution to students.	All	Crenshaw County EMA	Local	High	High
2, 6	Obtain free publications from FEMA, NWS, USGS, and other federal and state agencies and deposit these materials with local libraries.	All	Crenshaw County EMA	Local	High	High
2, 6	Promote mitigation and severe weather awareness, through an annual severe weather awareness event.	All	Crenshaw County EMA, LEPC	Local	High	High

### Crenshaw County Schools Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Encourage the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	High Winds, Severe Storms, Tornadoes, Hurricanes	Governing Body	HMGP, PDM, USDA	Low	Low
1	Retrofit public schools with community shelters.	High Winds, Severe Storms, Tornadoes, Hurricanes	Crenshaw County Schools	HMGP, PDM, USDA	Low	Low
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Crenshaw County EMA / SCADC	Local	Medium	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Crenshaw County EMA, LEPC	Local	Medium	High

4	Provide isolation rooms in school facilities for pandemic children until they can be picked up.	High Winds	Crenshaw County Schools	HMGP/Local	High	Moderate
5	Promote the addition of a generator to all critical facilities.	All	Crenshaw County EMA, Local Governments	HMGP/PDM	High	Moderate
5	Seek funding for generators to all critical facilities.	All	Crenshaw County EMA, Local Governments	HMGP/PDM	High	Moderate
5	Maintain existing emergency generators to provide back-up power to critical facilities	All	Crenshaw County EMA, Local Officials	HMGP/Local	High	Moderate
6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Crenshaw County EMA, Local Governments	Local	High	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Crenshaw County EMA / Crenshaw County Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Crenshaw County EMA	Local	Medium	High
6	Educate citizens that all fuel-burning equipment should be vented to the outside.	Winter / Ice Storms	Crenshaw County EMA	Local	High	High
6	Continue utilization of website and social media with timely information for citizens	All	Crenshaw County EMA	Local	High	High
6	Include safety strategies for severe weather in driver education classes and materials.	Winter / Ice Storms	Crenshaw County EMA, Crenshaw County Schools	Local	High	High
2, 6	Distribute hazard mitigation brochures to area schools	All	Crenshaw County EMA	Local	High	High
2, 6	Promote mitigation and severe weather awareness, through an annual severe weather awareness event.	All	Crenshaw County EMA, LEPC	Local	High	High



### **5.5.6 Dale County Jurisdictions Mitigation Action**

- 1. Dale County**
- 2. Dale County Schools**
- 3. City of Daleville**
- 4. Daleville City Schools**
- 5. City of Ozark**
- 6. Ozark City Schools**
- 7. Town of Ariton**
- 8. Town of Clayhatchee**
- 9. Town of Grimes**
- 10. Town of Level Plains**
- 11. Town of Midland City**
- 12. Town of Napier Field**
- 13. Town of Newton**
- 14. Town of Pickard**

Dale County Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Assist local jurisdictions that have not developed comprehensive plans to develop and adopt plans and maintain existing plans. The plans will address natural hazards and long term disaster resiliency plans.	All	Dale County Commission	Local	High	High
1	Develop a 5 year capital improvements plan that accounts for natural hazards.	All	Local Planning and Building Officials	Local	High	High
1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geo hazards, major drainages structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	All	Dale County EMA	FEMA	Medium	High
1	Integrate FEMA HAZUS-MH applications for hazard loss estimations within local GIS programs. Maintain up-to-date data within GIS to apply the full loss estimation capabilities of HAZUS.	All	Dale County EMA, E911	Local	High	High
1	Document the depths of flooding immediately after each event. Enter and maintain these historical records in GIS.	Flooding	Dale County EMA, E911	Local	Medium	Medium
1	Carry out detailed planning and engineering studies for sub-basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Flooding	Dale County Engineer	FEMA / HMA	Medium	Medium
1	Identify existing culturally or socially significant structures and critical facilities that have the most potential for losses from natural hazard events and identify needed structural upgrades.	All	Dale County Engineer	Local	Medium	Medium
1	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Flooding	Dale County Engineer	FEMA / HMA	High	High
1	Create inventory system using GIS of fire hydrants within county.	Flooding	Dale County Engineer / EMA / Fire Departments	Local	High	High
1	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	Flooding	Dale County Engineer	FEMA / HMA	Medium	Medium
1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator and FEMA's training center in Emmitsburg, Maryland.	Flooding	Dale County Commission / EMA	FEMA / HMA	Medium	Medium
1	Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Flooding	Dale County Commission / EMA	Local	High	High

	Promote the adoption of uniform flood hazard prevention ordinance among all NFIP communities. The ordinance standards should encourage flood plain management that maintains the natural and beneficial functions of flood plains by maximizing the credits that could be obtained for “Higher Regulatory Standards” under the Community Rating System (CRS) Program.	Flooding	Dale County Commission / EMA	FEMA / HMA	High	High
1	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association Flood Plain Managers and encourage active participation.	Flooding	Dale County Commission / EMA	FEMA / HMA	High	High
1	Consider large lot size restrictions on flood prone areas designated on Flood Insurance Rate Maps. Amend the local flood zone ordinance.	Flooding	Dale County Commission / Flood Plain Manager	FEMA / HMA	High	High
1	Evaluate additional flood zone restrictions on land use, such as prohibition of storage of buoyant materials, storage of hazardous materials, restrictive development of flood ways, among others.	Flooding	Dale County Commission / Flood Plain Manager	FEMA / HMA	Low	Low
1	Amend flood zone ordinance to require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	Flooding	Dale County Commission / Flood Plain Manager	FEMA / HMA	Medium	Medium
1	Enact the International Code Series building and technical codes and appoint a Local Building Official to administer and enforce the codes.	All	Dale County Commission	Local	Medium	Medium
1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	All	Dale County Commission	Local	Medium	Medium
1	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of “hurricane clips.”	All	Dale County Commission	Local	Medium	Medium
1	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	All	Dale County Commission	Local	Medium	Medium
1	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	All	Dale County Commission	Local	Medium	Medium
1	Enact local ordinance that require community storm shelters within sizeable mobile home parks and subdivisions.	High Winds / Tornadoes	Dale County Commission	Local	High	High
1	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	High Winds / Tornadoes	Dale County Commission	FEMA / HMA	High	High
1	Promote the adoption/enforcement of storm water management regulations that maintain pre-development runoff rates.	Flooding	Local Floodplain Manager / Dale County EMA	FEMA / HMA	High	High
1	Support legislation to establish a State dam safety program.	Flooding	Dale County Commission	Local	Low	Low
1	Apply for membership in the CRS Program; continue to upgrade rating.	Flooding	Local Floodplain Manager / Dale County EMA	Local	High	High

1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards	All	Dale County EMA / Dale County Engineer	Local	Low	Low
	Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Wildfires	Dale County Fire Departments	FEMA / HMA	Medium	Medium
2	Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	All	Dale County EMA / Commission	FEMA / HMA	High	High
2	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	All	Dale County EMA / Commission	FEMA / HMA	High	High
2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	All	Dale County EMA / Dale County Engineer	FEMA / HMA	High	High
2	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Flooding	Dale County EMA / Dale County Engineer	FEMA / HMA	High	High
2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Severe Storms	Dale County EMA / Dale County Engineer	FEMA / HMA	High	High
2	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Flooding	Dale County EMA / Commission	FEMA / HMA	Medium	Medium
2	Retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Earthquakes / Land Slides	Dale County EMA / Commission	FEMA / HMA	High	High
2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	All	Dale County EMA / Dale County Engineer	FEMA / HMA	Medium	Medium
2	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Flood	Dale County EMA / Commission	FEMA / HMA	High	High
2	Install lightning and/or surge protection on existing critical facilities.	Severe Storms	Dale County EMA / Commission	FEMA / HMA	High	High
2	Conduct ongoing tree trimming programs along power lines.	All	Dale County Engineer	Local	High	High
2	Install backup power generators for critical facilities.	All	Dale County EMA / Commission	FEMA / HMA	High	High
3	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	Flooding	Dale County EMA / Commission	Local	Medium	Medium
3	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Hurricanes/ Tropical Storms	Dale County EMA / Commission	Local	Medium	Medium

3	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	All	Dale County EMA / Commission	Local	Medium	Medium
3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	All	Dale County EMA / Commission	Local	Medium	Medium
3	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	All	Dale County EMA / Commission	Local	Medium	Medium
3	Participate in the “Turn Around Don’t Drown” program by purchasing and installing signs in known flash flood bridge overpass locations.	Flooding	Dale County EMA / Commission	Local	Medium	Medium
3	Arrange with the Multiple Listing Service (MLS) to require floodplain location disclosure as a condition for each real estate listing.	Flooding	Dale County EMA / Dale County Engineer	Local	Medium	Medium
3	Consider the enactment of a local ordinance or state law to require floodplain location disclosure when a property is listed for sale.	Flooding	Dale County Commission / Dale County Engineer	Local	High	High
3	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	Earthquakes / Land Slides	Dale County Commission / Dale County Engineer	Local	Low	Low
3	Distribute hazard mitigation brochures to students through area schools.	All	Dale County Commission / Dale County Schools	Local	Low	Low
3	Distribute the 2011 plan to local officials, stakeholders, and interested individuals through internet download.	All	Dale County Commission/ Dale County EMA	Local	Low	Low
3	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Flooding	Dale County Commission/ Dale County EMA	Local	Medium	Medium
3	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	All	Dale County Commission/ Dale County EMA	Local	Medium	Medium
3	Promote the use of weather radios in households and businesses.	All	Dale County Commission/ Dale County EMA	Local	High	High
3	Require the installation of weather radios in all public buildings and places of public assembly.	All	Dale County Commission/ Dale County EMA	FEMA / HMA	High	High
3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	All	Dale County Commission/ Dale County EMA	FEMA / HMA	High	High
3	Increase and enhance the county's ability to coordinate and disseminate public information regarding threats, evacuations and shelters through a variety of media.	Hurricanes/ Tropical Storms	Dale County Commission/ Dale County EMA	FEMA / HMA	High	High
3	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	All	Dale County Commission/ Dale County EMA	FEMA / HMA	Medium	Medium
3	Upgrades to critical communications infrastructure in jurisdictions.	All	Dale County Commission/ Dale County EMA	FEMA / HMA / CDBG	Medium	Medium

4	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	Flooding	Dale County Commission/ Dale County EMA	FEMA / HMA	Low	Low
4	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Flooding	Dale County Commission/ Dale County Engineer	Local	High	High
4	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	Flooding	Dale County Commission/ Dale County Engineer	Local	Medium	Medium
4	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	Landslides	Dale County Commission / Dale County Engineer	Local	Medium	Medium
4	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Drought	Dale County Commission	Local	High	High
4	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Flooding	Dale County Commission / Dale County Engineer	Local	Low	Low
4	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Flooding	Dale County Commission / Dale County Engineer	Local / FEMA / CDBG	Medium	Medium
4	Construct new community safe rooms in accessible locations and add safe rooms within new and existing public and institutional buildings, such as schools, colleges and universities, senior centers, community centers, hospitals and government buildings.	Severe Weather	Dale County Commission / Dale County EMA	FEMA / HMA	High	High
4	Pursue grant funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	Severe Storms	Dale County Commission / Dale County EMA	FEMA / HMA	High	High
4	Encourage the construction of safe rooms in new and existing homes and buildings.	Severe Storms	Dale County Commission / Dale County EMA	FEMA / HMA	High	High

Dale County Schools Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
4	Assess public and highly populated facilities to determine how they can be retrofitted to withstand high wind events	High Winds	Dale County EMA /Dale County Engineer/Dale County Commission	Local	High	Moderate
4	Provide isolation rooms in school facilities for pandemic children until they can be picked up.	All	Dale County Schools	HMGP/Local	High	Moderate
4	Provide safe rooms or shelter spaces in school facilities for student and staff safety	Storms/High Winds/ Extreme Temperatures	Dale County Schools	HMGP/Dale Co Schools	High	Moderate
5	Maintain existing emergency generators to provide back-up power to critical facilities	All	Dale County EMA, Local Officials	HMGP/Local	High	Moderate
5	Limit non-critical water consumption during severe drought conditions	Drought / Ex. Heat	Local Water Systems/ Dale County Commission	Local	Medium	High
5	Procure and maintain generators for critical facilities	All	Dale County EMA, Schools, Local	HMGP/Dale Co Schools	High	Moderate



6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Dale County EMA, / Dale County Commission	Local	High	High
6	Continue distribution of hazard-related coloring and activity books	All	Dale County EMA / Dale County Schools	Dale County EMA / County and City Schools	High	High
5,6	Encourage participation in the Dale County Mass Notification System for emergency hazard events.	All	Dale County EMA	Dale County EMA	High	High

Town of Arton Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Attend training for floodplain managers through state and federal floodplain manager training programs.	All	Mayor / Town Council	Local	High	High
1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	All	Mayor / Town Council	Local	High	High
1	Prepare a five-year capital improvements plan (CIP) to include capital projects that implements the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	All	Mayor / Town Council	Local / CDBG	High	High
	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geohazards, major drainages structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	All	Dale County EMA	Local	Medium	Medium
	Integrate FEMA HAZUS-MH applications for hazard loss estimations within local GIS programs. Maintain up to- date data within GIS to apply the full loss estimation capabilities of HAZUS.	All	Dale County EMA	Local	Medium	Medium

4	Maintain flood plain information resources for guidance and technical assistance to the local flood plain manager.	All	Mayor / Town Council	Local	High	High
4	Adopt uniform flood hazard prevention ordinance.	All	Mayor / Town Council	FEMA Map Update Program	Medium	Moderate
1	Study adopting large lot size restrictions in flood prone areas designated by FIRM Maps.	Flooding	Dale County Engineer, Building Officials, Dale County EMA	FEMA Map Update Program	Medium	Moderate
1	Evaluate land use restrictions in flood prone areas	All	Dale County Engineer, County Commission	Private	High	High
1	Amend flood zone ordinance to require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	High Winds, Severe Storms, Tornadoes, Hurricanes	Dale County EMA, Dale County Engineer	Private	High	High
1	Enact the International Code Series building and technical codes and appoint a local building official to administer and enforce the codes.	High Winds, Severe Storms, Tornadoes, Hurricanes	Governing Body, Dale County EMA	HMGP, PDM, USDA	Low	Low
1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	All	Dale County EMA	HMGP, PDM, USDA	Low	Low
1	Evaluate and revise as appropriate building codes for roof construction to maximize protection against wind damage.	High Winds, Severe Storms, Tornadoes, Hurricanes	Mayor / Town Council	Local	Medium	Moderate
1	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	Fire	Mayor / Town Council	Local	High	High
1	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	All	Mayor / Town Council	Local	High	High
1	Enact local ordinances that require community storm shelters within mobile home parks and subdivisions.	High Winds, Severe Storms, Tornadoes, Hurricanes	Mayor / Town Council	Local	High	High
1	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	High Winds, Severe Storms, Tornadoes, Hurricanes	Mayor / Town Council	Local	High	High
1	Promote the adoption/enforcement of storm water management regulations that maintain pre-development run off rates.	Flooding	Dale County EMA	Local	Medium	Moderate
1	Support legislation to establish a State dam safety program.	Flooding	Mayor / Town Council	State	High	High
1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.	Flooding	Mayor / Town Council / Dale County EMA	Local	Medium	Moderate
1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	All	Dale County Engineer	HMGP	Medium	Moderate

1	Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Wildfire, Fire	Dale County EMA / Arifton Volunteer Fire Department	HMGP	Low	Low
2	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Flooding	Mayor and Town Council / Dale County EMA	HMGP	High	High
2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Flooding	Mayor and Town Council / Dale County EMA,	HMGP	High	High
2	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Flooding	Mayor and Town Council, Dale County EMA	HMGP	Medium	Moderate
1	Document the depths of flooding immediately after each event. Enter and maintain these historical records in GIS.	Flooding	Dale County Engineer	Local	Medium	Medium
2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	High Winds, Severe Storms, Tornadoes, Hurricanes	Mayor and Town Council / Dale County EMA	HMGP	Medium	Medium
1	Carry out detailed planning and engineering studies for sub-basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Flooding	Mayor and Town Council / Dale County EMA	HMGP	Medium	Medium
1	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Flooding	Mayor and Town Council / Dale County EMA	Local / FEMA HMA	Medium	Medium
1	Identify existing culturally or socially significant structures and critical facilities that have the most potential for losses from natural hazard events and identify needed structural upgrades.	All	Mayor and Town Council / Dale County EMA	Local / FEMA HMA	Medium	Medium
2	Pursue FEMA grant funds for flood proofing pre-FIRM Non-residential buildings, where feasible.	Flooding	Mayor and Town Council, Dale County EMA	HMGP	High	High
2	Retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	All	Mayor and Town Council, Dale County EMA	HMGP	High	High
2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	All	Mayor and Town Council, Dale County EMA	Local	Medium	Moderate
2	Promote the purchase of insurance coverage by property owners and renters for flood damages in high risk areas.	Flooding	Dale County EMA / Dale County Engineer	Local	Low	Low

2	Install lightning and/or surge protection on existing critical facilities.	All	Dale County EMA / Dale County Engineer	HMGP	High	High
2	Conduct ongoing tree trimming programs along power lines.	All	Mayor / Town Council / Dale County Engineer	Local	High	High
2	Install backup power generators for critical facilities.	All	Mayor / Town Council, Dale County EMA	HMGP	Local	Local
3	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	Flooding	Dale County EMA	Local	Low	Low
3	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	All	Dale County EMA	Local	Medium	Medium
3	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	All	Dale County EMA	Local	Medium	Medium
3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	All	Dale County EMA	Local	Medium	Medium
3	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Flooding	Dale County EMA	Local	Medium	Medium
3	Participate in the “Turn Around Don’t Drown” program by purchasing and installing signs in known flash flood bridge overpass locations.	Flash Flood	Mayor / Town Council / Dale County EMA	Local	High	High
3	Arrange with the Multiple Listing Service (MLS) to require floodplain location disclosure as a condition for each real estate listing.	Flooding	Dale County EMA	Local	Low	Low
3	Consider the enactment of a local ordinance or state law to require floodplain location disclosure when a property is listed for sale.	Flooding	Mayor / Town Council	Local	Low	Low
3	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	All	Dale County EMA	Local	Medium	Medium
3	Distribute hazard mitigation brochures to students through area schools.	All	Dale County EMA	Local	Low	Low
3	Distribute the 2021 plan to local officials, stakeholders, and interested individuals through internet download.	All	Dale County EMA	Local	High	High
3	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	All	Local Engineer / Dale County EMA	Local	High	High
3	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	All	Dale County EMA	Local	Medium	Medium
3	Promote the use of weather radios in households and businesses.	All	Dale County EMA	Local	High	High

3	Require the installation of weather radios in all public buildings and places of public assembly.	All	Dale County EMA	Local	High	High
3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
3	Increase and enhance the county's ability to coordinate and disseminate public information regarding threats, evacuations and shelters through a variety of media.	All	Dale County EMA	TBD	High	High
3	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Tornadoes	Dale County EMA	FEMA HMA Funds	High	High
3	Upgrade critical communications infrastructure.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
4	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	Medium	Moderate
4	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Flooding	Local Engineer / Dale County EMA	TBD	Medium	Moderate
4	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.		Local Engineer / Dale County EMA	Local	High	High
4	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).		Local Engineer	Local	Low	Low
4	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Drought	Mayor / Town Council / Dale County EMA	Local	Medium	Medium
5	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Flooding	Local Engineer	Local	High	High
5	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Flooding	Local Engineer / Mayor / Town Council	FEMA HMA Funds	High	High
5	Construct new community safe rooms in accessible locations and add safe rooms within new and existing public and institutional buildings, such as schools, colleges and universities, senior centers, community centers, hospitals and government buildings.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
5	Pursue grant funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	Hurricanes, Tornadoes, Tropical Storms	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
5	Encourage the construction of safe rooms in new and existing homes and buildings.	All	Mayor / Town Council / Dale County EMA	Local	High	High
1	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	Wildfires	Fire Department	Local	Medium	Medium
1	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	Flooding	Dale County Engineer	Local / FEMA / HMA	Medium	Medium

1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator and FEMA's training center in Emmitsburg, Maryland.	Flooding	Mayor / Town Council / Dale County EMA	Local / FEMA / HMA	Medium	Medium
1	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.	Flooding	Mayor / Town Council / Dale County EMA	Local	Medium	Medium
1	Promote the adoption of uniform flood hazard prevention ordinance among all NFIP communities. The ordinance standards should encourage flood plain management that maintains the natural and beneficial functions of flood plains by maximizing the credits that could be obtained for "Higher Regulatory Standards" under the Community Rating System (CRS) Program.	Flooding	Mayor / Town Council / Dale County EMA	Local	High	High
1	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association Flood Plain Managers and encourage active participation.	Flooding	Mayor / Town Council / Dale County EMA / Flood Plain Manager	Local	High	High
1	Consider large lot size restrictions on flood prone areas designated on Flood Insurance Rate Maps. Amend the local flood zone ordinance.	Flooding	Mayor / Town Council	Local	Medium	Medium
1	Evaluate additional flood zone restrictions on land use, such as prohibition of storage of buoyant materials, storage of hazardous materials, restrictive development of flood ways, among others.	Flooding	Mayor / Town Council	Local	Medium	Medium

Town of Clayhatchee Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Develop and maintain comprehensive plan.	All	Mayor / Town Council	Local	High	High
1	Prepare and adhere to five year capital improvement plan that addresses natural hazards and implements mitigating actions.	All	Mayor / Town Council	Local	High	High
1	Assist the county in maintaining a centralized GIS database of natural hazards and risk assessment database.	All	Dale County Engineer, Building Officials, Dale County EMA	FEMA Map Update Program	Medium	Moderate
1	Integrate FEMA HAZUS-MH applications for hazard loss estimations within local GIS programs. Maintain up to- date data within GIS to apply the full loss estimation capabilities of HAZUS.	All	Dale County EMA / E911	FEMA / HMA	Medium	Medium
1	Properly document water crest levels during flood events.	Flooding	Dale County Engineer, Building Officials, Dale County EMA	FEMA Map Update Program	Medium	Moderate



1	Develop flood studies and engineering reports of critical flood hazard areas to determine mitigation actions.	All	Dale County Engineer, County Commission	Private	High	High
1	Identify culturally and socially significant structures and critical facilities with loss potential.	High Winds, Severe Storms, Tornadoes, Hurricanes	Dale County EMA, Dale County Engineer	Private	High	High
1	Evaluate culvert size and placement of roadways in flood prone areas.	High Winds, Severe Storms, Tornadoes, Hurricanes	Governing Body, Dale County EMA	HMGP, PDM, USDA	Low	Low
1	Inventory and map existing and new fire hydrants and related appurtenances within Clayhatchee.	All	Dale County EMA	HMGP, PDM, USDA	Low	Low
1	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	Flooding	Dale County Engineer	HMGP	Medium	Moderate
1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator and FEMA's training center in Emmitsburg, Maryland.	Flooding	Mayor / Town Council	Local	High	High
1	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.	Flooding	Mayor / Town Council	Local	High	High
1	Promote the adoption of uniform flood hazard prevention ordinance among all NFIP communities. The ordinance standards should encourage flood plain management that maintains the natural and beneficial functions of flood plains by maximizing the credits that could be obtained for "Higher Regulatory Standards" under the Community Rating System (CRS) Program.	Flooding	Mayor / Town Council	FEMA HMA Funds	High	High
1	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association Flood Plain Managers and encourage active participation.	Flooding	Mayor / Town Council	Local	High	High
1	Consider large lot size restrictions on flood prone areas designated on Flood Insurance Rate Maps. Amend the local flood zone ordinance.	Flooding	Mayor / Town Council	Local	Low	Low
1	Evaluate additional flood zone restrictions on land use, such as prohibition of storage of buoyant materials, storage of hazardous materials, and restrictive development of flood ways, among others.	Flooding	Mayor / Town Council	Local	Low	Low
1	Amend flood zone ordinance to require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	Flooding	Mayor / Town Council	Local	High	High
1	Enact the International Code Series building and technical codes and appoint a Local Building Official to administer and enforce the codes.	All	Mayor / Town Council	Local	Medium	Moderate
1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	All	Mayor / Town Council	Local	Medium	Moderate

1	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of “hurricane clips.”	High Winds, Hurricanes, Tornadoes, windstorm	Mayor / Town Council	Local	Medium	Moderate
1	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	Fire	Mayor / Town Council	Local	High	High
1	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	All	Mayor / Town Council	Local	High	High
1	Enact local ordinance that require community storm shelters within sizeable mobile home parks and subdivisions.	All	Mayor / Town Council	Local	High	High
1	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	All	Mayor / Town Council	FEMA HMA Funds	High	High
1	Promote the adoption/enforcement of storm water management regulations that maintain pre-development runoff rates.	Flooding / Hurricane	Dale County EMA / Engineer	Local	Medium	Moderate
1	Support legislation to establish a State dam safety program.	Flooding	Mayor / Town Council	Local	High	High
1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.	All	Dale County EMA	Local	High	High
1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	All	Local Engineer	FEMA HMA Funds	Medium	Moderate
1	Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Wildfire	Fire Department	FEMA HMA Funds	Low	Low
2	Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	Medium	Moderate

2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Hurricane, High Winds, Tornadoes	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	Low	Low
2	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	All	Local Engineer	Local	Medium	Moderate
2	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Flooding	Dale County EMA / Local Engineer	Local	Low	Low
2	Install lightning and/or surge protection on existing critical facilities.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Conduct ongoing tree trimming programs along power lines.	High Winds, Tornadoes, Hurricane	Mayor / Town Council / Local Engineer	TBD	High	High
2	Install backup power generators for critical facilities.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
3	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	All	Dale County EMA	Local	Low	Low
3	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	All	Dale County EMA	Local	Medium	Moderate
3	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	All	Dale County EMA	Local	Medium	Moderate
3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	All	Dale County EMA	Local	Medium	Moderate
3	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Flooding	Dale County EMA	Local	Medium	Moderate
3	Participate in the “Turn Around Don’t Drown” program by purchasing and installing signs in known flash flood bridge overpass locations.	Flash Flood	Mayor / Town Council / Dale County EMA	Local	High	High

3	Arrange with the Multiple Listing Service (MLS) to require floodplain location disclosure as a condition for each real estate listing.	Flooding	Dale County EMA	Local	Low	Low
3	Consider the enactment of a local ordinance or state law to require floodplain location disclosure when a property is listed for sale.	Flooding	Mayor / Town Council	Local	Low	Low
3	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	All	Dale County EMA	Local	Medium	Moderate
3	Distribute hazard mitigation brochures to students through area schools.	All	Dale County EMA	Local	Low	Low
3	Distribute the 2021 plan to local officials, stakeholders, and interested individuals through internet download.	All	Dale County EMA	Local	High	High
3	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Flooding	Dale County EMA / Local Engineer	Local	Medium	Moderate
3	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	All	Dale County EMA	Local	Medium	Moderate
3	Promote the use of weather radios in households and businesses.	All	Dale County EMA	Local	High	High
3	Require the installation of weather radios in all public buildings and places of public assembly.	All	Mayor / Town Council / Dale County EMA	Local	High	High
3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
3	Increase and enhance the county's ability to coordinate and disseminate public information regarding threats, evacuations and shelters through a variety of media.	All	Dale County EMA	TBD	High	High
3	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Hurricane, Tornadoes	Dale County EMA	FEMA HMA Funds	High	High
3	Upgrade critical communications infrastructure.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
4	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	Medium	Moderate
4	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	All	Local Engineer / Dale County EMA	TBD	Medium	Moderate
4	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	All	Local Engineer / Dale County EMA	Local	High	High
4	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	All	Local Engineer	Local	Low	Low
4	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Drought	Mayor / Town Council / Dale County EMA	Local	Medium	Moderate
5	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Flooding	Local Engineer	Local	High	High
5	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Flooding	Local Engineer / Mayor / Town Council	FEMA HMA Funds	High	High

5	Construct new community safe rooms in accessible locations and add safe rooms within new and existing public and institutional buildings, such as schools, colleges and universities, senior centers, community centers, hospitals and government buildings.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
5	Pursue grant funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	Tornadoes, Hurricanes, Tropical Storms	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
5	Encourage the construction of safe rooms in new and existing homes and buildings.	All	Mayor / Town Council / Dale County EMA	Local	High	High

City of Daleville Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	All	Mayor / City Council	Local	High	High
1	Integrate the findings and recommendations of this plan into comprehensive plan amendments for jurisdictions with active comprehensive planning programs.	All	Mayor / City Council	Local	Medium	Moderate
1	Prepare a five-year capital improvements plan (CIP) to include capital projects that implements the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	All	Mayor / City Council	TBD	Medium	Moderate

1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geo hazards, major drainages structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	All	Dale County EMA	FEMA HMA Funds	High	High
1	Integrate FEMA HAZUS-MH applications for hazard loss estimations within local GIS programs. Maintain up-to-date data within GIS to apply the full loss estimation capabilities of HAZUS.	All	Dale County EMA	FEMA HMA Funds	Medium	Moderate
1	Document the depths of flooding immediately after each event. Enter and maintain these historical records in GIS.	All	Dale County EMA	TBD	High	High
1	Carry out detailed planning and engineering studies for sub-basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Flooding	City Engineer	FEMA HMA Funds	Medium	Moderate
1	Identify existing culturally or socially significant structures and critical facilities within participating jurisdictions that have the most potential for losses from natural hazard events and identify needed structural upgrades.	All	City Engineer	TBD	Medium	Moderate
1	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Flash Flood	City Engineer	FEMA HMA Funds	Medium	Moderate
1	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	Fire	Fire Department	Local	Medium	Moderate
1	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	Flooding	City Engineer	FEMA HMA Funds	Medium	Moderate
1	Consider large lot size restrictions on flood prone areas designated on Flood Insurance Rate Maps.	Flooding	City Engineer / Dale County EMA	Local	Low	Low
1	Evaluate additional land use restrictions within designated flood zones, such as prohibition of storage of buoyant materials, storage of hazardous materials, and restrictive development of flood ways, among others.	Flooding	City Engineer / Dale County EMA	Local	Low	Low
1	Require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	Flooding	City Engineer / Dale County EMA	Local	Medium	Moderate
1	Enact local ordinance that require community storm shelters within sizeable mobile home parks and subdivisions.	All	City Engineer / Mayor / City Council	Local	High	High
1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	All	City Engineer	Local	Medium	Moderate
1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator and FEMA's training center in Emmitsburg, Maryland.	Flooding	Mayor / City Council / Dale County EMA	Local	High	High



1	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.	All	Mayor / City Council / Dale County EMA	Local	High	High
1	Promote the adoption of uniform flood hazard prevention ordinance among all NFIP communities. The ordinance standards should encourage flood plain management that maintains the natural and beneficial functions of flood plains by maximizing the credits that could be obtained for “Higher Regulatory Standards” under the Community Rating System (CRS) Program.	Flooding	Mayor / City Council / Dale County EMA	FEMA HMA Funds	High	High
1	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association Flood Plain Managers and encourage active participation.	Flooding	Mayor / City Council / Dale County EMA	Local	High	High
1	Participate in the “Turn Around Don’t Drown” program by purchasing and installing signs in known flash flood bridge overpass locations.	Flash Flood	Mayor / City Council / Dale County EMA	Local	High	High
1	Enact the International Code Series building and technical codes and appoint a Local Building Official to administer and enforce the codes.	All	Mayor / City Council	Local	Medium	Moderate
1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	All	City Engineer / Mayor / City Council	Local	Medium	Moderate
1	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of “hurricane clips.”	Hurricanes, Tornadoes, Wind storms	City Engineer	Local	Medium	Moderate
1	Relocate existing utility lines underground, where feasible and cost effective, and require, through local subdivision and land development regulations, the placement of all new utility lines underground for large residential subdivisions and commercial developments.	All	Mayor / City Council / City Engineer	FEMA HMA Funds	Medium	Moderate
1	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	Fire	Mayor / City Council	Local	High	High
1	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	All	Mayor / City Council	Local	High	High
1	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	All	Mayor / City Council	Local	High	High
1	Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater.	Flooding, Flash Flood	Mayor / City Council	Local	Low	Low
1	Promote the adoption/enforcement of storm water management regulations that maintain pre-development runoff rates.	Flooding	Dale County EMA / City Engineer	Local	Medium	Moderate
1	Develop, adopt and implement subdivision regulations that require proper storm water infrastructure design and construction.	All	Dale County EMA / City Engineer	Local	High	High
1	Support legislation to establish a State dam safety program.	Flooding	Mayor / City Council	Local	High	High
1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.	All	Dale County EMA	Local	High	High

1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	All	City Engineer	FEMA HMA Funds	Medium	Moderate
1	Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Wildfire	Fire Department	FEMA HMA Funds	Low	Low
2	Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Flooding	Mayor / City Council / Dale County EMA	FEMA HMA Funds	High	High
2	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Flooding	Mayor / City Council / Dale County EMA	FEMA HMA Funds	High	High
2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Flooding	Mayor / City Council / Dale County EMA	FEMA HMA Funds	High	High
2	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Flooding	Mayor / City Council / Dale County EMA	FEMA HMA Funds	Medium	Moderate
2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	All	Mayor / City Council / Dale County EMA	FEMA HMA Funds	Low	Low
2	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Flooding	Mayor / City Council / Dale County EMA	FEMA HMA Funds	High	High
2	Retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	All	Mayor / City Council / Dale County EMA	FEMA HMA Funds	High	High
2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	All	City Engineer	Local	Medium	Moderate
2	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Flooding	Dale County EMA / City Engineer	Local	Low	Low
2	Install lightning and/or surge protection on existing critical facilities.	All	Mayor / City Council / Dale County EMA	FEMA HMA Funds	High	High
2	Conduct ongoing tree trimming programs along power lines.	Tornadoes, Hurricanes, High Winds	Mayor / City Council / Dale County EMA	TBD	High	High
2	Install backup power generators for critical facilities.	All	Mayor / City Council / Dale County EMA	FEMA HMA Funds	High	High
3	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	All	Dale County EMA	Local	Low	Low
3	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures,	Hurricane	Dale County EMA	Local	Medium	Moderate

	such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.					
3	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	All	Dale County EMA	Local	Medium	Moderate
3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	All	Dale County EMA	Local	Medium	Moderate
3	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Flooding	Dale County EMA	Local	Medium	Moderate
3	Arrange with the Multiple Listing Service (MLS) to require floodplain location disclosure as a condition for each real estate listing.	Flooding	Dale County EMA	Local	Low	Low
3	Consider the enactment of a local ordinance or state law to require floodplain location disclosure when a property is listed for sale.	Flooding	Mayor / City Council	Local	Low	Low
3	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	All	Dale County EMA	Local	Medium	Moderate
3	Distribute hazard mitigation brochures to students through area schools.	All	Dale County EMA	Local	Low	Low
3	Distribute the 2021 plan to local officials, stakeholders, and interested individuals through internet download.	All	Dale County EMA	Local	High	High
3	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Flooding	City Engineer / Dale County EMA	Local	Medium	Moderate
3	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	All	Dale County EMA	Local	Medium	Moderate
3	Promote the use of weather radios in households and businesses.	All	Dale County EMA	Local	High	High
3	Require the installation of weather radios in all public buildings and places of public assembly.	All	Mayor / City Council / Dale County EMA	Local	High	High
3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	All	Mayor / City Council / Dale County EMA	FEMA HMA Funds	High	High
3	Increase and enhance the county's ability to coordinate and disseminate public information regarding threats, evacuations and shelters through a variety of media.	All	Dale County EMA	TBD	High	High
3	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Tornadoes	Dale County EMA	FEMA HMA Funds	High	High
3	Upgrade critical communications infrastructure.	All	Mayor / City Council / Dale County EMA	FEMA HMA Funds	High	High

4	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	Flooding	Mayor / City Council / Dale County EMA	FEMA HMA Funds	Medium	Moderate
4	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Flooding	City Engineer / Dale County EMA	TBD	Medium	Moderate
4	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.		City Engineer / Dale County EMA	Local	High	High
4	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).		City Engineer	Local	Low	Low
4	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Drought	Mayor / City Council / Dale County EMA	Local	Medium	Moderate
5	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.		City Engineer	Local	High	High
5	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Flooding	City Engineer / Mayor	FEMA HMA Funds	High	High
5	Construct new community safe rooms in accessible locations and add safe rooms within new and existing public and institutional buildings, such as schools, colleges and universities, senior centers, community centers, hospitals and government buildings.	All	Mayor / City Council / Dale County EMA	FEMA HMA Funds	High	High
5	Pursue grant funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	Hurricanes, Tornadoes, Tropical Storms	Mayor / City Council / Dale County EMA	FEMA HMA Funds	High	High
5	Encourage the construction of safe rooms in new and existing homes and buildings.	All	Mayor / City Council / Dale County EMA	Local	High	High

Daleville City Schools Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Encourage the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	High Winds, Severe Storms, Tornadoes, Hurricanes	Governing Body/City Engineer	HMGP, PDM, USDA	Low	Low
1	Retrofit school with community shelters.	High Winds, Severe Storms, Tornadoes, Hurricanes	Daleville City Schools	HMGP, PDM, USDA	Low	Low
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
4	Provide isolation rooms in school facilities for pandemic children until they can be picked up.	High Winds	Daleville City Schools	HMGP/Local	High	Moderate

5	Promote the addition of a generator to all critical facilities.	All	Dale County EMA, Local Governments	HMGP/PDM	High	Moderate
5	Seek funding for generators to all critical facilities.	All	Dale County EMA, Local Governments	HMGP/PDM	High	Moderate
5	Maintain existing emergency generators to provide back-up power to critical facilities	All	Dale County EMA, Local Officials, City Council	HMGP/Local	High	Moderate
6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Dale County EMA, City Council	Local	High	High
6	Continue utilization of website and social media with timely information for citizens	All	Dale County EMA	Local	High	High
6	Include safety strategies for severe weather in driver education classes and materials.	Winter / Ice Storms	Dale County EMA, Daleville City Schools	Local	High	High
2, 6	Distribute hazard mitigation brochures to area schools	All	Dale County EMA	Local	High	High

### Town of Grimes Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	All	Mayor / City Council	Local	High	High
1	Prepare a five-year capital improvements plan (CIP) to include capital projects that implements the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	All	Mayor / City Council	TBD	Medium	Moderate
1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geo hazards, major drainages structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	All	Dale County EMA / E911	FEMA HMA Funds	High	High
1	Integrate FEMA HAZUS-MH applications for hazard loss estimations within local GIS programs. Maintain up-to-date data within GIS to apply the full loss estimation capabilities of HAZUS.	All	Dale County EMA / E911	FEMA HMA Funds	Medium	Moderate
1	Document the depths of flooding immediately after each event. Enter and maintain these historical records in GIS.	Flooding	Dale County EMA / E911 / Local Engineer	Local	High	High
1	Identify existing culturally or socially significant structures and critical facilities that have the most potential for losses from natural hazard events and identify needed structural upgrades.	All	Local Engineer	TBD	Medium	Moderate
1	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for	Flash Flood	Local Engineer		Medium	Moderate



	design year floods, and develop a program for construction upgrades as appropriate.			FEMA HMA Funds		
1	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	Fire	Fire Department	Local	Medium	Moderate
1	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	Flooding	Local Engineer	FEMA HMA Funds	Medium	Moderate
1	Enact the International Code Series building and technical codes and appoint a Local Building Official to administer and enforce the codes.	All	Mayor / City Council	Local	Medium	Moderate
1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	All	Mayor / City Council	Local	Medium	Moderate
1	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips."	Tornadoes, Hurricanes, wind storms	Mayor / City Council	Local	Medium	Moderate
1	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	Fire	Mayor / City Council	Local	High	High
1	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	All	Mayor / City Council	Local	High	High
1	Enact local ordinance that require community storm shelters within sizeable mobile home parks and subdivisions.	All	Mayor / City Council	Local	High	High
1	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	All	Mayor / City Council	FEMA HMA Funds	High	High
1	Support legislation to establish a State dam safety program.	Flooding	Mayor / City Council	Local	High	High
1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	All	Local Engineer	FEMA HMA Funds	Medium	Moderate
1	Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Wildfire	Fire Department	FEMA HMA Funds	Low	Low

2	Retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	All	Local Engineer	Local	Medium	Moderate
2	Install lightning and/or surge protection on existing critical facilities.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Conduct ongoing tree trimming programs along power lines.	Hurricanes, Tornadoes, wind storms	Mayor / Town Council / Dale County EMA	TBD	High	High
2	Install backup power generators for critical facilities.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
3	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Hurricanes	Dale County EMA	Local	Medium	Moderate
3	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	All	Dale County EMA	Local	Medium	Moderate
3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	All	Dale County EMA	Local	Medium	Moderate
3	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Flooding	Dale County EMA	Local	Medium	Moderate
3	Participate in the “Turn Around Don’t Drown” program by purchasing and installing signs in known flash flood bridge overpass locations.	Flash Flood	Mayor / Town Council / Dale County EMA	Local	High	High
3	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	All	Dale County EMA	Local	Medium	Moderate

3	Distribute hazard mitigation brochures to students through area schools.	All	Dale County EMA	Local	Low	Low
3	Distribute the 2021 plan to local officials, stakeholders, and interested individuals through internet download.	All	Dale County EMA	Local	Low	Low
3	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	All	Dale County EMA	Local	Medium	Moderate
3	Promote the use of weather radios in households and businesses.	All	Dale County EMA	Local	High	High
3	Require the installation of weather radios in all public buildings and places of public assembly.	All	Mayor / Town Council / Dale County EMA	Local	High	High
3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
3	Increase and enhance the county's ability to coordinate and disseminate public information regarding threats, evacuations and shelters through a variety of media.	All	Dale County EMA	TBD	High	High
3	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Tornadoes	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
3	Upgrade critical communications infrastructure.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
4	Increase open space acquisitions through the FEMA HMA Grant Programs and other acquisition efforts.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	Medium	Moderate
4	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Flooding	Local Engineer	TBD	Medium	Moderate
4	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	Flooding	Mayor / Town Council	Local	High	High
4	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	Earthquakes / Landslides	Local Engineer	Local	Low	Low
4	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Drought	Mayor / Town Council / Dale County EMA	Local	Medium	Moderate

1,3	Adopt floodplain management regulations to meet NFIP requirements for reducing flood hazards	Flooding	Town Administration	Local	Low	Low
5	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Flooding	Local Engineer	Local	High	High
5	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Flooding	Local Engineer / Mayor / Town Council	TBD	High	High
5	Construct new community safe rooms in accessible locations and add safe rooms within new and existing public and institutional buildings, such as schools, colleges and universities, senior centers, community centers, hospitals and government buildings.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
5	Pursue grant funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	Hurricanes, Tornadoes, Tropical Storms	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
5	Encourage the construction of safe rooms in new and existing homes and buildings.	All	Mayor / Town Council / Dale County EMA	Local	High	High

Town of Level Plains Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	All	Mayor / Town Council	Local	High	High

1	Prepare a five-year capital improvements plan (CIP) to include capital projects that implements the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-	All	Mayor / Town Council	TBD	Medium	Moderate
1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geohazards, major drainages structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	All	Dale County EMA / E911	FEMA HMA Funds	High	High
1	Integrate FEMA HAZUS-MH applications for hazard loss estimations within local GIS programs. Maintain upto- date data within GIS to apply the full loss estimation capabilities of HAZUS.	All	Dale County EMA / E911	FEMA HMA Funds	Medium	Moderate
1	Document the depths of flooding immediately after each event. Enter and maintain these historical records in GIS.	Flooding	Dale County EMA / E911 / Local Engineer	Local	High	High
1	Carry out detailed planning and engineering studies for sub-basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Flooding	Local Engineer	FEMA HMA Funds	Medium	Moderate
1	Identify existing culturally or socially significant structures and critical facilities that have the most potential for losses from natural hazard events and identify needed structural upgrades.	All	Local Engineer	TBD	Medium	Moderate
1	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas for compliance with current design standards year floods, and develop a program for construction upgrades.	Flash Flood	Local Engineer	FEMA HMA Funds	Medium	Moderate
1	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	Fire	Fire Department	Local	Medium	Moderate
1	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	Flooding	Local Engineer	FEMA HMA Funds	Medium	Moderate
1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator and FEMA's training center in Emmitsburg, Maryland.	Flooding	Mayor / Town Council / Dale County EMA	Local	High	High

1	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.		Mayor / Town Council / Dale County EMA	Local	High	High
1	Promote the adoption of uniform flood hazard prevention ordinance among all NFIP communities. The ordinance standards should encourage flood plain management that maintains the natural and beneficial functions of flood plains by maximizing the credits that could be obtained for “Higher Regulatory Standards” under the Community Rating System (CRS) Program.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
1	Maintain membership in the Association of State Flood Plain Managers and the Alabama Association Flood Plain Managers and encourage active participation.	Flooding	Mayor / Town Council / Dale County EMA	Local	High	High
1	Consider large lot size restrictions on flood prone areas designated on Flood Insurance Rate Maps. Amend the local flood zone ordinance.	Flooding	Mayor / Town Council / Dale County EMA	Local	Low	Low
1	Evaluate additional flood zone restrictions on land use, such as prohibition of storage of buoyant materials, storage of hazardous materials, and restrictive development of flood ways, among others.	Flooding	Mayor / Town Council / Dale County EMA	Local	Low	Low
1	Amend flood zone ordinance to require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	Flooding	Mayor / Town Council / Dale County EMA	Local	High	High
1	Enact the International Code Series building and technical codes and appoint a Local Building Official to administer and enforce the codes.	All	Mayor / Town Council	Local	Medium	Moderate
1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	All	Mayor / Town Council	Local	Medium	Moderate
1	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of “hurricane clips.”	Hurricanes, Tornadoes, wind storms	Mayor / Town Council	Local	Medium	Moderate



1	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	Fire	Mayor / Town Council	Local	High	High
1	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	All	Mayor / Town Council	Local	High	High
1	Enact local ordinance that require community storm shelters within sizeable mobile home parks and subdivisions.	Hurricanes, Tornadoes, wind storms	Mayor / Town Council	Local	High	High
1	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	All	Mayor / Town Council	FEMA HMA Funds	High	High
1	Promote the adoption/enforcement of storm water management regulations that maintain pre-development runoff rates.	Flooding	Dale County EMA / Local Engineer	Local	Medium	Moderate
1	Support legislation to establish a State dam safety program.	Flooding	Mayor / Town Council	Local	High	High
1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.		Dale County EMA	Local	High	High
1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	All	Local Engineer	FEMA HMA Funds	Medium	Moderate
1	Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Wildfire	Fire Department	FEMA HMA Funds	Low	Low
2	Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High

2	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	Medium	Moderate
2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	Low	Low
2	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	All	Local Engineer	Local	Medium	Moderate
2	Promote the purchase of insurance coverage by property owners and renters for flood damages in high risk areas.	Flooding	Dale County EMA	Local	Low	Low
2	Install lightning and/or surge protection on existing critical facilities.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Conduct ongoing tree trimming programs along power lines.	Hurricanes, Tornadoes, heavy winds	Mayor / Town Council / Local Engineer	TBD	High	High
2	Install backup power generators for critical facilities.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
3	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	All	Dale County EMA	Local	Low	Low
3	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Hurricanes, Tornadoes, Tropical Storms	Dale County EMA	Local	Medium	Moderate
3	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	All	Dale County EMA	Local	Medium	Moderate
3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to	All			Medium	Moderate

	assist business owners in recovering from a disaster event in a timely manner.		Dale County EMA	Local		
3	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Flooding	Dale County EMA	Local	Medium	Moderate
3	Participate in the “Turn Around Don’t Drown” program by purchasing and installing signs in known flash flood bridge overpass locations.	Flash Flood	Mayor / Town Council / Dale County EMA	Local	High	High
3	Arrange with the Multiple Listing Service (MLS) to require floodplain location disclosure as a condition for each real estate listing.	Flooding	Dale County EMA	Local	Low	Low
3	Consider the enactment of a local ordinance or state law to require floodplain location disclosure when a property is listed for sale.	Flooding	Mayor / Town Council	Local	Low	Low
3	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	All	Dale County EMA	Local	Medium	Moderate
3	Distribute hazard mitigation brochures to students through area schools.	All	Dale County EMA	Local	Low	Low
3	Distribute the 2021 plan to local officials, stakeholders, and interested individuals through internet download.	All	Dale County EMA	Local	High	High
3	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Flooding	Dale County EMA / Local Engineer	Local	Medium	Moderate
3	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	All	Dale County EMA	Local	Medium	Moderate
3	Promote the use of weather radios in households and businesses.	All	Dale County EMA	Local	High	High

3	Require the installation of weather radios in all public buildings and places of public assembly.	All	Mayor / Town Council / Dale County EMA	Local	High	High
3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
3	Increase and enhance the county's ability to coordinate and disseminate public information regarding threats, evacuations and shelters through a variety of media.	All	Dale County EMA	Local	High	High
3	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Tornadoes	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
3	Upgrade critical communications infrastructure.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
4	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	Medium	Moderate
4	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.		Dale County EMA / Local Engineer	TBD	Medium	Moderate
4	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.		Dale County EMA / Local Engineer	Local	High	High
4	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).		Local Engineer	Local	Low	Low
4	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Drought	Mayor / Town Council / Dale County EMA	Local	Medium	Moderate

5	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Flooding, Flash Floods, Tropical Storms	Local Engineer	Local	High	High
5	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Flooding	Local Engineer / Mayor / Town Council	FEMA HMA Funds	High	High
5	Construct new community safe rooms in accessible locations and add safe rooms within new and existing public and institutional buildings, such as schools, colleges and universities, senior centers, community centers, hospitals and government buildings.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
5	Pursue grant funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	Hurricanes, Tornadoes, wind storms	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
5	Encourage the construction of safe rooms in new and existing homes and buildings.	All	Mayor / Town Council / Dale County EMA	Local	High	High

Town of Midland City Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	All	Mayor / Town Council	Local	High	High
1	Prepare a five-year capital improvements plan (CIP) to include capital projects that implements the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	All	Mayor / Town Council	TBD	Medium	Moderate
1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geohazards, major drainages structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	All	Dale County EMA / E911	FEMA HMA Funds	High	High
1	Integrate FEMA HAZUS-MH applications for hazard loss estimations within local GIS programs. Maintain up to- date data within GIS to apply the full loss estimation capabilities of HAZUS.	All	Dale County EMA / E911	FEMA HMA Funds	Medium	Moderate
1	Document the depths of flooding immediately after each event. Enter and maintain these historical records in GIS.	Flooding	Dale County EMA / E911 / Local Engineer	Local	High	High



1	Carry out detailed planning and engineering studies for sub-basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Flooding	Local Engineer	FEMA HMA Funds	Medium	Moderate
1	Identify existing culturally or socially significant structures and critical facilities that have the most potential for losses from natural hazard events and identify needed structural upgrades.	All	Local Engineer	TBD	Medium	Moderate
1	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Flash Floods	Local Engineer	FEMA HMA Funds	Medium	Moderate
1	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	Fire	Fire Department	Local	Medium	Moderate
1	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	Flooding	Local Engineer	FEMA HMA Funds	Medium	Moderate
1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator and FEMA's training center in Emmitsburg, Maryland.	Flooding	Mayor / Town Council / Dale County EMA	Local	High	High
1	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.	Flooding	Mayor / Town Council / Dale County EMA	Local	High	High
1	Promote the adoption of uniform flood hazard prevention ordinance among all NFIP communities. The ordinance standards should encourage flood plain management that maintains the natural and beneficial functions of flood plains by maximizing the credits that could be obtained for "Higher Regulatory Standards" under the Community Rating System (CRS) Program.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
1	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association Flood Plain Managers and encourage active participation.	Flooding	Mayor / Town Council / Dale County EMA	Local	High	High

1	Consider large lot size restrictions on flood prone areas designated on Flood Insurance Rate Maps. Amend the local flood zone ordinance.	Flooding	Mayor / Town Council / Dale County EMA	Local	Low	Low
1	Evaluate additional flood zone restrictions on land use, such as prohibition of storage of buoyant materials, storage of hazardous materials, and restrictive development of flood ways, among others.	Flooding	Mayor / Town Council / Dale County EMA	Local	Low	Low
1	Amend flood zone ordinance to require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	Flooding	Mayor / Town Council / Dale County EMA	Local	High	High
1	Enact the International Code Series building and technical codes and appoint a Local Building Official to administer and enforce the codes.	All	Mayor / Town Council	Local	Medium	Moderate
1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	All	Mayor / Town Council	Local	Medium	Moderate
1	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips."	Hurricanes, Tornadoes, wind storms	Mayor / Town Council	Local	Medium	Moderate
1	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	Fire	Mayor / Town Council	Local	High	High
1	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	All	Mayor / Town Council	Local	High	High
1	Enact local ordinance that require community storm shelters within sizeable mobile home parks and subdivisions.	Hurricanes, Tornadoes, wind storms	Mayor / Town Council	Local	High	High

1	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	All	Mayor / Town Council	FEMA HMA Funds	High	High
1	Promote the adoption/enforcement of storm water management regulations that maintain pre-development runoff rates.	Flooding	Dale County EMA / Local Engineer	Local	Medium	Moderate
1	Support legislation to establish a State dam safety program.	Flooding	Mayor / Town Council	Local	High	High
1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.		Dale County EMA	Local	High	High
1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	All	Local Engineer	FEMA HMA Funds	Medium	Moderate
1	Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Wildfire	Fire Department	FEMA HMA Funds	Low	Low
2	Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with	Flooding			Medium	Moderate

	emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.		Mayor / Town Council / Dale County EMA	FEMA HMA Funds		
2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	Low	Low
2	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	All	Local Engineer	Local	Medium	Moderate
2	Promote the purchase of insurance coverage by property owners and renters for flood damages in high risk areas.	Flooding	Dale County EMA / Local Engineer	Local	Low	Low
2	Install lightning and/or surge protection on existing critical facilities.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Conduct ongoing tree trimming programs along power lines.	Hurricanes, Tornadoes, wind storms	Mayor / Town Council / Local Engineer	FEMA HMA Funds	High	High
2	Install backup power generators for critical facilities.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
3	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	All	Dale County EMA	Local	Low	Low
3	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Hurricanes, Tornadoes, Tropical Storms	Dale County EMA	Local	Medium	Moderate
3	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	All	Dale County EMA	Local	Medium	Moderate

3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	All	Dale County EMA	Local	Medium	Moderate
3	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Flooding	Dale County EMA	Local	Medium	Moderate
3	Participate in the “Turn Around Don’t Drown” program by purchasing and installing signs in known flash flood bridge overpass locations.	Flash Floods	Mayor / Town Council / Dale County EMA	Local	High	High
3	Arrange with the Multiple Listing Service (MLS) to require floodplain location disclosure as a condition for each real estate listing.	Flooding	Dale County EMA	Local	Low	Low
3	Consider the enactment of a local ordinance or state law to require floodplain location disclosure when a property is listed for sale.	Flooding	Mayor / Town Council	Local	Low	Low
3	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.		Dale County EMA	Local	Medium	Moderate
3	Distribute hazard mitigation brochures to students through area schools.	All	Dale County EMA	Local	High	High
3	Distribute the 2021 plan to local officials, stakeholders, and interested individuals through internet download.	All	Dale County EMA	Local	High	High
3	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	All	Local Engineer / Dale County EMA	Local	Medium	Moderate
3	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	All	Dale County EMA	Local	Medium	Moderate

3	Promote the use of weather radios in households and businesses.	All	Dale County EMA	Local	High	High
3	Require the installation of weather radios in all public buildings and places of public assembly.	All	Mayor / Town Council / Dale County EMA	Local	High	High
3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
3	Increase and enhance the county's ability to coordinate and disseminate public information regarding threats, evacuations and shelters through a variety of media.	All	Dale County EMA	TBD	High	High
3	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Tornadoes	Dale County EMA	FEMA HMA Funds	High	High
3	Upgrade critical communications infrastructure.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
4	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	Medium	Moderate
4	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Flooding	Local Engineer / Dale County EMA	TBD	Medium	Moderate
4	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.		Local Engineer / Dale County EMA	Local	High	High
4	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).		Local Engineer	Local	Low	Low
4	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Drought	Mayor / Town Council / Dale County EMA	Local	Medium	Moderate



5	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Flooding	Local Engineer	Local	High	High
5	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Flooding	Local Engineer / Mayor / Town Council	FEMA HMA Funds	High	High
5	Construct new community safe rooms in accessible locations and add safe rooms within new and existing public and institutional buildings, such as schools, colleges and universities, senior centers, community centers, hospitals and government buildings.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
5	Pursue grant funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	Hurricanes, Tornadoes, Tropical Storms	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
5	Encourage the construction of safe rooms in new and existing homes and buildings.	All	Mayor / Town Council / Dale County EMA	Local	High	High

Town of Napier Field Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	All	Mayor / Town Council	Local	High	High
1	Prepare a five-year capital improvements plan (CIP) to include capital projects that implements the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	All	Mayor / Town Council	TBD	Medium	Moderate
1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood	All	Dale County EMA / E911			

	zones, geohazards, major drainages structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.			FEMA HMA Funds	High	High
1	Integrate FEMA HAZUS-MH applications for hazard loss estimations within local GIS programs. Maintain up to- date data within GIS to apply the full loss estimation capabilities of HAZUS.	All	Dale County EMA / E911	FEMA HMA Funds	Medium	Moderate
1	Document the depths of flooding immediately after each event. Enter and maintain these historical records in GIS.	Flooding	Dale County EMA / E911 / Local Engineer	Local	High	High
1	Identify existing culturally or socially significant structures and critical facilities that have the most potential for losses from natural hazard events and identify needed structural upgrades.	All	Local Engineer	TBD	Medium	Moderate
1	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades.	Flash Floods	Local Engineer	FEMA HMA Funds	Medium	Moderate
1	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	Fire	Fire Department	Local	Medium	Moderate
1	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	Flooding	Local Engineer	FEMA HMA Funds	Medium	Moderate
1	Enact the International Code Series building and technical codes and appoint a Local Building Official to administer and enforce the codes.	All	Mayor / Town Council	Local	Medium	Moderate
1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	All	Mayor / Town Council	Local	Medium	Moderate
1	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of “hurricane clips.”	Hurricanes, Tornadoes, wind storms	Mayor / Town Council	Local	Medium	Moderate

1	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	Fire	Mayor / Town Council	Local	High	High
1	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	All	Mayor / Town Council	Local	High	High
1	Enact local ordinance that require community storm shelters within sizeable mobile home parks and subdivisions.	Hurricanes, Tornadoes, wind storms	Mayor / Town Council	Local	High	High
1	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	All	Mayor / Town Council	FEMA HMA Funds	High	High
1	Support legislation to establish a State dam safety program.	Flooding	Mayor / Town Council	Local	High	High
1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	All	Local Engineer	FEMA HMA Funds	Medium	Moderate
1	Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Wildfire	Fire Department	FEMA HMA Funds	Low	Low
2	Retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	All	Local Engineer	Local	Medium	Moderate
2	Install lightning and/or surge protection on existing critical facilities.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High

2	Conduct ongoing tree trimming programs along power lines.	Hurricanes, Tornadoes, wind storms	Mayor / Town Council / Local Engineer	TBD	High	High
2	Install backup power generators for critical facilities.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
3	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Hurricanes, Tornadoes, Tropical Storms	Dale County EMA	Local	Medium	Moderate
3	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	All	Dale County EMA	Local	Medium	Moderate
3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	All	Dale County EMA	Local	Medium	Moderate
3	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Flooding	Dale County EMA	Local	Medium	Moderate
3	Participate in the “Turn Around Don’t Drown” program by purchasing and installing signs in known flash flood bridge overpass locations.	Flash Floods	Mayor / Town Council / Dale County EMA	Local	High	High
3	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.		Dale County EMA	Local	Medium	Moderate
3	Distribute hazard mitigation brochures to students through area schools.	All	Dale County EMA	Local	Low	Low
3	Distribute the 2021 plan to local officials, stakeholders, and interested individuals through internet download.	All	Dale County EMA	Local	High	High
3	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	All	Dale County EMA	Local	Medium	Moderate

3	Promote the use of weather radios in households and businesses.	All	Dale County EMA	Local	High	High
3	Require the installation of weather radios in all public buildings and places of public assembly.	All	Mayor / Town Council / Dale County EMA	Local	High	High
3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
3	Increase and enhance the county's ability to coordinate and disseminate public information regarding threats, evacuations and shelters through a variety of media.	All	Dale County EMA	TBD	High	High
3	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Tornadoes	Dale County EMA	FEMA HMA Funds	High	High
3	Upgrade critical communications infrastructure.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
4	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	Medium	Moderate
4	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Flooding	Local Engineer	TBD	Medium	Moderate
4	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	Earthquakes / Landslides	Mayor / Town Council	Local	High	High
4	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	Earthquakes / Landslides	Local Engineer	Local	Low	Low
4	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Drought	Mayor / Town Council / Dale County EMA	Local	Medium	Moderate

5	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Flooding	Local Engineer	Local	High	High
5	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Flooding	Local Engineer / Mayor / Town Council	FEMA HMA Funds	High	High
1,3	Adopt floodplain management regulations to meet NFIP requirements for reducing flood hazards.	Flooding	Town Administration	Local	Low	Low
5	Construct new community safe rooms in accessible locations and add safe rooms within new and existing public and institutional buildings, such as schools, colleges and universities, senior centers, community centers, hospitals and government buildings.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
5	Pursue grant funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	Hurricanes, Tornadoes, Tropical Storms	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
5	Encourage the construction of safe rooms in new and existing homes and buildings.	All	Mayor / Town Council / Dale County EMA	Local	High	High

Town of Newton Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated	All	Mayor / Town Council	Local	High	High



	hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.					
1	Prepare a five-year capital improvements plan (CIP) to include capital projects that implements the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	All	Mayor / Town Council	TBD	Medium	Moderate
1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geohazards, major drainages structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	All	Dale County EMA / E911	FEMA HMA Funds	High	High
1	Integrate FEMA HAZUS-MH applications for hazard loss estimations within local GIS programs. Maintain up to- date data within GIS to apply the full loss estimation capabilities of HAZUS.	All	Dale County EMA / E911	FEMA HMA Funds	Medium	Moderate
1	Document the depths of flooding immediately after each event. Enter and maintain these historical records in GIS.	Flooding	Dale County EMA / E911 / Local Engineer	Local	High	High
1	Carry out detailed planning and engineering studies for sub-basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Flooding	Local Engineer	FEMA HMA Funds	Medium	Moderate
1	Identify existing culturally or socially significant structures and critical facilities that have the most potential for losses from natural hazard events and identify needed structural upgrades.	All	Local Engineer	TBD	Medium	Moderate
1	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Flash Floods	Local Engineer	FEMA HMA Funds	Medium	Moderate
1	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	Fire	Fire Department	Local	Medium	Moderate

1	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	Flooding	Local Engineer	FEMA HMA Funds	Medium	Moderate
1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator and FEMA's training center in Emmitsburg, Maryland.	Flooding	Mayor / Town Council / Dale County EMA	Local	High	High
1	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.		Mayor / Town Council / Dale County EMA	Local	High	High
1	Promote the adoption of uniform flood hazard prevention ordinance among all NFIP communities. The ordinance standards should encourage flood plain management that maintains the natural and beneficial functions of flood plains by maximizing the credits that could be obtained for "Higher Regulatory Standards" under the Community Rating System (CRS) Program.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
1	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association Flood Plain Managers and encourage active participation.	Flooding	Mayor / Town Council / Dale County EMA	Local	High	High
1	Consider large lot size restrictions on flood prone areas designated on Flood Insurance Rate Maps. Amend the local flood zone ordinance.	Flooding	Mayor / Town Council / Dale County EMA	Local	Low	Low
1	Evaluate additional flood zone restrictions on land use, such as prohibition of storage of buoyant materials, storage of hazardous materials, and restrictive development of flood ways, among others.	Flooding	Mayor / Town Council / Dale County EMA	Local	Low	Low
1	Amend flood zone ordinance to require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	Flooding	Mayor / Town Council / Dale County EMA	Local	High	High

1	Enact the International Code Series building and technical codes and appoint a Local Building Official to administer and enforce the codes.	All	Mayor / Town Council	Local	Medium	Moderate
1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	All	Mayor / Town Council	Local	Medium	Moderate
1	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of “hurricane clips.”	Hurricanes, Tornadoes, wind storms	Mayor / Town Council	Local	Medium	Moderate
1	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	Fire	Mayor / Town Council	Local	High	High
1	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	All	Mayor / Town Council	Local	High	High
1	Enact local ordinance that require community storm shelters within sizeable mobile home parks and subdivisions.	Hurricanes, Tornadoes, wind storms	Mayor / Town Council	Local	High	High
1	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	All	Mayor / Town Council	FEMA HMA Funds	High	High
1	Promote the adoption/enforcement of storm water management regulations that maintain pre-development runoff rates.	Flooding	Dale County EMA / Local Engineer	Local	Medium	Moderate
1	Support legislation to establish a State dam safety program.	Flooding	Mayor / Town Council	Local	High	High
1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.		Dale County EMA	Local	High	High

1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	All	Local Engineer	FEMA HMA Funds	Medium	Moderate
1	Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Wildfire	Fire Department	FEMA HMA Funds	Low	Low
2	Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	Medium	Moderate
2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	Low	Low
2	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	All	Local Engineer	Local	Medium	Moderate
2	Promote the purchase of insurance coverage by property owners and renters for flood damages in high risk areas.	Flooding	Dale County EMA / Local Engineer	Local	Low	Low

2	Install lightning and/or surge protection on existing critical facilities.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Conduct ongoing tree trimming programs along power lines.	Hurricanes, Tornadoes, wind storms	Mayor / Town Council / Local Engineer	TBD	High	High
2	Install backup power generators for critical facilities.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
3	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	All	Dale County EMA	Local	Low	Low
3	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Hurricanes, Tornadoes, Tropical Storms	Dale County EMA	Local	Medium	Moderate
3	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	All	Dale County EMA	Local	Medium	Moderate
3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	All	Dale County EMA	Local	Medium	Moderate
3	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Flooding	Dale County EMA	Local	Medium	Moderate
3	Participate in the “Turn Around Don’t Drown” program by purchasing and installing signs in known flash flood bridge overpass locations.	Flash Floods	Mayor / Town Council / Dale County EMA	Local	High	High
3	Arrange with the Multiple Listing Service (MLS) to require floodplain location disclosure as a condition for each real estate listing.	Flooding	Dale County EMA	Local	Low	Low
3	Consider the enactment of a local ordinance or state law to require floodplain location disclosure when a property is listed for sale.	Flooding	Mayor / Town Council	Local	Low	Low

3	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.		Dale County EMA	Local	Medium	Moderate
3	Distribute hazard mitigation brochures to students through area schools.	All	Dale County EMA	Local	Low	Low
3	Distribute the 2021 plan to local officials, stakeholders, and interested individuals through internet download.	All	Dale County EMA	Local	High	High
3	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	All	Local Engineer / Dale County EMA	Local	Medium	Moderate
3	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	All	Dale County EMA	Local	Medium	Moderate
3	Promote the use of weather radios in households and businesses.	All	Dale County EMA	Local	High	High
3	Require the installation of weather radios in all public buildings and places of public assembly.	All	Mayor / Town Council / Dale County EMA	Local	High	High
3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
3	Increase and enhance the county's ability to coordinate and disseminate public information regarding threats, evacuations and shelters through a variety of media.	All	Dale County EMA	TBD	High	High
3	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Tornadoes	Dale County EMA	FEMA HMA Funds	High	High



3	Upgrade critical communications infrastructure.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
4	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	Medium	Moderate
4	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Flooding	Local Engineer / Dale County EMA	TBD	Medium	Moderate
4	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.		Local Engineer / Dale County EMA	Local	High	High
4	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).		Local Engineer	Local	Low	Low
4	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Drought	Mayor / Town Council / Dale County EMA	Local	Medium	Moderate
5	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Flooding	Local Engineer	Local	High	High
5	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Flooding	Local Engineer / Mayor / Town Council	FEMA HMA Funds	High	High
5	Construct new community safe rooms in accessible locations and add safe rooms within new and existing public and institutional buildings, such as schools, colleges and universities, senior centers, community centers, hospitals and government buildings.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
5	Pursue grant funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	Hurricanes, Tornadoes, Tropical Storms	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
5	Encourage the construction of safe rooms in new and existing homes and buildings.	All	Mayor / Town Council / Dale County EMA	Local	High	High

City of Ozark Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	All	Mayor / City Council	Local	High	High
1	Integrate the findings and recommendations of this plan into comprehensive plan amendments for jurisdictions with active	All	Mayor / City Council	Local	Medium	Moderate
1	Prepare a five-year capital improvements plan (CIP) to include capital projects that implements the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	All	Mayor / City Council	TBD	Medium	Moderate
1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geohazards, major drainages structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	All	Dale County EMA	FEMA HMA Funds	High	High
1	Integrate FEMA HAZUS-MH applications for hazard loss estimations within local GIS programs. Maintain up to- date data within GIS to apply the full loss estimation capabilities of HAZUS.	All	Dale County EMA	FEMA HMA Funds	Medium	Moderate

1	Document the depths of flooding immediately after each event. Enter and maintain these historical records in GIS.	Flooding	Dale County EMA	TBD	High	High
1	Carry out detailed planning and engineering studies for sub-basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Flooding	City Engineer	FEMA HMA Funds	Medium	Moderate
1	Identify existing culturally or socially significant structures and critical facilities that have the most potential for losses from natural hazard events and identify needed structural upgrades.	All	City Engineer	TBD	Medium	Moderate
1	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Flash Floods	City Engineer	FEMA HMA Funds	Medium	Moderate
1	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	Fire	Fire Department	Local	Medium	Moderate
1	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	Flooding	City Engineer	FEMA HMA Funds	Medium	Moderate
1	Consider large lot size restrictions on flood prone areas designated on Flood Insurance Rate Maps. Amend the local flood zone ordinance.	Flooding	City Engineer / Dale County EMA	Local	Low	Low
1	Evaluate additional flood zone restrictions on land use, such as prohibition of storage of buoyant materials, storage of hazardous materials, and restrictive development of flood ways, among others.	Flooding	City Engineer / Dale County EMA	Local	Low	Low
1	Require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	Flooding	City Engineer / Dale County EMA	Local	Medium	Moderate
1	Enact local ordinance that require community storm shelters within sizeable mobile home parks and subdivisions.	Hurricanes, Tornadoes, wind storms	City Engineer / Mayor / City Council	Local	High	High

1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	All	City Engineer	Local	Medium	Moderate
1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator and FEMA's training center in Emmitsburg, Maryland.	Flooding	Mayor / City Council / Dale County EMA	Local	High	High
1	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.	Flooding	Mayor / City Council / Dale County EMA	Local	High	High
1	Promote the adoption of uniform flood hazard prevention ordinance among all NFIP communities. The ordinance standards should encourage flood plain management that maintains the natural and beneficial functions of flood plains by maximizing the credits that could be obtained for "Higher Regulatory Standards" under the Community Rating System (CRS) Program.	Flooding	Mayor / City Council / Dale County EMA	FEMA HMA Funds	High	High
1	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association Flood Plain Managers and encourage active participation.	Flooding	Mayor / City Council / Dale County EMA	Local	High	High
1	Participate in the "Turn Around Don't Drown" program by purchasing and installing signs in known flash flood bridge overpass locations.	Flash Floods	Mayor / City Council / Dale County EMA	Local	High	High
1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	All	City Engineer / Mayor / Dale County EMA	Local	Medium	Moderate
1	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips."	Hurricanes, Tornadoes, wind storms	Local Building Official / City Engineer	Local	Medium	Moderate
1	Relocate existing utility lines underground, where feasible and cost effective, and require, through local subdivision and land development regulations, the placement of all new utility lines	All	Local Building Official / City Engineer	FEMA HMA Funds	Medium	Moderate

	underground for large residential subdivisions and commercial developments.					
1	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	Fire	Local Building Official	Local	High	High
1	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	All	Local Building Official	Local	Medium	Moderate
1	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	All	Mayor / City Council	FEMA HMA Funds	High	High
	Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater.	Flooding	Mayor / City Council	Local	Low	Low
1	Promote the adoption/enforcement of storm water management regulations that maintain pre-development runoff rates.	Flooding	Dale County EMA / City Engineer	Local	Medium	Moderate
1	Develop, adopt and implement subdivision regulations that require proper storm water infrastructure design and construction.	Flooding	Dale County EMA / City Engineer	Local	High	High
1	Support legislation to establish a State dam safety program.	Flooding	Mayor / City Council	Local	High	High
1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.		Dale County EMA	Local	High	High
1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	All	Local Building Official / City Engineer	FEMA HMA Funds	Medium	Moderate
1	Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Wildfire	Fire Department	FEMA HMA Funds	Low	Low
2	Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Flooding	Mayor / City Council / Dale County EMA	FEMA HMA Funds	High	High

2	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Flooding	Mayor / City Council / Dale County EMA	FEMA HMA Funds	High	High
2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Flooding	Mayor / City Council / Dale County EMA	FEMA HMA Funds	High	High
2	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Flooding	Mayor / City Council / Dale County EMA	FEMA HMA Funds	Medium	Moderate
2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	All	Mayor / City Council / Dale County EMA	FEMA HMA Funds	Low	Low
2	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Flooding	Mayor / City Council / Dale County EMA	FEMA HMA Funds	High	High
2	Retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	All	Mayor / City Council / Dale County EMA	FEMA HMA Funds	High	High
2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	All	Local Building Official / City Engineer	Local	Medium	Moderate
2	Promote the purchase of insurance coverage by property owners and renters for flood damages in high risk areas.	Flooding	Dale County EMA / City Engineer	Local	Low	Low
2	Install lightning and/or surge protection on existing critical facilities.	All	Mayor / City Council / Dale County EMA	FEMA HMA Funds	High	High
2	Conduct ongoing tree trimming programs along power lines.	Hurricanes, Tornadoes, wind storms	Local Building Official / City Engineer	TBD	High	High
2	Install backup power generators for critical facilities.	All	Mayor / City Council / Dale County EMA	FEMA HMA Funds	High	High
3	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	All	Dale County EMA	Local	Low	Low



3	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Hurricanes, Tornadoes, Tropical Storms	Dale County EMA	Local	Medium	Moderate
3	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	All	Dale County EMA	Local	Medium	Moderate
3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	All	Dale County EMA	Local	Medium	Moderate
3	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Flooding	Dale County EMA	Local	Medium	Moderate
3	Arrange with the Multiple Listing Service (MLS) to require floodplain location disclosure as a condition for each real estate listing.	Flooding	Dale County EMA	Local	Low	Low
3	Consider the enactment of a local ordinance or state law to require floodplain location disclosure when a property is listed for sale.	Flooding	Mayor / City Council	Local	Low	Low
3	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.		Dale County EMA	Local	Medium	Moderate
3	Distribute hazard mitigation brochures to students through area schools.	All	Dale County EMA	Local	Low	Low
3	Distribute the 2021 plan to local officials, stakeholders, and interested individuals through internet download.	All	Dale County EMA	Local	High	High
3	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Flooding	City Engineer / Dale County EMA	Local	Medium	Moderate

3	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	All	Dale County EMA	Local	Medium	Moderate
3	Promote the use of weather radios in households and businesses.	All	Dale County EMA	Local	High	High
3	Require the installation of weather radios in all public buildings and places of public assembly.	All	Mayor / City Council / Dale County EMA	Local	High	High
3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	All	Mayor / City Council / Dale County EMA	FEMA HMA Funds	High	High
3	Increase and enhance the county's ability to coordinate and disseminate public information regarding threats, evacuations and shelters through a variety of media.	All	Dale County EMA	TBD	High	High
3	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Tornadoes	Dale County EMA	FEMA HMA Funds	High	High
3	Upgrade critical communications infrastructure.	All	Mayor / City Council / Dale County EMA	FEMA HMA Funds	High	High
4	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	Flooding	Mayor / City Council / Dale County EMA	FEMA HMA Funds	Medium	Moderate
4	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Flooding	City Engineer / Dale County EMA	TBD	Medium	Moderate
4	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.		City Engineer / Dale County EMA	Local	High	High
4	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).		Local Building Official / City Engineer	Local	Low	Low

4	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Drought	Mayor / City Council / Dale County EMA	Local	Medium	Moderate
5	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Flooding	Local Building Official / City Engineer	Local	High	High
5	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Flooding	City Engineer / Mayor / City Council	FEMA HMA Funds	High	High
5	Construct new community safe rooms in accessible locations and add safe rooms within new and existing public and institutional buildings, such as schools, colleges and universities, senior centers, community centers, hospitals and government buildings.	All	Mayor / City Council / Dale County EMA	FEMA HMA Funds	High	High
5	Pursue grant funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	Hurricanes, Tornadoes, Tropical Storms	Mayor / City Council / Dale County EMA	FEMA HMA Funds	High	High
5	Encourage the construction of safe rooms in new and existing homes and buildings.	All	Mayor / City Council / Dale County EMA	Local	High	High

## Ozark City Schools Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Provide safe rooms in school facilities for student and staff safety	High Winds	Ozark City Schools	HMGP/Ozark City Schools	High	Moderate
5	Procure and maintain generators for critical facilities	All	Ozark City Schools	HMGP/Ozark City Schools	High	Moderate
1	Encourage the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	High Winds, Severe Storms, Tornadoes, Hurricanes	Governing Body, City Engineer	HMGP, PDM, USDA	Low	Low
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Dale County EMA / SCADC	Local	Medium	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Dale County EMA, LEPC	Local	Medium	High
4	Provide isolation rooms in school facilities for pandemic children until they can be picked up.	All	Ozark City Schools	HMGP/Local	High	Moderate
5	Promote the addition of a generator to all critical facilities.	All	Dale County EMA, Local Governments	HMGP/PDM	High	Moderate
5	Seek funding for generators to all critical facilities.	All	Dale County EMA, Local Governments	HMGP/PDM	High	Moderate
5	Maintain existing emergency generators to provide back-up power to critical facilities	All	Dale County EMA, Local Officials/City Council	HMGP/Local	High	Moderate
6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Dale County EMA, Local Governments	Local	High	High
6	Continue utilization of website and social media with timely information for citizens	All	Dale County EMA	Local	High	High

2, 6	Distribute hazard mitigation brochures to area schools for distribution to students.	All	Dale County EMA	Local	High	High
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Town of Pinckard Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	All	Mayor / Town Council	Local	High	High
1	Prepare a five-year capital improvements plan (CIP) to include capital projects that implements the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	All	Mayor / Town Council	TBD	Medium	Moderate
1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geohazards, major drainages structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	All	Dale County EMA / E911	FEMA HMA Funds	High	High
1	Integrate FEMA HAZUS-MH applications for hazard loss estimations within local GIS programs. Maintain up to- date data within GIS to apply the full loss estimation capabilities of HAZUS.	All	Dale County EMA / E911 / Local Engineer	FEMA HMA Funds	Medium	Moderate

1	Document the depths of flooding immediately after each event. Enter and maintain these historical records in GIS.	Flooding	Dale County EMA / E911 / Local Engineer	Local	High	High
1	Carry out detailed planning and engineering studies for sub-basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Flooding	Local Engineer	FEMA HMA Funds	Medium	Moderate
1	Identify existing culturally or socially significant structures and critical facilities that have the most potential for losses from natural hazard events and identify needed structural upgrades.	All	Local Engineer	TBD	Medium	Moderate
1	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Flash Floods	Local Engineer	FEMA HMA Funds	Medium	Moderate
1	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	Fire	Fire Department	Local	Medium	Moderate
1	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	Flooding	Local Engineer	FEMA HMA Funds	Medium	Moderate
1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator and FEMA's training center in Emmitsburg, Maryland.	Flooding	Mayor / Town Council / Dale County EMA	Local	High	High
1	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.	Flooding	Mayor / Town Council / Dale County EMA	Local	High	High
1	Promote the adoption of uniform flood hazard prevention ordinance among all NFIP communities. The ordinance standards should encourage flood plain management that maintains the natural and beneficial functions of flood plains by maximizing the credits that could be obtained for "Higher Regulatory Standards" under the Community Rating System (CRS) Program.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
1	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama	Flooding				



	Association Flood Plain Managers and encourage active participation.		Mayor / Town Council / Dale County EMA	Local	High	High
1	Consider large lot size restrictions on flood prone areas designated on Flood Insurance Rate Maps. Amend the local flood zone ordinance.	Flooding	Mayor / Town Council / Dale County EMA	Local	Low	Low
1	Evaluate additional flood zone restrictions on land use, such as prohibition of storage of buoyant materials, storage of hazardous materials, and restrictive development of flood ways, among others.	Flooding	Mayor / Town Council / Dale County EMA	Local	Low	Low
1	Amend flood zone ordinance to require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	Flooding	Mayor / Town Council / Dale County EMA	Local	High	High
1	Enact the International Code Series building and technical codes and appoint a Local Building Official to administer and enforce the codes.	All	Mayor / Town Council	Local	Medium	Moderate
1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	All	Mayor / Town Council	Local	Medium	Moderate
1	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of “hurricane clips.”	Hurricanes, Tornadoes, wind storms	Mayor / Town Council	Local	Medium	Moderate
1	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	Fire	Mayor / Town Council	Local	High	High
1	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	All	Mayor / Town Council	Local	High	High
1	Enact local ordinance that require community storm shelters within sizeable mobile home parks and subdivisions.		Mayor / Town Council	Local	High	High

		Hurricanes, Tornadoes, wind storms				
1	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	All	Mayor / Town Council	FEMA HMA Funds	High	High
1	Promote the adoption/enforcement of storm water management regulations that maintain pre-development runoff rates.	Flooding	Dale County EMA / Local Engineer	Local	Medium	Moderate
1	Support legislation to establish a State dam safety program.	Flooding	Mayor / Town Council	Local	High	High
1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.		Dale County EMA	Local	High	High
1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	All	Local Engineer	FEMA HMA Funds	Medium	Moderate
1	Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Wildfire	Fire Department	FEMA HMA Funds	Low	Low
2	Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High

2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	Medium	Moderate
2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	Low	Low
2	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	All	Local Engineer	Local	Medium	Moderate
2	Promote the purchase of insurance coverage by property owners and renters for flood damages in high risk areas.	Flooding	Dale County EMA / Local Engineer	Local	Low	Low
2	Install lightning and/or surge protection on existing critical facilities.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
2	Conduct ongoing tree trimming programs along power lines.	Hurricanes, Tornadoes, wind storms	Mayor / Town Council / Local Engineer	TBD	High	High
2	Install backup power generators for critical facilities.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
3	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	All	Dale County EMA	Local	Low	Low

3	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Hurricanes, Tornadoes, Tropical Storms	Dale County EMA	Local	Medium	Moderate
3	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	All	Dale County EMA	Local	Medium	Moderate
3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	All	Dale County EMA	Local	Medium	Moderate
3	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Flooding	Dale County EMA	Local	Medium	Moderate
3	Participate in the “Turn Around Don’t Drown” program by purchasing and installing signs in known flash flood bridge overpass locations.	Flash Floods	Mayor / Town Council / Dale County EMA	Local	High	High
3	Arrange with the Multiple Listing Service (MLS) to require floodplain location disclosure as a condition for each real estate listing.	Flooding	Dale County EMA	Local	Low	Low
3	Consider the enactment of a local ordinance or state law to require floodplain location disclosure when a property is listed for sale.	Flooding	Mayor / Town Council	Local	Low	Low
3	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.		Dale County EMA	Local	Medium	Moderate
3	Distribute hazard mitigation brochures to students through area schools.	All	Dale County EMA	Local	Low	Low
3	Distribute the 2021 plan to local officials, stakeholders, and interested individuals through internet download.	All	Dale County EMA	Local	High	High

3	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	All	Local Engineer / Dale County EMA	Local	Medium	Moderate
3	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	All	Dale County EMA	Local	Medium	Moderate
3	Promote the use of weather radios in households and businesses.	All	Dale County EMA	Local	High	High
3	Require the installation of weather radios in all public buildings and places of public assembly.	All	Mayor / Town Council / Dale County EMA	Local	High	High
3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
3	Increase and enhance the county's ability to coordinate and disseminate public information regarding threats, evacuations and shelters through a variety of media.	All	Dale County EMA	TBD	High	High
3	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Tornadoes	Dale County EMA	FEMA HMA Funds	High	High
3	Upgrade critical communications infrastructure.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
4	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	Flooding	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	Medium	Moderate
4	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Flooding	Local Engineer / Dale County EMA	TBD	Medium	Moderate

4	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.		Local Engineer / Dale County EMA	Local	High	High
4	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).		Local Engineer	Local	Low	Low
4	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Drought	Mayor / Town Council / Dale County EMA	Local	Medium	Moderate
5	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Flooding	Local Engineer	Local	High	High
5	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Flooding	Local Engineer / Mayor / Town Council	FEMA HMA Funds	High	High
5	Construct new community safe rooms in accessible locations and add safe rooms within new and existing public and institutional buildings, such as schools, colleges and universities, senior centers, community centers, hospitals and government buildings.	All	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
5	Pursue grant funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	Hurricanes, Tornadoes, Tropical Storms	Mayor / Town Council / Dale County EMA	FEMA HMA Funds	High	High
5	Encourage the construction of safe rooms in new and existing homes and buildings.	All	Mayor / Town Council / Dale County EMA	Local	High	High



### **5.5.7 Geneva County Jurisdictions Mitigation Actions**

- 1. Geneva County**
- 2. Geneva County Schools**
- 3. Town of Black**
- 4. Town of Coffee Springs**
- 5. City of Geneva**
- 6. Geneva City Schools**
- 7. City of Hartford**
- 8. Town of Malvern**
- 9. City of Samson**
- 10. City of Slocomb**

## Geneva County Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Replacement of several bridges throughout County damaged in flooding	All	Geneva County Engineer	FEMA/Local	Completed	N/A
1	Continue participation in the NFIP through maintaining and administering the county's floodplain development regulations, enforcing subdivision regulations that minimize flood risk to new developments, participating in flood map updates, and providing flood risk information to the public.	Flooding	NFIP Coordinator	HMGP/FMA/Local	High	High
1	Prepare pilot flood response plan	Flooding	NFIP Coordinator	HMGP/Local	High	High
1	Mosquito spraying program to minimize transmitted diseases	All	County Administration	Local	High	High
1	Utilize the Choctawhatchee, Pea, and Yellow rivers flood warning preparedness plan	Flooding	County Administration	Local	Medium	High
4	Inspect and correct storm drain systems	Flooding	Geneva County Engineer	HMGP/Local	High	Moderate
5	Install safety equipment in critical facilities	All	Geneva County EMA	HMGP/Local	High	Moderate
1	Work with developers to locate all utilities underground in new subdivisions	All	Geneva County Engineer	Private	Low	High
1	Work with developers to design commercial structures to withstand wind gusts of 100 to 110 miles per hour	High Winds	Geneva County Engineer	Private	High	High
1	Establish a building department with inspectors	All	Geneva County Engineer	Local	High	Moderate
4	Implement objectives from Storm Water Management Manual in subdivision regulations	Flooding	Geneva County Engineer	HMGP/Local	High	High
2,3	Acquire repetitively flooded properties in flood prone areas and convert acquired land to open space greenways	Flooding	Geneva County EMA	HMGP/Private/Local	Medium	Moderate
4	Prepare new drainage system maintenance procedures and correct deficient drainage facilities	Flooding	Geneva Co Road and Bridge	Local / Other TBD	Medium	Moderate

<b>Geneva County Mitigation Action Plan</b>					
<b>Action Description</b>	<b>Hazards Addressed</b>	<b>Lead Agency</b>	<b>Funding Source</b>	<b>Priority / Status</b>	<b>Benefit / Cost Score</b>
Work with US Army Corps of Engineers to run hydrology tests in flood hazard areas to set base flood elevations	Flooding	NFIP Coordinator	Federal/Local	Medium	Moderate
Utilize a Greenway Plan to prioritize acquisition and clearing of floodways to expand recreational areas	Flooding	NFIP Coordinator	HMGP/Local	High	Moderate
Protect first floor of structures from flooding through proper drainage system design	Flooding	NFIP Coordinator	HMGP/Local	Medium	Moderate
Continue involvement with the CRP	Flooding	Geneva County EMA	HMGP/NRCS/Local	High	High
Identify critical facilities vulnerable to flooding and encourage warning and response plans to include any special needs	Flooding	Geneva County EMA	HMGP/Local	High	High
Provide advice and assistance on hazard mitigation measures to residents	All	Geneva County EMA	Local	High	High
Notify and educate public on methods of protecting their property	All	Geneva County EMA	Local	High	High
Notify owners of availability and coverage provided by flood insurance	Flooding	NFIP Coordinator	Federal/Local	Medium	High
Provide flood hazard information to inquirers	Flooding	NFIP Coordinator	Local	High	High
Prepare a homeowner's flood protection manual	Flooding	NFIP Coordinator	Local	Medium	Moderate
Conduct annual mailing to floodplain residents	Flooding	Geneva County EMA	Local	Medium	Moderate
Disclosure of flood hazard information to potential home buyers	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
Provide real estate agents with flood hazard information	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
Increase public awareness of flood warning issuance	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
Provide hazard mitigation information to public libraries	All	Geneva County EMA	Local	Medium	High

### Geneva County Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
6	Issue news releases and articles on hazards	All	Geneva County EMA	Local	High	High
6	Make presentations at interested groups on hazard information	All	Geneva County EMA	Local / Partnerships	High	High
6	Publicize property protection projects	All	Geneva County EMA	Local	Medium	High
6	Educate public on being prepared for disaster situations and inform evacuation routes	All	Geneva County EMA	Local	Medium	High
5	Continue implementation of outdoor warning siren system	All	Geneva County EMA	HMGP/Local	High	Moderate
5	Purchase and maintain generators for emergency operations for critical facilities	All	Geneva County EMA	HMGP/Local	Medium	Moderate
2	Elevate appropriate structures two feet above floodplain elevation	Flooding	Geneva County EMA	HMGP/Local	High	Moderate
4	Install community and individual safe rooms in vulnerable locations	All (primarily High Winds)	Geneva County EMA	HMGP/Local/Private	High	Moderate
4	Work with US Army Corps of Engineers to maintain Geneva levee	Flooding	Geneva County EMA	USCOE/Local	High	High
4	Improve the following bridges to assist in stream flow dynamics: Bridges 10, 11, 12, 51, 81, 92, 96, 106, 110, 112, 122, and 139	Flooding	Geneva Co Road and Bridge	Local / Other Funding TBD	High	Moderate
4	Facilitate structural projects for hazard mitigation retrofits, as needed	All	Geneva County EMA	HMGP/Local	High	Moderate
1	Research data to improve future risk analysis efforts	All	Geneva County EMA	Local / Other Funding TBD	High	High
6	Incorporate hazard information on County's website	All	Geneva County EMA	Local	Medium	High
6	Facilitate stakeholder awareness of hazard mitigation plan	All	Geneva County EMA	Local	High	High

City of Geneva Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Extensive drainage improvements in Whitney St, Brannon Ave, and E. Fleming Ave area	Flooding	City Administration	CDBG/Local	Completed	N/A
1,3	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, participating in flood map updates, and providing flood risk information to the public	Flooding	NFIP Coordinator	HMGP/FMA/Local	High	High
4	Work with US Army Corps of Engineers to maintain Geneva levee	Flooding	City Administration / Geneva County EMA	USCOE/Local	High	High
1	Mosquito spraying program to minimize transmitted diseases	Flooding	City Administration	Local	High	High
1	Utilize the Choctawhatchee, Pea, and Yellow rivers flood warning preparedness plan	Flooding	City Administration	Local	Medium	High
1	Implement additional land use regulations including hazard mitigation discussion	All	City Administration	Local	High	High
4	Install provisions for bypassing of lift stations through connection of sump pump directly into main, when needed	Flooding	Water and Sewer Board	HMGP/Local	Medium	High
4	Prepare new drainage system maintenance procedures and correct deficient drainage facilities	Flooding	City Administration / Geneva Co Road and Bridge	Local / Other TBD	Medium	Moderate
2,6	Notify owners of ways to protect property from flooding	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
2,6	Notify owners of availability and coverage provided by flood insurance	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
6	Increase public awareness of flood warning issuance	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
5	Install outdoor warning siren	Storms/High Winds	Geneva County EMA	HMGP/Local	Medium	Moderate
5	Purchase and maintain generators for emergency operations for critical facilities	All	City Administration	HMGP/Local	Medium	Moderate

4	Install community and individual safe rooms in vulnerable locations	All (primarily High Winds)	Geneva County EMA	HMGP/Local/Private	High	Moderate
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City of Geneva Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Build dam around sewer lagoon area to contain waste	Flooding	Water and Sewer Board	HMGP/ADEM/Local	High	Moderate

Geneva County Schools Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Provide safe rooms in school facilities for student and staff safety	High Winds	Geneva County Schools	HMGP / Geneva Co Schools	High	Moderate
5	Procure and maintain generators for critical facilities	All	Geneva County Schools	HMGP / Geneva Co Schools	High	Moderate
1	Encourage the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	High Winds, Severe Storms, Tornadoes, Hurricanes	Governing Body	HMGP, PDM, USDA	Low	Low
1	Retrofit public schools with community shelters.	High Winds, Severe Storms, Tornadoes, Hurricanes	Crenshaw County Schools	HMGP, PDM, USDA	Low	Low



1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Crenshaw County EMA / SCADC	Local	Medium	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Crenshaw County EMA, LEPC	Local	Medium	High
4	Provide isolation rooms in school facilities for pandemic children until they can be picked up.	High Winds	Crenshaw County Schools	HMGP/Local	High	Moderate
5	Promote the addition of a generator to all critical facilities.	All	Crenshaw County EMA, Local Governments	HMGP/PDM	High	Moderate
5	Seek funding for generators to all critical facilities.	All	Crenshaw County EMA, Local Governments	HMGP/PDM	High	Moderate
5	Maintain existing emergency generators to provide back-up power to critical facilities	All	Crenshaw County EMA, Local Officials	HMGP/Local	High	Moderate
6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Crenshaw County EMA, Local Governments	Local	High	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Crenshaw County EMA / Crenshaw County Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Crenshaw County EMA	Local	Medium	High
6	Educate citizens that all fuel-burning equipment should be vented to the outside.	Winter / Ice Storms	Crenshaw County EMA	Local	High	High
6	Continue utilization of website and social media with timely information for citizens	All	Crenshaw County EMA	Local	High	High
6	Include safety strategies for severe weather in driver education classes and materials.	Winter / Ice Storms	Crenshaw County EMA, Crenshaw County Schools	Local	High	High
2, 6	Distribute hazard mitigation brochures to area schools for distribution to students.	All	Crenshaw County EMA	Local	High	High

Town of Black Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
1,3	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, participating in flood map updates, and providing flood risk information to the public	Flooding	NFIP Coordinator	HMGP/FMA/Local	High	High
1	Mosquito spraying program to minimize transmitted diseases	All	Town Administration	Local	High	High
1	Utilize the Choctawhatchee, Pea, and Yellow rivers flood warning preparedness plan	Flooding	Town Administration	Local	Medium	High
4	Prepare new drainage system maintenance procedures and correct deficient drainage facilities	Flooding	Town Administration / Geneva Co Road and Bridge	Local / Other TBD	Medium	Moderate
2,6	Notify owners of ways to protect property from flooding	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
2,6	Notify owners of availability and coverage provided by flood insurance	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
6	Increase public awareness of flood warning issuance	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
5	Install outdoor warning siren	All	Geneva County EMA	HMGP/Local	Medium	Moderate
5	Purchase and maintain generators for emergency operations for critical facilities	All	Town Administration	HMGP/Local	Medium	Moderate
4	Install community and individual safe rooms in vulnerable locations	All (primarily High Winds)	Geneva County EMA	HMGP/Local/Private	High	Moderate

### Town of Coffee Springs Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
1,3	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, participating in flood map updates, and providing flood risk information to the public	Flooding	NFIP Coordinator	HMGP/Local	High	High
1	Mosquito spraying program to minimize transmitted diseases	All	Town Administration	Local	High	High
1	Utilize the Choctawhatchee, Pea, and Yellow rivers flood warning preparedness plan	Flooding	Town Administration	Local	Medium	High
4	Prepare new drainage system maintenance procedures and correct deficient drainage facilities	Flooding	Town Administration / Geneva Co Road and Bridge	Local / Other TBD	Medium	Moderate
2,6	Notify owners of ways to protect property from flooding	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
2,6	Notify owners of availability and coverage provided by flood insurance	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
6	Increase public awareness of flood warning issuance	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
5	Install outdoor warning siren	All	Geneva County EMA	HMGP/Local	Medium	Moderate
5	Purchase and maintain generators for emergency operations for critical facilities	All	Town Administration	HMGP/Local	Medium	Moderate
4	Install community and individual safe rooms in vulnerable locations	All (primarily High Winds)	Geneva County EMA	HMGP/Local/Private	High	Moderate

### Geneva City Schools Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Provide safe rooms in school facilities for student and staff safety	High Winds	Geneva City Schools	HMGP/Geneva City Schools	High	Moderate
5	Procure and maintain generators for critical facilities	All	Geneva City Schools	HMGP/Geneva City Schools	High	Moderate
1	Encourage the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	High Winds, Severe Storms, Tornadoes, Hurricanes	Governing Body	HMGP, PDM, USDA	Low	Low
1	Retrofit public schools with community shelters.	High Winds, Severe Storms, Tornadoes, Hurricanes	Geneva City Schools	HMGP, PDM, USDA	Low	Low
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Geneva County EMA / SCADC	Local	Medium	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Geneva County EMA, LEPC	Local	Medium	High
4	Provide isolation rooms in school facilities for pandemic children until they can be picked up.	High Winds	Geneva City Schools	HMGP/Local	High	Moderate
5	Promote the addition of a generator to all critical facilities.	All	Geneva County EMA, Local Governments	HMGP/PDM	High	Moderate
5	Seek funding for generators to all critical facilities.	All	Geneva County EMA, Local Governments	HMGP/PDM	High	Moderate

5	Maintain existing emergency generators to provide back-up power to critical facilities	All	Geneva County EMA, Local Officials	HMGP/Local	High	Moderate
6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Geneva County EMA, Local Governments	Local	High	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Geneva County EMA / Crenshaw County Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Geneva County EMA	Local	Medium	High
6	Educate citizens that all fuel-burning equipment should be vented to the outside.	Winter / Ice Storms	Geneva County EMA	Local	High	High
6	Continue utilization of website and social media with timely information for citizens	All	Geneva County EMA	Local	High	High
6	Include safety strategies for severe weather in driver education classes and materials.	Winter / Ice Storms	Geneva County EMA, Geneva City Schools	Local	High	High
2, 6	Distribute hazard mitigation brochures to area schools for distribution to students.	All	Geneva County EMA	Local	High	High

### City of Hartford Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
1,3	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, participating in flood map updates, and providing flood risk information to the public	Flooding	NFIP Coordinator	HMGP/FMA/Local	High	High
1	Implement additional land use regulations including hazard mitigation discussion	All	City Administration	Local	High	High
1	Mosquito spraying program to minimize transmitted diseases	Flooding	City Administration	Local	High	High
1	Utilize the Choctawhatchee, Pea, and Yellow rivers flood warning preparedness plan	Flooding	City Administration	Local	Medium	High
4	Prepare new drainage system maintenance procedures and correct deficient drainage facilities	Flooding	City Administration / Geneva Co Road and Bridge	Local / Other TBD	Medium	Moderate
2,6	Notify owners of ways to protect property from flooding	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
2,6	Notify owners of availability and coverage provided by flood insurance	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
6	Increase public awareness of flood warning issuance	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
5	Install outdoor warning siren	Storms/High Winds	Geneva County EMA	HMGP/Local	Medium	Moderate
5	Purchase and maintain generators for emergency operations for critical facilities	All	City Administration	HMGP/Local	Medium	Moderate
4	Install community and individual safe rooms in vulnerable locations	All (primarily High Winds)	Geneva County EMA	HMGP/Local/Private	High	Moderate



Town of Malvern Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
1,3	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, participating in flood map updates, and providing flood risk information to the public	Flooding	NFIP Coordinator	HMGP/FMA/Local	High	High
1	Mosquito spraying program to minimize transmitted diseases	Flooding	Town Administration	Local	High	High
1	Utilize the Choctawhatchee, Pea, and Yellow rivers flood warning preparedness plan	Flooding	Town Administration	Local	Medium	High
5	Install safety equipment in Town Hall, Maintenance Building, and Park Facilities	All	Town Administration	HMGP/Local	Medium	Moderate
4	Prepare new drainage system maintenance procedures and correct deficient drainage facilities	Flooding	Town Administration / Geneva Co Road and Bridge	Local / Other TBD	Medium	Moderate
2,6	Notify owners of ways to protect property from flooding	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
2,6	Notify owners of availability and coverage provided by flood insurance	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
6	Increase public awareness of flood warning issuance	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
6	Educate public on being prepared for disaster situations and inform evacuation routes	All	Town Administration / Geneva County EMA	Local	Medium	High
5	Install outdoor warning siren	Storms/High Winds	Geneva County EMA	HMGP/Local	Medium	Moderate
5	Purchase and maintain generators for emergency operations for critical facilities	All	Town Administration	HMGP/Local	Medium	Moderate

4	Install community and individual safe rooms in vulnerable locations	All (primarily High Winds)	Geneva County EMA	HMGP/Local/Private	High	Moderate
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City of Samson Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Drainage improvements located near 200 S. Broad St	Flooding	City Administration	Local	Completed	N/A
5	Installed generator at Well #3	All	City Administration	Local	Completed	N/A
1,3	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, participating in flood map updates, and providing flood risk information to the public	Flooding	NFIP Coordinator	HMGP/FMA/Local	High	High
1	Mosquito spraying program to minimize transmitted diseases	Flooding	City Administration	Local	High	High
1	Utilize the Choctawhatchee, Pea, and Yellow rivers flood warning preparedness plan	Flooding	City Administration	Local	Medium	High
4	Install provisions for bypassing of lift stations through connection of sump pump directly into main, when needed	Flooding	Water and Sewer Dept	HMGP/Local	Medium	High
5	Construct new fire and rescue building	All	City Administration / Samson FD	Funding TBD	High	Moderate
5	Construct new police department	All	City Administration / Police Dept	Funding TBD	High	Moderate
5	Construct new city shop	All	City Administration	Funding TBD	High	Moderate
5	Construct new City Hall	All	City Administration	Funding TBD	High	Moderate
4	Prepare new drainage system maintenance procedures and correct deficient drainage facilities	Flooding	City Administration / Geneva Co Road and Bridge	Local / Other TBD	Medium	Moderate
2,6	Notify owners of ways to protect property from flooding	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
2,6	Notify owners of availability and coverage provided by flood insurance	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
6	Increase public awareness of flood warning issuance	Flooding	NFIP Coordinator	ADECA/Local	Medium	High

5	Install outdoor warning siren	Storms/ High Winds	Geneva County EMA	HMGP/Local	Medium	Moderate
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City of Samson Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
5	Purchase and maintain generators for emergency operations for critical facilities	All	City Administration	HMGP/Local	Medium	Moderate
4	Install community and individual safe rooms in vulnerable locations	All (primarily High Winds)	Geneva County EMA	HMGP/Local/Private	High	Moderate
6	Continue utilization of website and social media with timely information for citizens	All	Geneva County EMA	Local	High	High

### City of Slocomb Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
5	Constructed new facility for consolidated fire and rescue department	All	Slocomb Fire and Rescue	CDBG/Local	Completed	N/A
1,3	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, participating in flood map updates, and providing flood risk information to the public	Flooding	NFIP Coordinator	HMGP/FMA/Local	High	High
1	Mosquito spraying program to minimize transmitted diseases	Flooding	City Administration	Local	High	High
1	Utilize the Choctawhatchee, Pea, and Yellow rivers flood warning preparedness plan	Flooding	City Administration	Local	Medium	High
4	Construct drainage improvements along Pine Log Branch that stretches across the city	Flooding	City Administration	HMGP/Local	Medium	Moderate
4	Prepare new drainage system maintenance procedures and correct deficient drainage facilities	Flooding	City Administration / Geneva Co Road and Bridge	Local / Other TBD	Medium	Moderate
2,6	Notify owners of ways to protect property from flooding	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
2,6	Notify owners of availability and coverage provided by flood insurance	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
6	Increase public awareness of flood warning issuance	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
5	Install outdoor warning siren	Storms/High Winds	Geneva County EMA	HMGP/Local	Medium	Moderate
5	Purchase and maintain generators for emergency operations for critical facilities	All	City Administration	HMGP/Local	Medium	Moderate

4	Install community and individual safe rooms in vulnerable locations	All (primarily High Winds)	Geneva County EMA	HMGP/Local/Private	High	Moderate
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Geneva County EMA / Crenshaw County Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Geneva County EMA	Local	Medium	High
6	Educate citizens that all fuel-burning equipment should be vented to the outside.	Winter / Ice Storms	Geneva County EMA	Local	High	High
6	Continue utilization of website and social media with timely information for citizens	All	Geneva County EMA	Local	High	High
6	Include safety strategies for severe weather in driver education classes and materials.	Winter / Ice Storms	Geneva County EMA, Geneva City Schools	Local	High	High
1	Encourage the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	High Winds, Severe Storms, Tornadoes, Hurricanes	Governing Body	HMGP, PDM, USDA	Low	Low

### **5.5.8 Henry County Jurisdictions Mitigation Actions**

- 1. Henry County**
- 2. Henry County Schools**
- 3. City of Abbeville**
- 4. Town of Haleburg**
- 5. City of Headland**
- 6. Town of Newville**





<b>Henry County Mitigation Action Plan</b>					
<b>Action Description</b>	<b>Hazards Addressed</b>	<b>Lead Agency</b>	<b>Funding Source</b>	<b>Priority / Status</b>	<b>Benefit / Cost Score</b>
Continue to purchase additional warning sirens and weather radios to place throughout County	All	Henry County EMA	HMGP/Local	High	Moderate
Continue public awareness throughout the County for hazard events	All	Henry County EMA	Local/State Agencies	High	High
Continue to implement and update Emergency Operations Plan	All	Henry County EMA	AEMA/Local	High	High
Improvement of communication and warning devices for local emergency respondents	All	Henry County EMA / Local Police and Fire Depts	DHS/Local	High	Moderate
Continue implementation of ALDOT County Road Design Policy standards	All	Henry County Engineer	Local	High	High
Facilitate continuation of maintenance to the Walter F. George Lock and Dam	Dam Failure / Flooding	Henry County EMA / US Army Corps of Engineers	USCOE	High	High
Continue training storm spotters within county	High Winds	Henry County EMA	Local	High	High
Work with Alabama Forestry Office for wildfire prevention measures	Wildfires	Henry County EMA	Alabama Forestry /Local	High	High
Continue participation in the NFIP through maintaining and administering the county's floodplain development regulations, enforcing subdivision regulations that minimize flood risk to new developments, participating in flood map updates, and providing flood risk information to the public.	Flooding	Henry County Engineer	HMGP/FMA/Local	High	High
Placement of individual safe rooms in community	High Winds	Henry County EMA	HMGP/Private	High	High
Purchase backup generators for EOC and other critical facilities	All	Henry County EMA	HMGP/Local	High	Moderate
Repair drainage problems on County Road 55 between AL Highway 134 and County Road 12	All (primarily Flooding)	Henry County Road and Bridge	HMGP/Local	High	Moderate

Henry County Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
5	Repair ditch on County Road 4	All (primarily Flooding)	Henry County Road and Bridge	HMGP/Local	High	Moderate
1,3	Repair gully on County Road 55	All (primarily Flooding)	Henry County Road and Bridge	HMGP/Local	High	Moderate
1	Construct community safe room	High Winds	Henry County EMA	HMGP/Local	Medium	Moderate

## Henry County Schools Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Provide safe rooms in school facilities for student and staff safety	High Winds	Henry County Schools	HMGP/Henry Co Schools	High	Moderate
5	Procure and maintain generators for critical facilities	All	Henry County Schools	HMGP/Henry Co Schools	High	Moderate
1	Retrofit public schools with community shelters.	High Winds, Severe Storms, Tornadoes, Hurricanes	Henry County Schools	HMGP, PDM, USDA	Low	Low
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Henry County EMA	Local	Medium	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Henry County EMA, LEPC	Local	Medium	High
4	Provide isolation rooms in school facilities for pandemic children until they can be picked up.	High Winds	Henry County Schools	HMGP/Local	High	Moderate
5	Seek funding for generators to all critical facilities.	All	Henry County EMA	HMGP/PDM	High	Moderate
5	Maintain existing emergency generators to provide back-up power to critical facilities	All	Henry County EMA, Local Officials	HMGP/Local	High	Moderate
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Henry County EMA / Henry County Schools	Local	Medium	High
6	Include safety strategies for severe weather in driver education classes and materials.	Winter / Ice Storms	Henry County EMA, Henry County Schools	Local	High	High

2, 6	Distribute hazard mitigation brochures to area schools for distribution to students.	All	Henry County EMA	Local	High	High
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<b>City of Abbeville Mitigation Action Plan</b>						
<b>Goal</b>	<b>Action Description</b>	<b>Hazards Addressed</b>	<b>Lead Agency</b>	<b>Funding Source</b>	<b>Priority / Status</b>	<b>Benefit / Cost Score</b>
4	Drainage improvements on N. Doswell St to repair flooding damage	Flooding	City Administration	FEMA/Local	Completed	N/A
4	Drainage improvements near Abbeville Middle School on Gilliam Street to repair flooding damage	Flooding	City Administration	FEMA/Local	Completed	N/A
1	Completion of Comprehensive Master Plan	All	Planning Commission	USDA/Local	Completed	N/A
5	Continue responding to hazard emergencies	All	Abbeville Police / Fire Departments	Local / Other TBD	High	High
5	Improvement of communication and warning devices for local emergency respondents	All	Abbeville Police / Fire Departments / Henry County EMA	DHS/Local	High	Moderate
1,3	Continue participation in the NFIP through maintaining and administering floodplain development regulations, enforcing subdivision regulations that minimize flood risk to new developments, participating in flood map updates, and providing flood risk information to the public.	Flooding	City Administration	HMGP/FMA/Local	High	High
4	Placement of individual safe rooms in community	High Winds	Henry County EMA / City Administration	HMGP/Private	High	High
5	Purchase backup generators for critical facilities	All	City Administration / Henry County EMA	HMGP/Local	High	Moderate
2	Retrofit current and future shelters and critical facilities for emergencies	All	City Administration / Henry County EMA	HMGP/Local	Medium	Moderate

Town of Haleburg Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
5	Continue responding to hazard emergencies	All	Haleburg VFD	Local / Other TBD	High	High
6	Provide for effective communication to residents through weather siren	Storms/High Winds	Town Administration / Henry County EMA	HMGP/Local	High	Moderate
1,3	Study benefits of participation in NFIP	Flooding	Town Administration	Local	High	High
4	Placement of individual safe rooms in community	High Winds	Henry County EMA / Town Administration	HMGP/Private	High	High
5	Purchase backup generator for Town Hall	All	Town Administration / Henry County EMA	HMGP/Local	High	Moderate
4	Construction of a community safe room	High Winds	Town Administration / Henry County EMA	HMGP/Local	Medium	Moderate
1	Mosquito spraying program to minimize transmitted diseases	Flooding	Town Administration	Local	High	High
4	Construct drainage improvements along Pine Log Branch that stretches across the city	Flooding	Town Administration	HMGP/Local	Medium	Moderate
4	Prepare new drainage system maintenance procedures and correct deficient drainage facilities	Flooding	Town Administration / Henry Co Road and Bridge	Local / Other TBD	Medium	Moderate
2,6	Notify owners of ways to protect property from flooding	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
2,6	Notify owners of availability and coverage provided by flood insurance	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
6	Increase public awareness of flood warning issuance	Flooding	NFIP Coordinator	ADECA/Local	Medium	High
5	Install outdoor warning siren	Storms/ High Winds	Henry County EMA	HMGP/Local	Medium	Moderate
5	Purchase and maintain generators for emergency operations for critical facilities	All	Town Administration	HMGP/Local	Medium	Moderate
4	Install community and individual safe rooms in vulnerable locations	All (primarily High Winds)	Henry County EMA	HMGP/Local/Private	High	Moderate



6	Continue utilization of website and social media with timely information for citizens	All	Henry County EMA	Local	High	High
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City of Headland Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
1	Completion of Comprehensive Master Plan and zoning revisions	All	Planning Commission	Local	Completed	N/A
1	Continue to administer and update Zoning Ordinance	All	Planning Commission	Local	High	High
1	Regularly update Comprehensive Plan in consistency with hazard mitigation objectives	All	Planning Commission	Local / Other TBD	High	High
5	Continue responding to hazard emergencies	All	Headland Police / Fire Departments	Local / Other TBD	High	High
5	Improvement of communication and warning devices for local emergency respondents	All	Headland Police / Fire Departments / Henry County EMA	DHS/Local	High	Moderate
1,3	Continue participation in the NFIP through maintaining and administering the county's floodplain development regulations, enforcing subdivision regulations that minimize flood risk to new developments, participating in flood map updates, and providing flood risk information to the public.	Flooding	City Administration	HMGP/FMA/Local	High	High
4	Placement of individual safe rooms in community	High Winds	Henry County EMA / City Administration	HMGP/Private	High	High
4	Construction of community safe room	High Winds	City Administration	HMGP/Local	High	Moderate
5	Purchase backup generators for critical facilities	All	City Administration / Henry County EMA	HMGP/Local	High	Moderate

<b>Town of Newville Mitigation Action Plan</b>						
<b>Goal</b>	<b>Action Description</b>	<b>Hazards Addressed</b>	<b>Lead Agency</b>	<b>Funding Source</b>	<b>Priority / Status</b>	<b>Benefit / Cost Score</b>
5	Construct new elevated water tank to replace existing tank	All	Town Administration	CDBG/Local	Completed	N/A
5	Continue responding to hazard emergencies	All	Newville Police / Fire Departments	Local / Other TBD	High	High
5	Continue mutual aid / assistance agreements	All	Town Administration / Henry County EMA	Local	High	High
5	Improvement of communication and warning devices for local emergency respondents	All	Newville Police / Fire Departments / Henry County EMA	DHS/Local	High	Moderate
1,3	Continue participation in the NFIP through maintaining and administering the county's floodplain development regulations, enforcing subdivision regulations that minimize flood risk to new developments, participating in flood map updates, and providing flood risk information to the public.	Flooding	Town Administration	HMGP/FMA/Local	High	High
4	Placement of individual safe rooms in community	High Winds	Henry County EMA / Town Administration	HMGP/Private	High	High
5	Maintain effective water supply to citizens during a disaster	All	Town Administration	Local	High	High
5	Purchase backup generators for critical facilities	All	Town Administration / Henry County EMA	HMGP/Local	High	Moderate
2	Retrofit current and future shelters and critical facilities for emergencies	All	Town Administration / Henry County EMA	Funding TBD	Medium	Moderate
5	Construct a full-time refueling station	All	Town Administration	Funding TBD	Medium	Moderate
6	Provide for effective communication to residents through weather siren	All	Town Administration / Henry County EMA	HMGP/Local	Medium	Moderate



### **5.5.9 Houston County Jurisdictions Mitigation Actions**

- 1. Houston County**
- 2. Houston County Schools**
- 3. City of Ashford**
- 4. Town of Avon**
- 5. Town of Columbia**
- 6. Town of Cottonwood**
- 7. Town of Cowarts**
- 8. City of Dothan**
- 9. Dothan City Schools**
- 10. Town of Gordon**
- 11. City of Kinsey**
- 12. Town of Madrid**
- 13. Town of Rehobeth**
- 14. City of Taylor**
- 15. Town of Webb**

<b>Houston County Mitigation Action Plan</b>					
<b>Action Description</b>	<b>Hazards Addressed</b>	<b>Lead Agency</b>	<b>Funding Source</b>	<b>Priority / Status</b>	<b>Benefit / Cost Score</b>
Regular street maintenance and replacement of bridges/culverts	All	Houston County Road and Bridge	ALDOT/Local	Completed	N/A
Water main extension to areas south of Ashford	All	Houston County Administration	CDBG/Local	Completed	N/A
Continue public awareness throughout the County for hazard events	All	Houston County EMA	Local/State Agencies	High	High
Monitor during regular maintenance and implement most recent ALDOT design standards for county roads. These standards include many construction issues that impact the ability of roads and bridges to withstand flooding.	Flooding	Houston County Road and Bridge	Local	High	High
Continue checking properties for flood zone status and partnering with Alabama Power and Wiregrass Electric	Flooding	Houston County Road and Bridge	Local	High	High
Construct a combination joint Communication Center and Emergency Operation Center to serve Houston County. The center will house the City of Dothan Communications Center, Houston County Communications Center, Houston County Emergency Management, and host infrastructure for City of Dothan IT Department.	All	Dothan/Houston County Communications District Board / Dothan-Houston County EMA	Local	High (in Design Phase)	Moderate
Placement of individual safe rooms in county	High Winds	Dothan/Houston County EMA	HMGP/Private	High	High
Replacement of bridges and culverts as needed countywide	Flooding	Houston County Road and Bridge	ALDOT/Local	High	Moderate
Procure backup generator for the Houston County Water Authority to ensure water supply and distribution during emergencies	All	Dothan/Houston County EMA / Houston County Water Authority	HMGP/Local	High	Moderate
Procure backup generator for Houston County Administration Building to assist with Continuity of Government / Continuity of Operations Plan	All	Dothan/Houston County EMA	HMGP/Local	High	Moderate

### Houston County Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
1,3	Continue participation in the NFIP through maintaining and administering the county's floodplain development regulations, enforcing subdivision regulations that minimize flood risk to new developments, participating in flood map updates, and providing flood risk information to the public.	Flooding	NFIP Coordinator / Houston County Road and Bridge	HMGP/FMA/Local	High	High
5	Procure backup generator for Houston County Road and Bridge administrative offices for continuity of operations	All	Houston County Road and Bridge	HMGP/Local	High	Moderate
5	Maintenance and replacement of existing outdoor warning sirens damaged during hazard events	All	Dothan/Houston County EMA	HMGP/Local	High	Moderate
4	Cross-drain replacement on S County Road 81 south of Bazemore Mill Rd	Flooding	Houston County Road and Bridge	Local	High	Moderate
5	Installation of approximately ten more outdoor warning sirens in areas within the county	Storms/High Winds	Dothan/Houston County EMA	HMGP/Local	Medium	Moderate
1	Work with State of Alabama on private dam legislation	Dam Failure	Dothan/Houston County EMA / County Engineer	State/Local	Medium	High
2	Retrofit SARCOA building for community safe room that can protect 270 people from hazard events	High Winds	Dothan/Houston County EMA / SARCOA	HMGP/SARCOA	Medium	Moderate



## Houston County Schools Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Provide safe rooms in school facilities for student and staff safety	High Winds	Houston County Schools	HMGP/Houston Co Schools	High	Moderate
5	Procure and maintain generators for critical facilities	All	Houston County Schools	HMGP/Houston Co Schools	High	Moderate
4	Drainage improvements behind Wicksburg High School	Flooding	Houston County Road and Bridge / Houston County Schools	Funding TBD	High	Moderate
1	Procure backup generator for Wicksburg School to keep food supplies in freezers from ruining during power outage	All	Houston County Schools	Funding TBD	Medium	Moderate
5	Procure backup generators for Ashford Elementary and Ashford High schools to operate freezers during power outages	All	Houston County Schools	Funding TBD	Medium	Moderate
5	Procure backup generator for Houston County High School to operate freezers during power outages	All	Houston County Schools	Funding TBD	Medium	Moderate
5	Procure backup generator for Cottonwood School to operate freezers during power outages	All	Houston County Schools	Funding TBD	Medium	Moderate
5	Backup generators for Rehobeth Elementary, Rehobeth Middle, and Rehobeth High schools to keep food supplies in freezers from ruining during power outage	All	Houston County Schools	Funding TBD	High	Moderate
5	Backup generators for Webb Elementary School to keep food supplies in freezers from ruining during power outage	All	Houston County Schools	Funding TBD	High	Moderate
1	Retrofit public schools with community shelters.	High Winds, Severe Storms, Tornadoes, Hurricanes	Houston County Schools	HMGP, PDM, USDA	Low	Low
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High

	promoting accessible heating centers in the community.					
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Houston County EMA	Local	Medium	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Houston County EMA, LEPC	Local	Medium	High
4	Provide isolation rooms in school facilities for pandemic children until they can be picked up.	High Winds	Houston County Schools	HMGP/Local	High	Moderate
5	Seek funding for generators to all critical facilities.	All	Houston County EMA	HMGP/PDM	High	Moderate
5	Maintain existing emergency generators to provide back-up power to critical facilities	All	Houston County EMA, Local Officials	HMGP/Local	High	Moderate
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Houston County EMA / Houston County Schools	Local	Medium	High
6	Include safety strategies for severe weather in driver education classes and materials.	Winter / Ice Storms	Houston County EMA, Houston County Schools	Local	High	High
2, 6	Distribute hazard mitigation brochures to area schools for distribution to students.	All	Houston County EMA	Local	High	High

### City of Ashford Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Construction of wastewater treatment plant	All	City Administration	Federal/Local	Completed	N/A
1,3	Continue participation in the NFIP through maintaining and administering the county's floodplain development regulations, enforcing subdivision regulations that minimize flood risk to new developments, participating in flood map updates, and providing flood risk information to the public.	Flooding	City Administration	HMGP/FMA/Local	High	High
5	Additional communications and control capability	All	Houston County E-911 / Ashford Police Dept	Local / Other TBD	High	High
5	Construct an emergency operations center	All	City Administration	Funding TBD	High	Moderate
2	Retrofit Police Department to withstand hazard capabilities	All	Ashford Police Dept	HMGP/Local	High	Moderate
4	Construct community safe room for nearby manufactured home parks	High Winds	City Administration	HMGP/Local	High	Moderate
5	Procure backup generators for three water wells to supply power to ensure water supply and distribution during emergencies	All	Water Dept	HMGP/Local	High	Moderate
4	Placement of individual safe rooms in community	High Winds	Dothan/Houston County EMA	HMGP/Private	High	High
1,3	Implementation of GIS system with accurate data to assist in proper management of the NFIP program, including structure, flood hazard, and imagery data	All (primarily Flooding)	City Administration	Funding TBD	Medium	Moderate
5	System for detecting, warning, and responding to chlorine leaks in the water system	All	Water Dept	Local / Other TBD	Medium	Moderate

Town of Avon Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
1	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, participating in flood map updates, and providing flood risk information to the public	Flooding	Town Administration	HMGP/FMA/Local	High	High
4	Maintain open ditches, working with Houston County Road and Bridge	Flooding	Town Administration / Houston Co Road and Bridge	Houston Co Road and Bridge / Local	High	High
4	Drainage improvements at the intersection of US Highway 84 and Westbourne St, requiring an easement	Flooding	Town Administration / ALDOT / Houston Co Road and Bridge	Funding TBD	High	Moderate
4	Construct community safe room for nearby manufactured home parks with a backup generator	High Winds	Town Administration / Dothan/Houston County EMA	HMGP/Local	High	Moderate
4	Placement of individual safe rooms in community	High Winds	Dothan/Houston County EMA	HMGP/Private	High	High
2	Wind retrofit for Town Hall	High Winds	Town Administration / Dothan/Houston County EMA	Funding TBD	Medium	Moderate
5	Installation of outdoor warning siren	Storms/ High Winds	Town Administration / Dothan/Houston County EMA	HMGP/Local	Medium	Moderate
3,4	Improvements to Cowarts Creek to reduce flooding occurrences from vegetation in waterway	Flooding	Town Administration	Funding TBD	Medium	Low
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Houston County EMA / Houston County Schools	Local	Medium	High
6	Include safety strategies for severe weather in driver education classes and materials.	Winter / Ice Storms	Houston County EMA, Houston County Schools	Local	High	High

### Town of Columbia Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
1	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, participating in flood map updates, and providing flood risk information to the public	Flooding	Town Administration	HMGP/FMA/Local	High	High
5	Interconnect water system with Henry County Water Authority for a secondary water supply, especially when the two wells and one tank are utilized to the limit	All	Town Administration / Henry Co Water Authority	USDA/Local	High	High
4	Construct community safe room for nearby residents in vulnerable housing	High Winds	Town Administration / Red Cross	HMGP/Local	High	Moderate
5	Procure backup generators for two water wells to supply power to ensure water supply and distribution during emergencies	All	Town Administration	HMGP/Local	High	Moderate
4	Placement of individual safe rooms in community	High Winds	Dothan/Houston County EMA	HMGP/Private	High	High
4	Construct drainage project affecting areas north of Church St (Hwy 52) between Houston County High School and N Main St (Hwy 95)	Flooding	Town Administration / Houston County Road and Bridge	HMGP/Local	High	Moderate
2	Acquisition of repetitively flooded properties	Flooding	Town Administration	HMGP/Local	Medium	Moderate
5	Installation of two outdoor warning sirens to cover areas not covered by the existing siren	Storms/High Winds	Town Administration / Dothan/Houston County EMA	HMGP/Local	Medium	Moderate
2	Retrofit or relocate sewage lagoon to reduce impacts from flooding and sewage overflows in surrounding areas	Flooding	Town Administration	Funding TBD	Low	Moderate

Town of Cottonwood Mitigation Action Plan					
Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
Sewer improvements in southern areas of town	All	Town Administration	CDBG/Local	Completed	N/A
Continue participation in the NFIP through maintaining and administering the floodplain development regulations, participating in flood map updates, and providing flood risk information to the public	Flooding	Town Administration	HMGP/FMA/Local	High	High
Continued improvements to sewer system to ensure operations during emergencies	Flooding	Town Administration	CDBG/Local	High	Moderate
Trailer-mounted emergency generator to operate the three water wells that supplies drinking water to 20% of geographic area of Houston County, water for firefighting to more than 33% of Houston County, and the nine sewer lift stations that convey wastes to the treatment facility	All	Town Administration / Dothan/Houston County EMA	HMGP/Local	High	Moderate
Provide erosion control to the 900 block of Houston Street that sustained major damage from previous flooding events. Emergency repair and upgrade are needed, including drainage pipe, roadwork, and curbing	Flooding	Town Administration / Houston Co Road and Bridge	Local / Other TBD	High	Moderate
Drainage projects along Cottonwood Canal, which caused extensive flood damage in previous flooding events, by cleaning and improving flow and upgrading damaged bridge and culvert crossings over the canal.	Flooding	Town Administration	Local / Other TBD	High	Moderate
Construct community safe room for first responders and vulnerable populations	High Winds / Flooding	Town Administration / Dothan/Houston Co EMA	HMGP/Local	High	Moderate
Placement of individual safe rooms in community	High Winds	Dothan/Houston County EMA	HMGP/Private	High	High



<b>Town of Cottonwood Mitigation Action Plan</b>					
<b>Action Description</b>	<b>Hazards Addressed</b>	<b>Lead Agency</b>	<b>Funding Source</b>	<b>Priority / Status</b>	<b>Benefit / Cost Score</b>
Water system improvements to replace failing asbestos pipe in several locations, most in Downtown area	All	Town Administration	CDBG/Local	High	Moderate
Improve currently unused 50,000 gallon water tank to use as emergency water source for firefighting activities by placing connectors, an air gap water filling source line, and other ADEM requirements	Wildfires	Town Administration / Neighboring VFDs	Local / Other TBD	High	Moderate
Acquisition of repetitively flooded properties	Flooding	Town Administration	HMGP/Local	Medium	Moderate
Construct wastewater treatment plant outside of flood zone	Flooding	Town Administration	Funding TBD	Low	Moderate
Implement GIS mapping system to manage NFIP program and utility services	All (primarily Flooding)	Town Administration	Funding TBD	Low	Moderate

### Town of Cowarts Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
1	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, participating in flood map updates, and providing flood risk information to the public	Flooding	Town Administration	HMGP/FMA/Local	High	High
5	Procure backup generators for two water wells to supply power to ensure water supply and distribution during emergencies	All	Town Administration	HMGP/Local	High	Moderate
4	Placement of individual safe rooms in community	High Winds	Dothan/Houston County EMA	HMGP/Private	High	High
2	Retrofit critical facilities in flood prone areas to mitigate hazards	Flooding	Town Administration	HMGP/Local/Other TBD	High	Moderate
2/4	Relocate two sewage lift stations out of flood prone areas or install berm and pumps to extract water from the brim	Flooding	Town Administration	HMGP/Local/Other TBD	High	Moderate
2	Retrofit the remaining six lift stations to accommodate emergency power from at least a 50KW portable generator	All	Town Administration	HMGP/Local/Other TBD	High	Moderate
2	Acquisition of repetitively flooded properties	Flooding	Town Administration	HMGP/Local	Medium	Moderate
4	Construct community safe room meeting FEMA requirements for vulnerable populations	All (primarily High Winds)	Town Administration / Dothan/Houston County EMA	HMGP/Local	Medium	Moderate

<b>City of Dothan Mitigation Action Plan</b>					
<b>Action Description</b>	<b>Hazards Addressed</b>	<b>Lead Agency</b>	<b>Funding Source</b>	<b>Priority / Status</b>	<b>Benefit / Cost Score</b>
Install pipe and construct detention ponds to relieve local flooding from Beaver Creek Tributary 3 in Spann Farm	Flooding	Public Works	Local	Completed	N/A
Transmission line upgrade around Ross Clark Circle involving replacing rotten wood poles with concrete poles and replacing the wire with larger wire to increase the reliability of the lines and enable load switching.	All (primarily High Winds)	Dothan Utilities	Local	Completed	N/A
Rehabilitation of Wells 17, 29, 33, and 24, high service pumps 1 and 4, and low service pumps 1,2, and 3 to rebuild, repair, and lower wells to provide increased dependability	All	Dothan Utilities	Local	Completed	N/A
Construct new west side water storage tank to help maintain water pressure during peak demand	All	Dothan Utilities	State/Local	Completed	N/A
Decommission Beaver Creek WWTP	All	Dothan Utilities	State/Local	Completed	N/A
Upgrade Little Choctawhatchee WWTP	All	Dothan Utilities	State/Local	Completed	N/A
Sanitary sewer trunk line from Beaver Creek WWTP to Little Choctawhatchee WWTP	All	Dothan Utilities	State/Local	Completed	N/A
Multiple street and bridge repairs and replacements	All (primarily Flooding)	Public Works	Federal/Local	Completed	N/A
Multiple storm drainage improvements	Flooding	Public Works	Federal/Local	Completed	N/A
Continue participation in the NFIP through maintaining and administering the floodplain development regulations, participating in flood map updates, providing flood risk information to the public, and incorporating RISK Map into GIS system	Flooding	NFIP Coordinator	HMGP/FMA/Local	High	High

City of Dothan Mitigation Action Plan					
Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
Continue long range utility planning to meet current and future demands for water, ensure the correct path, review current revenues, and recommend future strategies	All	Dothan Utilities	Local	High	High
Continue strategic planning consistent with hazard mitigation objectives	All	City Administration	Local	High	High
Continued implementation of Five-Year Community Investment Program	All	City Administration	Local / Various Sources	High	Moderate
Continue extension of water mains in unserved areas	All	Dothan Utilities	Local	High	Moderate
Continue water tank maintenance program	All	Dothan Utilities	Local	High	Moderate
Install pipe and construct detention ponds to relieve local flooding from Beaver Creek Tributary 3 in Spann Farm	Flooding	Public Works Dept	Local	High	Moderate
Transmission line upgrade around Ross Clark Circle involving replacing rotten wood poles with concrete poles and replacing the wire with larger wire to increase the reliability of the lines and enable load switching. Repairs will repair wind and thunderstorm power outages.	High Winds	Dothan Utilities	Local	High	Moderate
Improve security at wells, tanks, and grounds by installing new fences, gates, doors, and sensors to help security	All	Dothan Utilities / Police Department	Local	High	High
Relocation of Park Avenue Electrical Substation	All	Dothan Utilities	Local	High	Moderate
Improve Flynn Substation by adding two more distribution circuits to improve reliability in NW Dothan	All	Dothan Utilities	Local	High	Moderate

Construction and/or relocation of fire station	All	Fire Dept	Local / Other TBD	High	Moderate
Continue annual neighborhood streets resurfacing	All	Public Works	Local	High	Moderate

<b>City of Dothan Mitigation Action Plan</b>					
<b>Action Description</b>	<b>Hazards Addressed</b>	<b>Lead Agency</b>	<b>Funding Source</b>	<b>Priority / Status</b>	<b>Benefit / Cost Score</b>
Replace functionally and structurally inadequate bridges	Flooding	Public Works / MPO	ALDOT / Local	High	Moderate
Continue annual program to identify and improve drainage infrastructure creating flooding issues	Flooding	Public Works	Local	High	Moderate
Monitor and repair deteriorating bridges	Flooding	Public Works	ALDOT/Local	High	Moderate
Construct three 1500 GPM water supply wells and connecting mains	All	Dothan Utilities	Local/SRF	High	Moderate
Tuscaloosa test hole and test well for future water supply needs	All	Dothan Utilities	Local	High	Moderate
Transmission main improvements as determined from hydraulic modeling of water system	All	Dothan Utilities	Local	High	Moderate
Tank and well upgrade and replacement	All	Dothan Utilities	Local	High	Moderate
Red water main replacement	All	Dothan Utilities	Local	High	Moderate
Replace 15 fire hydrants annually	All	Dothan Utilities	Local	High	High
New generators to provide auxiliary power to wells	All	Dothan Utilities	HMGP/Local	High	Moderate
Rehabilitation of sewer lift stations	All	Dothan Utilities	Local	High	Moderate
Omussee WWTP 201 Update and Bio Solids Management Plan	All	Dothan Utilities	ADEM/Local	High	High
Rock Creek sewer line project	All	Dothan Utilities	ADEM/Local	High	Moderate
Cornell WWTP project	All	Dothan Utilities	ADEM/Local	High	Moderate
Whatley 20" water transmission line project	All	Dothan Utilities	Local	High	Moderate
Permanent flow monitoring	All	Dothan Utilities	SRF/Local	High	Moderate
Phase II AOC Program	All	Dothan Utilities	Local	High	Moderate

Implement stormwater management program	All	Public Works	AEMA/FEMA (HMGP, PDM), ADECA, others TBD	High	Moderate
Placement of individual safe rooms in community	High Winds	Dothan/Houston County EMA	Federal/Private	High	High

City of Dothan Mitigation Action Plan					
Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
Concrete pave the corroded bottom of the existing 96" diameter BCCMP under Horace Shepard Road	Flooding	Public Works	Local	High	Moderate
Ditch through Phillips Terrace subdivision to West Main Street	Flooding	Public Works	Local	High	Moderate
Dead inlets at Roosevelt and Westfield Drive. Ditch from 203 Westfield Drive to southeast corner of 207 Roosevelt Drive	Flooding	Public Works	Local	High	Moderate
Improve West Woodland Ditch North Leg from West Woodland Drive to intersection of Fortner Street and Hartford Highway	Flooding	Public Works	Local	High	Moderate
Complete drainage system on Daniel Circle and tie to Ross Clark Cir system	Flooding	Public Works	Local	High	Moderate
Ditch along west side of South Park Ave, south of West Carroll St to Ross Clark Cir	Flooding	Public Works	Local	High	Moderate
Pipe system upgrade along Rosemont Dr	Flooding	Public Works	Local	High	Moderate
Complete bottom paving of Folks Branch and lower bridge bottom	Flooding	Public Works	Local	High	Moderate
Continuation of Girard ditch to N. Park Ave	Flooding	Public Works	Local	High	Moderate
Improve drainage from Plaza Dr to Cherokee Dr	Flooding	Public Works	Local	High	Moderate
Improve drainage from Cherokee Dr to Montezuma Ave	Flooding	Public Works	Local	High	Moderate
Improve drainage from Houston St to Choctaw St to Sioux St	Flooding	Public Works	Local	High	Moderate



Improve swale on Nottingham Way	Flooding	Public Works	Local	High	Moderate
Improve drainage on Oakland Dr	Flooding	Public Works	Local	High	Moderate
Improve drainage on Connelly St	Flooding	Public Works	Local	High	Moderate
Improve drainage near Todd Ct	Flooding	Public Works	Local	High	Moderate
Improve drainage at Shade Tree Trailer Court	Flooding	Public Works	Local	High	Moderate

City of Dothan Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Improve drainage along Beaver Creek Tributary from Stadium St to Cynthia Dr	Flooding	Public Works	Local	High	Moderate
4	Improve drainage on Water St	Flooding	Public Works	Local	High	Moderate
4	Improve drainage on Junaluska Ave	Flooding	Public Works	Local	High	Moderate
5	Construct joint fire and police department training facility	All	Police Dept / Fire Dept	Local / Other TBD	High	Moderate
5	Cardiac Monitor Replacement	All	Fire Dept	Local / Other TBD	High	Moderate
1	Procure backup generators for critical facilities as needed	All	City Administration / Dothan Utilities	HMGP/Local	Medium	Moderate
4	New elevated water tank	All	Dothan Utilities	Funding TBD	Medium	Moderate
2	Acquisition of repetitively flooded properties	Flooding	NFIP Coordinator	HMGP/Local	Medium	Moderate
4	Property acquisition for future well and tank sites	All	Dothan Utilities	Local	Medium	Moderate
4	Develop long-term water supply source	All	Dothan Utilities	Funding TBD	Medium	Low
4	Improve US Hwy 231 / Campbellton Hwy / Taylor Rd	All	MPO / Public Works	ALDOT/Local	Medium	Moderate

### Dothan City Schools Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Provide safe rooms in school facilities for student and staff safety	High Winds	Dothan City Schools	HMGP/Dothan City Schools	High	Moderate
5	Procure and maintain generators for critical facilities	All	Dothan City Schools	HMGP/Dothan City Schools	High	Moderate
1	Encourage the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	High Winds, Severe Storms, Tornadoes, Hurricanes	Governing Body	HMGP, PDM, USDA	Low	Low
1	Retrofit public schools with community shelters.	High Winds, Severe Storms, Tornadoes, Hurricanes	Dothan City Schools	HMGP, PDM, USDA	Low	Low
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Houston County EMA	Local	Medium	High

2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Houston County EMA, LEPC	Local	Medium	High
4	Provide isolation rooms in school facilities for pandemic children until they can be picked up.	High Winds	Dothan City Schools	HMGP/Local	High	Moderate
5	Promote the addition of a generator to all critical facilities.	All	Crenshaw County EMA, Local Governments	HMGP/PDM	High	Moderate
5	Seek funding for generators to all critical facilities.	All	Crenshaw County EMA, Local Governments	HMGP/PDM	High	Moderate
5	Maintain existing emergency generators to provide back-up power to critical facilities	All	Crenshaw County EMA, Local Officials	HMGP/Local	High	Moderate
6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Crenshaw County EMA, Local Governments	Local	High	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Houston County EMA / Crenshaw County Schools	Local	Medium	High
6	Educate citizens that all fuel-burning equipment should be vented to the outside.	Winter / Ice Storms	Houston County EMA	Local	High	High
6	Include safety strategies for severe weather in driver education classes and materials.	Winter / Ice Storms	Houston County EMA, Dothan City Schools	Local	High	High
2, 6	Distribute hazard mitigation brochures to area schools for distribution to students.	All	Houston County EMA	Local	High	High

### Town of Gordon Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
1	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, participating in flood map updates, and providing flood risk information to the public	Flooding	Town Administration	HMGP/FMA/Local	High	High
5	Procure portable 60kW generators to serve electrically-retrofitted water well and lift stations to supply power to ensure water and sewer services during emergencies	All	Town Administration	HMGP/Local	High	Moderate
4	Placement of individual safe rooms in community	High Winds	Dothan/Houston County EMA	HMGP/Private	High	High
5	Improve drainage problem along Tifton Road by improving ditches and widening road	Flooding	Town Administration / Houston Co Road and Bridge	Local / Other TBD	High	Moderate
5	Improve drainage problem on Monroe Street, by replacing pipe under CSX Railway track with larger pipe to alleviate flooding of houses and property	Flooding	Town Administration / Houston Co Road and Bridge / CSX Railroad	Local / Other TBD	High	Moderate
5	Construct community safe room meeting FEMA requirements for vulnerable populations	All (primarily High Winds)	Town Administration / Dothan/Houston County EMA	HMGP/Local	High	Moderate

5	Retrofit Town Hall windows and doors with lockable metal shutters and add hurricane clips to the rafters	High Winds	Town Administration	HMGP/Local	Medium	Moderate
4	Construction of new fire station to replace old station	All	Gordon VFD	Funding TBD	Medium	Moderate
4	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, participating in flood map updates, and providing flood risk information to the public	Flooding	Town Administration	HMGP/FMA/Local	High	High

Town of Kinsey Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
1	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, participating in flood map updates, and providing flood risk information to the public	Flooding	Town Administration	HMGP/FMA/Local	High	High
5	Construction of new well and elevated water storage tank with generator to have additional water for domestic needs and to furnish for firefighting	All	Town Administration	Local / Other TBD	High	Moderate
4	Placement of individual safe rooms in community	High Winds	Dothan/Houston County EMA	HMGP/Private	High	High
5	Procure generator in Town Hall for support during emergency events	All	Town Administration / Dothan/Houston County EMA	HMGP/Local	High	Moderate
5	Procure 50kW generator in Fire Station for functionality during hazard events	All	Kinsey VFD / Dothan/Houston County EMA	HMGP/Local	High	Moderate
5	System for detecting, warning, and responding to chlorine leaks in the water system	All	Town Administration	Local / Other TBD	High	Moderate

5	Installation of telemetry system to detect intrusion and power outages in water and sewer infrastructure	All	Town Administration	Local / Other TBD	High	Moderate
4	Repair drainage problems and street damage caused by flooding	Flooding	Town Administration / Houston Co Road and Bridge	HMGP/Local	High	Moderate
4	Construct new Town Hall that meets FEMA community safe room requirements for first responders and vulnerable populations	All (primarily High Winds)	Town Administration / Dothan/Houston County EMA	Funding TBD	Medium	Moderate

Town of Kinsey Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
1	Installation of additional outdoor warning siren	Storms/High Winds	Town Administration / Dothan/Houston County EMA	HMGP/Local	Medium	Moderate
5	Implement GIS mapping system to manage NFIP program and utility services	All	Town Administration	Funding TBD	Low	Moderate



### Town of Madrid Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
1,3	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, participating in flood map updates, and providing flood risk information to the public	Flooding	Town Administration	HMGP/FMA/Local	High	High
4	Retrofit senior center for sheltering purposes for the town's vulnerable population	All (primarily High Winds)	Town Administration / Dothan/Houston County EMA	HMGP/Local	High	Moderate
4	Placement of individual safe rooms in community	High Winds	Dothan/Houston County EMA	HMGP/Private	High	High
4	Implementation of drainage infrastructure to reduce drainage problems from open ditches, especially along Pine Street	Flooding	Town Administration / Houston Co Road and Bridge	Houston Co Road and Bridge/Local/Other TBD	High	Moderate

1,3	Repair drainage problems and street damage caused by flooding	Flooding	Town Administration / Houston Co Road and Bridge	Houston Co Road and Bridge/Local/Other TBD	High	Moderate
5	Assess feasibility of additional elevated water tank for additional water supply needs from growth occurring along US Hwy 231 South	All	Houston Co Water Authority	Funding TBD	Medium	Moderate
4	Assess development of public sewer system in preparation from growth occurring along US Hwy 231 South	All	Town Administration	CDBG / Local / Other TBD	Medium	Low
2	Educate citizens that all fuel-burning equipment should be vented to the outside.	Winter / Ice Storms	Houston County EMA	Local	High	High
1	Include safety strategies for severe weather in driver education classes and materials.	Winter / Ice Storms	Houston County EMA, Dothan City Schools	Local	High	High
4	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Houston County EMA, LEPC	Local	Medium	High

Town of Rehobeth Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
1,3	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, participating in flood map updates, and providing flood risk information to the public	Flooding	Town Administration	HMGP/FMA/Local	High	High
4	Placement of individual safe rooms in community	High Winds	Dothan/Houston County EMA	HMGP/Private	High	High
4	Construction or retrofit existing building for community safe room with generator for first responders and vulnerable populations	All (primarily High Winds)	Town Administration / Dothan/Houston County EMA	HMGP/Local	High	Moderate

4	Repair drainage problems and street damage caused by flooding, especially along Leonard Drive	Flooding	Town Administration / Houston Co Road and Bridge	Houston Co Road and Bridge / Local	High	Moderate
1,3	Implement GIS mapping system to manage NFIP program and assist in emergency situations	All	Town Administration	Funding TBD	Medium	Moderate
5	Installation of additional outdoor warning siren to cover north side of Rehobeth	Storms/High Winds	Town Administration / Dothan/Houston County EMA	HMGP/Local	Medium	Moderate
5	Procure generator in Town Hall for support during emergency events	All	Town Administration / Dothan/Houston County EMA	HMGP/Local	High	Moderate

City of Taylor Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
2	Elevate two lift stations (Windy Hill Rd and Hwy 52) due to repeated flooding occurrences	Flooding	City Administration	Funding TBD	Medium	Moderate
5	Installation of additional outdoor warning sirens to cover western and southern areas of Taylor	Storms/High Winds	City Administration / Dothan/Houston County EMA	HMGP/Local	Medium	Moderate
5	Construct a community safe room that meets FEMA requirements for first responders and vulnerable populations	All (primarily High Winds)	City Administration / Dothan/Houston County EMA	HMGP/Local	Medium	Moderate
5	Development of municipal Emergency Operations Plan that complies with local, state, and federal regulations	All	City Administration / Dothan/Houston County EMA	Local	Medium	High
1	Continue participation in the NFIP through maintaining and administering the floodplain development regulations, participating in flood map updates, and providing flood risk information to the public	Flooding	City Administration	HMGP/FMA/Local	High	High
2	Install radio telemetry and SCADA system on sewer lift stations to protect infrastructure from natural and manmade threats	All	City Administration	Funding TBD	High	Moderate
5	Placement of individual safe rooms in community	High Winds	Dothan/Houston County EMA	HMGP/Private	High	High

### City of Taylor Mitigation Action Plan

Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
2	Elevate two lift stations (Windy Hill Rd and Hwy 52) due to repeated flooding occurrences	Flooding	City Administration	Funding TBD	Medium	Moderate
5	Installation of additional outdoor warning sirens to cover western and southern areas of Taylor	Storms/High Winds	City Administration / Dothan/Houston County EMA	HMGP/Local	Medium	Moderate
5	Construct a community safe room that meets FEMA requirements for first responders and vulnerable populations	All (primarily High Winds)	City Administration / Dothan/Houston County EMA	HMGP/Local	Medium	Moderate
5	Development of municipal Emergency Operations Plan that complies with local, state, and federal regulations	All	City Administration / Dothan/Houston County EMA	Local	Medium	High

Town of Webb Mitigation Action Plan					
Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
Continue participation in the NFIP through maintaining and administering the floodplain development regulations, participating in flood map updates, and providing flood risk information to the public	Flooding	Town Administration	HMGP/FMA/Local	High	High
Retrofit Webb Senior Center by adding wind fortification, generator, and storage facility to enhance its shelter status	All (primarily High Winds)	Town Administration	HMGP/CDBG/Local	High	Moderate
Placement of individual safe rooms in community	High Winds	Dothan/Houston County EMA	HMGP/Private	High	High
Procure generators for two water wells with no backup power source	All	Town Administration / Dothan/Houston County EMA	HMGP/Local	High	Moderate
Renovate the housing for Well #1, remove Tank #1, and install SCADA system on wells	All	Town Administration / Dothan/Houston County EMA	Local / Other TBD	High	Moderate
Implement GIS mapping system to manage NFIP program and utility services	All	Town Administration	Funding TBD	Medium	Moderate
Have interconnections with neighboring water systems for backup water sources	All	Town Administration	Funding TBD	Medium	Moderate
Installation of additional outdoor warning sirens to cover areas south of Hwy 52	All	Town Administration / Dothan/Houston County EMA	HMGP/Local	Medium	Moderate

#### **5.5.10      Pike County Jurisdictions Mitigation Actions**

- 1.      Pike County**
- 2.      Town of Banks**
- 3.      Town of Brundidge**
- 4.      Town of Goshen**
- 5.      City of Troy**
- 6.      Troy University**
- 7.      Pike County Schools**
- 8.      Troy City Schools**



Pike County Mitigation Action Plan						
Goal	Deleted Action Description	Hazards Addressed	Reason for Deletion of Action			
1	Review status of related programs and determine if they are currently active or an anticipated update is needed	All	The previous action was unclear in terms of which related programs and was determined to not be relevant to the mitigation strategy.			
2	Maintain the warning siren network through testing and upgrading equipment, as needed	All	Pike County has transitioned to an automated phone call warning system and will no longer be upgraded warning sirens.			
5	Installation of emergency generator for Trojan Arena, used as a public shelter during disaster events	High Winds	Action has been completed.			
6	Circulate information regarding drought status to local governments, local utilities, and other interested agencies	Drought / Extreme Heat	Drought information is readily available to all local governments, utilities and other interested parties.			
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Establish informal contacts to request data between various agencies. In the event an external organization	All	Pike County EMA	Local	Ongoing	High

	requires more formal arrangements, a Memorandum of Understanding between the respective organizations will be considered					
1	Maintain and review the local elements of the hazard mitigation plan as required by the Plan Maintenance section	All	Pike County EMA / LEPC	Local	Ongoing	High
1	Regularly gather data and determine needed revisions to accurately reflect local hazard events and impacts to Risk and Vulnerability assessment	All	Pike County EMA	HMGP/Local	Ongoing	High
1	Participate in the Drought Response, as applicable, during a Drought Declaration	Drought / Extreme Heath	Pike County EMA	Local	Ongoing	High
1	Limit economic development activity in areas with a risk for landslides and land subsidence.	Landslides, Subsidence	Local Planning and Building Officials	Local	High	High
1	Further investigate areas of topographical depressions to evaluate local risk for land subsidence or sinkholes.	Subsidence	Pike County EMA, Pike County Engineer	Local	Medium	High
1	Support Pike County EMA efforts to investigate areas of topographical depressions to evaluate local risk for land subsidence or sinkholes.	Subsidence	Pike County EMA, Pike County Engineer	Local	Medium	High
1	Identify at-risk populations that may be exceptionally	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High

	vulnerable in the event of long-term power outages.					
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
2	Maintain the warning siren network through testing, as needed	All	Pike County EMA	Local	Ongoing	High
2	Help mitigate flood risks on flood-prone roads by elevating roadways and installation of drainageways/drainage improvements.	Flooding	Pike County EMA/Pike County Engineering	HMGP/Local	Ongoing	Moderate
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Pike County EMA / SCADC	Local	Medium	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Pike County EMA, LEPC	Local	Medium	High
3	Assess vegetation in wildfire-prone areas to prevent landslides after fires.	Landslides	Pike County EMA, Alabama Forestry Commission	Local	Medium	High
4	Initiate local inventory of existing publicly- and privately-owned dams and record individual dam characteristics.	Dam Failure	Pike County EMA, Pike County Engineer, Local Building Officials	Local	Medium	High
4	Support Alabama Office of Water Resources efforts to record existing dams and their	Dam Failure	Pike County EMA, Pike County Engineer,	Local	Medium	High

	characteristics on a statewide basis.		Local Building Officials			
4	Assess public and highly populated facilities to determine how they can be retrofitted to withstand high wind events	High Winds	Pike County EMA / Pike County Engineer/Local Govt Administration	Local	High	Moderate
4	Facilitate the installation of community safe rooms in needed areas	High Winds	Pike County EMA	HMGP/Local	High	Moderate
4	Facilitate the installation of individual safe rooms	High Winds	Pike County EMA	HMGP/Local/Private	High	High
5	Acquisition of barricades and other traffic control devices for post-disaster management	All	Pike County EMA	DHS/Local	High	High
5	Maintain membership in the Alabama Mutual Aid System	All	Pike County EMA	Local/EMPG	Ongoing	High
5	Placement and maintenance of B-Con (Bleeding Control) stations in public buildings	All	Pike County EMA	DHS/Local	High	High
5	Procure and maintain generators for critical facilities	All	Pike County EMA, DHS, Schools, Local, University	HMGP/Pike Co Schools	High	Moderate
5	Review the legal basis for the existing mutual aid compact to ensure that loaning/borrowing equipment and payment for supplies and services can be properly executed and transacted under the Code of Alabama and any related regulations	All	Pike County EMA / County Commission	Local	Ongoing	High
5	Maintain existing emergency generators to	All	Pike County EMA, Local Officials	HMGP/Local	High	Moderate

	provide back-up power to critical facilities					
5	Limit non-critical water consumption during severe drought conditions	Drought / Ex. Heat	Local Water Systems	Local	Medium	High
5	Plan for and maintain adequate road and debris clearing capabilities.	High Winds, Winter / Ice Storms	Pike County EMA, Pike County Engineer, Greenville Public Works	Local	High	High
5	Disperse equipment and supplies to pre-designated locations when winter storm warnings or advisories are issued	Winter Storm	Pike County EMA	Local	Ongoing	High
5	Disperse equipment and supplies, such as de-icing chemicals, to pre-designated locations when winter storm warnings or advisories are issued	Winter Storm	Pike County EMA, Pike County Engineering	Local	Ongoing	High
6	Actively participate in natural hazard reporting and record keeping on local level to ensure that Pike County and its municipalities have an accurate record of past hazard events, including severity	All	Pike County EMA, Municipal Administrative Staff	Local	Medium	High
6	Investigate natural hazard reporting methodology on national level to ensure that Pike County has an accurate record of past hazard events, including severity	All	Pike County EMA	Local	Medium	High

6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Pike County EMA, Local Governments	Local	High	High
6	Continue communication with the general public annually to provide status update of hazard mitigation plan and ongoing implementation	All	Pike County EMA	Local	High	High
6	Continue coordination with various local agencies (e.g. DHR, Board of Education, local churches) to assist with distribution of information	All	Pike County EMA, Local Agencies	Local Agencies	High	High
6	Continue distribution of hazard-related coloring and activity books	All	Pike County EMA / Pike County Schools, Troy City Schools	Pike County EMA / County and City Schools	High	High
6	Continue LEPC meetings to provide regular updates to county, municipal, utility, and emergency personnel	All	Pike County EMA	Local	High	High
6	Continue utilization of information booth for display of informational materials at public events	All	Pike County EMA	Local Agencies / State Agencies	High	High
6	Continue utilization of website and social media with timely information for citizens	All	Pike County EMA	Local	High	High
6	Work with Pike County Farm Agency and County Extension Office to establish drought information center	Drought / EX. Heat	Pike County Officials	Local Agencies, other TBD	High	High



6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Pike County EMA / Pike Co. Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Pike County EMA	Local	Medium	High
6	Include earthquake potential in GIS hazard mapping for residents and design professionals.	Earthquake	Pike County EMA / SCADC	Local	Medium	High
6	Educate citizens that all fuel-burning equipment should be vented to the outside.	Winter / Ice Storms	Pike County EMA	Local	High	High
6	Encourage homeowners to install carbon monoxide monitors and alarms.	Winter / Ice Storms	Pike County EMA, Local Building Officials	Local	High	High
1,3	Continue participation in the NFIP through maintaining and administering the county's floodplain development regulations, enforcing subdivision regulations that minimize flood risk to new developments, participating in flood map updates, and providing flood risk information to the public	Flooding	NFIP Coordinator / Local Government Administration	HMGP/FMA/Local	High	High
1,5	Establish shared database where merchants can post locally available equipment and material. Conduct a feasibility study	All	Pike County EMA	Local	Ongoing	High

	including the network design and procedures					
1,5	Develop drought and heat indicator plan and warning system	Drought / EX. Heat	Farm Service Agency / County Extension Office	Local	High	High
1,6	Distribution of weather alert radios to citizens	All	Pike County EMA	Local/Private	High	High
2,3	Develop land management course of training with County Extension System for decrease of property damage	All	Pike County EMA / County Extension Service	Extension Service/Local	High	High
3,6	Multi-jurisdictional implementation of public awareness and education efforts about water conservation and quality	Drought / EX. Heat	Pike County EMA, Local Water Systems, Health Dept	Applicable Agencies/ Local	Medium	High
3,6	Establish education program on buffer construction and fire breaks in wildland interface areas	Wildfire	Pike County EMA, FPAs	AFC, Local, TBD	Medium	High
3,6	Support Alabama Forestry Commission efforts to educate private landowners on best practices	Wildfire	Pike County EMA, Fire Protection Authorities, Building Officials	Local	Medium	High
5,6	Encourage participation in the Pike County Mass Notification System for emergency hazard events.	All	Pike County EMA	Pike County EMA	High	High

Town of Banks Mitigation Action Plan						
Goal	Deleted Action Description	Hazards Addressed	Reason for Deletion of Action			
2	Maintain the warning siren network through testing and upgrading equipment, as needed	All	Pike County has transitioned to an automated phone call warning system and will no longer be upgraded warning sirens.			
4	Installation of one individual safe room	High Winds	Action has been completed.			
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Limit economic development activity in areas with a risk for landslides and land subsidence.	Landslides, Subsidence	Local Planning and Building Officials	Local	High	High
1	Support Pike County EMA efforts to investigate areas of topographical depressions to evaluate local risk for land subsidence or sinkholes.	Subsidence	Pike County EMA, Pike County Engineer	Local	Medium	High
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Pike County EMA, LEPC	Local	Medium	High

2	Maintain the warning siren network through testing, as needed	All	Pike County EMA	Local	Ongoing	High
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Pike County EMA / SCADC	Local	Medium	High
3	Assess vegetation in wildfire-prone areas to prevent landslides after fires.	Landslides	Pike County EMA, Alabama Forestry Commission	Local	Medium	High
4	Initiate local inventory of existing publicly- and privately-owned dams and record individual dam characteristics.	Dam Failure	Pike County EMA, Pike County Engineer, Local Building Officials	Local	Medium	High
4	Assess public and highly populated facilities to determine how they can be retrofitted to withstand high wind events	High Winds	Pike County EMA / Pike County Engineer/Local Govt Administration	Local	High	Moderate
4	Support Alabama Office of Water Resources efforts to record existing dams and their characteristics on a statewide basis.	Dam Failure	Pike County EMA, Pike County Engineer, Local Building Officials	Local	Medium	High
4	Construction of community safe rooms in critical locations	High Winds	Pike County EMA/Local Govt Administration	ADECA/HMGP/Local	High	Moderate
4	Facilitate the placement of additional safe rooms in community	High Winds	Pike County EMA	HMGP/Private	High	High
5	Placement and maintenance of B-Con (Bleeding Control) stations in public buildings	All	Pike County EMA	DHS/Local	High	High
5	Procure and maintain generators for critical facilities	All	Pike County EMA, DHS, Schools, Local, University	HMGP/Pike Co Schools	High	Moderate
5	Maintain existing emergency generators to provide back-up power to critical facilities	All	Pike County EMA, Local Officials	HMGP/Local	High	Moderate
5	Limit non-critical water consumption during severe drought conditions	Drought / Ex. Heat	Local Water Systems	Local	Medium	High
5	Plan for and maintain adequate road and debris clearing capabilities.	High Winds, Winter Storms	Pike County EMA, Pike County Engineer	Local	High	High

5	Acquisition of barricades and other traffic control devices for post-disaster management.	All	Pike County EMA	DHS/Local	High	High
6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Pike County EMA, Local Governments	Local	High	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Pike County EMA / Pike Co. Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Pike County EMA	Local	Medium	High
6	Actively participate in natural hazard reporting and record keeping on local level to ensure that Pike County and its municipalities have an accurate record of past hazard events, including severity	All	Pike County EMA, Municipal Administrative Staff	Local	Medium	High
6	Continue coordination with various local agencies (e.g. DHR, Board of Education, local churches) to assist with distribution of information	All	Pike County EMA, Local Agencies	Local Agencies	High	High
6	Educate citizens that all fuel-burning equipment should be vented to the outside.	Winter / Ice Storms	Pike County EMA	Local	High	High
6	Encourage homeowners to install carbon monoxide monitors and alarms.	Winter / Ice Storms	Pike County EMA, Local Building Officials	Local	High	High
1,3	Adopt floodplain management regulations to meet NFIP requirements for reducing flood hazards	Flooding	Administration/NFI P Coordinator	Local	Medium	High
1,6	Distribution of weather alert radios to citizens	All	Pike County EMA	Local/Private	High	High
3,6	Multi-jurisdictional implementation of public awareness and education efforts about water conservation and quality	Drought / EX. Heat	Pike County EMA, Local Water Systems, Health Dept	Applicable Agencies/ Local	Medium	High
3,6	Establish education program on buffer construction and fire breaks in wildland interface areas	Wildfire	Pike County EMA, FPAs	AFC, Local, TBD	Medium	High

3,6	Support Alabama Forestry Commission efforts to educate private landowners on best practices	Wildfire	Pike County EMA, Fire Protection Authorities, Building Officials	Local	Medium	High
5,6	Encourage participation in the Pike County Mass Notification System for emergency hazard events.	All	Pike County EMA	Pike County EMA	High	High
<b>Town of Brundidge Mitigation Action Plan</b>						
Goal	Deleted Action Description	Hazards Addressed	Reason for Deletion of Action			
2	Maintain the warning siren network through testing and upgrading equipment, as needed	All	Pike County has transitioned to an automated phone call warning system and will no longer be upgraded warning sirens.			
4	Installation of three individual safe rooms	High Winds	Action has been completed.			
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Limit economic development activity in areas with a risk for landslides and land subsidence.	Landslides, Subsidence	Local Planning and Building Officials	Local	High	High
1	Support Pike County EMA efforts to investigate areas of topographical depressions to evaluate local risk for land subsidence or sinkholes.	Subsidence	Pike County EMA, Pike County Engineer	Local	Medium	High
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High

2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Pike County EMA, LEPC	Local	Medium	High
2	Maintain the warning siren network through testing, as needed.	All	Pike County EMA	Local	Ongoing	High
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Pike County EMA / SCADC	Local	Medium	High
2	Investigate means to mitigate flooding of Mims Creek onto residential properties on Johnson and Gilmore Streets.	Flooding	Pike County EMA/Local Govt Administration	HMGP/Local	Ongoing	Moderate
3	Assess vegetation in wildfire-prone areas to prevent landslides after fires.	Landslides	Pike County EMA, Alabama Forestry Commission	Local	Medium	High
4	Initiate local inventory of existing publicly- and privately-owned dams and record individual dam characteristics.	Dam Failure	Pike County EMA, Pike County Engineer, Local Building Officials	Local	Medium	High
4	Assess public and highly populated facilities to determine how they can be retrofitted to withstand high wind events	High Winds	Pike County EMA / Pike County Engineer/Local Govt Administration	Local	High	Moderate
4	Support Alabama Office of Water Resources efforts to record existing dams and their characteristics on a statewide basis.	Dam Failure	Pike County EMA, Pike County Engineer, Local Building Officials	Local	Medium	High
4	Construction of community safe rooms in critical locations	High Winds	Pike County EMA/Local Govt Administration	ADECA/HMGP/Local	High	Moderate
4	Facilitate the placement of additional safe rooms in community	High Winds	Pike County EMA	HMGP/Private	High	High
5	Placement and maintenance of B-Con (Bleeding Control) stations in public buildings	All	Pike County EMA	DHS/Local	High	High
5	Procure and maintain generators for critical facilities	All	Pike County EMA,DHS, Schools, Local, University	HMGP/Pike Co Schools	High	Moderate



5	Maintain existing emergency generators to provide back-up power to critical facilities	All	Pike County EMA, Local Officials	HMGP/Local	High	Moderate
5	Limit non-critical water consumption during severe drought conditions	Drought / Ex. Heat	Local Water Systems	Local	Medium	High
5	Plan for and maintain adequate road and debris clearing capabilities.	High Winds, Winter / Ice Storms	Pike County EMA, Pike County Engineer, Brundidge Public Works	Local	High	High
5	Acquisition of barricades and other traffic control devices for post-disaster management.	All	Pike County EMA	DHS/Local	High	High
6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Pike County EMA, Local Governments	Local	High	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Pike County EMA / Pike Co. Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Pike County EMA	Local	Medium	High
6	Actively participate in natural hazard reporting and record keeping on local level to ensure that Pike County and its municipalities have an accurate record of past hazard events, including severity	All	Pike County EMA, Municipal Administrative Staff	Local	Medium	High
6	Continue coordination with various local agencies (e.g. DHR, Board of Education, local churches) to assist with distribution of information	All	Pike County EMA, Local Agencies	Local Agencies	High	High
6	Educate citizens that all fuel-burning equipment should be vented to the outside.	Winter / Ice Storms	Pike County EMA	Local	High	High
6	Encourage homeowners to install carbon monoxide monitors and alarms.	Winter / Ice Storms	Pike County EMA, Local Building Officials	Local	High	High
1,3	Continue participation in the NFIP through maintaining and administering the county's floodplain development regulations, enforcing subdivision	Flooding	NFIP Coordinator / Local Government Administration	HMGP/FMA/Local	High	High

	regulations that minimize flood risk to new developments, participating in flood map updates, and providing flood risk information to the public					
1,6	Distribution of weather alert radios to citizens	All	Pike County EMA	Local/Private	High	High
3,6	Multi-jurisdictional implementation of public awareness and education efforts about water conservation and quality	Drought / EX. Heat	Pike County EMA, Local Water Systems, Health Dept	Applicable Agencies/ Local	Medium	High
3,6	Establish education program on buffer construction and fire breaks in wildland interface areas	Wildfire	Pike County EMA, FPAs	AFC, Local, TBD	Medium	High
3,6	Support Alabama Forestry Commission efforts to educate private landowners on best practices	Wildfire	Pike County EMA, Fire Protection Authorities, Building Officials	Local	Medium	High
5,6	Encourage participation in the Pike County Mass Notification System for emergency hazard events.	All	Pike County EMA	Pike County EMA	High	High

Town of Goshen Mitigation Action Plan						
Goal	Deleted Action Description	Hazards Addressed	Reason for Deletion of Action			
2	Maintain the warning siren network through testing and upgrading equipment, as needed	All	Pike County has transitioned to an automated phone call warning system and will no longer be upgraded warning sirens.			
4	Installation of five individual safe rooms	High Winds	Action has been completed.			
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Limit economic development activity in areas with a risk for landslides and land subsidence.	Landslides, Subsidence	Local Planning and Building Officials	Local	High	High
1	Support Pike County EMA efforts to investigate areas of topographical depressions to evaluate local risk for land subsidence or sinkholes.	Subsidence	Pike County EMA, Pike County Engineer	Local	Medium	High
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Pike County EMA, LEPC	Local	Medium	High
2	Maintain the warning siren network through testing as needed	All	Pike County EMA	Local	Ongoing	High
2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Pike County EMA / SCADC	Local	Medium	High
3	Assess vegetation in wildfire-prone areas to prevent landslides after fires.	Landslides	Pike County EMA, Alabama Forestry Commission	Local	Medium	High

4	Initiate local inventory of existing publicly- and privately-owned dams and record individual dam characteristics.	Dam Failure	Pike County EMA, Pike County Engineer, Local Building Officials	Local	Medium	High
4	Assess public and highly populated facilities to determine how they can be retrofitted to withstand high wind events	High Winds	Pike County EMA / Pike County Engineer/Local Govt Administration	Local	High	Moderate
4	Support Alabama Office of Water Resources efforts to record existing dams and their characteristics on a statewide basis.	Dam Failure	Pike County EMA, Pike County Engineer, Local Building Officials	Local	Medium	High
4	Construction of community safe rooms in critical locations	High Winds	Pike County EMA/Local Govt Administration	ADECA/HMGP/Local	High	Moderate
4	Facilitate the placement of additional safe rooms in community	High Winds	Pike County EMA	HMGP/Private	High	High
5	Placement and maintenance of B-Con (Bleeding Control) stations in public buildings	All	Pike County EMA	DHS/Local	High	High
5	Procure and maintain generators for critical facilities	All	Pike County EMA,DHS, Schools, Local, University	HMGP/Pike Co Schools	High	Moderate
5	Maintain existing emergency generators to provide back-up power to critical facilities	All	Pike County EMA, Local Officials	HMGP/Local	High	Moderate
5	Limit non-critical water consumption during severe drought conditions	Drought / Ex. Heat	Local Water Systems	Local	Medium	High
5	Plan for and maintain adequate road and debris clearing capabilities.	High Winds, Winter / Ice Storms	Pike County EMA, Pike County Engineer	Local	High	High
5	Acquisition of barricades and other traffic control devices for post-disaster management.	All	Pike County EMA	DHS/Local	High	High
6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Pike County EMA, Local Governments	Local	High	High

6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Pike County EMA / Pike Co. Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Pike County EMA	Local	Medium	High
6	Actively participate in natural hazard reporting and record keeping on local level to ensure that Pike County and its municipalities have an accurate record of past hazard events, including severity	All	Pike County EMA, Municipal Administrative Staff	Local	Medium	High
6	Continue coordination with various local agencies (e.g. DHR, Board of Education, local churches) to assist with distribution of information	All	Pike County EMA, Local Agencies	Local Agencies	High	High
6	Educate citizens that all fuel-burning equipment should be vented to the outside.	Winter / Ice Storms	Pike County EMA	Local	High	High
6	Encourage homeowners to install carbon monoxide monitors and alarms.	Winter / Ice Storms	Pike County EMA, Local Building Officials	Local	High	High
6	Continue incorporation of hazard mitigation awareness in local schools	All	Pike County Board of Education	Pike County Schools / County EMA	High	High
1,3	Continue participation in the NFIP through maintaining and administering the county's floodplain development regulations, enforcing subdivision regulations that minimize flood risk to new developments, participating in flood map updates, and providing flood risk information to the public	Flooding	NFIP Coordinator / Local Government Administration	HMGP/FMA/Local	High	High
1,6	Distribution of weather alert radios to citizens	All	Pike County EMA	Local/Private	High	High
3,6	Multi-jurisdictional implementation of public awareness and education efforts about water conservation and quality	Drought / EX. Heat	Pike County EMA, Local Water Systems, Health Dept	Applicable Agencies/ Local	Medium	High
3,6	Establish education program on buffer construction and fire breaks in wildland interface areas	Wildfire	Pike County EMA, FPAs	AFC, Local, TBD	Medium	High

3,6	Support Alabama Forestry Commission efforts to educate private landowners on best practices	Wildfire	Pike County EMA, Fire Protection Authorities, Building Officials	Local	Medium	High
5,6	Encourage participation in the Pike County Mass Notification System for emergency hazard events.	All	Pike County EMA	Pike County EMA	High	High

City of Troy Mitigation Action Plan						
Goal	Deleted Action Description	Hazards Addressed	Reason for Deletion of Action			
2	Maintain the warning siren network through testing <del>and upgrading equipment</del> , as needed	All	Pike County has transitioned to an automated phone call warning system and will no longer be upgraded warning sirens.			
4	Installation of seven individual safe rooms	High Winds	Action has been completed.			
5	Completion of Enzor Road Connector Project that will provide additional emergency accessibility to southeastern areas of Troy	All	Action has been completed.			
5	Installation of emergency generator at Troy Regional Medical Center	All	Action has been completed.			
5	Procurement of trailer for efficient transport of HazMat equipment to disasters	All	Action has been completed.			
5	Through partnership with Troy City Schools, placement of new fire station on Elba Highway to serve areas west of US Hwy 231	All	Action has been completed.			
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Limit economic development activity in areas with a risk for landslides and land subsidence.	Landslides, Subsidence	Local Planning and Building Officials	Local	High	High
1	Support Pike County EMA efforts to investigate areas of topographical depressions to evaluate local risk for land subsidence or sinkholes.	Subsidence	Pike County EMA, Pike County Engineer	Local	Medium	High
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Pike County EMA, LEPC	Local	Medium	High
2	Maintain the warning siren network through testing and upgrading equipment, as needed	All	Pike County EMA	Local	Ongoing	High



2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Pike County EMA / SCADC	Local	Medium	High
3	Assess vegetation in wildfire-prone areas to prevent landslides after fires.	Landslides	Pike County EMA, Alabama Forestry Commission	Local	Medium	High
4	Initiate local inventory of existing publicly- and privately-owned dams and record individual dam characteristics.	Dam Failure	Pike County EMA, Pike County Engineer, Local Building Officials	Local	Medium	High
4	Assess public and highly populated facilities to determine how they can be retrofitted to withstand high wind events	High Winds	Pike County EMA / Pike County Engineer/Local Govt Administration	Local	High	Moderate
4	Support Alabama Office of Water Resources efforts to record existing dams and their characteristics on a statewide basis.	Dam Failure	Pike County EMA, Pike County Engineer, Local Building Officials	Local	Medium	High
4	Construction of community safe rooms in critical locations	High Winds	Pike County EMA/Local Govt Administration	ADECA/HMGP/Local	High	Moderate
4	Facilitate the placement of additional safe rooms in community	High Winds	Pike County EMA	HMGP/Private	High	High
4	Installation of seven individual safe rooms	High Winds	Pike County EMA	HMGP/Private	Completed	N/A
5	Placement and maintenance of B-Con (Bleeding Control) stations in public buildings	All	Pike County EMA	DHS/Local	High	High
5	Maintain existing emergency generators to provide back-up power to critical facilities	All	Pike County EMA, Local Officials	HMGP/Local	High	Moderate
5	Limit non-critical water consumption during severe drought conditions	Drought / Ex. Heat	Local Water Systems	Local	Medium	High
5	Plan for and maintain adequate road and debris clearing capabilities.	High Winds, Winter / Ice Storms	Pike County EMA, Pike County Engineer, Troy Public Works	Local	High	High
5	Acquisition of barricades and other traffic control devices for post-disaster management.	All	Pike County EMA	DHS/Local	High	High
5	Acquisition of barricades and other traffic control devices for post-disaster management	All	Pike County EMA	DHS/Local	High	High

5	Completion of Enzor Road Connector Project that will provide additional emergency accessibility to southeastern areas of Troy	All	City Administration	Local	Ongoing	Moderate
5	Develop of new communications tower to facilitate emergency communications between multiple agencies and jurisdictions	All	Pike County EMA/Pike County LEPC	Federal/ Local	High	Moderate
5	Installation of emergency generator at Troy Regional Medical Center	All	Troy Regional Medical Center	Private	Completed	N/A
5	Maintain B-Con (Bleeding Control) stations in public buildings	All	Pike County EMA	DHS/Local	High	High
5	Procurement of trailer for efficient transport of HazMat equipment to disasters	All	Troy Fire Department	Federal/Local	High	High
5	Through partnership with Troy City Schools, placement of new fire station on Elba Highway to serve areas west of US Hwy 231	All	City Administration	Local	Ongoing	High
6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Pike County EMA, Local Governments	Local	High	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Pike County EMA / Pike Co. Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Pike County EMA	Local	Medium	High
6	Actively participate in natural hazard reporting and record keeping on local level to ensure that Pike County and its municipalities have an accurate record of past hazard events, including severity	All	Pike County EMA, Municipal Administrative Staff	Local	Medium	High
6	Continue coordination with various local agencies (e.g. DHR, Board of Education, local churches) to assist with distribution of information	All	Pike County EMA, Local Agencies	Local Agencies	High	High
6	Educate citizens that all fuel-burning equipment should be vented to the outside.	Winter / Ice Storms	Pike County EMA	Local	High	High
6	Encourage homeowners to install carbon monoxide monitors and alarms.	Winter / Ice Storms	Pike County EMA, Local Building Officials	Local	High	High
1,3	Continue participation in the NFIP through maintaining and administering the county's floodplain development regulations, enforcing subdivision regulations that minimize flood risk to new developments, participating in flood map	Flooding	NFIP Coordinator / Local Government Administration	HMGP/FMA/Local	High	High

	updates, and providing flood risk information to the public					
1,6	Distribution of weather alert radios to citizens	All	Pike County EMA	Local/Private	High	High
3,6	Multi-jurisdictional implementation of public awareness and education efforts about water conservation and quality	Drought / EX. Heat	Pike County EMA, Local Water Systems, Health Dept	Applicable Agencies/ Local	Medium	High
3,6	Establish education program on buffer construction and fire breaks in wildland interface areas	Wildfire	Pike County EMA, FPAs	AFC, Local, TBD	Medium	High
3,6	Support Alabama Forestry Commission efforts to educate private landowners on best practices	Wildfire	Pike County EMA, Fire Protection Authorities, Building Officials	Local	Medium	High
5,6	Encourage participation in the Pike County Mass Notification System for emergency hazard events.	All	Pike County EMA	Pike County EMA	High	High

Troy University Mitigation Action Plan						
Goal	Deleted Action Description	Hazards Addressed	Reason for Deletion of Action			
5	Installation of emergency generator for Trojan Arena, used as a public shelter during disaster events	High Winds	Action has been completed.			
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Pike County EMA, LEPC	Local	Medium	High
4	Provide isolation rooms in school facilities for pandemic children until they can be picked up.	All	Pike County Schools	HMGP/Local	High	Moderate
4	Facilitate the placement and construction of additional safe rooms on campus	High Winds	Pike EMA, Troy University	HMPG/University	High	Moderate
5	Placement and maintenance of B-Con (Bleeding Control) stations in public buildings	All	Pike County EMA	DHS/Local	High	High
5	Maintain existing emergency generators to provide back-up power to critical facilities	All	Pike County EMA, Local Officials	HMGP/Local	High	Moderate
5	Limit non-critical water consumption during severe drought conditions	Drought / Ex. Heat	Local Water Systems	Local	Medium	High
5	Procure and maintain generators for critical facilities	All	Pike County EMA,DHS, Schools, Local, University	HMGP/Pike Co Schools	High	Moderate
6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Pike County EMA, Local Governments	Local	High	High

6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Pike County EMA / Pike Co. Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Pike County EMA	Local	Medium	High
6	Actively participate in natural hazard reporting and record keeping on local level to ensure that Pike County and its municipalities have an accurate record of past hazard events, including severity	All	Pike County EMA, Municipal Administrative Staff	Local	Medium	High
6	Include safety strategies for severe weather in driver education classes and materials.	Winter / Ice Storms	Pike County EMA, Pike County Schools	Local	High	High
6	Continue utilization of website and social media with timely information for citizens	All	Pike County EMA	Local	High	High
1,6	Purchase and distribute weather alert radios to all major offices on campus	All	Pike EMA, University	University	High	High
3,6	Multi-jurisdictional implementation of public awareness and education efforts about water conservation and quality	Drought / EX. Heat	Pike County EMA, Local Water Systems, Health Dept	Applicable Agencies/ Local	Medium	High
4,5,6	Investigate potential to utilize school busses as mobile hot spots to provide communication and Internet availability during disaster and/or pandemic events.	All	Pike County EMA, Pike County Schools, Troy City Schools	Local	High	High
5,6	Encourage participation in the Pike County Mass Notification System for emergency hazard events.	All	Pike County EMA	Pike County EMA	High	High

Pike County Schools Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Pike County EMA, LEPC	Local	Medium	High
4	Initiate local inventory of existing publicly- and privately-owned dams and record individual dam characteristics.	Dam Failure	Pike County EMA, Pike County Engineer, Local Building Officials	Local	Medium	High
4	Assess public and highly populated facilities to determine how they can be retrofitted to withstand high wind events	High Winds	Pike County EMA / Pike County Engineer/Local Govt Administration	Local	High	Moderate
4	Provide isolation rooms in school facilities for pandemic children until they can be picked up.	All	Pike County Schools	HMGP/Local	High	Moderate
4	Provide safe rooms or shelter spaces in school facilities for student and staff safety	High Winds	Pike County Schools/Troy City Schools	HMGP/Pike Co Schools/Troy City Schools	High	Moderate
5	Placement and maintenance of B-Con (Bleeding Control) stations in public buildings	All	Pike County EMA	DHS/Local	High	High
5	Procure and maintain generators for critical facilities	All	Pike County EMA,DHS, Schools, Local, University	HMGP/Pike Co Schools	High	Moderate
5	Maintain existing emergency generators to provide back-up power to critical facilities	All	Pike County EMA, Local Officials	HMGP/Local	High	Moderate
5	Limit non-critical water consumption during severe drought conditions	Drought / Ex. Heat	Local Water Systems	Local	Medium	High

6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Pike County EMA, Local Governments	Local	High	High
6	Continue distribution of hazard-related coloring and activity books	All	Pike County EMA / Pike County Schools, Troy City Schools	Pike County EMA / County and City Schools	High	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Pike County EMA / Pike Co. Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Pike County EMA	Local	Medium	High
6	Include safety strategies for severe weather in driver education classes and materials.	Winter / Ice Storms	Pike County EMA, Pike County Schools	Local	High	High
4,5,6	Investigate potential to utilize school busses as mobile hot spots to provide communication and Internet availability during disaster and/or pandemic events.	All	Pike County EMA, Pike County Schools, Troy City Schools	Local	High	High
5,6	Encourage participation in the Pike County Mass Notification System for emergency hazard events.	All	Pike County EMA	Pike County EMA	High	High



Troy City Schools Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority	Benefit / Cost Score
2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Pike County EMA, LEPC	Local	Medium	High
4	Initiate local inventory of existing publicly- and privately-owned dams and record individual dam characteristics.	Dam Failure	Pike County EMA, Pike County Engineer, Local Building Officials	Local	Medium	High
4	Assess public and highly populated facilities to determine how they can be retrofitted to withstand high wind events	High Winds	Pike County EMA / Pike County Engineer/Local Govt Administration	Local	High	Moderate
4	Provide isolation rooms in school facilities for pandemic children until they can be picked up.	All	Pike County Schools	HMGP/Local	High	Moderate
4	Provide safe rooms or shelter spaces in school facilities for student and staff safety	High Winds	Pike County Schools/Troy City Schools	HMGP/Pike Co Schools/Troy City Schools	High	Moderate
5	Placement and maintenance of B-Con (Bleeding Control) stations in public buildings	All	Pike County EMA	DHS/Local	High	High
5	Maintain existing emergency generators to provide back-up power to critical facilities	All	Pike County EMA, Local Officials	HMGP/Local	High	Moderate
5	Limit non-critical water consumption during severe drought conditions	Drought / Ex. Heat	Local Water Systems	Local	Medium	High
5	Procure and maintain generators for critical facilities	All	Pike County EMA,DHS, Schools, Local, University	HMGP/Pike Co Schools	High	Moderate
6	Continue communication with general public to promote participation in county's mass communication/ notification system.	All	Pike County EMA, Local Governments	Local	High	High
6	Develop an outreach program about earthquake risk and mitigation activities in homes, schools, and businesses.	Earthquake	Pike County EMA / Pike Co. Schools	Local	Medium	High
6	Educate homeowners on safety techniques to follow during and after an earthquake.	Earthquake	Pike County EMA	Local	Medium	High
6	Continue distribution of hazard-related coloring and activity books	All	Pike County EMA / Pike County Schools, Troy City Schools	Pike County EMA / County and City Schools	High	High

5,6	Encourage participation in the Pike County Mass Notification System for emergency hazard events.	All	Pike County EMA	Pike County EMA	High	High
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## **Section 6 - Plan Maintenance Process**

This section of the plan addressed requirements of Interim Final Rule (IFR) Section 201.6(c)(4).

### **Section Contents**

- 6.1 Hazard Mitigation Plan Monitoring, Evaluation, and Update Process
- 6.2 Hazard Mitigation Plan Incorporation
- 6.3 Public Awareness/Participation

## **6.1 Hazard Mitigation Plan Monitoring, Evaluation, and Update Process**

The Southeast Alabama Regional Planning and Development Commission (SEARP&DC) will facilitate plan maintenance activities with assistance from the AEMA Division B Regional Coordinator, local EMA directors, and the South Central Alabama Development Commission (SCADC) through the five-year framework of the Hazard Mitigation Plan. Local EMA directors will serve as a liaison to participating jurisdictions within their respective counties through their local processes, such as Local Emergency Planning Committee (LEPC) or similar stakeholder groups. The plan monitoring and review process shall be chaired by the elected AAEM representative (currently Ronnie Dollar, Henry County EMA Director), from AEMA Division B. Election of an AAEM representative occurs every summer on an annual basis. Periodic review and revision of the Hazard Mitigation Plan is important to ensure the plan's currency and compliance with applicable regulations and to assess the progress of local mitigation actions. Review and revision of the Hazard Mitigation Plan may occur through the following two procedures:

### **Annual Review Process**

On at least an annual basis, each participating county EMA official shall facilitate a meeting in their respective county and include local jurisdictions and other stakeholders, such as the Local Emergency Planning Committee. The exact meeting process in each participating county will be slightly different. At a minimum, the scope of the annual county-level plan review meeting will be to review and evaluate completed mitigation actions for effectiveness, review status of high-priority or ongoing mitigation actions, discuss possible changes to hazard vulnerability or other elements of the risk assessment, assess any major land use changes, and discuss any other relevant issue pertaining to the Hazard Mitigation Plan. The general public will be invited to attend this meeting through public outreach, as further described in Section 6.3 below, and encouraged to provide their input into the annual review.

Subsequently, a regional meeting between SEARP&DC, local EMA officials, AEMA Division B Coordinator, and regional stakeholders will be held to review information collected at the county-level meetings and revise the plan. It is viewed appropriate by the local EMA directors that this meeting shall normally coincide with an AEMA Division B quarterly meeting. Any major revision made to the Hazard Mitigation Plan that affects the region as a whole will be distributed to all jurisdictions for adoption in a public session. Otherwise, any project added to a specific Jurisdictional Mitigation Action Plan will be adopted by that specific jurisdiction in a public session.

### **Emergency Review Process**

In certain instances, such as a disaster occurrence impacting a participating jurisdiction, the full Annual Review Process may not be timely enough to address unforeseen issues created by a particular event. In these situations, a county EMA official may facilitate a county-level plan review meeting, similar to the process described above in the Annual Review Process, with the requisite public outreach. Once this meeting is completed, a local amendment may be adopted by a participating jurisdiction that only pertains to the revision of their specific Jurisdictional Mitigation Action Plan in a public session. After any local amendment, the local county EMA official shall submit documentation of the local amendment to the Chair of the plan monitoring and review process.

### **Five-Year Plan Update**

Before the five-year expiration of the Hazard Mitigation Plan, a thorough review, beginning approximately 18 months prior to plan expiration, shall be held to determine any significant changes in the AEMA Division B planning area that may affect the region's vulnerability to hazard impacts, and an evaluation of the mitigation strategy and jurisdictional mitigation action plans developed as part of this process. The three AEMA Division B counties not fully inserted into this plan will be approached about possible inclusion in future plan updates. This plan update shall incorporate any changes to federal or state regulations that may affect the Hazard Mitigation Plan contents. The plan update process will follow a locally-driven, public process, similar to the plan review processes outlined above.

In addition, multiple state, regional, and local partners will be consulted to provide data or consultation in plan formation. Consulting entities will include: the U.S. Army Corps of Engineers, PowerSouth Electrical Cooperative, Alabama Forestry Commission, Geological Survey of Alabama (GSA), Alabama Department of Public Health (ADPH), Alabama Department of Transportation (ALDOT), Alabama Department of Environmental Management (ADEM), Alabama Historical Commission (AHC), neighboring county EMA offices, regional academic providers, and private sector entities, such as local chambers of commerce and the American Red Cross. Upon completion of this review and update, the updated Hazard Mitigation Plan will be submitted to the AEMA and FEMA for review and approval.

## **6.2 Hazard Mitigation Plan Incorporation**

Once the Regional Hazard Mitigation Plan is "approvable upon adoption" by FEMA, each jurisdiction shall proceed with adoption procedures. Each proposed action listed in the jurisdictional mitigation action plans are assigned to one or multiple lead agencies or departments in order to assign responsibility and accountability of action implementation to specific sources. In addition to the assigned local agency or department, each mitigation action plan also has a priority or status assigned that roughly coincides with an implementation timeline. The local jurisdictions in AEMA Division B will work to seek to provide operational funding to actions that are ongoing and seek outside funding for capital projects that are outside the realm of normal funding during both pre-disaster and post-disaster periods.

The participating jurisdictions will integrate this Hazard Mitigation Plan into appropriate and relevant municipal and county government decision-making processes, where feasible. This includes integrating the findings of the Hazard Mitigation Plan into documents, such as comprehensive or master plans, future land use plans, subdivision regulations, building regulations, capital improvement plans, or similar mechanisms. Local EMA officials or planning staffs of the appropriate regional planning council will provide technical assistance for incorporation, upon request. The participating jurisdictions will also work to ensure the goals and actions of local planning documents are consistent with the goals and mitigation actions of the Hazard Mitigation Plan, and will not introduce additional hazard vulnerabilities to the local area and region at-large. The local comprehensive plans, however, are long-range in nature, often with 20-year goals and are only updated every 10 to 15 years. During the last five

years of the hazard mitigation review cycle, none of the municipalities in Barbour, Butler, Coffee, Covington, Crenshaw, Dale, Geneva, Henry, Houston, or Pike Counties have developed new, or updated existing, comprehensive plans or land use plans. Known communities that are in the process of beginning the comprehensive planning update process include Arifton, in Dale County; River Falls, in Covington County; Luverne, in Crenshaw County; Daleville, in Dale County; Taylor, in Houston County; Rehoboth, in Houston County; and Brundidge, in Pike County. As communities update their long-range planning documents, the goals and actions of the appropriate county hazard mitigation plan will be incorporated in the planning documents, as appropriate and feasible. Beyond the local comprehensive planning process, projects identified in the hazard mitigation plan are often incorporated into a local government's community development program. Examples include Community Development Block Grant (CDBG) applications for a community shelter or road and drainage improvements. Local EMA directors will incorporate applicable information from this Hazard Mitigation Plan into other required emergency management plans, including each county's Emergency Operations Plan and county THIRAs. During county-level plan reviews, participating communities will be asked to record the planning documents in which elements of the Hazard Mitigation Plan were incorporated.

The Hazard Mitigation Plan will also be provided to the Southeast Alabama Regional Planning and Development Commission (SEARP&DC) and the South Central Alabama Development Commission (SCADC) for consistency with other regional planning and economic development activities, as well as local economic development councils.

### **6.3 Public Awareness/Participation**

Public participation in the hazard mitigation planning process, including monitoring and review of the existing plan, and development and adoption of future plans, is a very important component. Though concerted efforts were made to engage the general public in the hazard mitigation planning process through multiple county-level meetings that were advertised through several methods, there were very few unaffiliated members of the public that participated.

Efforts will increase to involve local and state government agencies, businesses, academia, and the general public in the ongoing mitigation planning process to the maximum extent possible.

As described in the Monitoring, Evaluation, and Update process, any significant changes, amendments, or updates to the Hazard Mitigation Plan shall be discussed in open meetings prior to any adoption procedures. Any plan updates or major revisions will be adopted during a public session. The public will be informed of public hearings and other Hazard Mitigation related meetings through a variety of media sources, including but not limited to: local newspaper advertisements and notices, radio advertising, postings at high traffic community areas (e.g. libraries and government buildings), booths at local Severe Weather Expo events, social media such as local Facebook pages, telephone messages, and various websites such as local EMA offices, SEARP&DC, and Open Meetings websites. SEARP&DC and local EMA offices will keep public copies and provide copies of the Hazard Mitigation Plan to each County Commission office, seats of government in each municipality, and other appropriate

public locations. SEARP&DC will post a copy of the Hazard Mitigation Plan on the Data Center portion of its website. Press releases will be published via various media to inform the general public and stakeholders that the Hazard Mitigation Plan is available for review, where to find the Hazard Mitigation Plan, and how they can play a role in its creation and future revisions.



# **Butler County Public Participation**

**AEMA DIVISION B HAZARD MITIGATION PLAN  
BUTLER COUNTY STAKEHOLDER MEETING – JUNE 25, 2020**

**AGENDA**

1. Welcome and Introductions
2. Hazard Mitigation Overview
3. Butler County Local Emergency Planning Committee
4. Community Profile
5. Risk Assessment
6. Critical Facilities
7. AEMA Division B Goals
8. Butler County Mitigation Strategies
9. Next Meeting and Adjourn

**PDMC-04-AL-2018-005 - AEMA DIVISION B HAZARD MITIGATION PLAN  
BUTLER COUNTY STAKEHOLDER MEETING – JUNE 25, 2020**

## ATTENDANCE ROSTER

*Please Sign In Below*

Name:

**Organization:**

**E-mail:**

Michael Vigor	Butler Co. EMA	BCEMA@Butlercoal.us
Tim Warrick	Greenville Fire Dept.	tim@cityofgville.com
LeAnn Waters	Town of McKenzie	mckenzie.m@centurytel.net
Josh McDougald	Butler Co Road Dept	jmcDougald@butlercoal.us
Les Liller	Greenville Fire Dept.	les@cityofgville.com
Valerie Heath	Regional Medical Center	valerie.heath@rmcca.com
Dennis McCall	Butler Co. 12d Dept.	dmccall@butlercoal.us

**AEMA DIVISION B**

## Butler County Hazard Mitigation Plan Update

June 25, 2020

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BUTLER COUNTY

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**AEMA DIVISION B**

### Southeast Alabama Regional Multi-Jurisdictional Hazard Mitigation Plan

<p><u>2015 -- 7 COUNTIES:</u></p> <ul style="list-style-type: none"> <li>• BARBOUR COUNTY</li> <li>• BUTLER COUNTY</li> <li>• COFFEE COUNTY</li> <li>• COVINGTON COUNTY</li> <li>• GENEVA COUNTY</li> <li>• HENRY COUNTY</li> <li>• HOUSTON COUNTY</li> </ul>	<p><u>2020 -- 10 COUNTIES:</u></p> <ul style="list-style-type: none"> <li>• BARBOUR COUNTY</li> <li>• BUTLER COUNTY</li> <li>• COFFEE COUNTY</li> <li>• COVINGTON COUNTY</li> <li>• CRENSHAW COUNTY</li> <li>• DALE COUNTY</li> <li>• GENEVA COUNTY</li> <li>• HENRY COUNTY</li> <li>• HOUSTON COUNTY</li> <li>• PIKE COUNTY</li> <li>• 70+ MUNICIPALITIES</li> </ul>
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BUTLER COUNTY

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**AEMA DIVISION B**

### Southeast Alabama Regional Multi-Jurisdictional Hazard Mitigation Plan

September 24, 2015

<https://ema.alabama.gov/county-mitigation-plan/>

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BUTLER COUNTY

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**AEMA DIVISION B**

### What is a natural hazard?

*a threat of a naturally occurring event that will have a negative effect on people or the environment*

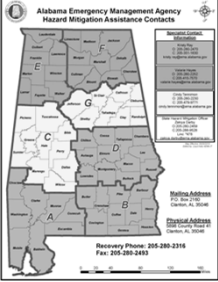

<ul style="list-style-type: none"> <li>• Floods (riverine flooding, storm surge, flash floods)</li> <li>• High Winds (hurricanes, tornadoes, windstorms)</li> <li>• Winter / Ice Storms</li> <li>• Landslides</li> <li>• Sinkholes and Land subsidence</li> </ul>	<ul style="list-style-type: none"> <li>• Earthquakes</li> <li>• Drought</li> <li>• Hail</li> <li>• Wildfires</li> <li>• Extreme Temperatures</li> <li>• Thunderstorms and Lightning</li> <li>• Dam Failure.</li> </ul>
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BUTLER COUNTY

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**AEMA DIVISION B**

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BUTLER COUNTY

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**AEMA DIVISION B**

### What is hazard mitigation?

Hazard mitigation reduces disaster damages and is defined as ***sustained action taken to reduce or eliminate the long-term risk to human life and property from hazards.***

- Increase risk awareness
- Protect critical facilities
- Removal of structures from flood hazard areas
- Encourage savvy development codes and regulations

Local governments have the responsibility to protect the health, safety, and welfare of their citizens. Proactive mitigation policies and actions help reduce risk and create safer, more disaster-resilient communities. Mitigation is an investment in your community's future safety and sustainability.

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BUTLER COUNTY

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**AEMA DIVISION B**

### Role of hazard mitigation?

Consider the critical importance of mitigation to:

- Protect public safety and prevent loss of life and injury.
- Reduce harm to existing and future development.
- Prevent damage to a community's unique economic, cultural, and environmental assets.
- Minimize operational downtime and accelerate recovery of government and business after disasters.
- Reduce the costs of disaster response and recovery and the exposure to risk for first responders.
- Help accomplish other community objectives, such as leveraging capital improvements, infrastructure protection, open space preservation, and economic resiliency.

**BUTLER COUNTY**

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**AEMA DIVISION B**

### Butler County LEPC - 2015

Butler County	Shirley Sandy, EMA Director
City of Georgiana	Ann Browder, City Clerk
City of Greenville	Chad Phillips, Fire Chief
Town of McKenzie	Tina Powell, Town Clerk
Butler County Schools	Amy Bryan, Superintendent

**BUTLER COUNTY**

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**AEMA DIVISION B**

### Disaster Mitigation Act of 2000

*"Instead of repeated damage and continual demands for federal disaster assistance, resilient communities proactively protect themselves against hazards, build self-sufficiency, and become more sustainable."*

**Disaster Mitigation Act of 2000**

The purpose of the Stafford Act, as amended by the Disaster Mitigation Act of 2000, is "to reduce economic disruption, and disaster assistance costs resulting from natural disasters."

Section 322 of the Act specifically addresses mitigation planning and requires state and local governments to prepare multi-hazard mitigation plans as a precondition for receiving FEMA mitigation project grants.

- Requires that each local government prepare and adopt a multi-hazard mitigation plan
- Must have an adopted hazard mitigation plan to be eligible for disaster recovery funds in the event of a natural disaster
- Hazard mitigation plan must be maintained and updated every five years

**BUTLER COUNTY**

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**AEMA DIVISION B**

### Area Profile

**Total Area (square miles)**

BARBOUR COUNTY	200
BUTLER COUNTY	777.58
COFFEE COUNTY	1,088.48
COVINGTON COUNTY	1,025.79
DALE COUNTY	515.32
GENEVA COUNTY	515.32
HENRY COUNTY	515.32
HOUSTON COUNTY	515.32
PIKE COUNTY	515.32

Total Land = 6,982.22 Square Miles  
13.3 of State of Alabama

**BUTLER COUNTY**

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**AEMA DIVISION B**

### Local Emergency Planning Committee (LEPC)

<ul style="list-style-type: none"> <li>• Local Governments – County and Municipal</li> <li>• Law Enforcement</li> <li>• Emergency Services</li> <li>• Healthcare</li> <li>• Education</li> <li>• Natural Resources</li> <li>• Business, Industry and Communications</li> <li>• Utility Services</li> <li>• Non-Profit and Faith-Based Organizations</li> </ul>	<b>Role:</b> <ul style="list-style-type: none"> <li>• Oversight and Guidance</li> <li>• Liaison to Community and Respective Organizations</li> <li>• Build Awareness</li> <li>• Assist in Implementation</li> </ul>
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**BUTLER COUNTY**

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**AEMA DIVISION B**

### Area Profile

**2018 Population by County**

Jurisdiction	2000 Census Population	2010 Census Population	% Change, 2000 to 2010	2018	% Change 2010 to 2018
Butler County	21,399	20,947	-2.11%	20,025	-4.40%
City of Georgiana	1,737	1,738	0.06%	1,914	10.13%
City of Greenville	7,228	8,135	12.55%	7,714	-5.18%
Town of McKenzie	642	522	-18.69%	608	16.48%

**BUTLER COUNTY**

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AEMA DIVISION B	Area Profile						
	2018 Population by Race	Total population	White	Black or African American	Other Race Alone	Two or more races	Hispanic or Latino Origin
	United States	322,903,030	234,904,818	40,916,113	36,646,302	10,435,797	57,517,935
	Percent	100.00%	72.75%	12.67%	11.35%	3.23%	17.81%
	Alabama	4,864,680	3,317,453	1,293,186	162,422	91,619	203,146
	Percent	100.00%	68.19%	26.58%	3.34%	1.88%	4.18%
	Barbour County	25,782	12,216	12,266	947	353	1,106
	Percent	100.00%	47.38%	47.58%	3.67%	1.37%	4.29%
	Butler County	20,025	10,414	9,055	233	323	67
	Percent	100.00%	52.00%	45.22%	1.16%	1.61%	0.33%
AEMA DIVISION B	Coffee County	51,288	38,923	8,629	1,927	1,609	3,549
	Percent	100.00%	75.89%	17.21%	3.76%	3.14%	6.92%
	Covington County	37,351	31,624	4,826	300	601	604
	Percent	100.00%	84.67%	12.92%	0.80%	1.61%	1.62%
	Crenshaw County	13,865	9,938	3,198	443	286	275
	Percent	100.00%	71.68%	23.07%	3.20%	2.06%	1.98%
	Dale County	49,255	35,889	9,749	1,961	1,656	3,070
	Percent	100.00%	72.86%	19.79%	3.98%	3.36%	6.23%
	Geneva County	26,491	22,871	2,529	566	525	1,027
	Percent	100.00%	86.33%	9.55%	2.14%	1.98%	3.88%
AEMA DIVISION B	Henry County	17,124	12,179	4,749	41	155	448
	Percent	100.00%	71.12%	27.73%	0.24%	0.91%	2.62%
	Houston County	104,352	72,387	28,078	1,718	2,169	3,437
	Percent	100.00%	69.37%	26.91%	1.65%	2.08%	3.29%
	Pike County	33,403	18,960	12,697	950	796	263
	Percent	100.00%	56.76%	38.01%	2.84%	2.38%	0.79%
	Division B	378,945	265,407	95,978	9,086	8,473	13,846
	Percent	100.00%	70.04%	25.33%	2.40%	2.24%	3.65%
	Butler County	20,025	10,414	9,055	233	323	67
	Percent	100.00%	52.00%	45.22%	1.16%	1.61%	0.33%

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AEMA DIVISION B	Area Profile						
	2020 Unemployment	JAN	FEB	MAR	APR	MAY	AVG
	United States	4.0%	3.8%	4.5%	14.4%	13.0%	7.8%
	Alabama	3.2%	2.9%	3.3%	13.2%	9.4%	6.4%
	Barbour County	3.8%	3.5%	4.1%	9.9%	8.9%	6.0%
	Butler County	4.2%	4.1%	4.4%	19.7%	12.5%	9.1%
	Coffee County	3.1%	2.6%	3.2%	9.4%	6.9%	5.0%
	Covington County	3.6%	3.2%	3.7%	10.6%	7.4%	5.7%
	Crenshaw County	3.5%	2.9%	3.4%	15.5%	8.5%	6.8%
	Dale County	3.2%	2.7%	3.2%	9.5%	7.4%	5.2%
AEMA DIVISION B	Geneva County	3.2%	2.7%	3.2%	8.1%	6.3%	4.6%
	Henry County	3.8%	3.2%	3.8%	9.2%	7.6%	5.5%
	Houston County	3.2%	2.8%	3.3%	11.0%	8.4%	5.7%
	Pike County	3.5%	2.9%	3.5%	9.0%	6.9%	5.1%
	AEMA Division B	3.4%	2.9%	3.5%	10.8%	7.9%	5.7%
	Butler County	4.2%	4.1%	4.4%	19.7%	12.5%	9.1%
	Coffee County	3.1%	2.6%	3.2%	9.4%	6.9%	5.0%
	Covington County	3.6%	3.2%	3.7%	10.6%	7.4%	5.7%
	Crenshaw County	3.5%	2.9%	3.4%	15.5%	8.5%	6.8%
	Dale County	3.2%	2.7%	3.2%	9.5%	7.4%	5.2%

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AEMA DIVISION B	Area Profile						
	2018 Population by Age and Sex	Total Population	Male	Female	Under 18 Years	19 to 64 Years	65 Years and Over
	United States	322,903,030	49.2%	50.8%	22.8%	62.0%	15.2%
	Alabama	4,864,680	48.4%	51.6%	22.6%	61.3%	16.1%
	Barbour County	25,782	53.1%	46.9%	21.1%	60.9%	18.0%
	Butler County	20,025	46.8%	53.2%	22.8%	58.2%	19.0%
	Coffee County	51,288	49.4%	50.6%	23.7%	60.0%	16.3%
	Covington County	37,351	48.7%	51.3%	21.9%	57.6%	20.5%
	Crenshaw County	13,865	49.1%	50.9%	22.5%	59.2%	18.3%
	Dale County	49,255	49.2%	50.8%	23.4%	60.5%	16.1%
AEMA DIVISION B	Geneva County	26,491	49.0%	51.0%	22.1%	58.4%	19.4%
	Henry County	17,124	48.1%	51.9%	20.9%	57.5%	21.6%
	Houston County	104,352	47.9%	52.1%	23.4%	59.8%	16.9%
	Pike County	33,403	48.0%	52.0%	19.6%	65.8%	14.6%
	AEMA Division B	378,936	48.8%	51.2%	22.5%	60.0%	17.5%
	Butler County	20,025	46.8%	53.2%	22.8%	58.2%	19.0%
	Coffee County	51,288	49.4%	50.6%	23.7%	60.0%	16.3%
	Covington County	37,351	48.7%	51.3%	21.9%	57.6%	20.5%
	Crenshaw County	13,865	49.1%	50.9%	22.5%	59.2%	18.3%
	Dale County	49,255	49.2%	50.8%	23.4%	60.5%	16.1%

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AEMA DIVISION B	Area Profile					
	2018 Income and Poverty	Median household income	Median family income	Median nonfamily income	Per capita income	Percent of People in Poverty
	United States	\$60,293	\$73,965	\$35,971	\$32,621	14.1%
	Alabama	\$48,486	\$62,030	\$26,388	\$26,846	17.5%
	Barbour County	\$34,186	\$44,339	\$18,256	\$18,461	28.9%
	Butler County	\$39,109	\$46,312	\$21,005	\$20,430	23.5%
	Coffee County	\$53,155	\$64,723	\$31,245	\$27,577	15.1%
	Covington County	\$40,601	\$54,513	\$20,844	\$23,071	18.3%
	Crenshaw County	\$39,812	\$55,687	\$15,670	\$23,353	15.7%
	Dale County	\$45,960	\$56,602	\$22,679	\$23,837	18.4%
AEMA DIVISION B	Geneva County	\$38,142	\$47,603	\$17,469	\$20,471	24.0%
	Henry County	\$48,610	\$57,902	\$25,595	\$24,069	13.5%
	Houston County	\$45,496	\$58,526	\$26,327	\$25,990	18.3%
	Pike County	\$34,678	\$51,066	\$18,475	\$21,137	26.6%
	AEMA Division B Average	\$41,975	\$53,727	\$21,757	\$22,840	20.2%
	Butler County	\$39,109	\$46,312	\$21,005	\$20,430	23.5%
	Coffee County	\$53,155	\$64,723	\$31,245	\$27,577	15.1%
	Covington County	\$40,601	\$54,513	\$20,844	\$23,071	18.3%
	Crenshaw County	\$39,812	\$55,687	\$15,670	\$23,353	15.7%
	Dale County	\$45,960	\$56,602	\$22,679	\$23,837	18.4%

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AEMA DIVISION B	Area Profile				
	2018 Employment Status	Population 16 Years & Over	Civilian Labor Force	Employed	Unemployed
	United States	257,754,872	162,248,136	152,739,884	9,508,312
	Alabama	3,894,696	2,224,606	2,076,708	147,898
	Barbour County	20,948	9,638	8,720	918
	Butler County	15,970	8,452	7,885	567
	Coffee County	40,510	23,096	21,725	1,371
	Covington County	30,107	16,327	14,899	1,428
	Crenshaw County	11,106	5,959	5,612	347
	Dale County	39,028	19,763	18,025	1,738
AEMA DIVISION B	Geneva County	21,376	10,992	10,047	945
	Henry County	13,980	7,362	6,868	494
	Houston County	82,833	47,645	44,291	3,354
	Pike County	27,676	15,319	14,093	1,226
	AEMA Division B	303,534	164,553	152,165	12,388
	Butler County	15,970	8,452	7,885	567
	Coffee County	40,510	23,096	21,725	1,371
	Covington County	30,107	16,327	14,899	1,428
	Crenshaw County	11,106	5,959	5,612	347
	Dale County	39,028	19,763	18,025	1,738

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AEMA DIVISION B	Area Profile				
	2018 Housing Occupancy and Value	Total housing units	Occupied housing units	Vacant housing units	Owner-Occupied Median House Value
	United States	136,384,292	119,730,128	16,654,164	\$204,900
	Alabama	2,244,462	1,860,269	384,193	\$137,200
	Barbour County	11,937	9,186	2,751	\$92,900
	Butler County	10,026	6,708	3,318	\$88,300
	Coffee County	23,088	19,789	3,299	\$149,100
	Covington County	18,907	15,008	3,899	\$95,500
	Crenshaw County	6,790	5,025	1,765	\$79,500
	Dale County	23,065	18,670	4,395	\$110,100
AEMA DIVISION B	Geneva County	12,768	10,479	2,289	\$92,300
	Henry County	9,096	6,669	2,427	\$115,100
	Houston County	47,187	39,252	7,934	\$120,500
	Pike County	16,077	11,547	4,530	\$117,400
	AEMA Division B	178,941	142,334	36,607	\$107,070
	Butler County	10,026	6,708	3,318	\$88,300
	Coffee County	23,088	19,789	3,299	\$149,100
	Covington County	18,907	15,008	3,899	\$95,500
	Crenshaw County	6,790	5,025	1,765	\$79,500
	Dale County	23,065	18,670	4,395	\$110,100

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AEMA DIVISION B	<b>Area Profile</b>					
	2018 Housing Type and Age	Total Housing Units	Single Unit	Multi-Unit	Mobile Home Boat or Van	Built Prior to 1980 (40+ Years Old)
	United States	136,384,292	67.5%	26.2%	6.3%	54.2%
	Alabama	2,244,462	70.1%	16.5%	13.4%	45.9%
	Barbour County	11,937	57.2%	13.5%	29.3%	50.9%
	<b>Butler County</b>	<b>10,026</b>	<b>61.5%</b>	<b>12.3%</b>	<b>26.2%</b>	<b>52.3%</b>
	Coffee County	23,088	74.8%	11.6%	13.6%	45.0%
	Covington County	18,907	71.5%	6.8%	21.7%	46.3%
	Crenshaw County	6,790	65.3%	7.0%	27.7%	52.8%
	Dale County	23,065	69.1%	12.7%	18.2%	44.5%
	Geneva County	12,768	67.0%	4.6%	28.5%	51.0%
	Henry County	9,096	68.3%	5.7%	25.9%	45.8%
	Houston County	47,187	70.7%	15.5%	13.8%	46.3%
	Pike County	16,077	55.4%	22.6%	22.0%	42.2%
	AEMA Division B	178,941	67.7%	12.4%	19.8%	46.7%
	<b>BUTLER COUNTY</b>					

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AEMA DIVISION B	<b>Risk Assessment – Hazard Profiles</b>			
	Table 4.1: Potential Hazards and Data Sources			Correlation with Region
	Hazard	Risk	Source	
	Avalanche	No	US Forest Service National Avalanche Center ( <a href="http://www.fsavalanche.org/">http://www.fsavalanche.org/</a> )	No risk of avalanche events in Alabama
	Coastal Erosion	No	FEMA Coastal Erosion Hazards Report ( <a href="http://www.fema.gov/media-library/assets/documents/8397">http://www.fema.gov/media-library/assets/documents/8397</a> )	AEMA Division B is an inland area
	Dam Failure	Yes	USACE National Inventory of Dams ( <a href="http://geo.usace.army.mil/pgis/?p=397.12">http://geo.usace.army.mil/pgis/?p=397.12</a> )	Population downstream from dams; flooding concerns; no State regulation of dam safety
	Drought / Extreme Heat	Yes	United States Drought Monitor ( <a href="http://droughtmonitor.unl.edu/">http://droughtmonitor.unl.edu/</a> ) / NOAA National Climatic Data Center ( <a href="http://www.ncdc.noaa.gov/stormevents/">http://www.ncdc.noaa.gov/stormevents/</a> )	Historic incidents with damage
	Earthquake	Yes	USGS Earthquake Hazards Program ( <a href="http://earthquake.usgs.gov/earthquakes/">http://earthquake.usgs.gov/earthquakes/</a> )	Proximity to Southeast US seismic zones
	Flooding	Yes	NOAA National Climatic Data Center ( <a href="http://www.ncdc.noaa.gov/stormevents/">http://www.ncdc.noaa.gov/stormevents/</a> )	Historic incidents with damage / identified flood hazard areas
	<b>BUTLER COUNTY</b>			

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AEMA DIVISION B	<b>Major Employers</b>		
	Name	Type	# Employees
	Butler County Commission	County Government	91
	Butler County School System	Education	384
	Coastal Forest Products, LLC	Plywood	350
	Connector Manufacturing Co.	Electrical Connectors	115
	Hwashin American Corporation	Auto Chassis	750
	Hysco American Company	Processed Steel	113
	Key Safety Restraints	Auto Restraints	46
	Koch Foods	Chicken Hatchery	43
	L.V. Stabler Memorial Hospital	Healthcare	220
	REF Alabama, Inc.	Electrical Fasteners	41
	Shoreline Transportation	Trucking	240
	Sourcecorp, Inc.	Data Entry	125
	Structural Wood Systems	Glue Laminated Wood Products	50
	City of Greenville	Government	125
	<b>BUTLER COUNTY</b>		

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AEMA DIVISION B	<b>Risk Assessment – Hazard Profiles</b>			
	Table 4.1: Potential Hazards and Data Sources			Correlation with Region
	Hazard	Risk	Source	
	High Winds (Hurricanes, Tornadoes, Windstorms)	Yes	National Weather Service (NWS) Storm Data ( <a href="http://www.srh.noaa.gov/bmx/?n=stormdata_main/">http://www.srh.noaa.gov/bmx/?n=stormdata_main/</a> ) / NWS Tornado Database ( <a href="http://www.srh.noaa.gov/bmx/?n=tornadodb_main/">http://www.srh.noaa.gov/bmx/?n=tornadodb_main/</a> ) / National Hurricane Center Data Archive ( <a href="http://www.nhc.noaa.gov/data/#tcr">http://www.nhc.noaa.gov/data/#tcr</a> )	Historic incidents with damage
	Landslides	Yes	USGS Landslides Hazard Program ( <a href="http://landslides.usgs.gov/hazards/nationalmap/">http://landslides.usgs.gov/hazards/nationalmap/</a> ) / Geological Survey of Alabama, Landslides ( <a href="http://gsa.state.al.us/gsa/geologicahazards/Landslides.htm">http://gsa.state.al.us/gsa/geologicahazards/Landslides.htm</a> )	Susceptible areas to landslides
	Land Subsidence / Sinkholes	Yes	Geological Survey of Alabama, Sinkholes in Alabama ( <a href="http://gsa.state.al.us/gsa/geologicahazards/Sinkholes_AL.htm">http://gsa.state.al.us/gsa/geologicahazards/Sinkholes_AL.htm</a> )	Susceptible areas to land subsidence / sinkholes
	<b>BUTLER COUNTY</b>			

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AEMA DIVISION B	<b>Risk Assessment</b>	
	4.1 Hazard Overview	
	4.2 Hazard Profiles	
	4.3 Technological and Human-Caused Hazards	
	4.4 Vulnerability Overview	
	4.5 Probability of Future Occurrence and Loss Estimation	
	4.6 Total Population and Property Valuation Summary by Jurisdiction	
	4.7 Critical Facilities/Infrastructure by Jurisdiction	
	4.8 Hazard Impacts	
	<b>BUTLER COUNTY</b>	

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AEMA DIVISION B	<b>Risk Assessment – Hazard Profiles</b>			
	Table 4.1: Potential Hazards and Data Sources			Correlation with Region
	Hazard	Risk	Source	
	Tsunami	No	FEMA, Tsunami ( <a href="http://m.fema.gov/tsunamis">http://m.fema.gov/tsunamis</a> )	AEMA Division B is an inland area
	Volcano	No	FEMA, Volcanoes ( <a href="http://m.fema.gov/volcanoes">http://m.fema.gov/volcanoes</a> )	Not near an active volcano
	Wildfire	Yes	Alabama Forestry Commission Wildfire Assessment Maps ( <a href="http://www.forestry.alabama.gov/fireRiskAssessmentMaps.aspx?bv=1&amp;s=4">http://www.forestry.alabama.gov/fireRiskAssessmentMaps.aspx?bv=1&amp;s=4</a> )	Historic incidents with damage / identified susceptible areas
	Winter / Ice Storms	Yes	NOAA National Climatic Data Center ( <a href="http://www.ncdc.noaa.gov/stormevents/">http://www.ncdc.noaa.gov/stormevents/</a> )	Historic incidents with damage
	<b>BUTLER COUNTY</b>			

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AEMA DIVISION B	<h3>Risk Assessment – Hazard Profiles</h3> <ul style="list-style-type: none"> <li>• <b>Background:</b> definition/description of the hazard, its characteristics, and potential effects.</li> <li>• <b>Locations Affected</b></li> <li>• <b>Extent:</b> potential strength or magnitude of the hazard.</li> <li>• <b>Historical Occurrences:</b> history of previous hazard events in the planning area, including their impacts.</li> <li>• <b>Probability of Future Events:</b> likelihood of future hazard occurrences in the planning area. Many hazards may affect the entire planning area, while other hazards are more localized due to specific factors. These qualitative descriptions are from historical occurrences and other risk factors. Because of the lack of comprehensive quantitative data on many of the hazards, susceptibility to future damage will be noted by categories of High, Medium, Low, or Very Low described below. <ul style="list-style-type: none"> <li>• <b>High:</b> Probable major damage in a 1-10 Year Period</li> <li>• <b>Medium:</b> Probable major damage in a 10-50 Year Period</li> <li>• <b>Low:</b> Probable major damage in a 100 Year Period</li> <li>• <b>Very Low:</b> No probable major damage in a 100 Year Period</li> </ul> </li> </ul>
	BUTLER COUNTY

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AEMA DIVISION B

Critical Facilities

Table 4.16: Critical Facility Summary

Facilities	Barbour	Butler	Coffee	Covington	Geneva	Henry	Houston	Planning Area
Fire / Rescue	9	18	5	23	9	6	31	101
Law Enforcement	3	4	4	8	5	4	9	37
Hospital / Health Dept	4	5	3	4	3	2	4	26
Schools	8	13	21	14	12	9	43	120
Continuity of Government	8	5	7	16	8	6	14	64

BUTLER COUNTY

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AEMA DIVISION B	<h3>Risk Assessment – Hazard Profiles</h3> <p><b>Technological and Human-Caused Hazards</b> AEMA Division B has susceptibility to technological and human-caused hazards. General discussions of hazards that may affect the planning area are described in the subsections below.</p> <ul style="list-style-type: none"> <li>• <b>Structure Fire</b></li> <li>• <b>Hazardous Materials</b></li> <li>• <b>Terrorism</b></li> <li>• <b>Radiological</b></li> </ul>
	BUTLER COUNTY

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AEMA DIVISION B

Planning and Regulatory Tools by Jurisdiction

Jurisdiction	Zoning Ordinance	Code Enforcement	Recent Master Plan	Certified Floodplain Manager	NFIP Participation
Butler County	N	N	N	N	Y
City of Georgiana	Y	N	N	N	Y
City of Greenville	Y	Y	Y	N	Y
Town of McKenzie	N	N	N	N	Y

BUTLER COUNTY

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AEMA DIVISION B	<h3>Critical Facilities</h3> <p>Designation of a facility as critical is based on the HAZUS definitions, as follows:</p> <ul style="list-style-type: none"> <li>• <b>Essential Facilities.</b> These facilities are critical to the health and welfare of the entire county population and are essential following hazard events, including emergency response facilities (police, fire, and emergency management), medical care facilities (hospitals and other care facilities), schools, and shelters for evacuation.</li> <li>• <b>Lifeline Utility Systems.</b> These facilities are essential lifelines that include potable water, wastewater, natural gas, electric, and communications systems. HAZUS data is not available for this county.</li> <li>• <b>Transportation Systems.</b> These facilities include highways, bridges, railways, and waterways.</li> <li>• <b>High Potential Loss Facilities.</b> These facilities include military installations and high potential loss dams.</li> <li>• <b>Hazardous Materials Facilities.</b> These facilities may pose a threat if disrupted by natural hazards and include hazardous industrial chemicals, explosives, flammables, toxins, and radioactive materials.</li> </ul>
	BUTLER COUNTY

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AEMA DIVISION B

Planning and Regulatory Tools by Jurisdiction

National Flood Insurance Program (NFIP) Status						
Jurisdiction	County	Participation Status	Initial FBHM Identified	Initial FIRM Identified	Current Effective Map Date	Reg-Emer Date
Butler County	Butler	Yes	4/21/1978	9/11/2009	9/11/2009	9/11/09
Georgiana	Butler	Yes	2/21/1975	7/15/1977	9/11/2009	7/15/77
Greenville	Butler	Yes	10/8/1976	5/1/1980	9/11/2009	5/1/80
McKenzie	Butler	Yes	N/A	9/11/2009	NSFHA	4/23/10

BUTLER COUNTY

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<b>AEMA DIVISION B</b>	<b>AEMA Division B Mitigation Goals - 2015</b> <ol style="list-style-type: none"> <li>1. PREVENTION: Manage the development of land and buildings to minimize risk of life and property loss due to hazard events.</li> <li>2. PROPERTY PROTECTION: Protect structures and their occupants and contents from the damaging effects of hazard events.</li> <li>3. NATURAL RESOURCE PROTECTION: Preserve, rehabilitate, and enhance the beneficial functions of the natural environment to promote a balance between natural systems and social and economic demands .</li> <li>4. STRUCTURAL MITIGATION: Apply engineered structural modifications to natural systems and public infrastructure to reduce the potentially damaging impacts of hazards, where those modifications are feasible and environmentally suitable.</li> <li>5. EMERGENCY SERVICES: Improve the efficiency, timing, and effectiveness of response and recovery efforts for hazard events.</li> <li>6. EDUCATION AND AWARENESS: Educate and foster public awareness of hazards and techniques available for mitigation.</li> </ol>
	<b>BUTLER COUNTY</b>

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AEMA DIVISION B

Division B Action Plan

SEARP&DC Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
1	SEARP&DC (with assistance from SCADC) will maintain the mitigation plan by seeking additional grant funding, as needed	All	SEARP&DC	HMGP/Local	High	High
1	SEARP&DC will work to incorporate Pike County, Dale County, and Crenshaw County and their jurisdictions not part of this plan as their plans expire	All	SEARP&DC	HMGP/Local	High	High
1	SEARP&DC will facilitate multi-jurisdiction collaboration by attending AEMA Division B meetings on at least an annual basis	All	SEARP&DC	Local	High	High
1	SEARP&DC will incorporate HAZUS-MH and Risk MAP information in Risk Assessment for future plan updates	Flooding / High Winds	SEARP&DC	HMGP/Local	High	High

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<b>AEMA DIVISION B</b>	<b>Division B Hazard Mitigation Plan Update</b>
	<p><b>Next Meeting:</b></p> <ul style="list-style-type: none"> <li>• Hazard Risk Assessment</li> <li>• Hazard Mitigation Goals</li> <li>• Jurisdiction Action Plans</li> </ul>
	<b>BUTLER COUNTY</b>

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## ***PLANNING FOR NATURAL DISASTERS***

The Butler County Emergency Management Agency (EMA) Local Emergency Planning Committee (LEPC) is updating the county's hazard mitigation plan to further establish proactive hazard mitigation policies and actions that will help reduce risk and create a safer, more disaster resistant environment in Butler County.

**The next LEPC Hazard Mitigation Plan meeting will be  
Thursday, July 9, 2020 at 1:00 PM**

at the Butler County EMA Office  
located at 350 Airport Road, Greenville, AL 36037

All Hazard Mitigation Planning meetings are open to the public and interested citizens are encouraged to attend; however, due to COVID-19 social distancing requirements, **seating is limited and a reservation is required.** If you would like to attend the meeting, and if you need special accommodations, please contact the Butler County EMA office, at 334-382-7911 or [bcema@butlercoal.us](mailto:bcema@butlercoal.us).

**AEMA DIVISION B HAZARD MITIGATION PLAN  
BUTLER COUNTY STAKEHOLDER MEETING – JULY 9, 2020**

**AGENDA**

1. Welcome and Introductions
2. Review from Meeting 1
3. Public Participation
4. Hazard Profiles and Probability
5. Critical Facilities
6. Mitigation Strategies
7. Next Meeting and Adjourn



**AEMA DIVISION B**

**Butler County  
Hazard Mitigation Plan Update**

**July 9, 2020**

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**BUTLER COUNTY**

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**AEMA DIVISION B**


**Division B Hazard Mitigation Plan Update  
Public Notification**

Posted Flyer

- Butler County EMA Office
- Butler County Health Department
- Butler County Courthouse
- Georgiana, Greenville, and McKenzie City Halls

Posted Announcement:

- Butler County Website
- Butler County EMA Website
- Butler County Facebook Page
- Local Radio




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**BUTLER COUNTY**

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**AEMA DIVISION B**

**Southeast Alabama Regional  
Multi-Jurisdictional Hazard  
Mitigation Plan  
September 24, 2015**

<https://ema.alabama.gov/county-mitigation-plan/>




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**BUTLER COUNTY**

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**AEMA DIVISION B**

**Division B Hazard Mitigation Plan Update  
Public Hearing**

**Date:** Week of July 20 through July 24

**Location:** Butler County EMA Office

**Advertise:** Newspaper, Post, Websites, Social Media

**Format:** Open House – Come and Go Format  
Two display stations set up  
Copies of draft plan available  
Comment Form

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**BUTLER COUNTY**

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**AEMA DIVISION B**

**Division B Hazard Mitigation Plan Update**

<p><b>Last Meeting:</b></p> <ul style="list-style-type: none"> <li>• Hazard Introduction</li> <li>• LEPC Role/Responsibility</li> <li>• Area Demographics</li> <li>• Critical Facilities</li> <li>• Planning and Regulatory Tools</li> <li>• Preliminary Goals and Action Plan Review</li> </ul>	<p><b>Today's Meeting:</b></p> <ul style="list-style-type: none"> <li>• Public Participation             <ul style="list-style-type: none"> <li>• LEPC Composition</li> <li>• Meeting Notification</li> <li>• Public Hearing</li> </ul> </li> <li>• Hazard Profiles</li> <li>• Hazard Risk Assessment</li> <li>• Critical Facilities</li> <li>• Finalize Goals</li> <li>• Jurisdiction Action Plans</li> </ul>
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**BUTLER COUNTY**

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**AEMA DIVISION B**

**Risk Assessment**

<ul style="list-style-type: none"> <li>• Dam Failure</li> <li>• Drought/Extreme Heat</li> <li>• Earthquake</li> <li>• Flooding</li> <li>• High Winds: Hurricanes, Tornadoes, Windstorms</li> <li>• Landslides</li> <li>• Land Subsidence, Sinkholes</li> <li>• Wildfire</li> <li>• Winter/Ice Storms</li> </ul>	<ul style="list-style-type: none"> <li>4.1 Hazard Overview</li> <li>4.2 Hazard Profiles</li> <li>4.3 Technological and Human-Caused Hazards</li> <li>4.4 Vulnerability Overview</li> <li>4.5 Probability of Future Occurrence and Loss Estimation</li> <li>4.6 Total Population and Property Valuation Summary by Jurisdiction</li> <li>4.7 Critical Facilities/Infrastructure by Jurisdiction</li> <li>4.8 Hazard Impacts</li> </ul>
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**BUTLER COUNTY**

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<b>AEMA DIVISION B</b>	<b>Butler County FEMA Disaster Declarations 1953 - 2020</b>	<b>Date</b>	<b>Number</b>	<b>Type of Incident</b>	<b>IA</b>	<b>PA</b>
		7/20/1977	EM-3045	Drought		X
		3/21/1990	DR-861	Severe Storms, Tornadoes, Flooding	X	X
		3/15/1993	EM-3096	Severe Snowfall, Winter Storm		X
		10/4/1995	DR-1070	Hurricane Opal	X	X
		3/9/1998	DR-1208	Severe Storms, Flooding	X	X
		9/28/1998	EM-3133	Hurricane Georges		X
		9/30/1998	DR-1250	Hurricane Georges	X	X
		12/7/2001	DR-1399	Severe Storms, Tornadoes	X	X
		9/15/2004	DR-1549	Hurricane Ivan	X	X
		9/10/2005	EM-3237	Hurricane Katrina Evacuation		X
		8/30/2008	EM-3292	Hurricane Gustav		X
		4/28/2009	DR-1835	Severe Storms, Tornadoes, Straight-line Winds, Flooding	X	X
		12/31/2009	DR-1870	Severe Storms and Flooding		X
		4/27/2011	EM-3319	Severe Storms, Tornadoes, Straight-line Winds		X
		4/28/2011	DR-1971	Severe Storms, Tornadoes, Straight-line Winds, Flooding		X
		5/2/2014	DR-4176	Severe Storms, Tornadoes, Straight-line Winds, Flooding	X	X
		1/21/2016	DR-4251	Severe Storms, Tornadoes, Straight-line Winds, Flooding		X
		9/11/2017	EM-3389	Hurricane Irma		X
		10/8/2017	EM-3394	Hurricane Nate		X
		10/12/2018	DR-3407	Hurricane Michael		X
		5/21/2020	DR-4546	Severe Storms, Flooding		X

Alabama: 90  
AEMA Div. B: 32  
Butler County: 21

1 Drought  
21 Severe Snow  
9 Hurricane  
10 Severe Storm

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<b>AEMA DIVISION B</b>	<b>Hazard Profiles: Dam Failure</b>	
	USACE National Dam Inventory:	
	<ul style="list-style-type: none"> <li>National Dam Inventory (NID) Updated in 2018; In 2019 Updated Annually</li> <li>Alabama is Only State <b>WITHOUT</b> Dam Regulatory/Reporting Requirements</li> <li>2,283 Recorded Dams in the State of Alabama</li> <li>180 Dams in AEMA Division B Counties</li> <li>12 Division B Dams are classified by the USACE as a high hazard potential</li> <li>20 Division B Dams are identified as having a significant hazard potential.</li> <li>Two Major Levee Systems: Elba and Geneva.</li> </ul>	

BUTLER COUNTY

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AEMA DIVISION B

Risk Assessment – Hazard Overview

Summary of AEMA Division B Storm Events, 2000 to 2020

Location	Number of County/Zone Areas Affected	Number of Days with Event	Number of Days with Death	Number of Days with Injury	Number of Days with Property Damage	Number of Days with Crop Damage	Number of Event Types reported
Barbour County	2	143	0	3	43	1	17
<b>Butler County</b>	<b>2</b>	<b>85</b>	<b>2</b>	<b>5</b>	<b>55</b>	<b>0</b>	<b>14</b>
Coffee County	2	176	3	8	94	0	15
Covington County	2	134	3	5	81	0	15
Crenshaw County	2	93	0	0	60	0	13
Dale County	3	229	1	4	130	0	18
Geneva County	2	160	1	3	86	0	15
Henry County	2	163	1	4	82	0	16
Houston County	2	209	3	8	130	0	17
Pike	2	129	0	4	39	0	18

Source: NCEM, National Centers for Environmental Information, Storm Events Database: <https://www.ndbc.noaa.gov/stormevents/summary.php?state=AL&year=ALL>, JUNE 14, 2024

BUTLER COUNTY

Source: NOAA, National Centers for Environmental Information, Storm Events Database.  
<https://www.ncdc.noaa.gov/stormevents/summary.php?State=AL&Division=125241&DMA>

BUTLER COUNTY

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AEMA DIVISION B

Hazard Profiles: Dam Failure

AEMA Division B Dam Conditions

Source: U.S. Army Corps of Engineers, National Dam Inventory, 2018. Updated 2019. <https://hd.usace.army.mil/web/?p=108-111-000200041021-100>

Location	Number of Dams	Hazard Potential			Avg. Age	% Dams Regulated by State	% Dams Regulated by Federal	% Dams Hydro power
		H	S	L				
Barbour County	8	0	1	7	66	0	0	0
Butler County	21	0	6	15	54	0	0	0
Coffee County	27	4	5	18	55	0	4	4
Covington County	19	2	0	17	55	0	11	11
Crenshaw County	18	1	3	14	57	0	0	0
Dale County	22	2	2	18	51	0	18	0
Geneva County	19	0	0	19	54	0	0	0
Henry County	8	1	0	7	55	0	13	13
Houston County	17	2	3	12	48	0	12	0
Pike County	21	0	0	21	52	0	0	0
Division B	180	12	20	148	54.7	0	58	28

BUTLER COUNTY

BUTLER COUNTY

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AEMA DIVISION B

## Risk Assessment – Hazard Overview

### Summary of Storm Events by Jurisdiction, 2000 to 2020

Affected Area	Countywide	Unincorp. Butler Co.	Town of Georgiana	City of Greenville	Town of McKenzie	Total
Number of Events	18	81	29	61	10	199
# Deaths	0	2	1	1	0	4
# Injuries	0	11	2	2	3	18
Property Damage	\$1,810,000	\$2,300,030	\$321,000	\$636,500	\$166,500	\$3,424,030
Crop Damage	\$0	\$0	\$0	\$0	\$0	\$0
Number of Events by Type						
Drought	2	0	0	0	0	0
Heat	2	0	0	0	0	0
Hurricane	2	0	0	0	0	0
Sleet	1	0	0	0	0	0
Tropical Storm	1	0	0	0	0	0
Winter Storm	5	0	0	0	0	0
Flood	5	5	0	4	2	11
Hail	0	16	9	12	0	37
Thunderstorm	0	43	13	40	6	102
Tornado	0	17	5	2	2	26
Lightening	0	0	2	2	0	4
Heavy Rain	0	0	0	1	0	1

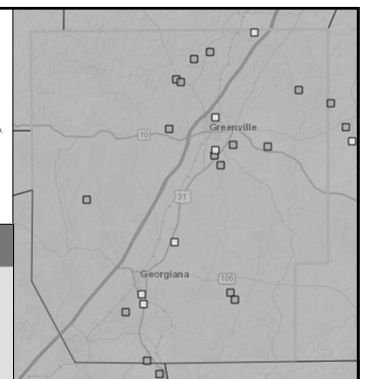
9

<b>AEMA DIVISION B</b>	<b>Hazard Profiles: Dam Failure</b>	
	Butler County Dam Locations	
	Source: U.S. Army Corps of Engineers, National Dam Inventory, 2018. Updated 2019. <a href="https://hd.usace.army.mil/web/?p=108-111-000200041021-100">https://hd.usace.army.mil/web/?p=108-111-000200041021-100</a>	
	Total	21
	High Hazard Potential	0
	Significant Hazard Potential	6
	Low Hazard Potential	15

Legend

Hazard Potential Type

■ High  
 □ Significant  
 □ Low  
 ■ Undetermined  
 ■ Not Available



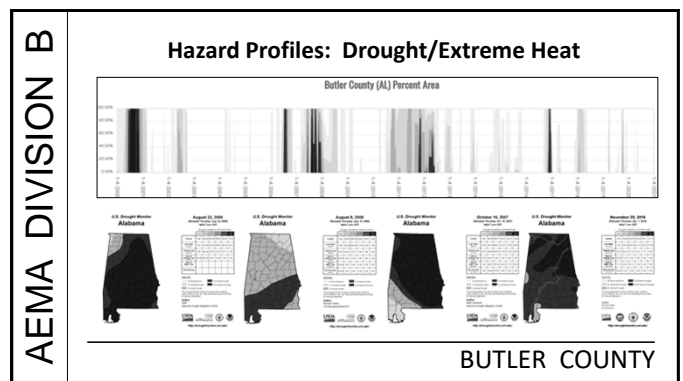
12



AEMA DIVISION B	Hazard Profiles: Dam Failure						
	Butler County Dams						
	Source: U.S. Army Corps of Engineers, National Dam Inventory, 2018; Updated 2019. <a href="https://real.scr.army.mil/wda/7pr-105-113-10162050944652-ND/">https://real.scr.army.mil/wda/7pr-105-113-10162050944652-ND/</a>						
	DAM ID	DAM NAME	OWNER	YEAR COMPLETED	NO DAM HAZARD (Feet)	NO DAM HAZARD (Feet)	NO DAM HAZARD (Feet)
	AL00007	LANE CONCRETE DAM	PRIVATE	1964	15	146	1
	AL00039	LANE CONCRETE DAM	PRIVATE	1964	15	72	1
	AL00039	ALABAMA	PRIVATE	1969	14	245	1
	AL00040	LANE CONCRETE DAM	PRIVATE	1965	23	305	1
	AL00043	BUTLER COUNTY NUMBER ONE LOWER LANE DAM	STATE	1949	35	204	1
	AL00044	BUTLER COUNTY NUMBER ONE LOWER LANE DAM	PRIVATE	1949	25	70	1
	AL00045	BUTLER COUNTY NUMBER ONE LOWER LANE DAM	PRIVATE	1960	12	16	1
	AL00046	BUTLER	PRIVATE	1957	15	47	1
	AL00047	CONCRETE LANE DAM	PRIVATE	1967	14	89	1
	AL00048	CONCRETE LANE DAM	PRIVATE	1962	18	13	1
	AL00049	CONCRETE LANE DAM	PRIVATE	1968	18	44	1
	AL00050	CONCRETE LANE DAM (BUTLER COUNTY LANE)	PRIVATE	1965	22	47	1
	AL00051	CONCRETE LANE DAM	PRIVATE	1960	20	10	1
	AL00052	CONCRETE LANE DAM	PRIVATE	1960	20	100	1
	AL00053	CONCRETE LANE DAM	PRIVATE	1960	20	100	1
	AL00054	CONCRETE LANE DAM	PRIVATE	1970	12	100	1
	AL00055	CONCRETE LANE DAM	PRIVATE	1968	24	84	1
	AL00056	CONCRETE LANE DAM	PRIVATE	1968	16	100	1
	AL00057	CONCRETE LANE DAM	PRIVATE	1971	31	100	1
	AL00058	CONCRETE LANE DAM	PRIVATE	1971	10	100	1
	AL00059	CONCRETE LANE DAM	PRIVATE	1977	18	111	1

BUTLER COUNTY

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BUTLER COUNTY

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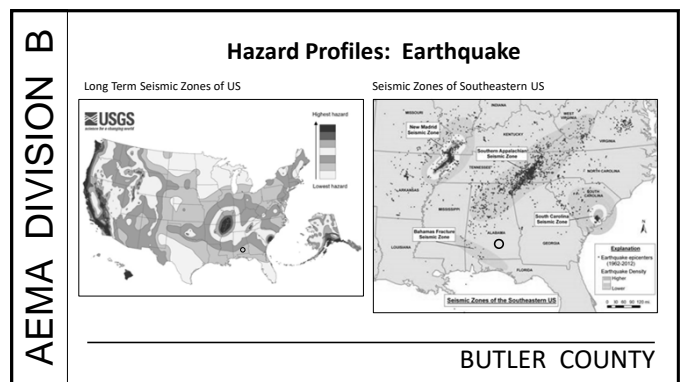
AEMA DIVISION B

Risk Assessment – Dam Failure	
Description	21 Dams
Locations	Countywide
Extent	6 Significant Hazard Potential
Historical Occurrence	None
Probability of Future Events	Low

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BUTLER COUNTY

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AEMA DIVISION B

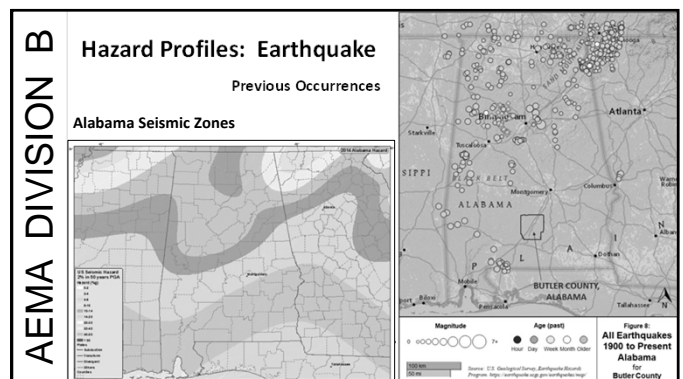
## Hazard Profiles: Drought/Extreme Heat

- Drought occurs when there is below-average precipitation over an extended period of time, gradually affecting hydrological, agricultural, and social concerns.
- Four Types: Meteorological, Hydrological, Agricultural, Socioeconomic

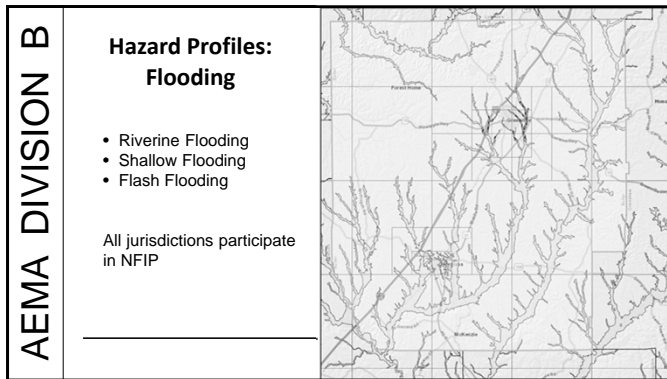
Location	Date	Event Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Butler County	7/1/2000	Heat		0	0	\$0	\$0
Butler County	8/8/2007	Heat		0	0	\$0	\$0
Butler County	11/1/2016	Drought		0	0	\$0	\$0
Butler County	12/1/2016	Drought		0	0	\$0	\$0

BUTLER COUNTY

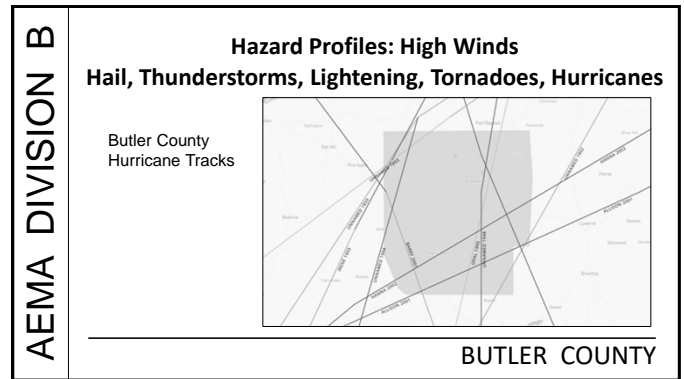
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**AEMA DIVISION B**

**Hazard Profiles: Flooding**

Date	Location	Type of Event	Mag	Death	Injuries	Property Damage	Crop Damage
3/3/2001	Butler County	Flash Flood		0	0	\$10,000	\$0
11/24/2001	Greenville	Flash Flood		0	0	\$10,000	\$0
7/10/2005	Butler County	Flash Flood		0	0	\$0	\$0
8/29/2005	Butler County	Flash Flood		0	0	\$0	\$0
9/4/2012	Greenville	Flash Flood		0	0	\$0	\$0
9/4/2012	Greenville	Flash Flood		0	0	\$0	\$0
9/4/2012	Greenville - Airport	Flash Flood		0	0	\$0	\$0
12/24/2015	Unincorp: Searcy	Flood		0	0	\$600,000	\$0
6/22/2017	Unincorp: Chapman	Flash Flood		0	0	\$0	\$0
5/29/2018	Unincorp: Searcy	Flash Flood		0	0	\$0	\$0
<b>Total</b>		10 Events		0	0	\$620,000	\$0
<b>Jurisdictional Summary: Flooding</b>							
Countywide		3 Events		0	0	\$10,000	\$0
Georgiana		0 Events		0	0	\$0	\$0
Greenville		4 Events		0	0	\$10,000	\$0
McKenzie		0 Events		0	0	\$0	\$0
Unincorporated Butler County		3 Events		0	0	\$600,000	\$0

**BUTLER COUNTY**

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**AEMA DIVISION B**

**Hazard Profiles: High Winds**  
**Hail, Thunderstorms, Lightening, Tornadoes, Hurricanes**

Hail	Number	Death	Inj	Prop Damage	Crop Damage
Countywide	0 Events	0	0	\$0	\$0
Georgiana	6 Events	0	0	\$0	\$0
Greenville	8 Events	0	0	\$1,000	\$0
McKenzie	0 Events	0	0	\$0	\$0
Unincorporated Butler County	8 Events	0	0	\$0	\$0

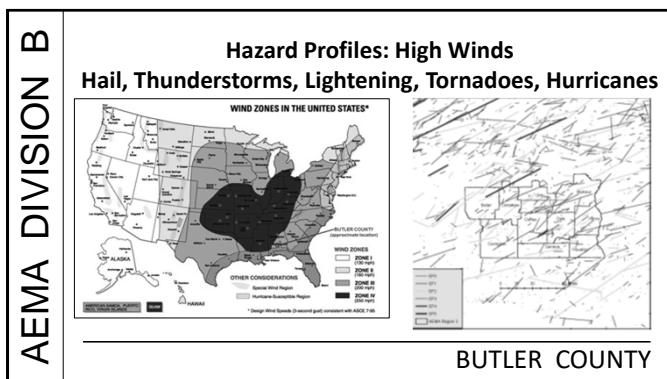
Thunderstorms, Winds, Heavy Rain	Number	Death	Inj	Prop Damage	Crop Damage
Countywide	0 Events	0	0	\$0	\$0
Georgiana	6 Events	1	2	\$127,000	\$0
Greenville	8 Events	1	2	\$990,000	\$0
McKenzie	37 Events	0	0	\$35,000	\$0
Unincorporated Butler County	14 Events	0	0	\$722,000	\$0

Tornadoes	Number	Death	Inj	Prop Damage	Crop Damage
Countywide	0 Events	0	0	\$0	\$0
Georgiana	5 Events	0	0	\$178,000	\$0
Greenville	1 Events	0	0	\$150,000	\$0
McKenzie	2 Events	0	3	\$108,000	\$0
Unincorporated Butler County	4 Events	0	0	\$125,000	\$0

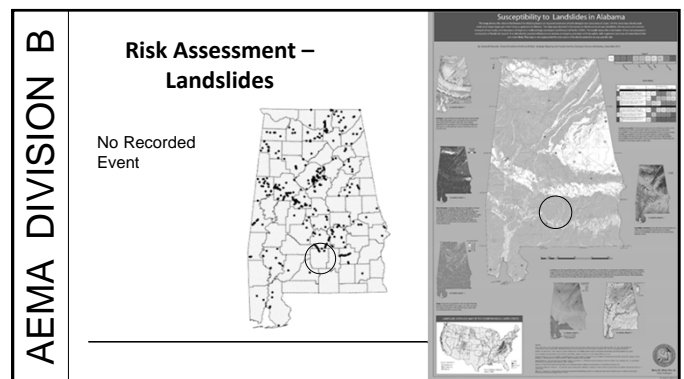
Hurricanes	Number	Death	Inj	Prop Damage	Crop Damage
Countywide	2 Events	0	0	\$200,000	\$0

**BUTLER COUNTY**

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<b>AEMA DIVISION B</b>	<b>Critical Facilities</b>							
	<b>Table 4.16: Critical Facility Summary</b>							
	Facilities	Barbour	Butler	Coffee	Covington	Geneva	Henry	Houston
	Fire / Rescue	9	18	5	23	9	6	31
	Law Enforcement	3	4	4	8	5	4	9
	Hospital / Health Dept	4	5	3	4	3	2	4
	Schools	8	13	21	14	12	9	43
	Continuity of Government	8	5	7	16	8	6	14
<b>BUTLER COUNTY</b>								

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<b>AEMA DIVISION B</b>	<b>Butler County Mitigation Strategies</b>	
	<b>GOALS:</b>	<b>HAZARDS:</b>
	1. PREVENTION	<ul style="list-style-type: none"><li>• Dam Failure</li></ul>
	2. PROPERTY PROTECTION	<ul style="list-style-type: none"><li>• Drought/Extreme Heat</li></ul>
	3. NATURAL RESOURCE PROTECTION	<ul style="list-style-type: none"><li>• Earthquake</li></ul>
	4. STRUCTURAL MITIGATION	<ul style="list-style-type: none"><li>• Flooding</li></ul>
	5. EMERGENCY SERVICES	<ul style="list-style-type: none"><li>• High Winds: Hurricanes, Tornadoes, Windstorms</li></ul>
	6. EDUCATION AND AWARENESS	<ul style="list-style-type: none"><li>• Landslides</li></ul>
<hr/>		
<b>BUTLER COUNTY</b>		

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<b>AEMA DIVISION B</b>	<b>Critical Facilities</b>							
	<ul style="list-style-type: none"> <li>• Fire and Rescue</li> <li>• Law Enforcement</li> <li>• Hospital / Health Department</li> <li>• Schools</li> <li>• Continuity of Government</li> <li>• Utilities/Infrastructure</li> </ul>							
	<b>BUTLER COUNTY</b>							

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<b>AEMA DIVISION B</b>	<b>Division B Hazard Mitigation Plan Update</b>							
	<b>Next Meeting: Public Hearing</b> <ul style="list-style-type: none"> <li>• Review Draft</li> <li>• Hazard Risk Assessment</li> <li>• Hazard Mitigation Goals</li> <li>• Jurisdiction Action Plans</li> </ul>							
	<b>BUTLER COUNTY</b>							

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AEMA DIVISION B

AEMA Division B Mitigation Goals - 2015

1. PREVENTION: Manage the development of land and buildings to minimize risk of life and property loss due to hazard events.

2. PROPERTY PROTECTION: Protect structures and their occupants and contents from the damaging effects of hazard events.

3. NATURAL RESOURCE PROTECTION: Preserve, rehabilitate, and enhance the beneficial functions of the natural environment to promote a balance between natural systems and social and economic demands .

4. STRUCTURAL MITIGATION: Apply engineered structural modifications to natural systems and public infrastructure to reduce the potentially damaging impacts of hazards, where those modifications are feasible and environmentally suitable.

5. EMERGENCY SERVICES: Improve the efficiency, timing, and effectiveness of response and recovery efforts for hazard events.

6. EDUCATION AND AWARENESS: Educate and foster public awareness of hazards and techniques available for mitigation.

BUTLER COUNTY

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# Greenville Advocate

Run Date – Wednesday, July 15, 2020

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## HAZARD MITIGATION PUBLIC HEARING

The Butler County Emergency Management Agency (EMA) Local Emergency Planning Committee (LEPC) is updating the county's hazard mitigation plan to further establish proactive hazard mitigation policies and actions that will help reduce risk and create a safer, more disaster resistant environment in Butler County. As part of the planning process, the Butler County EMA will be conducting an Open House Public Hearing. Participants will be able to attend at any time during the two-hour meeting time to review and comment on the proposed Southeast Alabama Hazard Mitigation Plan Update.

**Hazard Mitigation Plan Update 2020 Open House Public Hearing  
Monday, July 20, 2020 from 1:30 PM to 3:30 PM**

Butler County EMA Office, 350 Airport Road, Greenville, AL 36037

All Hazard Mitigation Planning meetings are open to the public and interested citizens are encouraged to attend. COVID-19 social distancing requirements will be in effect and no more than 10 attendees will be allowed in the room at one time. If you would like to attend the meeting and need special accommodations, please contact the Butler County EMA office, at 334-382-7911 or [bcema@butlercoal.us](mailto:bcema@butlercoal.us).



## ***HAZARD MITIGATION PUBLIC HEARING***

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### **Hazard Mitigation Plan Update 2020**

#### **Open House Public Hearing**

**Monday, July 20, 2020**

**1:30 PM to 3:30 PM**

at the Butler County EMA Office

located at 350 Airport Road, Greenville, AL 36037

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Michael Vign	Butler Co EMA	bremachuttercool.us
Keith Felt	BOA/FD	LongARM57@Aol.com
Valerie Heath	Regional Medical Center	valerie.heath@mecca.com
Les Liller	Greenville Fire Dept.	les@cityofgrville.com
Tim Warrick	Greenville Fire Dept.	tim@cityofguille.com
Catherine Tanner	Butler County Schools	334-366-1223 catherine.tanner@butlerco.k12.pa.us
Joshua McDougald	Butler Co. Road Dept.	334-382-3232 jmcDougald@butlercool.us



# Butler County

## Hazard Mitigation Plan Update 2020

### Disaster Mitigation Act of 2000

The purpose of the Stafford Act, as amended by the Disaster Mitigation Act of 2000, is "to reduce the loss of life and property, human suffering, economic disruption, and disaster assistance costs resulting from natural disasters."

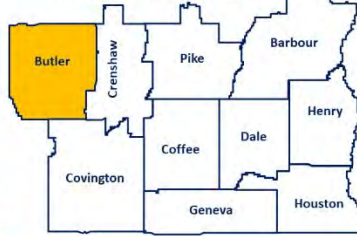
Section 322 of the Act specifically addresses mitigation planning and requires state and local governments to prepare multi-hazard mitigation plans as a precondition for receiving FEMA mitigation project grants.

- Requires that each local government prepare and adopt a multi-hazard mitigation plan
- Must have an adopted hazard mitigation plan to be eligible for disaster recovery funds in the event of a natural disaster
- Hazard mitigation plan must be maintained and updated every five years

### Alabama Emergency Management Agency Divisions

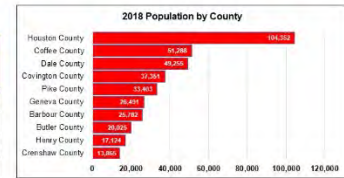
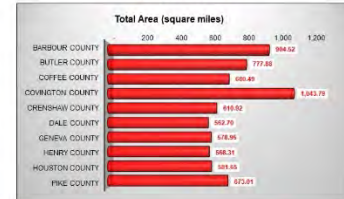


### AEMA Division B 10 Counties, 70+ Municipalities



Jurisdiction	2000 Census Population	2010 Census Population	% Change, 2000 to 2010	2018	% Change 2010 to 2018
Butler County	21,399	20,947	-2.11%	20,025	-4.40%
City of Georgiana	1,737	1,738	0.06%	1,814	10.13%
City of Greenville	7,228	8,135	12.55%	7,714	-5.18%
Town of McKenzie	642	522	-18.69%	608	16.48%

### AEMA Division B Characteristics



### Natural Hazard:

a threat of a naturally occurring event that will have a negative effect on people or the environment

**Hazard Mitigation** reduces disaster damages and is defined as sustained action taken to reduce or eliminate the long-term risk to human life and property from hazards.

- Increase risk awareness
- Protect critical facilities
- Removal of structures from flood hazard areas
- Mitigation savvy development codes and regulations

### Mitigation Strategy:

broad actions that help to further define mitigation goals and outline actions necessary to address a natural hazard

### Butler County FEMA Disaster Declarations, 1953 to 2020

Alabama = 90 Disaster Events; AEMA Division B = 32 Disaster Events; Butler County = 21 Disaster Events

Date	Number	Type of Incident	IA	PA
7/20/1977	EM-3045	Drought		X
3/21/1990	DR-861	Severe Storms, Tornadoes, Flooding	X	X
3/15/1993	EM-3096	Severe Snowfall, Winter Storm		X
10/4/1995	DR-1070	Hurricane Opal	X	X
3/9/1998	DR-1208	Severe Storms, Flooding	X	X
9/28/1998	EM-3133	Hurricane Georges		X
9/30/1998	DR-1250	Hurricane Georges	X	X
12/7/2001	DR-1369	Severe Storms, Tornadoes	X	X
9/15/2004	DR-1549	Hurricane Ivan	X	X
9/10/2005	EM-3237	Hurricane Katrina Evacuation		X
8/30/2008	EM-3292	Hurricane Gustav		X
4/28/2009	DR-1635	Severe Storms, Tornadoes, Straight-line Winds, Flooding	X	X
12/31/2009	DR-1870	Severe Storms and Flooding		X
4/27/2011	EM-3319	Severe Storms, Tornadoes, Straight-line Winds		X
4/28/2011	DR-1971	Severe Storms, Tornadoes, Straight-line Winds, Flooding		X
5/2/2014	DR-4176	Severe Storms, Tornadoes, Straight-line Winds, Flooding	X	X
1/21/2016	DR-4251	Severe Storms, Tornadoes, Straight-line Winds, Flooding		X
9/11/2017	EM-3389	Hurricane Irma		X
10/8/2017	EM-3394	Hurricane Nate		X
10/12/2018	DR-3407	Hurricane Michael		X
5/21/2020	DR-4546	Severe Storms, Flooding		X

### Butler County Disaster Events by Jurisdiction, 2000 to 2020

Affected Area	Countywide	Unincorp. Butler Co.	Town of Georgiana	City of Greenville	Town of McKenzie	Total
Number of Events	18	81	29	61	10	199
# Deaths	0	2	1	1	0	4
# Injuries	0	11	2	2	3	18
Property Damage	\$1,810,000	\$2,300,030	\$321,000	\$636,500	\$166,500	\$3,424,030
Crop Damage	\$0	\$0	\$0	\$0	\$0	\$0
<b>Number of Events by Type</b>						
Drought	2	0	0	0	0	0
Heat	2	0	0	0	0	0
Hurricane	2	0	0	0	0	0
Sleet	1	0	0	0	0	0
Tropical Storm	1	0	0	0	0	0
Winter Storm	5	0	0	0	0	0
Flood	5	5	0	4	2	11
Hail	0	16	9	12	0	37
Thunderstorm	0	43	13	40	6	102
Tornado	0	17	5	2	2	26
Lightening	0	0	2	2	0	4
Heavy Rain	0	0	0	1	0	1

### Butler County Critical Facilities, 2020

- Fire and Rescue (17)
- Law Enforcement (6)
- Hospital / Health Facilities (11)
- Schools (13)
- Continuity of Government (4)
- Utilities/Infrastructure (14)

### Natural Hazard Risk Assessment

PROBABILITY	Dam Failure	Drought	Earth quake	Flooding	High Winds	Land slides	Sink holes	Wild Fire	Winter Storms
Locations	County	County	Outside County	County	County	North County	Central County	WUI	County
Extent	H, S, L	D0 to D4	I to XII	A to AE	EF 0-5 Cat 1-5	---	---	7.37 ac/fire	--
Historical Occurrence	0 Events	4 Events	0	10 Events	H-22 TS-65 T-12 H-2	0/?	Several	536/3952.85 acres	5 Events
Probability of Future Events	Low	Medium	Very Low	High	High	Low	Low	Medium	Low

NATURAL HAZARD PRIORITY STATUS	Probability		Impact		Location Extent		Warning Time		Duration		Weighted Score	Weighted Priority Ranking
	Index Value 1 to 4	Weighted Factor 30%	Index Value 1 to 4	Weighted Factor 30%	Index Value 1 to 4	Weighted Factor 20%	Index Value 1 to 4	Weighted Factor 10%	Index Value 1 to 4	Weighted Factor 10%		
Dam Failure	1	0.3	2	0.6	1	0.2	2	0.2	1	0.1	1.4	8
Drought/Extreme Heat	2.5	0.75	4	1.2	4	0.8	1	0.1	4	0.4	3.25	3
Earthquake	0.5	0.15	0.5	0.15	0.5	0.1	4	0.4	1	0.1	0.9	11
Flooding	4	1.2	4	1.2	2	0.4	3	0.3	3	0.3	3.4	1
Hurricanes	3	0.9	4	1.2	4	0.8	1	0.1	2	0.2	3.2	4
Tornados	4	1.2	4	1.2	2	0.4	4	0.4	1	0.1	3.3	2
Thunderstorms	4	1.2	1	0.3	2	0.4	4	0.4	1	0.1	2.4	6/7
Landslides	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	9/10
Land Subsidence	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	9/10
Wildfire	2.5	0.75	2	0.6	2	0.4	4	0.4	3	0.3	2.45	5
Winter Storms	2.5	0.75	3	0.9	4	0.8	1	0.1	3	0.3	2.4	6/7

### Hazard Mitigation Goals:

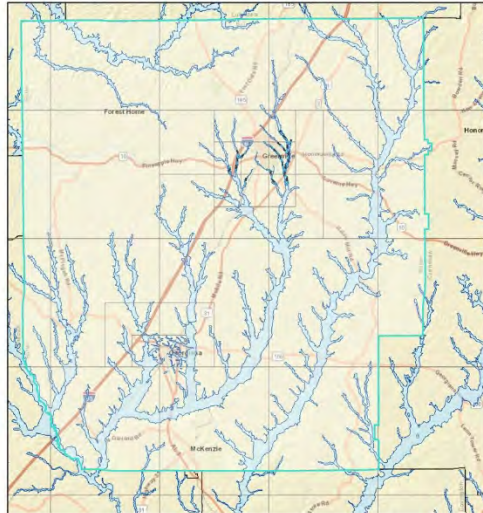
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- STRUCTURAL MITIGATION:** Apply engineered structural modifications to natural systems and public infrastructure to reduce the potentially damaging impacts of hazards, where those modifications are feasible and environmentally suitable.
- EMERGENCY SERVICES:** Improve the efficiency, timing, and effectiveness of response and recovery efforts for hazard events.
- EDUCATION AND AWARENESS:** Educate and foster public awareness of hazards and techniques available for mitigation.



# Hazard Profiles, Risk Assessment and Probability

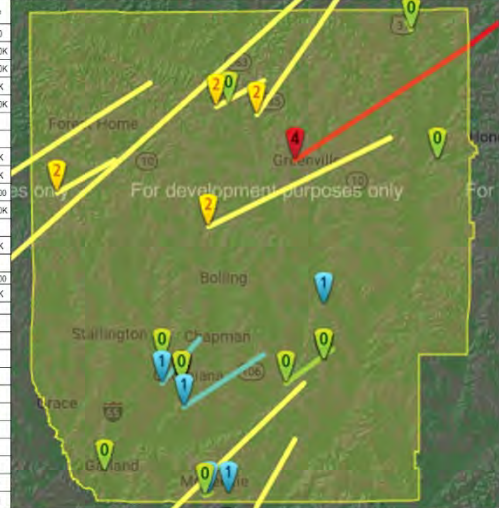
## High Priority Hazards

### 1. Flooding – 10 flooding events since 2000

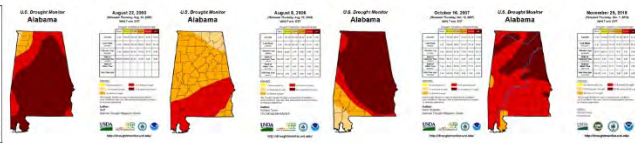
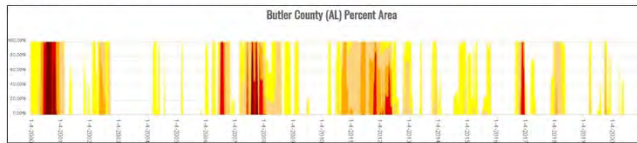


### 2. Tornadoes – 11 tornadoes since 2000. 2 EF2, 2 EF1, 7 EF0

Date	Fujita	Fatality	Injuries	Width	Length	Damage
12/23/1955	2	0	1	100	121.7	\$50-\$500
9/28/1957	2	0	0	440	23.2	\$50K-\$500K
9/28/1957	2	0	0	133	12.3	\$50K-\$500K
9/28/1957	2	0	0	133	14.5	\$5K-\$50K
9/28/1957	2	0	2	200	11.5	\$50K-\$500K
7/4/1995	0	0	0	10	0.1	-
7/4/1995	0	0	0	10	0.1	-
10/4/1994	1	0	0	100	3.3	\$5K-\$50K
12/24/1964	2	0	0	10	4.9	\$5K-\$50K
12/29/1964	1	0	0	10	0.1	\$600-\$1000
4/18/1969	4	2	14	500	52.4	\$50K-\$500K
8/17/1973	1	0	0	10	0.1	-
11/25/1979	2	0	12	50	22.9	\$5K-\$50K
3/29/1983	1	0	0	30	0.1	<\$50
7/17/1985	0	0	0	20	0.1	\$500-\$5000
10/4/1995	0	0	0	23	0.1	\$5K-\$50K
10/25/1997	0	0	0	150	1	\$0-\$0
11/24/2001	0	0	0	100	3	\$0-\$0
11/24/2001	1	0	3	150	6	\$0-\$0
11/24/2001	0	0	0	20	0.1	\$0-\$0
11/5/2002	0	0	0	50	0.5	\$0-\$0
3/1/2007	0	0	0	30	3.15	\$0-\$0
10/23/2007	0	0	0	60	0.1	\$0-\$0
4/15/2011	2	0	0	300	21.51	\$0-\$0
4/15/2011	2	0	0	400	3.32	\$0-\$0
11/17/2014	1	0	0	150	5.86	\$0-\$0
3/24/2016	0	0	0	50	0.38	\$8,000
10/7/2017	0	0	0	200	0.56	\$10,000



### 3. Drought / Extreme Heat – 4 drought and extreme heat events since 2000; 1 event in 2000, 1 event in 2007, 2 events in 2016



Flooding	Number of Events	Death	Injuries	Property Damage	Crop Damage	Tornadoes	Number of Events	Death	Injuries	Property Damage	Crop Damage
Countywide	3 Events	0	0	\$10,000	\$0	Countywide	0 Events	0	0	\$0	\$0
Georgiana	0 Events	0	0	\$0	\$0	Georgiana	5 Events	0	0	\$178,000	\$0
Greenville	4 Events	0	0	\$10,000	\$0	Greenville	1 Events	0	0	\$150,000	\$0
McKenzie	0 Events	0	0	\$0	\$0	McKenzie	2 Events	0	3	\$108,000	\$0
Unincorp. Butler County	3 Events	0	0	\$600,000	\$0	Unincorp. Butler County	4 Events	0	0	\$125,000	\$0
<b>Total</b>	<b>10 Events</b>	<b>0</b>	<b>0</b>	<b>\$620,000</b>	<b>\$0</b>						

Drought / Extreme Heat	Date	Event Type	Deaths	Injuries	Property Damage	Crop Damage
Butler County	7/1/2000	Heat	0	0	\$0	\$0
Butler County	8/8/2007	Heat	0	0	\$0	\$0
Butler County	11/1/2016	Drought	0	0	\$0	\$0
Butler County	12/1/2016	Drought	0	0	\$0	\$0

## Medium Priority Hazards

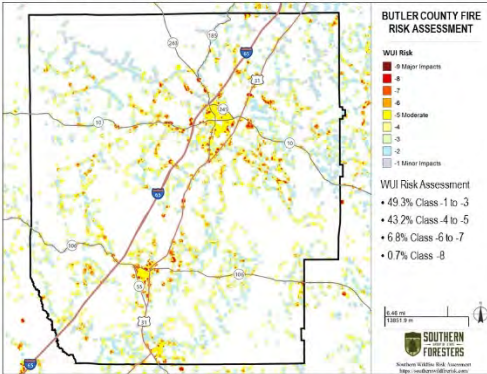
### 4. Hurricanes

2 events (2000 to 2020), 0 deaths or injuries, \$200,000 in property damage



### 5. Wildfire

536 wildfires from 2007 to 2020 with 3,952.85 acres burned, or 7.37 acres per fire. Largest fire occurred in February 2015 with 652 acres burned.



### 6. Thunderstorms

Data from NOAA National Centers for Environmental Information

Thunderstorms, Winds, Heavy Rain	Number	Death	Inj	Prop Damage	Crop Damage
Countywide	0 Events	0	0	\$0	\$0
Georgiana	6 Events	1	2	\$127,000	\$0
Greenville	8 Events	1	2	\$398,000	\$0
McKenzie	37 Events	0	0	\$35,000	\$0
Unincorporated Butler County	14 Events	0	0	\$722,000	\$0

Hail	Number	Death	Inj	Prop Damage	Crop Damage
Countywide	0 Events	0	0	\$0	\$0
Georgiana	6 Events	0	0	\$0	\$0
Greenville	8 Events	0	0	\$1,000	\$0
McKenzie	0 Events	0	0	\$0	\$0
Unincorporated Butler County	8 Events	0	0	\$0	\$0

### 7. Winter / Ice Storms

Winter / Ice Storms	Number	Death	Inj	Prop Damage	Crop Damage
Countywide	5 Events	0	0	\$0	\$0

## Low Priority Hazards

### 8. Dam Failure

21 dams in Butler County; 0 high potential hazard, 6 significant potential.



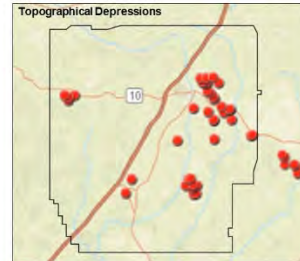
### 9. Landslides

No recorded event of landslides in Butler County.



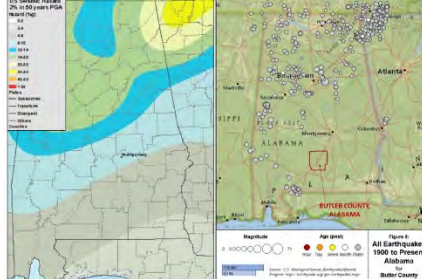
### 10. Land Subsidence

No recorded event of land subsidence or sinkholes in Butler County, although topographical depressions are present.



### 11. Earthquakes

Alabama Seismic Zones





# Butler County Hazard Mitigation Goal Review, 2020

Status: C=Complete, O=Ongoing, N=Not Started

Status	2020 Validity			Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score	Butler County	Georgiana	Greenville	McKenzie	Butler County Schools
	Y	N	N/A											
N	X			Adopt and enforce modern building codes	All	Butler County Engineer, Planning Officials	Local	Medium	High	X			X	
O	X			Assist with implementation and update of hazard mitigation plan	All	Butler County EMA, Municipal Administrations	Local	High	High		X	X	X	
O	X			Continue enforcement of modern building codes	All	City Clerk, Bldg Inspector, Greenville Planning Dept	Local	High	High		X	X		
O	X			Continue to research and provide hazard mitigation, emergency preparedness, and disaster recovery grant management	All	Butler County EMA	Local	Medium	High	X	X	X	X	
N	X			Develop long-range growth and development plan to address permitting and construction	All	Town Administration	Local, other TBD	Medium	High				X	
O	X			Develop long-range growth and development plan to address permitting and construction process in unincorporated areas, including building permitting and subdivision regulations	All	Butler County Engineer, Planning Official	Local, other TBD	Medium	High	X				
O	X			Ensure the Butler County EMA is involved in reviewing local planning documents	All	Local Government Building Officials	Local	Medium	High	X			X	
O	X			Ensure the Butler County EMA is involved in reviewing local planning documents	All	Municipal Bldg/Planning Officials	Local	High	High		X	X		
O	X			Incorporate development of Geographic Information Systems (GIS) for database of critical facilities, infrastructure, and other applicable data to assist in hazard risk assessments	All	Butler County EMA, SCADC, Local Officials	Local, other TBD	Medium	Moderate	X	X	X	X	
O	X			Work with municipalities to assist with implementation and update of hazard mitigation plan	All	Butler County EMA / Municipal Officials	Local	High	High	X				
O	X			For NFIP, ensure future land use and growth plans do not extend development into flood plains	Flooding	Butler County Engineer, Municipal Bldg/Planning Officials	Local	High	High	X	X			
O	X			For NFIP, incorporate and enforce flood management provisions in all land use and zoning regulations	Flooding	City Clerk / Zoning Board	HMGP/FMA/Local	High	High		X	X		
O	X			For NFIP, incorporate and enforce flood management provisions in all land use and zoning regulations	Flooding	Planning Dept	HMGP/FMA/Local	High	High			X		
O	X			For NFIP, incorporate and enforce flood management provisions in all land use and zoning regulations	Flooding	Building/Planning Officials /Zoning Board	HMGP/FMA/Local	High	High	X	X			
O	X			For NFIP, maintain and update Comprehensive Plan and ensure future land use and growth plans do not extend development into flood plains	Flooding	Planning Dept	Local	High	High			X		
N	X			Limit economic development activity in areas with a risk for landslides and land subsidence.	Landslides, Subsidence	Local Planning and Building Officials	Local	High	High	X	X	X	X	
N	X			Further investigate areas of topographical depressions to evaluate local risk for land subsidence or sinkholes.	Subsidence	Butler County EMA, Butler County Engineer	Local	Medium	High	X				
N	X			Support Butler County EMA efforts to investigate areas of topographical depressions to evaluate local risk for land subsidence or sinkholes.	Subsidence	Butler County EMA, Butler County Engineer	Local	Medium	High	X	X	X	X	
O	X			Promote utilization of municipal zoning ordinances in urban fringe areas	Wildfire	Building/Planning Officials	Local	High	High					
O	X			Utilize zoning ordinance for development in urban fringe areas	Wildfire	City Clerk / Zoning Board / Planning Dept	Local	High	High		X	X		
N	X			Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High	X	X	X	X	
N	X			Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	Winter / Ice Storms	LEPC, Local Coordinator	Local	High	High	X	X	X	X	
N	X			Request flood studies for the southern part of Butler County that includes Georgiana and Garland communities to develop baseline elevations.	Flooding	Butler County EMA/ Butler County Engineer	HMGP/Local	High	Moderate	X	X			
O	X			Acquisition of properties in floodplains to be used for open space and other recreational activities, as funds and properties are available.	Flooding	Butler County Recreation and Planning Officials, Georgiana and McKenzie Administration, Greenville Planning Department	HMGP/ Local, other TBD	High	Moderate	X	X		X	

N	X				2	Acquisition or relocation of at-risk structures from flood prone and other natural areas	Flooding / All	Butler County EMA / Local Officials	HMGP/Local	High	Low	X			
N	X				2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Landslides	Butler County EMA / SCADC	Local	Medium	High	X	X	X	X
N	X				2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Landslides, Subsidence	Butler County EMA, LEPC	Local	Medium	High	X	X	X	X
N	X				3	Assess vegetation in wildfire-prone areas to prevent landslides after fires.	Landslides	Butler County EMA, Alabama Forestry Commission	Local	Medium	High	X	X	X	
N	X				4	Initiate local inventory of existing publicly- and privately-owned dams and record individual dam characteristics.	Dam Failure	Butler County EMA, Butler County Engineer, Local Building Officials	Local	Medium	High	X	X	X	X
N	X				4	Support Alabama Office of Water Resources efforts to record existing dams and their characteristics on a statewide basis.	Dam Failure	Butler County EMA, Butler County Engineer, Local Building Officials	Local	Medium	High	X	X	X	X
C/O	X				4	Continue bridge inspection and improvement efforts to prevent damage during flood events	Flooding	Butler County Road Dept., Municipal Administrations, Greenville Public Works	AEMA/ FEMA (HMGP, PDM), ADECA, other TBD	High	Low	X	X	X	
O	X				4	Continue to evaluate flood prone roads to limit erosion and flood damage	Flooding	Butler County Road Dept., Municipal Administrations, Greenville Public Works	ALDOT, Local	High	High		X	X	
C/O	X				4	Identify flood prone roads to limit erosion and flood damage	Flooding	Butler Co Road Dept	ALDOT/Local	High	High	X			
N	X				4	Improve drainage conditions along North Garland Road, in front of school	Flooding	Town Administration	HMGP /Local, other TBD	Medium	Moderate			X	
					4	Improve drainage conditions along Overlook Road, near Middle School	Flooding	Public Works	HMGP/Local	High	Moderate		X		
N	X				4	Construct new public shelter facilities in those areas of the county with no shelter facilities, including outdoor recreation areas; consider ADECA/ADSS model	High Winds	Butler County EMA	HMGP/ADECA, other TBD	High	Moderate	X			
				X	4	Construction of a new public shelter facility, including outdoor recreation areas	High Winds	Butler County EMA / City Administration	HMGP/ADECA, other TBD	Low	Moderate	X			
C		X			4	Installation of 13 individual safe rooms in last several years	High Winds	Butler County EMA	HMGP/Private	Completed	N/A	X			
		X			4	Investigate construction of a new public shelter facility, including at school campuses and outdoor recreation areas	High Winds	Butler County EMA / Town Administration	HMGP/ADECA, other TBD	Low	Moderate			X	
			X		4	Investigate construction of a new public shelter facility, including at school campuses and outdoor recreation areas	High Winds	Butler County EMA / City Administration	HMGP/ADECA, other TBD	High	Moderate		X		
O		X			4	Provide isolation rooms in school facilities for pandemic children until they can be picked up.	High Winds	Butler County Schools	HMGP/Local	High	Moderate				X
C		X			4	Provide safe rooms in school facilities for student and staff safety	High Winds	Butler County Schools	HMGP/Local	High	Moderate				X
N	X				4	Secure funds for individual safe rooms	High Winds	Butler County EMA	HMGP/ Private	High	High	X	X	X	
O	X				4	Work with developers, homebuilders, and contractors to promote construction of a safe room in all new residential development	High Winds	Butler County EMA, Building and Planning Officials	Local	BC, GV-High GG, MC-Medium	High	X	X	X	
C		X			5	Completion of new water well for additional supply	All	Butler County Water Auth	Federal/Local	Completed	N/A	X			
O	X				5	Continue coordination of hazard mitigation activities with pandemic and health department provisions for emergency preparedness	All	Butler County EMA, Regional Medical Center	ADPH/Local Agencies	High	High	X	X	X	X
O	X				5	Continue inventory of emergency response services and assess needs	All	Butler County EMA, Municipal Administrations	Local	High	High	X	X	X	
C		X			5	Continue investigating need for emergency water supply during disaster events and assess generator needs for water supply	All	Butler County EMA / Local Water Systems	Local	High	High	X	X	X	
			X		5	Continue planning and installation of approximately 45 sirens at targeted sites to adequately cover population pockets in Butler County	All	Butler County EMA	HMGP/Local	High	Moderate	X			
			X		5	Continued installation of additional outdoor warning siren	All	Butler County EMA	HMGP/Local	High	Moderate		X		
C/O	X				5	Designation of volunteer central emergency coordinator	All	Municipal Administrations	Local	Completed	N/A	X	X	X	
C		X			5	Equip fire departments with emergency radios	All	Various fire departments	DHS/Local	High	High	X			
			X		5	Installation of additional outdoor warning siren	All	Butler County EMA	HMGP/Local	High	Moderate		X	X	
			X		5	Installation of outdoor warning sirens	All	Butler County EMA	HMGP/Local	High	Moderate			X	
			X		5	Installation of three (3) outdoor warning sirens in past five (5) years	All	Butler County EMA	Federal/Local	Completed	N/A	X			





N	X				Educate homeowners on safety techniques to follow during and after an earthquake.	6				Earthquake	Butler County EMA	Local	Medium	High	X	X	X	X	X
N	X				Include earthquake potential in GIS hazard mapping for residents and design professionals.	6				Earthquake	Butler County EMA / SCADC	Local	Medium	High	X				
O	X				Publicize information on locations of existing public shelter and appropriate use	6				High Winds	Butler County EMA, Red Cross	Local	High	High	X	X	X	X	
O	X				Educate citizens that all fuel-burning equipment should be vented to the outside.	6				Winter / Ice Storms	Butler County EMA	Local	High	High	X	X	X	X	
N	X				Encourage homeowners to install carbon monoxide monitors and alarms.	6				Winter / Ice Storms	Butler County EMA, Local Building Officials	Local	High	High	X	X	X	X	
N	X				Include safety strategies for severe weather in driver education classes and materials.	6				Winter / Ice Storms	Butler County EMA, Butler County Schools	Local	High	High					X
				X	Promote firewise building practices in urban fringe areas	1,2				Wildfire	Town Administration	Alabama Forestry / Local	High	High				X	
N	X				Join the NFIP program to enforce flood management provisions. <b>There are no floodplains located in McKenzie corporate boundaries.</b>	1,3				Flooding	Town Administration	Local	Medium	High				X	
N	X				Investigate need and feasibility for establishing a local reserve fund for repairing and/or incorporating hazard mitigation measures for public and private facilities and infrastructure that are at risk from natural hazards	1,4				All	County and Municipal Officials	Local	High	High	X	X	X	X	
C			X		Develop drought and heat indicator plan and warning system	1,5				Drought / EX. Heat	Farm Service Agency / County Extension Office	Local	High	High	X	X			
N	X				Develop land management course of training with County Extension System for decrease of property damage	2,3				All	Butler County EMA / County Extension Service	Extension Service/Local	High	High	X	X	X	X	
O	X				Continue to identify critical facilities and evaluate potential mitigation techniques	2,5				All	Butler County EMA / LEPC / Local Officials	Local	High	High	X	X	X	X	
N	X				Designate and upgrade/retrofit, as necessary, existing public facilities to provide shelter	2,5				High Winds	Butler County EMA / City Administration	Funding TBD	High	Moderate	X	X	X	X	
N	X				Designate and upgrade/retrofit, as necessary, existing public facilities to provide shelter in areas of Butler County where there currently are no shelters, primarily targeting schools and community centers, at a rate of one site every two years; include the consideration of community colleges for additional shelters; consider coordinating with a medical needs shelter and comfort care facility with Health Dept	2,5				High Winds	Butler County EMA / Shelter Operators / Dept of Public Health	Funding TBD	Medium	Moderate	X				
C/O	X				Multi-jurisdictional implementation of public awareness and education efforts about water conservation and quality	3,6				Drought / EX. Heat	Butler County EMA, Local Water Systems, Health Dept	Applicable Agencies/ Local	Medium	High	X	X	X	X	
C/O	X				Establish education program on buffer construction and fire breaks in wildland interface areas	3,6				Wildfire	Butler County EMA, Fire Protection Authorities	Alabama Forestry / Local, other TBD	BC-Medium/ Munis- High	High	X	X	X	X	
C/O	X				Support Alabama Forestry Commission efforts to educate private landowners on best practices	3,6				Wildfire	Butler County EMA, Fire Protection Authorities, Building and Planning Officials	Local	Medium	High	X	X	X	X	
O	X				Maintain and expand existing shelter facilities to provide adequate pre-disaster care and space, as needed; add additional generators; need to include shelter training and communication/shelter training	4,5				High Winds	Shelter Operators, American Red Cross	HMGPI/ADECA, other TBD	Medium	High	X	X	X	X	
O	X				Work with medical providers to develop emergency supplies and education program through the Healthcare Coalition	5,6				All	Butler County EMA, ADPH, County Health Dept, Medical Providers	ADPH/Local Medical Facilities	High	High	X	X	X	X	

# Alabama Regional Hazard Mitigation Plan Butler County Draft Review Comment Form

Name: \_\_\_\_\_ County: \_\_\_\_\_

Organization: \_\_\_\_\_

Daytime Phone: \_\_\_\_\_ Email: \_\_\_\_\_

1. Do you agree with the Butler County natural hazard risk assessment as presented in the Butler County portion of the Southeast Alabama Regional Hazard Mitigation Plan? \_\_\_\_\_Yes \_\_\_\_\_No

If no, why not? \_\_\_\_\_

2. Do you agree with the Butler County natural hazard priority status as presented in the Butler County portion of the Southeast Alabama Regional Hazard Mitigation Plan? \_\_\_\_\_Yes \_\_\_\_\_No

If no, why not? \_\_\_\_\_

3. Please list any additional natural hazard mitigation strategies that you feel need to be included in the Butler County Hazard Mitigation Plan.

[illegible]



**Southeast Alabama Regional Hazard Mitigation Plan  
Butler County  
Draft Review Comment Form**

Name: Joshua McDougald County: Butler  
Organization: Butler County Road Department  
Daytime Phone: 334-382-3232 Email: jmcDougald@butlercoal.us

1. Do you agree with the Butler County natural hazard risk assessment as presented in the Butler County portion of the Southeast Alabama Regional Hazard Mitigation Plan? X Yes        No  
If no, why not?       

2. Do you agree with the Butler County natural hazard priority status as presented in the Butler County portion of the Southeast Alabama Regional Hazard Mitigation Plan? X Yes        No  
If no, why not?       

3. Please list any additional natural hazard mitigation strategies that you feel need to be included in the Butler County Hazard Mitigation Plan.

None that I can think of. Great Job.

**Southeast Alabama Regional Hazard Mitigation Plan  
Butler County  
Draft Review Comment Form**

Name: Michael Vigor County: Butler  
Organization: EMA  
Daytime Phone: 382-7941 Email: bcema@butlercoal.us

1. Do you agree with the Butler County natural hazard risk assessment as presented in the Butler County portion of the Southeast Alabama Regional Hazard Mitigation Plan? \_\_\_\_\_ Yes \_\_\_\_\_ No  
If no, why not? \_\_\_\_\_

2. Do you agree with the Butler County natural hazard priority status as presented in the Butler County portion of the Southeast Alabama Regional Hazard Mitigation Plan? \_\_\_\_\_ Yes \_\_\_\_\_ No  
If no, why not? \_\_\_\_\_

3. Please list any additional natural hazard mitigation strategies that you feel need to be included in the Butler County Hazard Mitigation Plan.

The county is in desperate need of radio communication upgrades. The Vol Fire Depts rely on an outdated radio system



**Southeast Alabama Regional Hazard Mitigation Plan**  
**Butler County**  
**Draft Review Comment Form**

Name: Keith Foster  
Butler County Volunteer Fire Dept County: Butler  
Organization: Butler County Volunteer Fire Depts  
Daytime Phone: 334-525-0332 Email: LongArm57@Proline.com

1. Do you agree with the Butler County natural hazard risk assessment as presented in the Butler County portion of the Southeast Alabama Regional Hazard Mitigation Plan? \_\_\_\_\_ Yes ☒ No  
If no, why not? Several ~~assessments~~ assessments in past  
few years are changing data
2. Do you agree with the Butler County natural hazard priority status as presented in the Butler County portion of the Southeast Alabama Regional Hazard Mitigation Plan? \_\_\_\_\_ Yes ☒ No  
If no, why not? Some hazards are less critical  
than listed
3. Please list any additional natural hazard mitigation strategies that you feel need to be included in the Butler County Hazard Mitigation Plan.

Not having to proper equipment to do certain  
jobs.

## Draft Review Comment Form

Organization: Greenville Fire Dept.

Daytime Phone: 334-382-7183 Email: les@cityofgville.com

- If no, why not?

- If no, why not?

If no, why not? It is my belief that thunderstorms should have a higher priority

- need to be included in the Butler County Hazard Mitigation Plan.



## Draft Review Comment Form

Organization: Greenville Fire Department

Daytime Phone: 334-368-0007 Email: timecityofgalle.com

- If no, why not? \_\_\_\_\_

- If no, why not? I think that the Thunderstorm status should

maybe be a 2 at least or maybe even a 3. due to the past history of thunderstorms

- need to be included in the Butler County Hazard Mitigation Plan.

**Southeast Alabama Regional Hazard Mitigation Plan**  
**Butler County**  
**Draft Review Comment Form**

Name: Catherine Tanner County: Butler  
Organization: Butler County Public Schools  
Daytime Phone: (334) 368-1223 Email: catherine.tanner@butlerco.k12.al.us

1. Do you agree with the Butler County natural hazard risk assessment as presented in the Butler County portion of the Southeast Alabama Regional Hazard Mitigation Plan? ☒ Yes ☐ No  
If no, why not? \_\_\_\_\_

2. Do you agree with the Butler County natural hazard priority status as presented in the Butler County portion of the Southeast Alabama Regional Hazard Mitigation Plan? ☒ Yes ☐ No  
If no, why not? \_\_\_\_\_

3. Please list any additional natural hazard mitigation strategies that you feel need to be included in the Butler County Hazard Mitigation Plan.

NA



**Southeast Alabama Regional Hazard Mitigation Plan  
Butler County  
Draft Review Comment Form**

Name: Valerie Heath County: Butler  
Organization: Regional Medical Center  
Daytime Phone: (334) 383-2446 Email: Valerie.heath@rmcca.com

1. Do you agree with the Butler County natural hazard risk assessment as presented in the Butler County portion of the Southeast Alabama Regional Hazard Mitigation Plan? ☒ Yes ☐ No  
If no, why not? \_\_\_\_\_

2. Do you agree with the Butler County natural hazard priority status as presented in the Butler County portion of the Southeast Alabama Regional Hazard Mitigation Plan? ☒ Yes ☐ No  
If no, why not? \_\_\_\_\_

3. Please list any additional natural hazard mitigation strategies that you feel need to be included in the Butler County Hazard Mitigation Plan.

- No natural hazards to discuss  
- We do need a universal communications  
system for police, fire and other first  
responders.



# **Crenshaw County Public Participation**

**AEMA DIVISION B HAZARD MITIGATION PLAN  
CRENSHAW COUNTY STAKEHOLDER MEETING – JUNE 24, 2020**

**AGENDA**

1. Welcome and Introductions
2. Hazard Mitigation Overview
3. Butler County Local Emergency Planning Committee
4. Community Profile
5. Risk Assessment
6. Critical Facilities
7. AEMA Division B Goals
8. Butler County Mitigation Strategies
9. Next Meeting and Adjourn



**AEMA DIVISION B**

## Crenshaw County Hazard Mitigation Plan Update

June 24, 2020

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CRENSHAW COUNTY

1

**AEMA DIVISION B**

### Southeast Alabama Regional Multi-Jurisdictional Hazard Mitigation Plan


<u>2015 -- 7 COUNTIES:</u> <ul style="list-style-type: none"> <li>• BARBOUR COUNTY</li> <li>• BUTLER COUNTY</li> <li>• COFFEE COUNTY</li> <li>• COVINGTON COUNTY</li> <li>• GENEVA COUNTY</li> <li>• HENRY COUNTY</li> <li>• HOUSTON COUNTY</li> </ul>	<u>2020 -- 10 COUNTIES:</u> <ul style="list-style-type: none"> <li>• BARBOUR COUNTY</li> <li>• BUTLER COUNTY</li> <li>• COFFEE COUNTY</li> <li>• COVINGTON COUNTY</li> <li>• CRENSHAW COUNTY</li> <li>• DALE COUNTY</li> <li>• GENEVA COUNTY</li> <li>• HENRY COUNTY</li> <li>• HOUSTON COUNTY</li> <li>• PIKE COUNTY</li> <li>• 70+ MUNICIPALITIES</li> </ul>
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CRENSHAW COUNTY

4

**AEMA DIVISION B**



**Southeast Alabama  
Regional  
Multi-Jurisdictional  
Hazard Mitigation  
Plan**

September 24, 2015

<https://ema.alabama.gov/county-mitigation-plan/>

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CRENSHAW COUNTY

2

**AEMA DIVISION B**

### What is a natural hazard?

*a threat of a naturally occurring event that will have a negative effect on people or the environment*

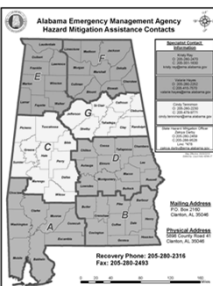

<ul style="list-style-type: none"> <li>• Floods (riverine flooding, storm surge, flash floods)</li> <li>• High Winds (hurricanes, tornadoes, windstorms)</li> <li>• Winter / Ice Storms</li> <li>• Landslides</li> <li>• Sinkholes and Land subsidence</li> </ul>	<ul style="list-style-type: none"> <li>• Earthquakes</li> <li>• Drought</li> <li>• Hail</li> <li>• Wildfires</li> <li>• Extreme Temperatures</li> <li>• Thunderstorms and Lightning</li> <li>• Dam Failure.</li> </ul>
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CRENSHAW COUNTY

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**AEMA DIVISION B**

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CRENSHAW COUNTY

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**AEMA DIVISION B**

### What is hazard mitigation?

Hazard mitigation reduces disaster damages and is defined as ***sustained action taken to reduce or eliminate the long-term risk to human life and property from hazards.***

- Increase risk awareness
- Protect critical facilities
- Removal of structures from flood hazard areas
- Encourage savvy development codes and regulations

Local governments have the responsibility to protect the health, safety, and welfare of their citizens. Proactive mitigation policies and actions help reduce risk and create safer, more disaster-resilient communities. Mitigation is an investment in your community's future safety and sustainability.

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CRENSHAW COUNTY

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**AEMA DIVISION B**

### Role of hazard mitigation?

Consider the critical importance of mitigation to:

- Protect public safety and prevent loss of life and injury.
- Reduce harm to existing and future development.
- Prevent damage to a community's unique economic, cultural, and environmental assets.
- Minimize operational downtime and accelerate recovery of government and business after disasters.
- Reduce the costs of disaster response and recovery and the exposure to risk for first responders.
- Help accomplish other community objectives, such as leveraging capital improvements, infrastructure protection, open space preservation, and economic resiliency.

CRENSHAW COUNTY

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**AEMA DIVISION B**

### Crenshaw County LEPC - 2013

- Jessica Tomlin- EMA Director
- Benjamin Sanders - Crenshaw County Engineer
- Morris Tate – City Engineer, City of Luverne
- Dan Jackson - Mayor, Town of Glenwood
- Bernie Sullivan - Mayor, Town of Brantley
- Charles Swidell - Mayor, Town of Petrey
- Joe Dexter Flynn - Mayor, Town of Rutledge
- Carlos Dean - Mayor, Town of Dozier
- Troy Hudson – Board Member, Crenshaw Co. Dept. of Education

CRENSHAW COUNTY

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**AEMA DIVISION B**

### Disaster Mitigation Act of 2000

*"Instead of repeated damage and continual demands for federal disaster assistance, resilient communities proactively protect themselves against hazards, build self-sufficiency, and become more sustainable."*

**Disaster Mitigation Act of 2000**

The purpose of the Stafford Act, as amended by the Disaster Mitigation Act of 2000, is "to reduce economic disruption, and disaster assistance costs resulting from natural disasters."

Section 322 of the Act specifically addresses mitigation planning and requires state and local plans as a precondition for receiving FEMA mitigation project grants.

- Requires that each local government prepare and adopt a multi-hazard mitigation plan
- Must have an adopted hazard mitigation plan to be eligible for disaster recovery funds in the event of a natural disaster
- Hazard mitigation plan must be maintained and updated every five years

CRENSHAW COUNTY

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**AEMA DIVISION B**

### Area Profile

Total Land = 6,982.22 Square Miles  
13.3 of State of Alabama

CRENSHAW COUNTY

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**AEMA DIVISION B**

### Local Emergency Planning Committee (LEPC)

- Local Governments – County and Municipal
- Law Enforcement
- Emergency Services
- Healthcare
- Education
- Natural Resources
- Business, Industry and Communications
- Utility Services
- Non-Profit and Faith-Based Organizations

**Role:**

- Oversight and Guidance
- Liaison to Community and Respective Organizations
- Build Awareness
- Assist in Implementation

CRENSHAW COUNTY

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**AEMA DIVISION B**

### Area Profile

**2018 Population by County**

Jurisdiction	2000 Census Population	2010 Census Population	% Change, 2000 to 2010	2018	% Change 2010 to 2018
Crenshaw County	13,665	13,906	1.76%	13,865	-0.29%
Town of Brantley	920	809	-12.07%	828	2.35%
Town of Dozier	391	329	-15.86%	367	11.55%
Town of Glenwood	191	187	-2.09%	221	18.18%
City of Luverne	2,635	2,800	6.26%	2,771	-1.04%
Town of Petrey	63	58	-7.94%	48	-17.24%
Town of Rutledge	476	467	-1.89%	363	-22.27%

CRENSHAW COUNTY

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AEMA DIVISION B	Area Profile						
	2018 Population by Race	Total population	White	Black or African American	Other Race Alone	Two or more races	Hispanic or Latino Origin
13	United States	322,903,030	234,904,818	40,916,113	36,646,302	10,435,797	57,517,935
	Percent	100.00%	72.75%	12.67%	11.35%	3.23%	17.81%
Alabama	4,864,680	3,317,453	1,293,186	162,422	91,619	203,146	
	Percent	100.00%	68.19%	26.58%	3.34%	1.88%	4.18%
Barbour County	25,782	12,216	12,266	947	353	1,106	
	Percent	100.00%	47.38%	47.58%	3.67%	1.37%	4.29%
Butler County	20,025	10,414	9,055	233	323	67	
	Percent	100.00%	52.00%	45.22%	1.16%	1.61%	0.33%
Coffee County	51,288	38,923	8,829	1,927	1,609	3,549	
	Percent	100.00%	75.89%	17.21%	3.76%	3.14%	6.92%
Covington County	37,351	31,624	4,826	300	601	604	
	Percent	100.00%	84.67%	12.92%	0.80%	1.61%	1.62%
Crenshaw County	13,865	9,938	3,198	443	286	275	
	Percent	100.00%	71.68%	23.07%	3.20%	2.06%	1.98%
Dale County	49,255	35,889	9,749	1,961	1,656	3,070	
	Percent	100.00%	72.86%	19.79%	3.98%	3.36%	6.33%
Geneva County	26,491	22,871	2,529	566	525	1,027	
	Percent	100.00%	86.33%	9.55%	2.14%	1.98%	3.88%
Henry County	17,124	12,179	4,749	41	155	448	
	Percent	100.00%	71.12%	27.73%	0.24%	0.91%	2.62%
Houston County	104,352	72,387	28,078	1,718	2,169	3,437	
	Percent	100.00%	69.37%	26.91%	1.65%	2.08%	3.29%
Pike County	33,403	18,960	12,697	950	796	263	
	Percent	100.00%	56.76%	38.01%	2.84%	2.38%	0.79%
Division B	378,945	265,407	95,978	9,086	8,473	13,846	
	Percent	100.00%	70.04%	25.33%	2.40%	2.24%	3.65%

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AEMA DIVISION B	Area Profile						
	2020 Unemployment	JAN	FEB	MAR	APR	MAY	AVG
United States	4.0%	3.8%	4.5%	14.4%	13.0%	7.8%	
	Alabama	3.2%	2.9%	3.3%	13.2%	9.4%	6.4%
Barbour County	3.8%	3.5%	4.1%	9.9%	8.9%	6.0%	
	Butler County	4.2%	4.1%	4.4%	19.7%	12.5%	9.1%
Coffee County	3.1%	2.6%	3.2%	9.4%	6.9%	5.0%	
	Covington County	3.6%	3.2%	3.7%	10.6%	7.4%	5.7%
Crenshaw County	3.5%	2.9%	3.4%	15.5%	8.5%	6.8%	
	Dale County	3.2%	2.7%	3.2%	9.5%	7.4%	5.2%
Geneva County	3.2%	2.7%	3.2%	8.1%	6.3%	4.6%	
	Henry County	3.8%	3.2%	3.8%	9.2%	7.6%	5.5%
Houston County	3.2%	2.8%	3.3%	11.0%	8.4%	5.7%	
	Pike County	3.5%	2.9%	3.5%	9.0%	6.9%	5.1%
AEMA Division B	3.4%	2.9%	3.5%	10.8%	7.9%	5.7%	

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CRENSHAW COUNTY

AEMA DIVISION B	Area Profile						
	2018 Population by Age and Sex	Total Population	Male	Female	Under 18 Years	19 to 64 Years	65 Years and Over
United States	322,903,030	49.2%	50.8%	22.8%	62.0%	15.2%	37.9
	Alabama	4,864,680	48.4%	51.6%	22.6%	61.3%	16.1%
Barbour County	25,782	53.1%	46.9%	21.1%	60.9%	18.0%	39.9
	Butler County	20,025	46.8%	53.2%	22.8%	58.2%	19.0%
Coffee County	51,288	49.4%	50.6%	23.7%	60.0%	16.3%	39.3
	Covington County	37,351	48.7%	51.3%	21.9%	57.6%	20.5%
Crenshaw County	13,865	49.1%	50.9%	22.5%	59.2%	18.3%	41.5
	Dale County	49,255	49.2%	50.8%	23.4%	60.5%	16.1%
Geneva County	26,491	49.0%	51.0%	22.1%	58.4%	19.4%	42.4
	Henry County	17,124	48.1%	51.9%	20.9%	57.5%	21.6%
Houston County	104,352	47.9%	52.1%	23.4%	59.8%	16.9%	39.8
	Pike County	33,403	48.0%	52.0%	19.6%	65.8%	14.6%
AEMA Division B	378,936	48.8%	51.2%	22.5%	60.0%	17.5%	40.0

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CRENSHAW COUNTY

AEMA DIVISION B	Area Profile					
	2018 Income and Poverty	Median household income	Median family income	Median nonfamily income	Per capita income	Percent of People in Poverty
United States	\$60,293	\$73,965	\$35,971	\$32,621	14.1%	
	Alabama	\$48,486	\$62,030	\$26,388	\$26,846	17.5%
Barbour County	\$34,186	\$44,339	\$18,256	\$18,461	28.9%	
	Butler County	\$39,109	\$46,312	\$21,005	\$20,430	23.5%
Coffee County	\$53,155	\$64,723	\$31,245	\$27,577	15.1%	
	Covington County	\$40,601	\$54,513	\$20,844	\$23,071	18.3%
Crenshaw County	\$39,812	\$55,687	\$15,670	\$23,353	15.7%	
	Dale County	\$45,960	\$56,602	\$22,679	\$23,837	18.4%
Geneva County	\$38,142	\$47,603	\$17,469	\$20,471	24.0%	
	Henry County	\$48,610	\$57,902	\$25,595	\$24,069	13.5%
Houston County	\$45,496	\$58,526	\$26,327	\$25,990	18.3%	
	Pike County	\$34,678	\$51,066	\$18,475	\$21,137	26.6%
AEMA Division B Average	\$41,975	\$53,727	\$21,757	\$22,840	20.2%	

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CRENSHAW COUNTY

AEMA DIVISION B	Area Profile					
	2018 Employment Status	Population 16 Years & Over	Civilian Labor Force	Employed	Unemployed	Unemployment Rate
United States	257,754,872	162,248,136	152,739,884	9,508,312	5.9%	
	Alabama	3,894,696	2,224,606	2,076,708	147,898	6.6%
Barbour County	20,948	9,638	8,720	918	9.5%	
	Butler County	15,970	8,452	7,885	567	6.7%
Coffee County	40,510	23,096	21,725	1,371	5.9%	
	Covington County	30,107	16,327	14,899	1,428	8.7%
Crenshaw County	11,106	5,959	5,612	347	5.8%	
	Dale County	39,028	19,763	18,025	1,738	8.8%
Geneva County	21,376	10,992	10,047	945	8.6%	
	Henry County	13,980	7,362	6,868	494	6.7%
Houston County	82,833	47,645	44,291	3,354	7.0%	
	Pike County	27,676	15,319	14,093	1,226	8.0%
AEMA Division B	303,534	164,553	152,165	12,388	7.5%	

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CRENSHAW COUNTY

AEMA DIVISION B	Area Profile					
	2018 Housing Occupancy and Value	Total housing units	Occupied housing units	Vacant housing units	Vacancy Rate	Owner-Occupied Median House Value
United States	136,384,292	119,730,128	16,654,164	12.2%	\$204,900	
	Alabama	2,244,462	1,860,269	384,193	17.1%	\$137,200
Barbour County	11,937	9,186	2,751	23.0%	\$92,900	
	Butler County	10,026	6,708	3,318	33.1%	\$88,300
Coffee County	23,088	19,789	3,299	14.3%	\$149,100	
	Covington County	18,907	15,008	3,899	20.6%	\$95,500
Crenshaw County	6,790	5,025	1,765	26.0%	\$79,500	
	Dale County	23,065	18,670	4,395	19.1%	\$110,100
Geneva County	12,768	10,479	2,289	17.9%	\$92,300	
	Henry County	9,096	6,669	2,427	26.7%	\$115,100
Houston County	47,187	39,252	7,934	16.8%	\$120,500	
	Pike County	16,077	11,547	4,530	28.2%	\$117,400
AEMA Division B	178,941	142,334	36,607	20.5%	\$107,070	

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CRENSHAW COUNTY

AEMA DIVISION B	<b>Area Profile</b>				
	2018 Housing Type and Age	Total Housing Units	Single Unit	Multi-Unit	Mobile Home Boat or Van
	United States	136,384,292	67.5%	26.2%	6.3%
	Alabama	2,244,462	70.1%	16.5%	13.4%
	Barbour County	11,937	57.2%	13.5%	29.3%
	Butler County	10,026	61.5%	12.3%	26.2%
	Coffee County	23,088	74.8%	11.6%	13.6%
	Covington County	18,907	71.5%	6.8%	21.7%
	<b>Crenshaw County</b>	<b>6,790</b>	<b>65.3%</b>	<b>7.0%</b>	<b>27.7%</b>
	Dale County	23,065	69.1%	12.7%	18.2%
	Geneva County	12,768	67.0%	4.6%	28.5%
	Henry County	9,096	68.3%	5.7%	25.9%
	Houston County	47,187	70.7%	15.5%	13.8%
	Pike County	16,077	55.4%	22.6%	22.0%
	AEMA Division B	178,941	67.7%	12.4%	19.8%
CRENSHAW COUNTY					

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AEMA DIVISION B	<b>Risk Assessment</b>	
	4.1	Hazard Overview
	4.2	Hazard Profiles
	4.3	Technological and Human-Caused Hazards
	4.4	Vulnerability Overview
	4.5	Probability of Future Occurrence and Loss Estimation
	4.6	Total Population and Property Valuation Summary by Jurisdiction
	4.7	Critical Facilities/Infrastructure by Jurisdiction
	4.8	Hazard Impacts
CRENSHAW COUNTY		

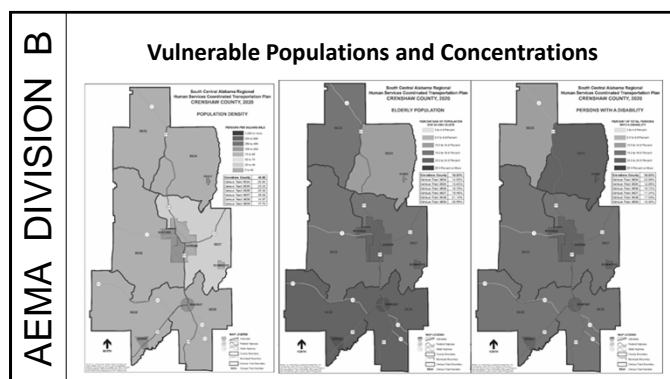
22

AEMA DIVISION B	<b>Major Employers</b>		
	Name	Type	# Employees
	Dongwon Autopart Technology Alabama, LLC	Automobile Parts	280
	Smart of Alabama LLC	Automotive Frames	742
	Pepsi Bottling Co. of Luverne	Bottling/Distribution	78
	Sister Shuberts Homemade Rolls, Inc.	Breads, Rolls, Gifts, Specialty Items	210
	Crenshaw County Government	County Government	85
	Crenshaw County Schools	Education	300
	Crenshaw Community Hospital	Hospital	162
	Southern Field Maintenance & Fabrication	Maintenance of Large Heating Systems	150
	Luverne Health & Rehabilitation, LLC	Nursing and Rehab Facility	150
	Chowell Weldparts	Robotic Tips, Welding	93
	Hicks, Inc.	Wholesale Distribution of Fishing, Hunting, Marine, Archery & Outdoor Products	60
	Petrey Wholesale, Inc.	Wholesale Distribution Warehouse	60
	Browder Veneer	Wood Veneer, Hardwood Chips	71
CRENSHAW COUNTY			

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AEMA DIVISION B	<b>Risk Assessment – Hazard Profiles</b>		
	Table 4.1: Potential Hazards and Data Sources		
	Hazard	Risk	Source
	Avalanche	No	US Forest Service National Avalanche Center ( <a href="http://www.fsavalanche.org/">http://www.fsavalanche.org/</a> )
	Coastal Erosion	No	FEMA Coastal Erosion Hazards Report ( <a href="http://www.fema.gov/media-library/assets/documents/8397">http://www.fema.gov/media-library/assets/documents/8397</a> )
	Dam Failure	Yes	USACE National Inventory of Dams ( <a href="http://geo.usace.army.mil/pgis/?p=397.12">http://geo.usace.army.mil/pgis/?p=397.12</a> )
	Drought / Extreme Heat	Yes	United States Drought Monitor ( <a href="http://droughtmonitor.unl.edu/">http://droughtmonitor.unl.edu/</a> ) / NOAA National Climatic Data Center ( <a href="http://www.ncdc.noaa.gov/stormevents/">http://www.ncdc.noaa.gov/stormevents/</a> )
	Earthquake	Yes	USGS Earthquake Hazards Program ( <a href="http://earthquake.usgs.gov/earthquakes/">http://earthquake.usgs.gov/earthquakes/</a> )
	Flooding	Yes	NOAA National Climatic Data Center ( <a href="http://www.ncdc.noaa.gov/stormevents/">http://www.ncdc.noaa.gov/stormevents/</a> )
			Correlation with Region
			No risk of avalanche events in Alabama
			AEMA Division B is an inland area
			Population downstream from dams; flooding concerns; no State regulation of dam safety
			Historic incidents with damage
			Proximity to Southeast US seismic zones
			Historic incidents with damage / identified flood hazard areas
CRENSHAW COUNTY			

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AEMA DIVISION B	<b>Risk Assessment – Hazard Profiles</b>		
	Table 4.1: Potential Hazards and Data Sources		
	Hazard	Risk	Source
	High Winds (Hurricanes, Tornadoes, Windstorms)	Yes	National Weather Service (NWS) Storm Data ( <a href="http://www.srh.noaa.gov/bmx/?n=stormdata_main/">http://www.srh.noaa.gov/bmx/?n=stormdata_main/</a> ) / NWS Tornado Database ( <a href="http://www.srh.noaa.gov/bmx/?n=tornadodb_main/">http://www.srh.noaa.gov/bmx/?n=tornadodb_main/</a> ) / National Hurricane Center Data Archive ( <a href="http://www.nhc.noaa.gov/data/tcr/">http://www.nhc.noaa.gov/data/tcr/</a> )
	Landslides	Yes	USGS Landslides Hazard Program ( <a href="http://landslides.usgs.gov/hazards/nationalmap/">http://landslides.usgs.gov/hazards/nationalmap/</a> ) / Geological Survey of Alabama, Landslides ( <a href="http://gsa.state.al.us/gsa/geologic/hazards/Landslides.htm">http://gsa.state.al.us/gsa/geologic/hazards/Landslides.htm</a> )
	Land Subsidence / Sinkholes	Yes	Geological Survey of Alabama, Sinkholes in Alabama ( <a href="http://gsa.state.al.us/gsa/geologic/hazards/Sinkholes_AL.htm">http://gsa.state.al.us/gsa/geologic/hazards/Sinkholes_AL.htm</a> )
			Correlation with Region
			Historic incidents with damage
			Susceptible areas to landslides
			Susceptible areas to land subsidence / sinkholes
CRENSHAW COUNTY			

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AEMA DIVISION B

### Mitigation Strategies

**Crenshaw County Vision Statement**

A Vision for Disaster Resistance  
*Crenshaw County and its municipalities envision active resistance to the threats of nature to human life and property through publicly supported mitigation measures with proven results. The communities within Crenshaw County commit to reduce the exposure and risk of natural hazards by activating all available resources through cooperative intergovernmental and private sector initiatives and augmenting public knowledge and awareness.*

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CRENSHAW COUNTY

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AEMA DIVISION B

### Mitigation Strategies

**AEMA Division B Mitigation Goals**

1. Manage the development of land and buildings to minimize risk of life and property loss due to hazard events (PREVENTION).
2. Protect structures and their occupants and contents from the damaging effects of hazard events (PROPERTY PROTECTION).
3. Preserve, rehabilitate, and enhance the beneficial functions of the natural environment to promote a balance between natural systems and social and economic demands (NATURAL RESOURCE PROTECTION).
4. Apply engineered structural modifications to natural systems and public infrastructure to reduce the potentially damaging impacts of hazards, where those modifications are feasible and environmentally suitable (STRUCTURAL MITIGATION).
5. Improve the efficiency, timing, and effectiveness of response and recovery efforts for hazard events (EMERGENCY SERVICES).
6. Educate and foster public awareness of hazards and techniques available for mitigation (PUBLIC EDUCATION AND AWARENESS).

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CRENSHAW COUNTY

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AEMA DIVISION B

### Mitigation Strategies

**Crenshaw County Goals (2013):**

- **Prevention** - Manage the development of land and buildings to minimize risks of loss due to natural hazards.
- **Property Protection** - Protect structures and their occupants and contents from the damaging effects of natural hazards.
- **Public Education and Outreach** - Educate and inform the public about the risks of hazards and the techniques available to reduce threats to life and property.
- **Natural Resources Protection** - Preserve and restore the beneficial functions of the natural environment to promote sustainable community development that balances the constraints of nature with the social and economic demands of the community.
- **Emergency Services** - Improve the efficiency, timing, and effectiveness of response and recovery efforts for natural hazard disasters.

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CRENSHAW COUNTY

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AEMA DIVISION B

### Division B Action Plan

SEARP&DC Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
1	SEARP&DC (with assistance from SCADC) will maintain the mitigation plan by seeking additional grant funding, as needed.	All	SEARP&DC	HMGP/Local	High	High
1	SEARP&DC will work to incorporate Pike County, Dale County, and Crenshaw County and their jurisdictions not part of this plan as their plans expire	All	SEARP&DC	HMGP/Local	High	High
1	SEARP&DC will facilitate multi-jurisdiction collaboration by attending AEMA Division B meetings on at least an annual basis	All	SEARP&DC	Local	High	High
1	SEARP&DC will incorporate HAZUS-MH and Risk MAP information in Risk Assessment for future plan updates	Flooding / High Winds	SEARP&DC	HMGP/Local	High	High

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CRENSHAW COUNTY

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AEMA DIVISION B

### Mitigation Strategies

**Crenshaw County Goals (2013):**

- Prevention
- Property Protection
- Public Education and Outreach
- Natural Resources Protection
- Emergency Services

**AEMA Division B Goals (2015):**

- Prevention
- Property Protection
- Natural Resources Protection
- Structural Mitigation
- Emergency Services
- Public Education and Outreach

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CRENSHAW COUNTY

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AEMA DIVISION B

### Division B Action Plan

Butler County Schools Mitigation Action Plan						
Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
4	Provide safe rooms in school facilities for student and staff safety	High Winds	Butler County Schools	HMGP/Local	High	Moderate
5	Procure and maintain generators for critical facilities	All	Butler County Schools	HMGP/Local	High	Moderate
6	Continue incorporation of hazard mitigation awareness in local schools	All	Butler County Board of Education	Butler County Schools / County EMA	High	High
6	Continue distribution of hazard-related coloring and activity books	All	Butler County EMA / Board of Education	Butler County Schools / County EMA	High	High

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CRENSHAW COUNTY

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<b>AEMA DIVISION B</b>	<p><b>Division B Hazard Mitigation Plan Update</b></p> <p><b>Next Meeting:</b></p> <ul style="list-style-type: none"><li>• <b>Hazard Risk Assessment</b></li><li>• <b>Hazard Mitigation Goals</b></li><li>• <b>Jurisdiction Action Plans</b></li></ul> <hr/> <p>CRENSHAW COUNTY</p>
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## ***PLANNING FOR NATURAL DISASTERS***

The Crenshaw County Emergency Management Agency (EMA) Local Emergency Planning Committee (LEPC) is updating the county's hazard mitigation plan to further establish proactive hazard mitigation policies and actions that will help reduce risk and create a safer, more disaster resistant environment in Crenshaw County.

**The next Hazard Mitigation Plan meeting will be**

**Thursday, July 9, 2020 at 10:00 AM**

at the Crenshaw County EMA Office

located at 118 East 3<sup>rd</sup> Street, Luverne, AL 36049

All Hazard Mitigation Planning meetings are open to the public and interested citizens are encouraged to attend; however, due to COVID-19 social distancing requirements, **seating is limited and a reservation is required.** If you would like to attend the meeting, and if you need special accommodations, please contact the Crenshaw County EMA office, at 334-335-4538 or [ccema@troycable.net](mailto:ccema@troycable.net).

**AEMA DIVISION B HAZARD MITIGATION PLAN  
CRENSHAW COUNTY STAKEHOLDER MEETING – JULY 9, 2020**

**AGENDA**

1. Welcome and Introductions
2. Review from Meeting 1
3. Public Participation
4. Hazard Profiles and Probability
5. Critical Facilities
6. Mitigation Strategies
7. Next Meeting and Adjourn

*Please Sign In Below*

**AEMA DIVISION B**

## Crenshaw County Hazard Mitigation Plan Update

July 9, 2020

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CRENSHAW COUNTY


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**AEMA DIVISION B**

## Division B Hazard Mitigation Plan Update Public Notification

Posted Flyer

- Crenshaw County EMA Office
- Crenshaw County E911
- Crenshaw County Courthouse
- Luverne City Hall



**PLANNING FOR NATURAL DISASTERS**

The Crenshaw County Emergency Management Agency (EMA) Local Emergency Planning Committee (LEPC) is updating the county's hazard mitigation plan to further establish proactive hazard mitigation policies and actions that will help reduce risk and create a safer, more disaster resistant environment in Crenshaw County.

**The next Hazard Mitigation Plan meeting will be**  
**Thursday, July 9, 2020 at 10:00 AM**  
 at the Crenshaw County EMA Office  
 located at 118 East 3<sup>rd</sup> Street, Luverne, AL 36049

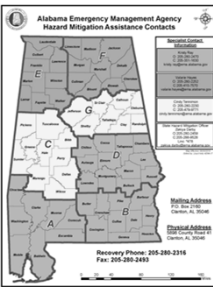
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CRENSHAW COUNTY

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**AEMA DIVISION B**




Alabama Emergency Management Agency  
Hazard Mitigation Assistance Contacts

Regional Contact:  
 Alabama Emergency Management Agency  
 1000 North 19<sup>th</sup> Street  
 Montgomery, AL 36106  
 Phone: 205-260-2316  
 Fax: 205-260-2855

State Address:  
 1000 North 19<sup>th</sup> Street  
 Montgomery, AL 36106  
 Phone: 205-260-2316  
 Fax: 205-260-2855

### Southeast Alabama Regional Multi-Jurisdictional Hazard Mitigation Plan September 24, 2015

<https://ema.alabama.gov/county-mitigation-plan/>



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CRENSHAW COUNTY

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**AEMA DIVISION B**

## Division B Hazard Mitigation Plan Update Public Hearing

**Date:** Week of July 20 through July 24

**Location:** Crenshaw County EMA Office

**Advertise:** Newspaper, Post, Websites, Social Media

**Format:** Open House – Come and Go Format  
 Two display stations set up  
 Copies of draft plan available  
 Comment Form

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CRENSHAW COUNTY

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**AEMA DIVISION B**

## Division B Hazard Mitigation Plan Update

**Last Meeting:**

- Hazard Introduction
- LEPC Role/Responsibility
- Area Demographics
- Critical Facilities
- Planning and Regulatory Tools
- Preliminary Goals and Action Plan Review

**Today's Meeting:**

- Public Participation
  - LEPC Composition
  - Meeting Notification
  - Public Hearing
- Hazard Profiles
- Hazard Risk Assessment
- Critical Facilities
- Finalize Goals
- Jurisdiction Action Plans

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CRENSHAW COUNTY

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**AEMA DIVISION B**

## Risk Assessment

- Dam Failure
- Drought/Extreme Heat
- Earthquake
- Flooding
- High Winds: Hurricanes, Tornadoes, Windstorms
- Landslides
- Land Subsidence, Sinkholes
- Wildfire
- Winter/Ice Storms

- 4.1 Hazard Overview
- 4.2 Hazard Profiles
- 4.3 Technological and Human-Caused Hazards
- 4.4 Vulnerability Overview
- 4.5 Probability of Future Occurrence and Loss Estimation
- 4.6 Total Population and Property Valuation Summary by Jurisdiction
- 4.7 Critical Facilities/Infrastructure by Jurisdiction
- 4.8 Hazard Impacts

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CRENSHAW COUNTY

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AEMA DIVISION B	Crenshaw County FEMA Disaster Declarations 1953 - 2020  Alabama: 90 AEMA Div. B: 32 Crenshaw County: 21  1 Drought 1 Flood 9 Hurricane 10 Severe Storm	Declaration Date	Disaster Number	Type of Incident	Individual Assistance	Public Assistance
		3/14/1975	DR-458	Severe Storms, Flooding	X	X
		10/2/1975	DR-488	Severe Storms, Tornadoes, Flooding	X	X
		7/20/1977	EM-3045	Drought		X
		3/21/1990	DR-861	Severe Storms, Tornadoes, Flooding	X	X
		3/15/1993	EM-3056	Severe Snowfall, Winter Storm		X
		10/4/1995	DR-1070	Hurricane Opal	X	X
		3/9/1998	DR-1208	Severe Storms, Flooding	X	X
		9/28/1998	EM-3133	Hurricane Georges		X
		9/30/1998	DR-1250	Hurricane Georges	X	X
		9/15/2004	DR-1549	Hurricane Ivan	X	X
		9/10/2005	EM-3237	Hurricane Katrina Evacuation		X
		8/30/2008	EM-3252	Hurricane Gustav		X
		4/28/2009	DR-1835	Severe Storms, Tornadoes, Straight-line Winds, Flooding	X	X
		12/31/2009	DR-1870	Severe Storms and Flooding		X

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AEMA DIVISION B

Hazard Profiles: Dam Failure

AEMA Division B Dam Conditions

Source: U.S. Army Corps of Engineers, National Dam Inventory, 2018. Updated 2019. <https://ndi.usace.army.mil/ndi/?p=105-113-1010205043432-NO...>

Location	Number of Dams	Hazard Potential			Avg. Age	% Dams Regulated by State	% Dams Regulated by Federal	% Dams Hydro power
		H	S	L				
Barbour County	8	0	1	7	66	0	0	0
Butler County	21	0	6	15	54	0	0	0
Coffee County	27	4	5	18	55	0	4	4
Covington County	19	2	0	17	55	0	11	11
Crenshaw County	18	1	4	13	57	0	0	0
Dale County	22	2	2	18	51	0	18	0
Geneva County	19	0	0	19	54	0	0	0
Henry County	8	1	0	7	55	0	13	13
Houston County	17	2	3	12	48	0	12	0
Pike County	21	0	0	21	52	0	0	0
Division B	180	12	20	148	54.7	0	58	28

CRENSHAW COUNTY

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AEMA DIVISION B

Risk Assessment – Hazard Overview

Summary of AEMA Division B Storm Events, 2000 to 2020

Location	Number of County/Zone Areas Affected	Number of Days with Event	Number of Days with Death	Number of Days with Death or Injury	Number of Days with Property Damage	Number of Days with Crop Damage	Number of Event Types reported
Barbour County	2	143	0	3	43	1	17
Butler County	2	85	2	5	55	0	14
Coffee County	2	176	3	8	94	0	15
Covington County	2	134	3	5	81	0	15
<b>Crenshaw County</b>	<b>2</b>	<b>93</b>	<b>0</b>	<b>0</b>	<b>60</b>	<b>0</b>	<b>13</b>
Dale County	3	229	1	4	130	0	18
Geneva County	2	160	1	3	86	0	15
Henry County	2	163	1	4	82	0	16
Houston County	2	209	3	8	130	0	17
Pike	2	129	0	4	39	0	18

Source: NOAA, National Centers for Environmental Information, Storm Events Database.  
<https://www.ncdc.gov/data-access/storm-reports/data-retrieval/175224/ALABAMA>

CRENSHAW COUNTY

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AEMA DIVISION B	Hazard Profiles: Dam Failure		Crenshaw County Dam Locations	
			Source: U.S. Army Corps of Engineers, National Dam Inventory, 2018. Updated 2019. <a href="https://ndi.usace.army.mil/ndi/?p=105-113-1010205043432-NO...">https://ndi.usace.army.mil/ndi/?p=105-113-1010205043432-NO...</a>	
			Total	18
			High Hazard Potential	1
			Significant Hazard Potential	4
			Low Hazard Potential	13
	Legend			
	Hazard Potential Type			
	■ High			
	□ Significant			
	■ Low			
	■ Undetermined			
	■ Not Available			

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AEMA DIVISION B	Hazard Profiles: Dam Failure	
	USACE National Dam Inventory:	
	<ul style="list-style-type: none"> <li>National Dam Inventory (NID) Updated in 2018; In 2019 Updated Annually</li> <li>Alabama is Only State <b>WITHOUT</b> Dam Regulatory/Reporting Requirements</li> <li>2,283 Recorded Dams in the State of Alabama</li> <li>180 Dams in AEMA Division B Counties</li> <li>12 Division B Dams are classified by the USACE as a high hazard potential</li> <li>20 Division B Dams are identified as having a significant hazard potential.</li> <li>Two Major Levee Systems: Elba and Geneva.</li> </ul>	
	CRENSHAW COUNTY	

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AEMA DIVISION B

# Hazard Profiles: Dam Failure

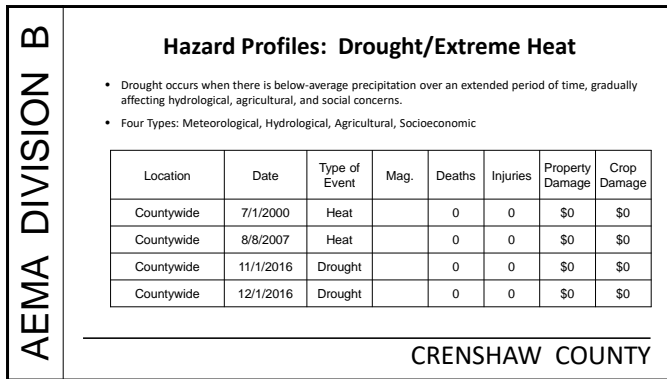
## Crenshaw County Dams

Source: U.S. Army Corps of Engineers, National Dam Inventory, 2018. Updated 2019. <https://ndi.usace.army.mil/ndi/?p=105-113-1010205043432-NO...>

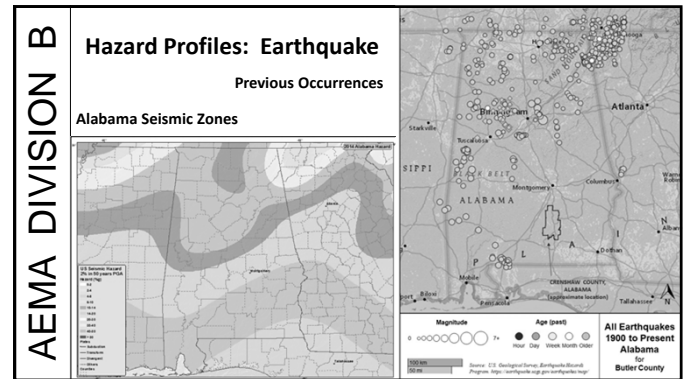
NIDID	DAM NAME	RIVER	CITY	YEAR COMPLETED	NID DAM HEIGHT	NID STORAGE (acre-ft)	OWNER	NID HAZARD RATING
AL00066	BAILEY	TR CONECUH RIVER	BRANTLEY	1958	24	88	Private	L
AL00067	BRUCE SMITH	TR DRY CREEK	BRANTLEY	1956	27	119	Private	L
AL00069	R D BRADLEY	TR SHEETWATER CREEK	CENTERMAN	1960	29	53	Private	L
AL00070	MCCOY LAKE	SILDOM CREEK	SILDOM CHURCH	1948	15	138	Private	L
AL00072	BRADLEYTON LAKE	TR BLUE CREEK	BRADLEYTON	1960	20	137	Private	L
AL00074	CRENSHAW COUNTY LAKE	TR DRY CREEK	BRANTLEY	1954	24	378	State	H
AL00075	MACKALIA SHORE'S LAKE	JORDAN CREEK	BRADLEYTON	1958	30	560	Private	L
AL00076	B C MASSEY	SKIPPER MILL BRANCH	MIDWAY	1959	30	123	Private	L
AL00077	R KILLOUGH	DATTLESNAP CREEK	DATTLESNAP CHURCH	1953	10	104	Private	L
AL00078	SLOTTES	MILL CREEK	LUYERNE	1960	29	79	Private	L
AL00079	L D THAGGARD	TR CONECUH RIVER	BRANTLEY	1958	18	61	Private	L
AL01880	L E SKIPPER POND DAM	TR CANE CREEK	BLACK ROCK	1976	18	60	Private	S
AL01881	KEEL OUGH POND DAM	TR HOUSE CREEK	MERRILL MILL	1968	19	60	Private	L
AL01882	CLARK LAKE DAM	TR CROOKED RUN CREEK	GOZIER	1965	27	64	Private	S
AL01883	BART POND DAM	TR CROOKED HILL CREEK	LUYERNE	1960	29	70	Private	L
AL01884	BOZEMAN POND DAM	TR GR CREEK	GREENWOOD	1960	20	102	Private	S
AL001019	EMMENT STRICKLAND POND	TR PATALEAGA CREEK	RIVER FALLS	1974	20	109	Private	L
AL00206	HALLS POND	TR SHINGLES CREEK	BRANTLEY	1969	20	132	Private	L

## CRENSHAW COUNTY

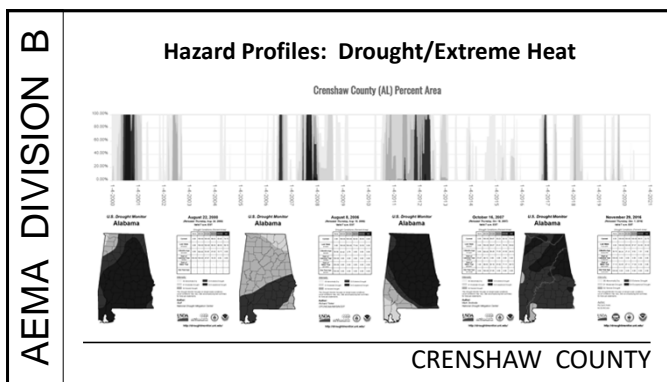
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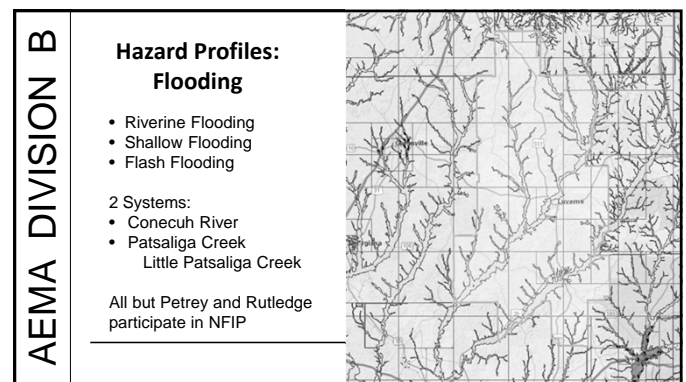
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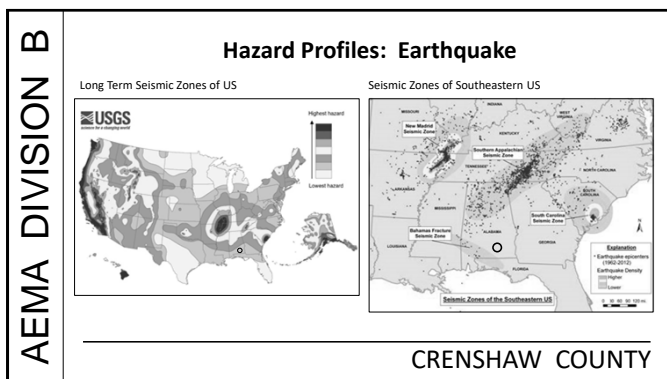
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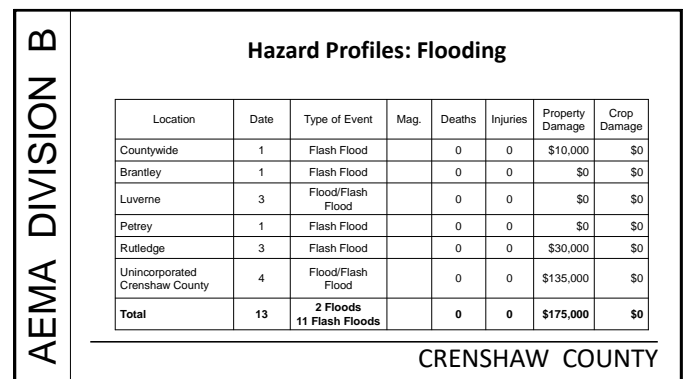
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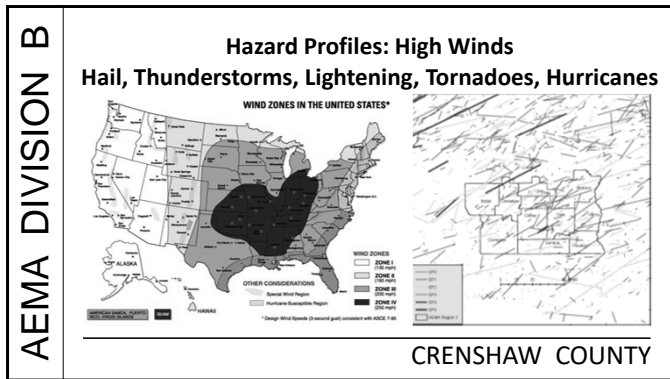
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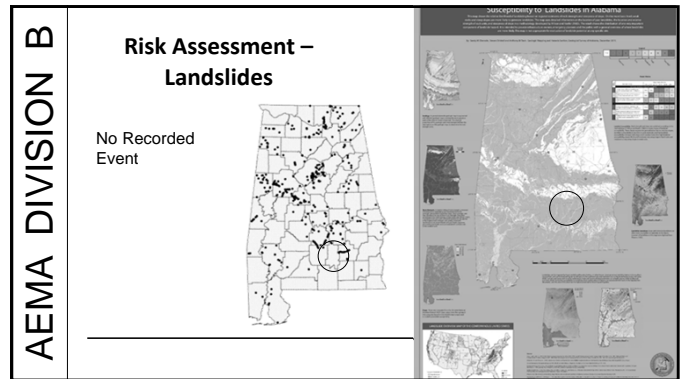
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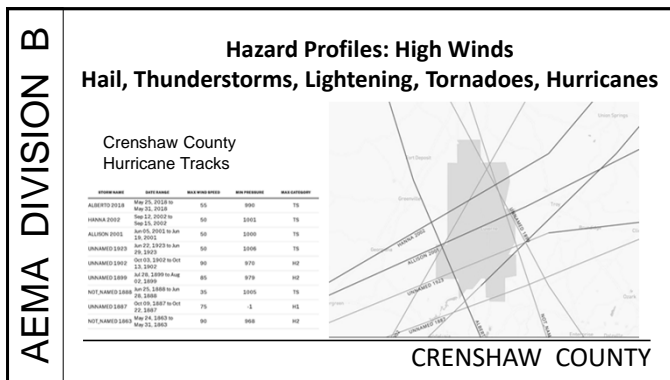
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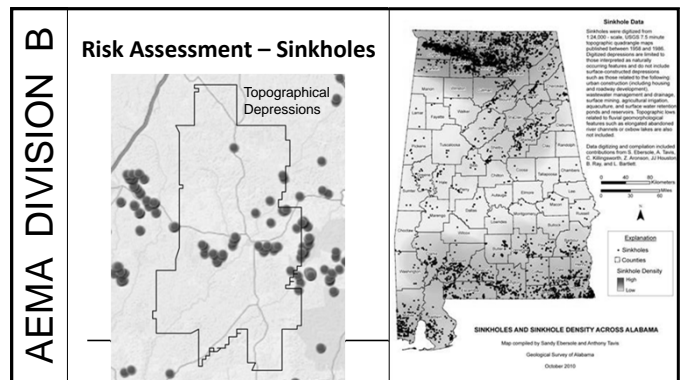
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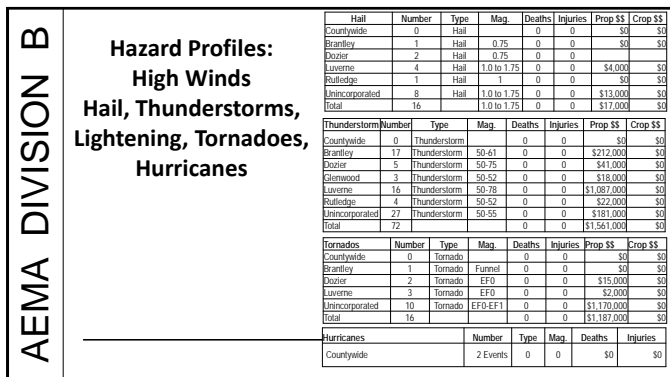
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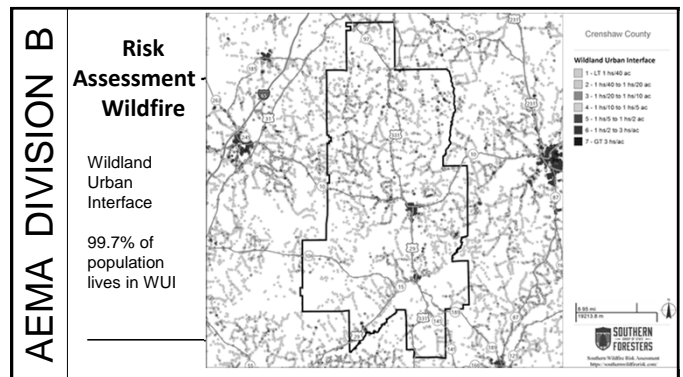
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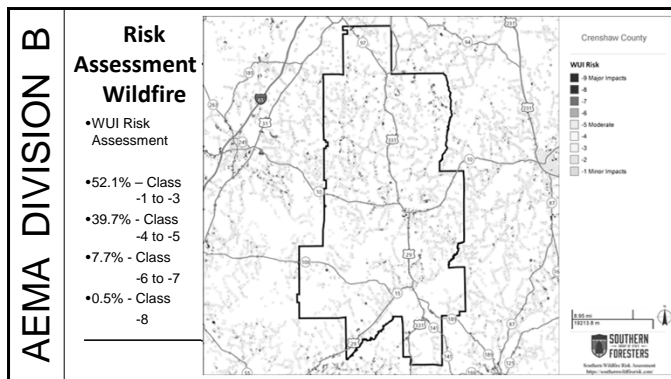
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**AEMA DIVISION B**

**Risk Assessment – Probability**

	Dam Failure	Drought	Earth quake	Flooding	High Winds	Land slides	Sink holes	Wild Fire	Winter Storms
Locations	County	County	Outside County	County	County	North County	Central County	WUI	County
Extent	H, S, L	D0 to D4	I to XII	A to AE	EF 0-5 Cat 1-5	---	---	5.59 ac/fire	---
Historical Occurrence	0 Events, 1 H, 4 S Dams	4 Events	0	13 Events	H-16 TS-72 T-16 H-2	0/?	Several	239/1,336.7 acres	6 Events
Probability of Future Events	Low	Medium	Very Low	High	High	Low	Low	Medium	Low

**CRENSHAW COUNTY**

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**AEMA DIVISION B**

**Risk Assessment – Wildfire**

Alabama Forestry Commission, 2007 to 2020

- 239 wildfires with 1,336.70 acres burned
- 5.59 acres per fire.
- Largest fires occurred in April 2010 with 94 acres burned and in January 2015 with 91 acres burned

2007-2020:

- 37 Class C fires – 1,000 acres
- 123 Class B fires – 334.7 acres
- 79 Class A fires – 1.95 acres

**CRENSHAW COUNTY**

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**AEMA DIVISION B**

**Critical Facilities**

Designation of a facility as critical is based on the HAZUS definitions, as follows:

- Essential Facilities. These facilities are critical to the health and welfare of the entire county population and are essential following hazard events, including emergency response facilities (police, fire, and emergency management), medical care facilities (hospitals and other care facilities), schools, and shelters for evacuation.
- Lifeline Utility Systems. These facilities are essential lifelines that include potable water, wastewater, natural gas, electric, and communications systems. HAZUS data is not available for this county.
- Transportation Systems. These facilities include highways, bridges, railways, and waterways.
- High Potential Loss Facilities. These facilities include military installations and high potential loss dams.
- Hazardous Materials Facilities. These facilities may pose a threat if disrupted by natural hazards and include hazardous industrial chemicals, explosives, flammables, toxins, and radioactive materials.

**CRENSHAW COUNTY**

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**AEMA DIVISION B**

**Risk Assessment – Winter / Ice Storms**

Location	Date	Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Countywide	1/27/2000	Sleet		0	0	\$0	\$0
Countywide	1/2/2002	Winter Storm		0	0	\$0	\$0
Countywide	2/12/2010	Winter Storm		0	0	\$0	\$0
Countywide	1/28/2014	Sleet		0	0	\$0	\$0
Countywide	12/8/2017	Winter Weather		0	0	\$0	\$0
Countywide	1/16/2018	Winter Storm		0	0	\$0	\$0
Total		6 Events		0	0	\$0	\$0

**CRENSHAW COUNTY**

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**AEMA DIVISION B**

**Critical Facilities**

- **Fire and Rescue**
- **Law Enforcement**
- **Hospital / Health Department**
- **Schools**
- **Continuity of Government**
- **Utilities/Infrastructure**

**CRENSHAW COUNTY**

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<b>AEMA DIVISION B</b>	<b>AEMA Division B Mitigation Goals - 2015</b>
	<ol style="list-style-type: none"> <li>1. <b>PREVENTION:</b> Manage the development of land and buildings to minimize risk of life and property loss due to hazard events.</li> <li>2. <b>PROPERTY PROTECTION:</b> Protect structures and their occupants and contents from the damaging effects of hazard events.</li> <li>3. <b>NATURAL RESOURCE PROTECTION:</b> Preserve, rehabilitate, and enhance the beneficial functions of the natural environment to promote a balance between natural systems and social and economic demands .</li> <li>4. <b>STRUCTURAL MITIGATION:</b> Apply engineered structural modifications to natural systems and public infrastructure to reduce the potentially damaging impacts of hazards, where those modifications are feasible and environmentally suitable.</li> <li>5. <b>EMERGENCY SERVICES:</b> Improve the efficiency, timing, and effectiveness of response and recovery efforts for hazard events.</li> <li>6. <b>EDUCATION AND AWARENESS:</b> Educate and foster public awareness of hazards and techniques available for mitigation.</li> </ol>
	<hr/> CRENSHAW COUNTY

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<b>AEMA DIVISION B</b>	<b>Crenshaw County Mitigation Strategies</b>																			
	<table> <tr> <td><b>GOALS:</b></td><td><b>HAZARDS:</b></td></tr> <tr> <td>1. <b>PREVENTION</b></td><td>• Dam Failure</td></tr> <tr> <td>2. <b>PROPERTY PROTECTION</b></td><td>• Drought/Extreme Heat</td></tr> <tr> <td>3. <b>NATURAL RESOURCE PROTECTION</b></td><td>• Earthquake</td></tr> <tr> <td>4. <b>STRUCTURAL MITIGATION</b></td><td>• Flooding</td></tr> <tr> <td>5. <b>EMERGENCY SERVICES</b></td><td>• High Winds: Hurricanes, Tornadoes, Windstorms</td></tr> <tr> <td>6. <b>EDUCATION AND AWARENESS</b></td><td>• Landslides</td></tr> <tr> <td></td><td>• Land Subsidence, Sinkholes</td></tr> <tr> <td></td><td>• Wildfire</td></tr> <tr> <td></td><td>• Winter/Ice Storms</td></tr> </table>	<b>GOALS:</b>	<b>HAZARDS:</b>	1. <b>PREVENTION</b>	• Dam Failure	2. <b>PROPERTY PROTECTION</b>	• Drought/Extreme Heat	3. <b>NATURAL RESOURCE PROTECTION</b>	• Earthquake	4. <b>STRUCTURAL MITIGATION</b>	• Flooding	5. <b>EMERGENCY SERVICES</b>	• High Winds: Hurricanes, Tornadoes, Windstorms	6. <b>EDUCATION AND AWARENESS</b>	• Landslides		• Land Subsidence, Sinkholes		• Wildfire	
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	<hr/> CRENSHAW COUNTY																			

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<b>AEMA DIVISION B</b>	<b>Division B Hazard Mitigation Plan Update</b>
	<p><b>Next Meeting: Public Hearing</b></p> <ul style="list-style-type: none"> <li>• Review Draft</li> <li>• Hazard Risk Assessment</li> <li>• Hazard Mitigation Goals</li> <li>• Jurisdiction Action Plans</li> </ul>
	<hr/> CRENSHAW COUNTY

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# **Luverne Journal**

**Run Date – Thursday, July 16, 2020**

3 col x 4 inches

## **HAZARD MITIGATION PUBLIC HEARING**

The Crenshaw County Emergency Management Agency (EMA) Local Emergency Planning Committee (LEPC) is updating the county's hazard mitigation plan to further establish proactive hazard mitigation policies and actions that will help reduce risk and create a safer, more disaster resistant environment in Crenshaw County. As part of the planning process, the Crenshaw County EMA will be conducting an Open House Public Hearing. Participants will be able to attend at any time during the two-hour meeting time to review and comment on the proposed Southeast Alabama Hazard Mitigation Plan Update.

### **Hazard Mitigation Plan Update 2020 Open House Public Hearing Monday, July 20, 2020 from 10:00 AM to 12:00 Noon**

Crenshaw County EMA Office, 118 East 3<sup>rd</sup> Street, Luverne, AL 36049

All Hazard Mitigation Planning meetings are open to the public and interested citizens are encouraged to attend. COVID-19 social distancing requirements will be in effect and no more than 10 attendees will be allowed in the room at one time. If you would like to attend the meeting and need special accommodations, please contact the Crenshaw County EMA office, at 334-335-4538 or [ccema@troycable.net](mailto:ccema@troycable.net).



## ***HAZARD MITIGATION PUBLIC HEARING***

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### **Hazard Mitigation Plan Update 2020**

#### **Open House Public Hearing**

**Monday, July 20, 2020**

**10:00 AM to 12:00 Noon**

at the Crenshaw County EMA Office

located at 118 East 3<sup>rd</sup> Street, Luverne, AL 36049

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**AEMA DIVISION B HAZARD MITIGATION PLAN  
CRENSHAW COUNTY PUBLIC HEARING – JULY 20, 2020**

**ATTENDANCE ROSTER**

*Please Sign In Below*

**Name:**

**Organization:**

**Phone:**

**E-mail:**

William Tate Probate Judge 334-403-0407 willtate74@yahoo.com

Randy Mahone EMA 334-304-5121 Randymahoneema@yahoo.com

Alecia Jones EMA 334-429-0506 aleciamjones1981@gmail.com

Kelly Smith City Council 334-406-6464 ksmith@troycable.net

John Egan E911/Glenwood 334-335-4831 e911@troycable.net

Michael Johnson L.P.D. 334-335-2406 CHIEFJOHNSON@TROYCABLE.NET

Trent Dykes CCHD 334-335-2874 cclassisteng@troycable.net

Titus Averett Brantley PD 334-342-8526 brantleytd@gmail.com

BENSIE SANDERS CRENSHAW Co. 334-335-2874 CCHD@TROYCABLE.NET

DAVID SMITH Crenshaw Co. 334-335-6568 dhsrbs0@yahoo.com

Michelle Royals CITY OF LUVERNE 334-335-3741 LUVERNECITYENG@GMAIL.COM



# Crenshaw County

## Hazard Mitigation Plan Update 2020

### Disaster Mitigation Act of 2000

The purpose of the Stafford Act, as amended by the Disaster Mitigation Act of 2000, is "to reduce the loss of life and property, human suffering, economic disruption, and disaster assistance costs resulting from natural disasters."

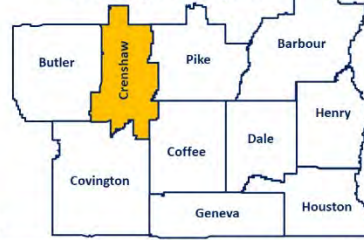
Section 322 of the Act specifically addresses mitigation planning and requires state and local governments to prepare multi-hazard mitigation plans as a precondition for receiving FEMA mitigation project grants.

- Requires that each local government prepare and adopt a multi-hazard mitigation plan
- Must have an adopted hazard mitigation plan to be eligible for disaster recovery funds in the event of a natural disaster
- Hazard mitigation plan must be maintained and updated every five years

### Alabama Emergency Management Agency Divisions

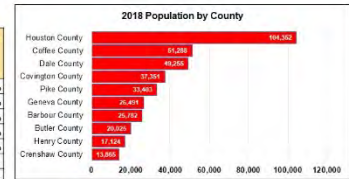
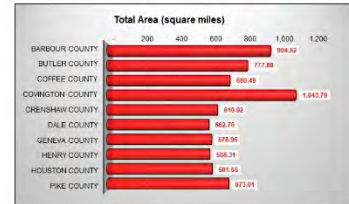


### AEMA Division B 10 Counties, 70+ Municipalities



Jurisdiction	2000 Census Population	2010 Census Population	% Change, 2000 to 2010	2018	% Change 2010 to 2018
Crenshaw County	13,665	13,905	1.76%	13,865	-0.29%
Town of Brantley	920	809	-12.07%	828	2.35%
Town of Dozier	391	329	-15.86%	367	11.55%
Town of Glenwood	191	187	-2.09%	221	18.18%
City of Luverne	2,635	2,800	6.26%	2,771	-1.04%
Town of Petrey	63	58	-7.94%	48	-17.24%
Town of Rutledge	476	467	-1.89%	363	-22.27%

### AEMA Division B Characteristics



**Natural Hazard:**  
a threat of a naturally occurring event that will have a negative effect on people or the environment

**Hazard Mitigation** reduces disaster damages and is defined as sustained action taken to reduce or eliminate the long-term risk to human life and property from hazards.

- Increase risk awareness
- Protect critical facilities
- Removal of structures from flood hazard areas
- Mitigation savvy development codes and regulations

**Mitigation Strategy:**  
broad actions that help to further define mitigation goals and outline actions necessary to address a natural hazard

### Crenshaw County FEMA Disaster Declarations, 1953 to 2020

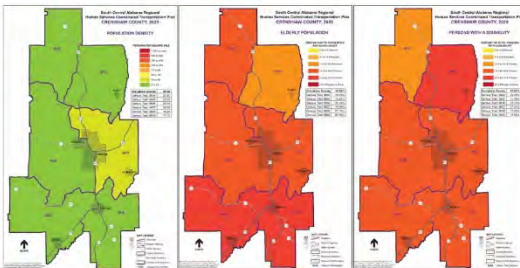
Alabama = 90 Disaster Events; AEMA Division B = 32 Disaster Events; Butler County = 21 Disaster Events

Declaration Date	Disaster Number	Type of Incident	Individual Assistance	Public Assistance
3/14/1975	DR-458	Severe Storms, Flooding	X	X
10/2/1975	DR-488	Severe Storms, Tornadoes, Flooding	X	X
7/20/1977	EM-3045	Drought	X	X
3/21/1990	DR-461	Severe Storms, Tornadoes, Flooding	X	X
3/15/1993	EM-3096	Severe Storms, Winter Storm	X	X
10/4/1995	DR-1070	Hurricane Opal	X	X
3/9/1998	DR-1208	Severe Storms, Flooding	X	X
9/28/1998	EM-3133	Hurricane Georges	X	X
9/30/1998	DR-1250	Hurricane Georges	X	X
9/15/2004	DR-1549	Hurricane Ivan	X	X
9/10/2005	EM-3237	Hurricane Katrina Evacuation	X	X
8/30/2008	EM-3292	Hurricane Gustav	X	X
4/28/2009	DR-1835	Severe Storms, Tornadoes, Straight-line Winds, Flooding	X	X
12/12/2009	DR-1870	Severe Storms and Flooding	X	X
4/27/2011	EM-3319	Severe Storms, Tornadoes, Straight-line Winds	X	X
4/28/2011	DR-1971	Severe Storms, Tornadoes, Straight-line Winds, Flooding	X	X
5/2/2014	DR-4176	Severe Storms, Tornadoes, Straight-line Winds, Flooding	X	X
1/21/2016	DR-4251	Severe Storms, Tornadoes, Straight-line Winds, Flooding	X	X
9/11/2017	EM-3389	Hurricane Irma	X	X
10/8/2017	EM-3394	Hurricane Nate	X	X
10/12/2018	DR-3407	Hurricane Michael	X	X

### Division B Storm Events, 2000 to 2020

Location	Number of County/Zone Areas Affected	Number of Days with Event	Number of Days with Death	Number of Days with Injury	Number of Days with Property Damage	Number of Days with Crop Damage	Number of Event Types reported
Barbour County	2	143	0	3	43	1	17
Butler County	2	85	2	5	55	0	14
Coffee County	2	176	3	8	94	0	15
Covington County	2	134	3	5	81	0	15
<b>Crenshaw County</b>	<b>2</b>	<b>93</b>	<b>0</b>	<b>0</b>	<b>60</b>	<b>0</b>	<b>13</b>
Dale County	3	229	1	4	130	0	18
Geneva County	2	160	1	3	86	0	15
Henry County	2	163	1	4	82	0	16
Houston County	2	209	3	8	130	0	17
Pike County	2	129	0	4	39	0	18

### Crenshaw County Vulnerable Populations



### Natural Hazard Risk Assessment

PROBABILITY	Dam Failure	Drought	Earth quake	Flooding	High Winds	Land slides	Sink holes	Wild Fire	Winter Storms
Locations	County	County	Outside County	County	County	North County	Central County	WUI	County
Extent	H, S, L	D0 to D4	I to XII	A to AE	EF 0-5 Cat 1-5	---	---	5.59 ac/fire	---
Historical Occurrence	0 Events, 1 H, 4 S Dams	4 Events	0	13 Events	H-16 TS-72 T-16 H-2	0	Several	239/ 1,336.7 acres	6 Events
Probability of Future Events	Low	Medium	Very Low	High	High	Low	Low	Medium	Medium

NATURAL HAZARD PRIORITY STATUS	Probability		Impact		Location Extent		Warning Time		Duration		Weighted Score	Weighted Priority Ranking
	Index Value 1 to 4	Weighted Factor 30%	Index Value 1 to 4	Weighted Factor 30%	Index Value 1 to 4	Weighted Factor 20%	Index Value 1 to 4	Weighted Factor 10%	Index Value 1 to 4	Weighted Factor 10%		
Dam Failure	1	0.3	2	0.6	1	0.2	2	0.2	1	0.1	1.4	8
Drought/Extreme Heat	2.5	0.75	4	1.2	4	0.8	1	0.1	4	0.4	3.25	3
Earthquake	0.5	0.15	0.5	0.15	0.5	0.1	4	0.4	1	0.1	0.9	11
Flooding	4	1.2	4	1.2	2	0.4	3	0.3	3	0.3	3.4	1
Hurricanes	3	0.9	4	1.2	4	0.8	1	0.1	2	0.2	3.2	4
Tornadoes	4	1.2	4	1.2	2	0.4	4	0.4	1	0.1	3.3	2
Thunderstorms	4	1.2	1	0.3	2	0.4	4	0.4	1	0.1	2.4	7
Landslides	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	9/10
Land Subsidence	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	9/10
Wildfire	2.5	0.75	2	0.6	2	0.4	4	0.4	3	0.3	2.45	6
Winter Storms	2.5	0.75	3	0.9	4	0.8	1	0.1	3	0.3	2.85	5

### Hazard Mitigation Goals:

- PREVENTION:** Manage the development of land and buildings to minimize risk of life and property loss due to hazard events.
- PROPERTY PROTECTION:** Protect structures and their occupants and contents from the damaging effects of hazard events.
- NATURAL RESOURCE PROTECTION:** Preserve, rehabilitate, and enhance the beneficial functions of the natural environment to promote a balance between natural systems and social and economic demands.
- STRUCTURAL MITIGATION:** Apply engineered structural modifications to natural systems and public infrastructure to reduce the potentially damaging impacts of hazards, where those modifications are feasible and environmentally suitable.
- EMERGENCY SERVICES:** Improve the efficiency, timing, and effectiveness of response and recovery efforts for hazard events.
- EDUCATION AND AWARENESS:** Educate and foster public awareness of hazards and techniques available for mitigation.



# Hazard Profiles, Risk Assessment and Probability

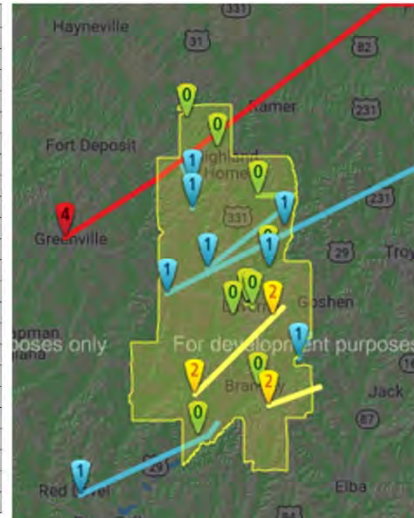
## High Priority Hazards

### 1. Flooding – 13 flooding events since 2000

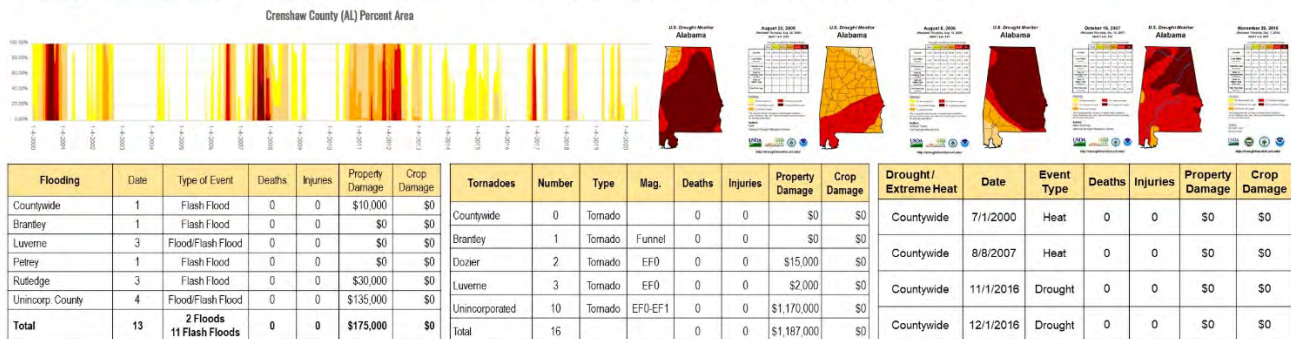


### 2. Tornadoes – 9 tornadoes since 2000. 1 EF2, 2 EF1, 6 EF0

Date	Fujita	Fatalities	Injuries	Width	Length	Damage
6/28/1957	0	0	0	10	0.1	-
9/29/1965	2	0	2	10	0.1	\$5K-\$50K
4/18/1969	4	2	14	500	52.4	\$50K-\$500K
5/18/1969	2	0	0	10	6.4	\$5K-\$50K
11/20/1973	2	0	0	10	0.1	\$5K-\$50K
5/20/1980	1	0	0	50	17.5	\$5K-\$50K
1/25/1990	1	0	28	73	8	\$500K-\$5M
10/4/1995	0	0	0	23	0.1	\$5K-\$50K
10/4/1995	0	0	0	23	0.1	\$5K-\$50K
11/7/1996	1	0	0	200	2.6	\$0.07
9/28/1998	1	0	0	30	2.6	\$0.07
9/28/1998	1	0	0	50	0.5	\$0.10
9/28/1998	1	0	0	50	0.5	\$0.05
9/28/1998	1	0	0	50	0.5	\$0.05
7/1/2003	1	0	0	600	3	\$0.20
4/30/2005	0	0	0	200	4	\$0.15
5/31/2005	0	0	0	20	0.2	\$0.01
4/14/2007	0	0	0	40	0.54	\$0.10
12/25/2012	0	0	0	50	0.18	-
12/25/2012	0	0	0	20	0.07	-
11/17/2014	1	0	0	500	40.73	\$0.29
1/4/2015	2	0	0	100	14.32	\$0.20
4/3/2017	0	0	0	25	0.05	\$2,000



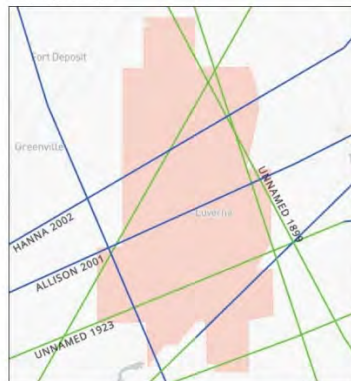
### 3. Drought / Extreme Heat – 4 drought and extreme heat events since 2000; 1 event in 2000, 1 event in 2007, 2 events in 2016



## Medium Priority Hazards

### 4. Hurricanes

2 events (2000 to 2020), 0 deaths or injuries, \$0 in property damage



### 5. Winter / Ice Storms, 2000 to 2020

Location	Date	Type	Deaths	Injuries	Property Damage	Crop Damage
Countywide	1/27/2000	Sleet	0	0	\$0	\$0
Countywide	1/2/2002	Winter Storm	0	0	\$0	\$0
Countywide	2/12/2010	Winter Storm	0	0	\$0	\$0
Countywide	1/28/2014	Sleet	0	0	\$0	\$0
Countywide	12/8/2017	Winter Weather	0	0	\$0	\$0
Countywide	1/16/2018	Winter Storm	0	0	\$0	\$0
Total		6 Events	0	0	\$0	\$0

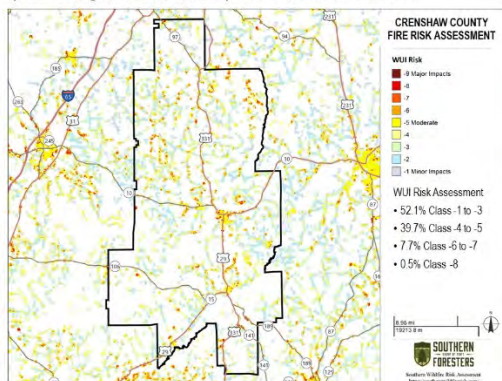
### 7. Thunderstorms, 2000 to 2020

Data from NOAA National Centers for Environmental Information

Location	Number	Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Countywide	0	Thunderstorm		0	0	\$0	\$0
Brantley	17	Thunderstorm	50-61	0	0	\$212,000	\$0
Dozier	5	Thunderstorm	50-75	0	0	\$41,000	\$0
Glenwood	3	Thunderstorm	50-52	0	0	\$18,000	\$0
Luverne	16	Thunderstorm	50-78	0	0	\$1,087,000	\$0
Rutledge	4	Thunderstorm	50-52	0	0	\$22,000	\$0
Unincorporated	27	Thunderstorm	50-55	0	0	\$181,000	\$0
Total	72			0	0	\$1,561,000	\$0

### 6. Wildfire

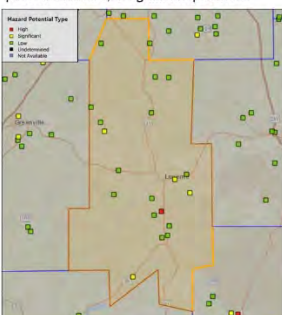
239 wildfires from 2007 to 2020 with 1,336.70 acres burned, or 5.59 acres per fire. Largest fire occurred in April 2010 with 94 acres burned.



## Low Priority Hazards

### 8. Dam Failure

18 dams in Crenshaw County; 1 high potential hazard, 4 significant potential.



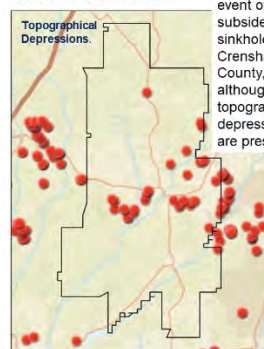
### 9. Landslides

No recorded event of landslides in Crenshaw County.



### 10. Land Subsidence

No recorded event of land subsidence or sinkholes in Crenshaw County, although topographical depressions are present.

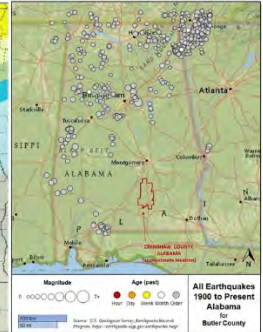


### 11. Earthquakes

Alabama Seismic Zones



Past Earthquake Occurrences









# Alabama Regional Hazard Mitigation Plan Crenshaw County Draft Review Comment Form

Name: \_\_\_\_\_ County: \_\_\_\_\_

Organization: \_\_\_\_\_

Daytime Phone: \_\_\_\_\_ Email: \_\_\_\_\_

1. Do you agree with the Crenshaw County natural hazard risk assessment as presented in the Crenshaw County portion of the Southeast Alabama Regional Hazard Mitigation Plan? \_\_\_\_\_Yes \_\_\_\_\_No

If no, why not? \_\_\_\_\_

2. Do you agree with the Crenshaw County natural hazard priority status as presented in the Crenshaw County portion of the Southeast Alabama Regional Hazard Mitigation Plan? \_\_\_\_\_Yes \_\_\_\_\_No

If no, why not? \_\_\_\_\_

3. Please list any additional natural hazard mitigation strategies that you feel need to be included in the Crenshaw County Hazard Mitigation Plan.

[illegible]

**Southeast Alabama Regional Hazard Mitigation Plan  
Crenshaw County  
Draft Review Comment Form**

Name: William Tate County: Crenshaw  
Organization: Probate Judge  
Daytime Phone: 334-403-0407 Email: willtate74@yahoo.com

1. Do you agree with the Crenshaw County natural hazard risk assessment as presented in the Crenshaw County portion of the Southeast Alabama Regional Hazard Mitigation Plan? X Yes \_\_\_\_\_ No  
If no, why not? \_\_\_\_\_

2. Do you agree with the Crenshaw County natural hazard priority status as presented in the Crenshaw County portion of the Southeast Alabama Regional Hazard Mitigation Plan? X Yes \_\_\_\_\_ No  
If no, why not? \_\_\_\_\_

3. Please list any additional natural hazard mitigation strategies that you feel need to be included in the Crenshaw County Hazard Mitigation Plan.

I feel the data regarding Crenshaw County was  
not reported correctly. The numbers regarding damage  
as well as events that have occurred are  
very low compared to what actually has happened



Name: Trent Dykes County: Cronshaw  
Organization: GCHO  
Daytime Phone: 334-403-0838 Email: ccassisteng@foycable.net

3. Please list any additional natural hazard mitigation strategies that you feel need to be included in the Crenshaw County Hazard Mitigation Plan.

Map discrepancies for sinkholes for Crenshaw County.  
Also state map showing all counties is misleading  
for sinkhole data

**Southeast Alabama Regional Hazard Mitigation Plan  
Crenshaw County  
Draft Review Comment Form**

Name: BESSIE SANDERS County: CRENSHAW  
Organization: CRENSHAW COUNTY HIGHWAY DEPARTMENT  
Daytime Phone: 334-335-2874 Email: CEAD@TROYCABLE.NET

1. Do you agree with the Crenshaw County natural hazard risk assessment as presented in the Crenshaw County portion of the Southeast Alabama Regional Hazard Mitigation Plan? ☒ Yes ☐ No

If no, why not? \_\_\_\_\_

2. Do you agree with the Crenshaw County natural hazard priority status as presented in the Crenshaw County portion of the Southeast Alabama Regional Hazard Mitigation Plan? ☐ Yes ☒ No

If no, why not? \_\_\_\_\_

3. Please list any additional natural hazard mitigation strategies that you feel need to be included in the Crenshaw County Hazard Mitigation Plan.

IMPACT OF THUNDERSTORM IS HIGHER THAN RATED.  
NUMBER ONE IMPACT OF DAMAGE TO COUNTY ROADS  
IS SEVERE THUNDER STORMS



## Draft Review Comment Form

Name: DAVID SMYTH County: Crenshaw

Organization: Crenshaw County Commission

Daytime Phone: 334-335-6568 Email: dh5rbs01@yahoo.com

1. Do you agree with the Crenshaw County natural hazard risk assessment as presented in the Crenshaw County portion of the Southeast Alabama Regional Hazard Mitigation Plan?   X   Yes        No

If no, why not? \_\_\_\_\_

2. Do you agree with the Crenshaw County natural hazard priority status as presented in the Crenshaw County portion of the Southeast Alabama Regional Hazard Mitigation Plan? \_\_\_\_\_ Yes X No

If no, why not? I believe locally, damage from thunderstorms should be rated much higher.

3. Please list any additional natural hazard mitigation strategies that you feel need to be included in the Crenshaw County Hazard Mitigation Plan.

It appears reporting data in several categories is conflicting.

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Country	1950 (%)	1955 (%)	1960 (%)	1965 (%)	1970 (%)	1975 (%)	1980 (%)	1985 (%)	1990 (%)	1995 (%)	2000 (%)	2005 (%)	2010 (%)	2015 (%)	2020 (%)	2025 (%)	2030 (%)	2035 (%)	2040 (%)	2045 (%)	2050 (%)
Japan	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0
Germany	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0
France	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	20.5	21.0
Italy	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0
Spain	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0	22.5	23.0
Sweden	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0
United Kingdom	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0
United States	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0
Canada	17.0	17.5	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5	27.0
South Korea	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5	27.0	27.5	28.0
China	19.0	19.5	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0
India	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0
Brazil	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.5	31.0
Argentina	22.0	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0
South Africa	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0
Indonesia	24.0	24.5	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0
Nigeria	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5					

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Name: MICHELLE ROYALS County: CRENSHAW  
Organization: CITY OF LUVERNE  
Daytime Phone: 334-335-3741 Email: LUVERNECITYENG@GMAIL.COM

# **Pike County Public Participation**

**AEMA DIVISION B HAZARD MITIGATION PLAN**  
**PIKE COUNTY STAKEHOLDER MEETING – JULY 2, 2020**

**AGENDA**

1. Welcome and Introductions
2. Hazard Mitigation Overview
3. Pike County Local Emergency Planning Committee
4. Community Profile
5. Risk Assessment
6. Critical Facilities
7. AEMA Division B Goals
8. Pike County Mitigation Strategies
9. Next Meeting and Adjourn

**Due to COVID-19 precautions, the first meeting of the Pike County Hazard Mitigation Stakeholders was conducted virtually and hosted by the Pike County EMA. Therefore, there is no signed attendance roster for this meeting; however, the following persons were in attendance:**

- Herbert Reeves, Pike County EMA Director, Troy University Dean of Students
- Willie Wright, Clerk/Administrator, City of Brundidge
- Linda Faust, Administration, City of Brundidge
- Cynthia Thomas, Interim Superintendent, Troy City Schools
- Amy Minor, Troy Regional Medical Center
- Chris Dozier, Director, Pike County E911
- Rene Green, Pike County Engineering
- Randall Barr, Chief of Police, City of Troy
- Michael Stephens, Fire Chief, City of Troy



**AEMA DIVISION B**

## Pike County Hazard Mitigation Plan Update

July 2, 2020

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PIKE COUNTY

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**AEMA DIVISION B**

### Southeast Alabama Regional Multi-Jurisdictional Hazard Mitigation Plan

<u>2015 -- 7 COUNTIES:</u> <ul style="list-style-type: none"> <li>• BARBOUR COUNTY</li> <li>• BUTLER COUNTY</li> <li>• COFFEE COUNTY</li> <li>• COVINGTON COUNTY</li> <li>• GENEVA COUNTY</li> <li>• HENRY COUNTY</li> <li>• HOUSTON COUNTY</li> </ul>	<u>2020 -- 10 COUNTIES:</u> <ul style="list-style-type: none"> <li>• BARBOUR COUNTY</li> <li>• BUTLER COUNTY</li> <li>• COFFEE COUNTY</li> <li>• COVINGTON COUNTY</li> <li>• CRENSHAW COUNTY</li> <li>• DALE COUNTY</li> <li>• GENEVA COUNTY</li> <li>• HENRY COUNTY</li> <li>• HOUSTON COUNTY</li> <li>• PIKE COUNTY</li> <li>• 70+ MUNICIPALITIES</li> </ul>
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PIKE COUNTY

4

**AEMA DIVISION B**

### Southeast Alabama Regional Multi-Jurisdictional Hazard Mitigation Plan

September 24, 2015

<https://ema.alabama.gov/county-mitigation-plan/>

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PIKE COUNTY

2

**AEMA DIVISION B**

### What is a natural hazard?

*a threat of a naturally occurring event that will have a negative effect on people or the environment*

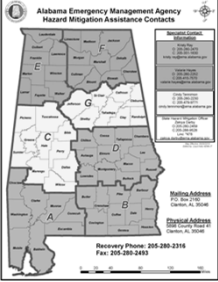

<ul style="list-style-type: none"> <li>• Floods (riverine flooding, storm surge, flash floods)</li> <li>• High Winds (hurricanes, tornadoes, windstorms)</li> <li>• Winter / Ice Storms</li> <li>• Landslides</li> <li>• Sinkholes and Land subsidence</li> </ul>	<ul style="list-style-type: none"> <li>• Earthquakes</li> <li>• Drought</li> <li>• Hail</li> <li>• Wildfires</li> <li>• Extreme Temperatures</li> <li>• Thunderstorms and Lightning</li> <li>• Dam Failure.</li> </ul>
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PIKE COUNTY

5

**AEMA DIVISION B**

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PIKE COUNTY

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**AEMA DIVISION B**

### What is hazard mitigation?

Hazard mitigation reduces disaster damages and is defined as ***sustained action taken to reduce or eliminate the long-term risk to human life and property from hazards.***

- Increase risk awareness
- Protect critical facilities
- Removal of structures from flood hazard areas
- Mitigation savvy development codes and regulations

Local governments have the responsibility to protect the health, safety, and welfare of their citizens. Proactive mitigation policies and actions help reduce risk and create safer, more disaster-resilient communities. Mitigation is an investment in your community's future safety and sustainability.

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PIKE COUNTY

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**AEMA DIVISION B**

### Role of hazard mitigation?

Consider the critical importance of mitigation to:

- Protect public safety and prevent loss of life and injury.
- Reduce harm to existing and future development.
- Prevent damage to a community's unique economic, cultural, and environmental assets.
- Minimize operational downtime and accelerate recovery of government and business after disasters.
- Reduce the costs of disaster response and recovery and the exposure to risk for first responders.
- Help accomplish other community objectives, such as leveraging capital improvements, infrastructure protection, open space preservation, and economic resiliency.

PIKE COUNTY

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**AEMA DIVISION B**

### Pike County LEPC - 2020

Organization	Representative 2020	Organization	Representative 2020
Pike County EMA	Herb Reeves, EMA Director	Pike County E-911	Chris Dozier, Director
Town of Banks	Lisa Culpepper, Mayor	Firefighters Association	CJ Stephens, Vol. Assoc. President
City of Brundidge	Isabell Boyd, Mayor	Pike County	McKenzie Wilson, Administrator
Town of Goshen	Darren Jordan, Mayor	Pike County	Robin Sullivan, Commission Chair
City of Troy	Jason Reeves, Mayor	Pike County	Russell Oliver, Engineer
Pike County Schools	Mike Bazzell, Superintendent	Pike County	Randall Thomas, Sheriff
Troy City Schools	Cynthia Thomas, Int. Superintendent	City of Brundidge	Moses Davenport, Chief of Police
Troy University	Herb Reeves, Dean of Student Services	City of Troy	Randall Barr, Chief of Police
Pike County Health Department	Patty Rushing, Director	City of Troy	Michael Stephens, Fire Chief
Troy Regional Medical Center	Amy Minor		

PIKE COUNTY

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**AEMA DIVISION B**

### Disaster Mitigation Act of 2000

*"Instead of repeated damage and continual demands for federal disaster assistance, resilient communities proactively protect themselves against hazards, build self-sufficiency, and become more sustainable."*

The purpose of the Stafford Act, as amended by the Disaster Mitigation Act of 2000, is "to reduce economic disruption, and disaster assistance costs resulting from natural disasters."

Section 322 of the Act specifically addresses mitigation planning and requires state and local governments to prepare multi-hazard mitigation plans as a precondition for receiving FEMA mitigation project grants.

- Requires that each local government prepare and adopt a multi-hazard mitigation plan
- Must have an adopted hazard mitigation plan to be eligible for disaster recovery funds in the event of a natural disaster
- Hazard mitigation plan must be maintained and updated every five years

PIKE COUNTY

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**AEMA DIVISION B**

### Area Profile

Total Area (square miles)

County	Total Area (square miles)
BARBOUR COUNTY	844.23
BUTLER COUNTY	777.88
COFFEE COUNTY	1,088.48
COVINGTON COUNTY	1,021.79
CRENSHAW COUNTY	615.32
DALE COUNTY	618.58
GENEVA COUNTY	602.31
HENRY COUNTY	581.82
HOUSTON COUNTY	671.91

Total Land = 6,982.22 Square Miles  
13.3 Percent of State of Alabama

PIKE COUNTY

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**AEMA DIVISION B**

### Local Emergency Planning Committee (LEPC)

- Local Governments – County and Municipal
- Law Enforcement
- Emergency Services
- Healthcare
- Education
- Natural Resources
- Business, Industry and Communications
- Utility Services
- Non-Profit and Faith-Based Organizations

Role:

- Oversight and Guidance
- Liaison to Community and Respective Organizations
- Build Awareness
- Assist in Implementation

PIKE COUNTY

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**AEMA DIVISION B**

### Area Profile

2018 Population by County

Jurisdiction	2000 Census Population	2010 Census Population	% Change, 2000 to 2010	2018	% Change 2010 to 2018
Pike County	29,605	32,899	11.13%	33,403	1.53%
Town of Banks	224	179	-20.09%	157	-12.29%
City of Brundidge	2,341	2,076	-11.32%	2,295	10.55%
Town of Goshen	300	266	-11.33%	223	-16.17%
City of Troy	13,935	18,033	29.41%	19,141	6.14%
AEMA Division B Region	354,943	378,812	6.72%	378,936	0.03%
Alabama	1,751,897	4,779,736	172.83%	4,864,680	1.78%

PIKE COUNTY

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AEMA DIVISION B	Area Profile	2018 Population by Race						
		Total population	White	Black or African American	Other Race Alone	Two or more races	Hispanic or Latino Origin	
		322,903,030	234,904,818	40,916,113	36,646,302	10,435,797	57,517,935	
		Percent	72.75%	12.67%	11.35%	3.23%	17.81%	
		Alabama	4,864,680	3,317,453	1,293,188	162,422	91,619	203,146
		Percent	100.00%	68.19%	26.58%	3.34%	1.88%	4.18%
		Barbour County	25,782	14,216	12,266	947	353	1,106
		Percent	100.00%	47.88%	47.58%	3.67%	1.37%	4.29%
		Butler County	20,025	10,414	9,055	233	323	67
		Percent	100.00%	52.00%	45.22%	1.16%	1.61%	0.33%
		Coffee County	51,288	38,933	8,829	1,927	1,609	3,549
		Percent	100.00%	75.89%	17.21%	3.76%	3.14%	6.92%
		Covington County	37,351	31,624	4,826	300	601	604
		Percent	100.00%	84.67%	12.92%	0.80%	1.61%	1.62%
		Crenshaw County	11,865	9,938	1,198	443	286	275
		Percent	100.00%	71.68%	23.07%	3.20%	2.06%	1.98%
		Dale County	49,255	35,889	9,749	1,961	1,656	3,070
		Percent	100.00%	72.86%	19.79%	3.98%	3.36%	6.23%
		Geneva County	26,491	22,871	2,529	566	525	1,027
		Percent	100.00%	86.33%	9.55%	2.14%	1.98%	3.88%
		Henry County	17,124	12,179	4,749	41	155	448
		Percent	100.00%	71.12%	27.73%	0.24%	0.91%	2.62%
		Houston County	104,352	72,387	28,078	1,718	2,169	3,437
		Percent	100.00%	69.37%	26.91%	1.65%	2.08%	3.29%
		Pike County	33,403	18,960	12,697	950	796	263
		Percent	100.00%	56.76%	38.01%	2.84%	2.38%	0.79%
		Division B	378,945	265,407	95,978	9,086	8,473	13,846
		Percent	100.00%	70.04%	25.33%	2.40%	2.24%	3.65%

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AEMA DIVISION B	Area Profile	2020 Unemployment						
		JAN	FEB	MAR	APR	MAY	AVG	
		United States	4.0%	3.8%	4.5%	14.4%	13.0%	7.8%
		Alabama	3.2%	2.9%	3.3%	13.2%	9.4%	6.4%
		Barbour County	3.8%	3.5%	4.1%	9.9%	8.9%	6.0%
		Butler County	4.2%	4.1%	4.4%	19.7%	12.5%	9.1%
		Coffee County	3.1%	2.6%	3.2%	9.4%	6.9%	5.0%
		Covington County	3.6%	3.2%	3.7%	10.6%	7.4%	5.7%
		Crenshaw County	3.5%	2.9%	3.4%	15.5%	8.5%	6.8%
		Dale County	3.2%	2.7%	3.2%	9.5%	7.4%	5.2%
		Geneva County	3.2%	2.7%	3.2%	8.1%	6.3%	4.6%
		Henry County	3.8%	3.2%	3.8%	9.2%	7.6%	5.5%
		Houston County	3.2%	2.8%	3.3%	11.0%	8.4%	5.7%
		Pike County	3.5%	2.9%	3.5%	9.0%	6.9%	5.1%
		AEMA Division B	3.4%	2.9%	3.5%	10.8%	7.9%	5.7%

PIKE COUNTY

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AEMA DIVISION B

Area Profile

2018 Population by Age and Sex	Total Population	Male	Female	Under 18 Years	19 to 64 Years	65 Years and Over	Median Age
United States	322,903,030	49.2%	50.8%	22.8%	62.0%	15.2%	37.9
Alabama	4,864,680	48.4%	51.6%	22.6%	61.3%	16.1%	38.9
Barbour County	25,782	53.1%	46.9%	21.1%	60.9%	18.0%	39.9
Butler County	20,025	46.8%	53.2%	22.8%	58.2%	19.0%	40.7
Coffee County	51,288	49.4%	50.6%	23.7%	60.0%	16.3%	39.3
Covington County	37,351	48.7%	51.3%	21.9%	57.6%	20.5%	43.9
Crenshaw County	13,865	49.1%	50.9%	22.5%	59.2%	18.3%	41.5
Dale County	49,255	49.2%	50.8%	23.4%	60.5%	16.1%	37.5
Geneva County	26,491	49.0%	51.0%	22.1%	58.4%	19.4%	42.4
Henry County	17,124	48.1%	51.9%	20.9%	57.5%	21.6%	44.1
Houston County	104,352	47.9%	52.1%	23.4%	59.8%	16.9%	39.8
<b>Pike County</b>	<b>33,403</b>	<b>48.0%</b>	<b>52.0%</b>	<b>19.6%</b>	<b>65.8%</b>	<b>14.6%</b>	<b>30.8</b>
AEMA Division B	378,936	48.8%	51.2%	22.5%	60.0%	17.5%	40.0

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AEMA DIVISION B

Area Profile

2018 Income and Poverty	Median household income	Median family income	Median nonfamily income	Per capita income	Percent of People in Poverty
United States	\$60,293	\$73,965	\$35,971	\$32,621	14.1%
Alabama	\$48,486	\$62,030	\$26,388	\$26,846	17.5%
Barbour County	\$34,186	\$44,339	\$18,256	\$18,461	28.9%
Butler County	\$39,109	\$46,312	\$21,005	\$20,430	23.5%
Coffee County	\$53,155	\$64,723	\$31,245	\$27,577	15.1%
Covington County	\$40,601	\$54,513	\$20,844	\$23,071	18.3%
Crenshaw County	\$39,812	\$55,687	\$15,670	\$23,353	15.7%
Dale County	\$45,960	\$56,602	\$22,679	\$23,837	18.4%
Geneva County	\$38,142	\$47,603	\$17,469	\$20,471	24.0%
Henry County	\$48,610	\$57,902	\$25,595	\$24,069	13.5%
Houston County	\$45,496	\$58,526	\$26,327	\$25,990	18.3%
<b>Pike County</b>	<b>\$34,678</b>	<b>\$51,066</b>	<b>\$18,475</b>	<b>\$21,137</b>	<b>26.6%</b>
AEMA Division B Average	\$41,975	\$53,727	\$21,757	\$22,840	20.2%

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AEMA DIVISION B

Area Profile

2018 Employment Status	Population 16 Years & Over	Civilian Labor Force	Employed	Unemployed	Unemployment Rate
United States	257,754,872	162,248,196	152,739,884	9,508,312	5.9%
Alabama	3,894,696	2,224,606	2,076,708	147,898	6.6%
Barbour County	20,948	9,638	8,720	918	9.5%
Butler County	15,970	8,452	7,885	567	6.7%
Coffee County	40,510	23,096	21,725	1,371	5.9%
Covington County	30,107	16,327	14,899	1,428	8.7%
Crenshaw County	11,106	5,959	5,612	347	5.8%
Dale County	39,028	19,763	18,025	1,738	8.8%
Geneva County	21,376	10,992	10,047	945	8.6%
Henry County	13,980	7,362	6,868	494	6.7%
Houston County	82,833	47,645	44,291	3,354	7.0%
<b>Pike County</b>	<b>27,676</b>	<b>15,319</b>	<b>14,093</b>	<b>1,226</b>	<b>8.0%</b>
AEMA Division B	303,534	164,553	152,165	12,388	7.5%

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AEMA DIVISION B

Area Profile

2018 Housing Occupancy and Value	Total housing units	Occupied housing units	Vacant housing units	Vacancy Rate	Owner-Occupied Median House Value
United States	136,384,292	119,730,128	16,654,164	12.2%	\$204,900
Alabama	2,244,462	1,860,269	384,193	17.1%	\$137,200
Barbour County	11,937	9,186	2,751	23.0%	\$92,900
Butler County	10,026	6,708	3,318	33.1%	\$88,300
Coffee County	23,088	19,789	3,299	14.3%	\$149,100
Covington County	18,907	15,008	3,899	20.6%	\$95,500
Crenshaw County	6,790	5,025	1,765	26.0%	\$79,500
Dale County	23,065	18,670	4,395	19.1%	\$110,100
Geneva County	12,768	10,479	2,289	17.9%	\$92,300
Henry County	9,096	6,669	2,427	26.7%	\$115,100
Houston County	47,187	39,253	7,934	16.8%	\$120,500
<b>Pike County</b>	<b>16,077</b>	<b>11,547</b>	<b>4,530</b>	<b>28.2%</b>	<b>\$117,400</b>
AEMA Division B	178,941	142,334	36,607	20.5%	\$107,070

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<b>AEMA DIVISION B</b>	<b>Area Profile</b>					
	<b>2018 Housing Type and Age</b>	<b>Total Housing Units</b>	<b>Single Unit</b>	<b>Multi-Unit</b>	<b>Mobile Home Boat or Van</b>	<b>Built Prior to 1980 (40+ Years Old)</b>
	United States	136,384,292	67.5%	26.2%	6.3%	54.2%
	Alabama	2,244,462	70.1%	16.5%	13.4%	45.9%
	Barbour County	11,937	57.2%	13.5%	29.3%	50.9%
	Butler County	10,026	61.5%	12.3%	26.2%	52.3%
	Coffee County	23,088	74.8%	11.6%	13.6%	45.0%
	Covington County	18,907	71.5%	6.8%	21.7%	46.3%
	Crenshaw County	6,790	65.3%	7.0%	27.7%	52.8%
	Dale County	23,065	69.1%	12.7%	18.2%	44.5%
	Geneva County	12,768	67.0%	4.6%	28.5%	51.0%
	Henry County	9,096	68.3%	5.7%	25.9%	45.8%
	Houston County	47,187	70.7%	15.5%	13.8%	46.3%
	<b>Pike County</b>	<b>16,077</b>	<b>55.4%</b>	<b>22.6%</b>	<b>22.0%</b>	<b>42.2%</b>
	AEMA Division B	178,941	67.7%	12.4%	19.8%	46.7%
	<b>PIKE COUNTY</b>					

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<b>AEMA DIVISION B</b>	<b>Risk Assessment – Hazard Profiles</b>			
	Table 4.1: Potential Hazards and Data Sources			
	Hazard	Risk	Source	Correlation with Region
	Avalanche	No	US Forest Service National Avalanche Center ( <a href="http://www.fsavalanche.org/">http://www.fsavalanche.org/</a> )	No risk of avalanche events in Alabama
	Coastal Erosion	No	FEMA Coastal Erosion Hazards Report ( <a href="http://www.fema.gov/media-library/assets/documents/8397">http://www.fema.gov/media-library/assets/documents/8397</a> )	AEMA Division B is an inland area
	Dam Failure	Yes	USACE National Inventory of Dams ( <a href="http://geo.usace.army.mil/pgis/?p=397.12">http://geo.usace.army.mil/pgis/?p=397.12</a> )	Population downstream from dams; flooding concerns; no State regulation of dam safety
	Drought / Extreme Heat	Yes	United States Drought Monitor ( <a href="http://droughtmonitor.unl.edu/">http://droughtmonitor.unl.edu/</a> ) / NOAA National Climatic Data Center ( <a href="http://www.ncdc.noaa.gov/stormevents/">http://www.ncdc.noaa.gov/stormevents/</a> )	Historic incidents with damage
	Earthquake	Yes	USGS Earthquake Hazards Program ( <a href="http://earthquake.usgs.gov/earthquakes/">http://earthquake.usgs.gov/earthquakes/</a> )	Proximity to Southeast US seismic zones
	Flooding	Yes	NOAA National Climatic Data Center ( <a href="http://www.ncdc.noaa.gov/stormevents/">http://www.ncdc.noaa.gov/stormevents/</a> )	Historic incidents with damage / identified flood hazard areas
	<b>PIKE COUNTY</b>			

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<b>AEMA DIVISION B</b>	<b>Major Employers</b>		
	<b>NAME</b>	<b>TYPE</b>	<b>NO. EMPLOYEES</b>
	1 Troy University	Education	1,342
	2 Wiley Sanders Truck Lines, Inc.	Trucking	689
	3 Wal-Mart Distribution Center	Distribution Center	663
	4 Sikorsky Aircraft Manufacturing	Aircraft Manufacturing	650
	5 Sanders Lead Co., Inc.	Metals and Mining	450
	6 City of Troy	Government	430
	7 HB&G Building Products, Inc.	Building Products	350
	8 CGI	Information Technology	335
	9 Lockheed Martin	Government	320
	10 Troy Regional Medical Center	Medical Center	300
	11 KW Plastics Recycling Division	Recycling Division	215
	12 KW Plastics – Troy Facility	Plasticsing	150
	13 Troy Cable	Government	140
	14 Southern Classic Food Group, Inc.	Fooding	130
	15 Troy Bank & Trust	Bank & Trust	129
	16 Supreme Oil South	Oil South	106
	<b>PIKE COUNTY</b>		

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<b>AEMA DIVISION B</b>	<b>Risk Assessment – Hazard Profiles</b>			
	Table 4.1: Potential Hazards and Data Sources			
	Hazard	Risk	Source	Correlation with Region
	High Winds (Hurricanes, Tornadoes, Windstorms)	Yes	National Weather Service (NWS) Storm Data ( <a href="http://www.srh.noaa.gov/bmx/?n=stormdata_main/">http://www.srh.noaa.gov/bmx/?n=stormdata_main/</a> ) / NWS Tornado Database ( <a href="http://www.srh.noaa.gov/bmx/?n=tornadodb_main/">http://www.srh.noaa.gov/bmx/?n=tornadodb_main/</a> ) / National Hurricane Center Data Archive ( <a href="http://www.nhc.noaa.gov/data/#tcr">http://www.nhc.noaa.gov/data/#tcr</a> )	Historic incidents with damage
	Landslides	Yes	USGS Landslides Hazard Program ( <a href="http://landslides.usgs.gov/hazards/nationalmap/">http://landslides.usgs.gov/hazards/nationalmap/</a> ) / Geological Survey of Alabama, Landslides ( <a href="http://gsa.state.al.us/gsa/geologicahazards/Landslides.htm">http://gsa.state.al.us/gsa/geologicahazards/Landslides.htm</a> )	Susceptible areas to landslides
	Land Subsidence / Sinkholes	Yes	Geological Survey of Alabama, Sinkholes in Alabama ( <a href="http://gsa.state.al.us/gsa/geologicahazards/Sinkholes_AL.htm">http://gsa.state.al.us/gsa/geologicahazards/Sinkholes_AL.htm</a> )	Susceptible areas to land subsidence / sinkholes
	<b>PIKE COUNTY</b>			

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<b>AEMA DIVISION B</b>	<b>Risk Assessment</b>	
	4.1 Hazard Overview	
	4.2 Hazard Profiles	
	4.3 Technological and Human-Caused Hazards	
	4.4 Vulnerability Overview	
	4.5 Probability of Future Occurrence and Loss Estimation	
	4.6 Total Population and Property Valuation Summary by Jurisdiction	
	4.7 Critical Facilities/Infrastructure by Jurisdiction	
	4.8 Hazard Impacts	
	<b>PIKE COUNTY</b>	

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<b>AEMA DIVISION B</b>	<b>Risk Assessment – Hazard Profiles</b>			
	Table 4.1: Potential Hazards and Data Sources			
	Hazard	Risk	Source	Correlation with Region
	Tsunami	No	FEMA, Tsunami ( <a href="http://m.fema.gov/tsunamis">http://m.fema.gov/tsunamis</a> )	AEMA Division B is an inland area
	Volcano	No	FEMA, Volcanoes ( <a href="http://m.fema.gov/volcanoes">http://m.fema.gov/volcanoes</a> )	Not near an active volcano
	Wildfire	Yes	Alabama Forestry Commission Wildfire Assessment Maps ( <a href="http://www.forestry.alabama.gov/fireRiskAssessmentMaps.aspx?bv=1&amp;w=4">http://www.forestry.alabama.gov/fireRiskAssessmentMaps.aspx?bv=1&amp;w=4</a> )	Historic incidents with damage / identified susceptible areas
	Winter / Ice Storms	Yes	NOAA National Climatic Data Center ( <a href="http://www.ncdc.noaa.gov/stormevents/">http://www.ncdc.noaa.gov/stormevents/</a> )	Historic incidents with damage
	<b>PIKE COUNTY</b>			

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AEMA DIVISION B	<h3>Risk Assessment – Hazard Profiles</h3> <ul style="list-style-type: none"> <li>• <b>Background:</b> definition/description of the hazard, its characteristics, and potential effects.</li> <li>• <b>Locations Affected</b></li> <li>• <b>Extent:</b> potential strength or magnitude of the hazard.</li> <li>• <b>Historical Occurrences:</b> history of previous hazard events in the planning area, including their impacts.</li> <li>• <b>Probability of Future Events:</b> likelihood of future hazard occurrences in the planning area. Many hazards may affect the entire planning area, while other hazards are more localized due to specific factors. These qualitative descriptions are from historical occurrences and other risk factors. Because of the lack of comprehensive quantitative data on many of the hazards, susceptibility to future damage will be noted by categories of High, Medium, Low, or Very Low described below. <ul style="list-style-type: none"> <li>• <b>High:</b> Probable major damage in a 1-10 Year Period</li> <li>• <b>Medium:</b> Probable major damage in a 10-50 Year Period</li> <li>• <b>Low:</b> Probable major damage in a 100 Year Period</li> <li>• <b>Very Low:</b> No probable major damage in a 100 Year Period</li> </ul> </li> </ul>
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AEMA DIVISION B

Critical Facilities

Table 4.16: Critical Facility Summary

Facilities	Barbour	Butler	Coffee	Covington	Geneva	Henry	Houston	Planning Area
Fire / Rescue	9	18	5	23	9	6	31	101
Law Enforcement	3	4	4	8	5	4	9	37
Hospital / Health Dept	4	5	3	4	3	2	4	26
Schools	8	13	21	14	12	9	43	120
Continuity of Government	8	5	7	16	8	6	14	64

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AEMA DIVISION B	<h3>Risk Assessment – Hazard Profiles</h3> <p><b>Technological and Human-Caused Hazards</b> AEMA Division B has susceptibility to technological and human-caused hazards. General discussions of hazards that may affect the planning area are described in the subsections below.</p> <ul style="list-style-type: none"> <li>• <b>Structure Fire</b></li> <li>• <b>Hazardous Materials</b></li> <li>• <b>Terrorism</b></li> <li>• <b>Radiological</b></li> </ul>
	PIKE COUNTY

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AEMA DIVISION B

Critical Facilities					
Pike County Critical Facility Summary					
Facilities	Pike County	Banks	Brundidge	Goshen	Troy
Fire / Rescue	5	1	1	1	4
Law Enforcement	1	0	1	0	3
Hospital / Health Dept	1	0	0	0	2
Schools	0	2	2	2	50
Continuity of Government	2	1	1	1	2

PIKE COUNTY

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AEMA DIVISION B	<h3>Critical Facilities</h3> <p>Designation of a facility as critical is based on the HAZUS definitions, as follows:</p> <ul style="list-style-type: none"> <li>• <b>Essential Facilities.</b> These facilities are critical to the health and welfare of the entire county population and are essential following hazard events, including emergency response facilities (police, fire, and emergency management), medical care facilities (hospitals and other care facilities), schools, and shelters for evacuation.</li> <li>• <b>Lifeline Utility Systems.</b> These facilities are essential lifelines that include potable water, wastewater, natural gas, electric, and communications systems. HAZUS data is not available for this county.</li> <li>• <b>Transportation Systems.</b> These facilities include highways, bridges, railways, and waterways.</li> <li>• <b>High Potential Loss Facilities.</b> These facilities include military installations and high potential loss dams.</li> <li>• <b>Hazardous Materials Facilities.</b> These facilities may pose a threat if disrupted by natural hazards and include hazardous industrial chemicals, explosives, flammables, toxins, and radioactive materials.</li> </ul>
	PIKE COUNTY

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AEMA DIVISION B

Planning and Regulatory Tools by Jurisdiction					
Jurisdiction	Zoning Ordinance	Code Enforcement	Recent Master Plan	Certified Floodplain Manager	NFIP Participation
Pike County	N	N	N	N	Y
Town of Banks	N	N	N	N	N
City of Brundidge	N	N	Y	N	Y
Town of Goshen	N	N	N	N	Y
City of Troy	Y	Y	Y	N	Y

PIKE COUNTY

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<b>AEMA DIVISION B</b>	<b>Planning and Regulatory Tools by Jurisdiction</b>						
	<b>National Flood Insurance Program (NFIP) Status</b>						
	<b>Jurisdiction</b>	<b>County</b>	<b>Participation Status</b>	<b>Initial FBHM Identified</b>	<b>Initial FIRM Identified</b>	<b>Current Effective Map Date</b>	<b>Reg-Emer Date</b>
	<b>Pike County</b>	<b>Pike</b>	<b>Yes</b>	<b>6/18/76</b>	<b>8/1/87</b>	<b>12/2/11(M)</b>	<b>8/1/87</b>
	Town of Banks	Pike	No	N/A	9/19/07	12/2/11	9/19/08
	City of Brundidge	Pike	Yes	10/22/76	6/1/94	12/2/11(M)	6/1/94
	Town of Goshen	Pike	Yes	10/15/76	4/2/86	12/2/11(M)	4/2/86
	City of Troy	Pike	Yes	1/24/75	9/18/85	12/2/11(M)	9/18/85
	<b>PIKE COUNTY</b>						

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<b>AEMA DIVISION B</b>	<b>AEMA Division B Mitigation Goals - 2015</b>						
	<ol style="list-style-type: none"> <li>1. <b>PREVENTION:</b> Manage the development of land and buildings to minimize risk of life and property loss due to hazard events.</li> <li>2. <b>PROPERTY PROTECTION:</b> Protect structures and their occupants and contents from the damaging effects of hazard events.</li> <li>3. <b>NATURAL RESOURCE PROTECTION:</b> Preserve, rehabilitate, and enhance the beneficial functions of the natural environment to promote a balance between natural systems and social and economic demands .</li> <li>4. <b>STRUCTURAL MITIGATION:</b> Apply engineered structural modifications to natural systems and public infrastructure to reduce the potentially damaging impacts of hazards, where those modifications are feasible and environmentally suitable.</li> <li>5. <b>EMERGENCY SERVICES:</b> Improve the efficiency, timing, and effectiveness of response and recovery efforts for hazard events.</li> <li>6. <b>EDUCATION AND AWARENESS:</b> Educate and foster public awareness of hazards and techniques available for mitigation.</li> </ol>						
	<b>PIKE COUNTY</b>						

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<b>AEMA DIVISION B</b>	<b>Division B Hazard Mitigation Plan Update</b>						
	<p><b>Next Meeting:</b></p> <ul style="list-style-type: none"> <li>• <b>Hazard Risk Assessment</b></li> <li>• <b>Finalize Jurisdiction Action Plans</b></li> <li>• <b>Review Draft Plan</b></li> <li>• <b>Schedule Public Hearing</b></li> </ul>						
	<b>PIKE COUNTY</b>						

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## ***PLANNING FOR NATURAL DISASTERS***

The Pike County Emergency Management Agency (EMA) Local Emergency Planning Committee (LEPC) is updating the county's hazard mitigation plan to further establish proactive hazard mitigation policies and actions that will help reduce risk and create a safer, more disaster resistant environment in Pike County.

**The next Hazard Mitigation Plan meeting will be  
Tuesday, July 14, 2020 at 1:00 PM**

at the Trojan Center, Room 224  
on the Troy University Campus, Troy, Alabama

All Hazard Mitigation Planning meetings are open to the public and interested citizens are encouraged to attend; however, due to COVID-19 social distancing requirements, **seating is limited and a reservation is required.** If you would like to attend the meeting, and if you need special accommodations, please contact the Pike County EMA office, at 334-566-8272 or [hreeves@troy.edu](mailto:hreeves@troy.edu).

**AEMA DIVISION B HAZARD MITIGATION PLAN  
PIKE COUNTY STAKEHOLDER MEETING 2 – JULY 14, 2020**

**AGENDA**

1. Welcome and Introductions
2. Review from Meeting 1
3. Public Participation
4. Hazard Profiles and Probability
5. Critical Facilities
6. Mitigation Strategies
7. Next Meeting and Adjourn



**AEMA DIVISION B**

## Pike County Hazard Mitigation Plan Update

July 14, 2020

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PIKE COUNTY

1

**AEMA DIVISION B**

## Division B Hazard Mitigation Plan Update Public Notification

Posted Flyer

- Pike County EMA Office
- Pike County Courthouse
- City Halls

**PLANNING FOR NATURAL DISASTERS**

The Pike County Emergency Management Agency (EMA) Local Emergency Planning Committee (LEPC) is updating the county's hazard mitigation plan to further establish proactive hazard mitigation policies and actions that will help reduce risk and create a safer, more disaster resistant environment in Pike County.

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PIKE COUNTY

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**AEMA DIVISION B**



### Southeast Alabama Regional Multi-Jurisdictional Hazard Mitigation Plan

September 24, 2015

<https://ema.alabama.gov/county-mitigation-plan/>



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PIKE COUNTY

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**AEMA DIVISION B**

## Division B Hazard Mitigation Plan Update Public Hearing

**Date:** July 27 through July 29

**Location:** Pike County EMA Office

**Advertise:** Newspaper, Post, Websites, Social Media

**Format:** Open House – Come and Go Format  
Two display stations set up  
Copies of draft plan available  
Comment Form

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PIKE COUNTY

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**AEMA DIVISION B**

## Division B Hazard Mitigation Plan Update

**Last Meeting:**

- Hazard Introduction
- LEPC Role/Responsibility
- Area Demographics
- Critical Facilities
- Planning and Regulatory Tools
- Preliminary Goals and Action Plan Review

**Today's Meeting:**

- Public Participation
  - LEPC Composition
  - Meeting Notification
  - Public Hearing
- Hazard Profiles
- Hazard Risk Assessment
- Critical Facilities
- Finalize Goals
- Jurisdiction Action Plans

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PIKE COUNTY

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**AEMA DIVISION B**

## Risk Assessment

- Dam Failure
- Drought/Extreme Heat
- Earthquake
- Flooding
- High Winds: Hurricanes, Tornadoes, Windstorms
- Landslides
- Land Subsidence, Sinkholes
- Wildfire
- Winter/Ice Storms

- 4.1 Hazard Overview
- 4.2 Hazard Profiles
- 4.3 Technological and Human-Caused Hazards
- 4.4 Vulnerability Overview
- 4.5 Probability of Future Occurrence and Loss Estimation
- 4.6 Total Population and Property Valuation Summary by Jurisdiction
- 4.7 Critical Facilities/Infrastructure by Jurisdiction
- 4.8 Hazard Impacts

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PIKE COUNTY

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<b>AEMA DIVISION B</b>	<b>Crenshaw County FEMA Disaster Declarations 1953 - 2020</b>	<b>Declaration Date</b>	<b>Disaster Number</b>	<b>Type of Incident</b>	<b>Individual Assistance</b>	<b>Public Assistance</b>
		3/14/1975	DR-458	Severe Storms, Flooding	X	X
		10/2/1975	DR-488	Severe Storms, Tornadoes, Flooding	X	X
		7/20/1977	EM-3045	Drought		X
		3/21/1990	DR-861	Severe Storms, Tornadoes, Flooding	X	X
		3/15/1993	EM-3096	Severe Snowfall, Winter Storm		X
		10/4/1995	DR-1070	Hurricane Opal	X	X
		9/15/2004	DR-1549	Hurricane Ivan	X	X
		9/10/2005	EM-3237	Hurricane Katrina - Evacuation		X
		8/30/2008	EM-3292	Hurricane Gustav		X
		12/31/2009	DR-1870	Severe Storms and Flooding		X
		4/27/2011	EM-3319	Severe Storms, Tornadoes, Straight-line Winds		X
		4/28/2011	DR-1971	Severe Storms, Tornadoes, Straight-line Winds, Flooding		X
		1/21/2016	DR-4251	Severe Storms, Tornadoes, Straight-line Winds, Flooding		X

Alabama: 90  
AEMA Div. B: 32  
Pike County: 16

- 1 Drought
- 1 Flood
- 7 Hurricane
- 6 Severe Storms
- 1 Snow

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AEMA DIVISION B

Hazard Profiles: Dam Failure

AEMA Division B Dam Conditions

Source: U.S. Army Corps of Engineers, National Dam Inventory, 2018. Updated 2019. <https://nd.ic.usace.army.mil/ndb/?p=105-113-10162050943432-NO->

Location	Number of Dams	Hazard Potential			Avg. Age	% Dams Regulated by State	% Dams Regulated by Federal	% Dams Hydro power
		H	S	L				
Barbour County	8	0	1	7	66	0	0	0
Butler County	21	0	6	15	54	0	0	0
Coffee County	27	4	5	18	55	0	4	4
Covington County	19	2	0	17	55	0	11	11
Crenshaw County	18	1	4	13	57	0	0	0
Dale County	22	2	2	18	51	0	18	0
Geneva County	19	0	0	19	54	0	0	0
Henry County	8	1	0	7	55	0	13	13
Houston County	17	2	3	12	48	0	12	0
Pike County	21	0	0	21	52	0	0	0
Division B	180	12	20	148	54.7	0	58	28

PIKE COUNTY

PIKE COUNTY

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<b>AEMA DIVISION B</b>	<b>Risk Assessment – Hazard Overview</b>							
	<b>Summary of AEMA Division B Storm Events, 2000 to 2020</b>							
	<b>Location</b>	<b>Number of County/Zone Areas Affected</b>	<b>Number of Days with Event</b>	<b>Number of Days with Death</b>	<b>Number of Days with Death or Injury</b>	<b>Number of Days with Property Damage</b>	<b>Number of Days with Crop Damage</b>	<b>Number of Event Types reported</b>
	Barbour County	2	143	0	3	43	1	17
	Butler County	2	85	2	5	55	0	14
	Coffee County	2	176	3	8	94	0	15
	Covington County	2	134	3	5	81	0	15
	Crenshaw County	2	93	0	0	60	0	13
	Dale County	3	229	1	4	130	0	18
	Geneva County	2	160	1	3	86	0	15
	Henry County	2	163	1	4	82	0	16
	Houston County	2	209	3	8	130	0	17
	<b>Pike County</b>	<b>2</b>	<b>129</b>	<b>0</b>	<b>4</b>	<b>39</b>	<b>0</b>	<b>18</b>
	<small>Source: NOAA, National Centers for Environmental Information, Storm Events Database. <a href="https://www.ncdc.noaa.gov/stormevents/stormevents.php?latlon=32N24W86M">https://www.ncdc.noaa.gov/stormevents/stormevents.php?latlon=32N24W86M</a></small>							
	<b>PIKE COUNTY</b>							

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<b>AEMA DIVISION B</b>	<b>Hazard Profiles: Dam Failure</b>		<b>Pike County Dam Locations</b>	
	<small>Source: U.S. Army Corps of Engineers, National Dam Inventory, 2018. Updated 2019. <a href="https://nd.ic.usace.army.mil/ndb/?p=105-113-10162050943432-NO-">https://nd.ic.usace.army.mil/ndb/?p=105-113-10162050943432-NO-</a></small>			
	<b>Total</b>	<b>21</b>		
	<b>High Hazard Potential</b>	<b>0</b>		
	<b>Significant Hazard Potential</b>	<b>0</b>		
	<b>Low Hazard Potential</b>	<b>21</b>		
	<b>Legend</b>			
	<b>Hazard Potential Type</b>			
	<input checked="" type="checkbox"/> High <input type="checkbox"/> Significant <input type="checkbox"/> Low <input type="checkbox"/> Undetermined <input type="checkbox"/> Not Available			

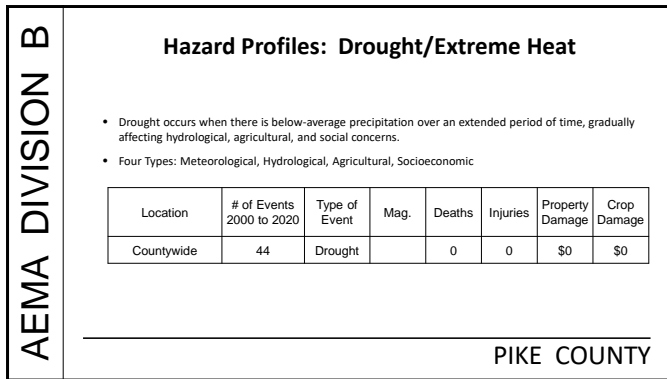
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<b>AEMA DIVISION B</b>	<b>Hazard Profiles: Dam Failure</b>	
	USACE National Dam Inventory:	
	<ul style="list-style-type: none"> <li>National Dam Inventory (NID) Updated in 2018; In 2019 Updated Annually</li> <li>Alabama is Only State <b>WITHOUT</b> Dam Regulatory/Reporting Requirements</li> <li>2,283 Recorded Dams in the State of Alabama</li> <li>180 Dams in AEMA Division B Counties</li> <li>12 Division B Dams are classified by the USACE as a high hazard potential</li> <li>20 Division B Dams are identified as having a significant hazard potential.</li> <li>Two Major Levee Systems: Elba and Geneva.</li> </ul>	
	<b>PIKE COUNTY</b>	

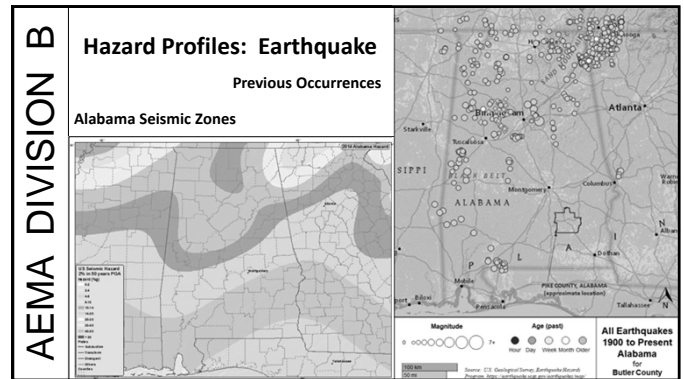
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<b>AEMA DIVISION B</b>	<b>Hazard Profiles: Dam Failure</b>						
	<b>Pike County Dams</b> <small>Source: U.S. Army Corps of Engineers, National Dam Inventory, 2018. Updated 2019. <a href="https://nd.ic.usace.army.mil/ndb/?p=105-113-10162050943432-NO-">https://nd.ic.usace.army.mil/ndb/?p=105-113-10162050943432-NO-</a></small>						
	<b>NID#</b>	<b>DAM NAME</b>	<b>RIVER</b>	<b>CITY</b>	<b>YEAR COMPLETED</b>	<b>HD HEIGHT (feet)</b>	<b>HD STORAGE (acre-feet)</b>
	AL00180	YOUNGBLOOD	YOUNGBLOOD CREEK	YOUNGBLOOD	1946	15	192
	AL00181	MILTON CARTER	TR INDIAN CREEK	GOSHEN	1968	26	110
	AL00182	PIKE COUNTY LAKE	TR BIG CREEK	BAL TIC	1950	25	300
	AL00183	JOY RUGMAN POND	RICHARD CREEK	BRUNIDGE	1967	15	42
	AL00185	SORRELL LAKE DAM	RICHARD CREEK	BANKS	1952	13	164
	AL00186	COPLAND	TR HARRINGS CREEK	TROY	1954	15	109
	AL00188	CROWES	TR CORBIN CREEK	EAST TROY	1955	15	88
	AL00190	HENDERSON LAKE	HANNING CREEK	TROY	1972	22	728
	AL00191	PIKE POND	TR BEAVER POND BRANCH	MOUNT CARMEL CHURCH	1960	24	16
	AL00193	MORGAN POND	MORGAN BRANCH	TROY	1964	15	218
	AL00199	HARRIS LAKE DAM	TR BOWEN MILL CREEK	TENELLE	1977	35	249
	AL00197	W R CHAPMAN LAKE DAM NO 1	TR CONELCH RIVER	NORTH TROY	1965	17	68

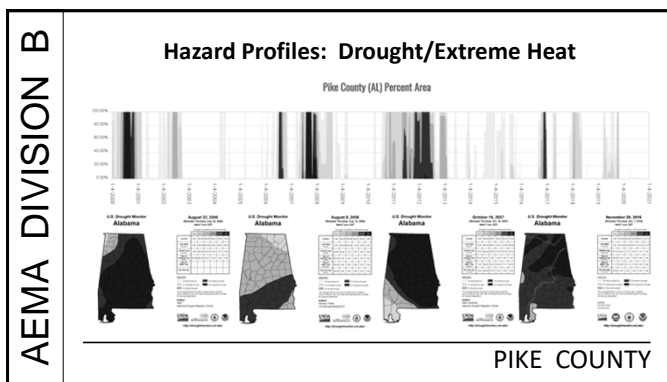
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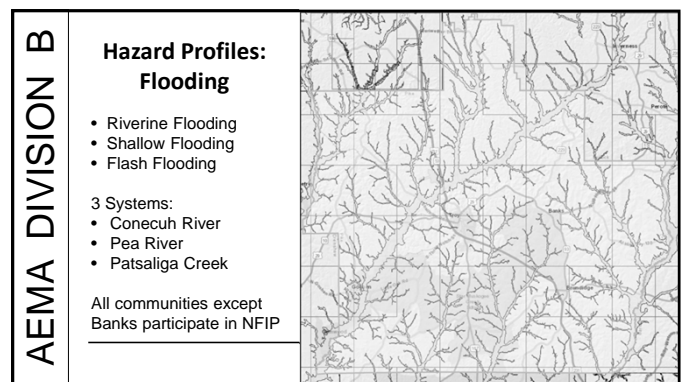
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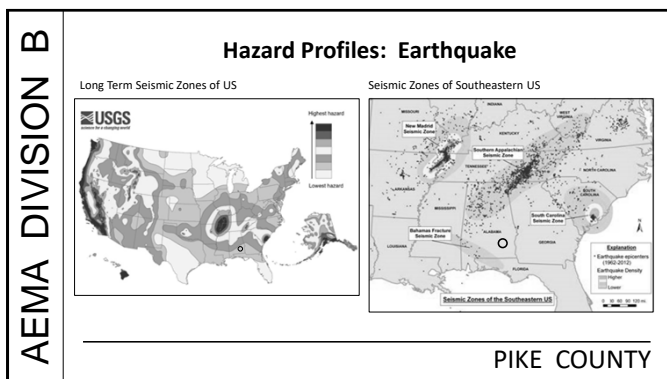
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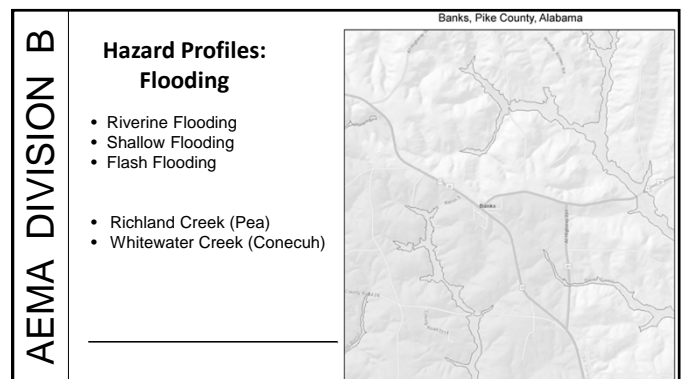
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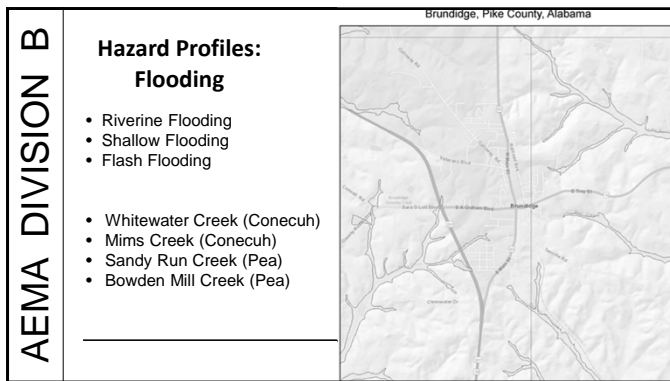


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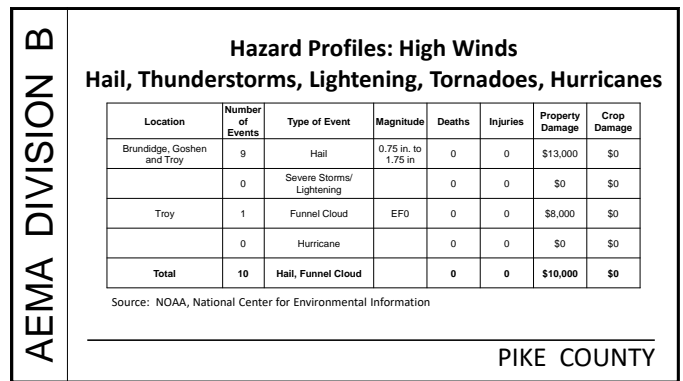


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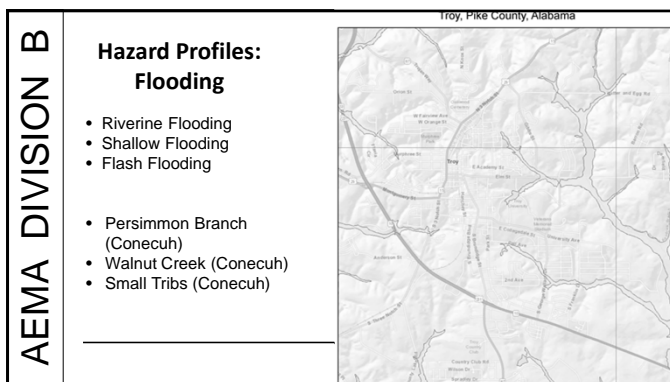




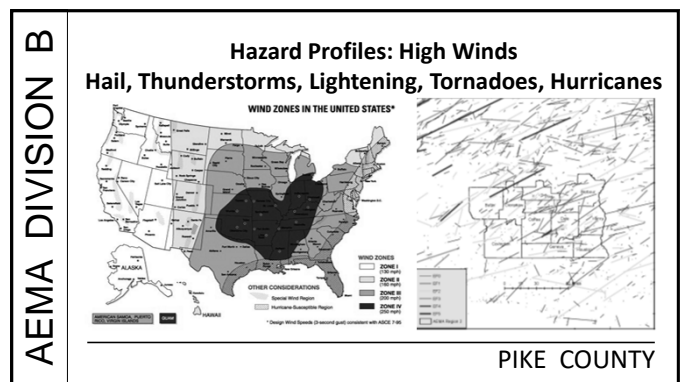
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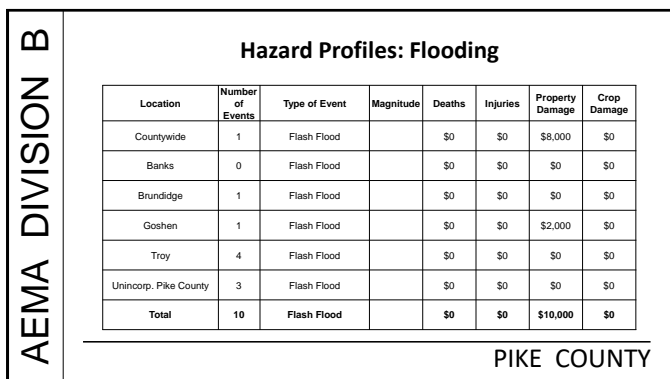
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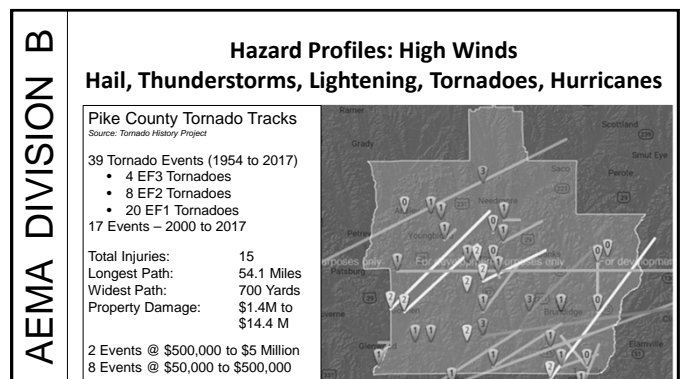
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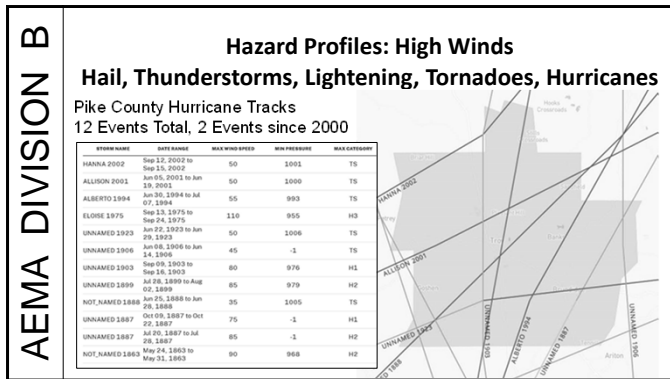
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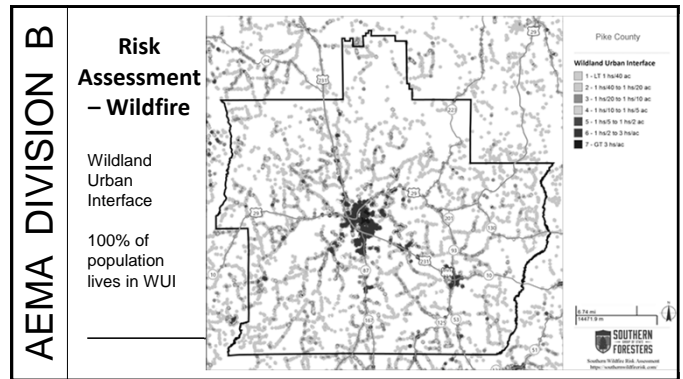
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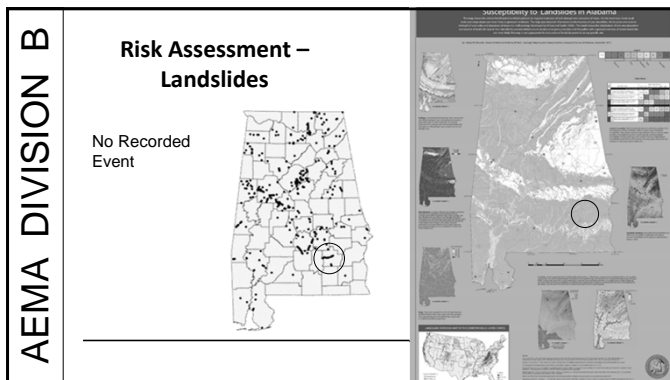
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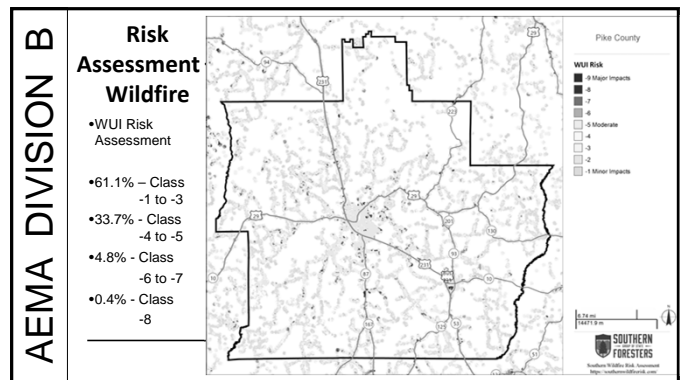
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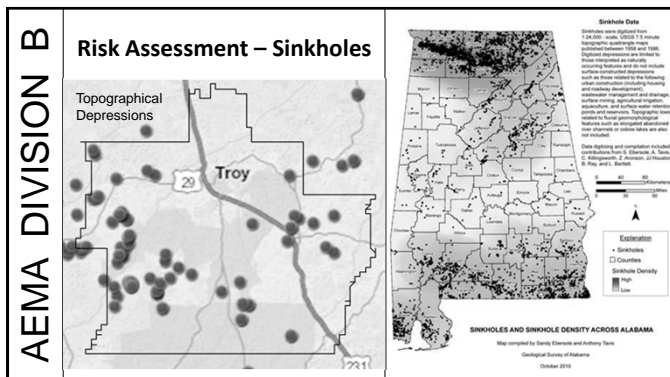
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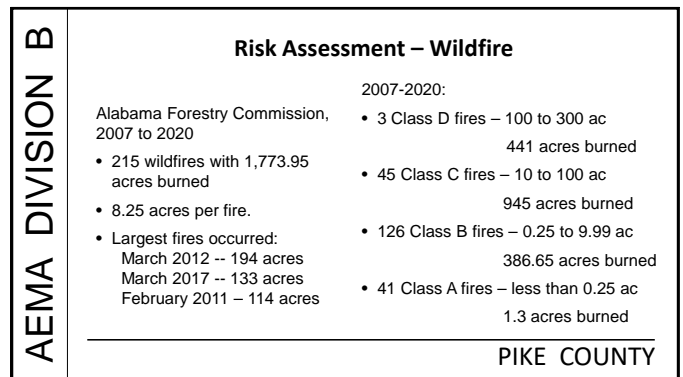
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AEMA DIVISION B	<b>Risk Assessment – Winter / Ice Storms</b>							
	Location	Date	Type	Mag.	Deaths	Injuries	Property Damage	Crop Damage
	Countywide	1/24/2003	Extreme Cold/ Wind Chill		0	0	\$0	\$0
	Countywide	1/6/2014	Cold/ Wind Chill		0	0	\$0	\$0
	Total		2 Events		0	0	\$0	\$0
PIKE COUNTY								

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AEMA DIVISION B

Critical Facilities

Designation of a facility as critical is based on the HAZUS definitions, as follows:

- Essential Facilities. These facilities are critical to the health and welfare of the entire county population and are essential following hazard events, including emergency response facilities (police, fire, and emergency management), medical care facilities (hospitals and other care facilities), schools, and shelters for evacuation.
- Lifeline Utility Systems. These facilities are essential lifelines that include potable water, wastewater, natural gas, electric, and communications systems. HAZUS data is not available for this county.
- Transportation Systems. These facilities include highways, bridges, railways, and waterways.
- High Potential Loss Facilities. These facilities include military installations and high potential loss dams.
- Hazardous Materials Facilities. These facilities may pose a threat if disrupted by natural hazards and include hazardous industrial chemicals, explosives, flammables, toxins, and radioactive materials.

PIKE COUNTY

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AEMA DIVISION B	<b>Risk Assessment – Probability</b>									
		Dam Failure	Drought	Earth quake	Flooding	High Winds	Land slides	Sink holes	Wild Fire	Winter Storms
	Locations	County	County	Outside County	County	County	County	County	WUI	County
	Extent	H, S, L	D0 to D4	I to XII	A to AE	EF 0-5 Cat 1-5	---	---	8.25 ac/fire	--
	Historical Occurrence	0 Events, 0 H, 0 S Dams	44 Events	0	10 Flash Flood Events	H-12 TS-0 T-39 H-9	0/?	Several	215/ 1,773.95 acres	2 Events
PIKE COUNTY										

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AEMA DIVISION B	<b>Critical Facilities</b>	
	<ul style="list-style-type: none"> <li>• <b>Fire and Rescue</b></li> <li>• <b>Law Enforcement</b></li> <li>• <b>Hospital / Health Department</b></li> <li>• <b>Schools</b></li> <li>• <b>Continuity of Government</b></li> <li>• <b>Utilities/Infrastructure</b></li> <li>• <b>High Impact Locations</b></li> </ul>	
	PIKE COUNTY	

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AEMA DIVISION B

Risk Assessment – Probability													
Natural Hazard	Probability		Impact		Location Extent		Warning Time		Duration		Weighted Score	Weighted Priority Ranking	
	Index Value 1 to 4	Weighted Factor 30%	Index Value 1 to 4	Weighted Factor 30%	Index Value 1 to 4	Weighted Factor 20%	Index Value 1 to 4	Weighted Factor 10%	Index Value 1 to 4	Weighted Factor 10%			
Dam Failure	1	0.3	2	0.6	1	0.2	2	0.2	1	0.1	1.4	8	
Drought/Heat	3	0.9	4	1.2	4	0.8	1	0.1	4	0.4	3.4	1/2	
Earthquake	0.5	0.15	0.5	0.15	0.5	0.1	4	0.4	1	0.1	0.9	11	
Flooding	4	1.2	4	1.2	2	0.4	3	0.3	3	0.3	3.4	1/2	
Hurricanes	3	0.9	4	1.2	4	0.8	1	0.1	2	0.2	3.2	4	
Tornados	4	1.2	4	1.2	2	0.4	4	0.4	1	0.1	3.3	3	
Thunderstorms	4	1.2	1	0.3	2	0.4	4	0.4	1	0.1	2.4	7	
Landslides	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	9/10	
Land Subsidence	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	9/10	
Wildfire	2.5	0.75	2	0.6	2	0.4	4	0.4	3	0.3	2.45	6	
Winter Storms	2.5	0.75	3	0.9	4	0.8	1	0.1	3	0.3	2.85	5	

PIKE COUNTY

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AEMA DIVISION B	<b>AEMA Division B Mitigation Goals - 2015</b>	
	<ol style="list-style-type: none"> <li>1. PREVENTION: Manage the development of land and buildings to minimize risk of life and property loss due to hazard events.</li> <li>2. PROPERTY PROTECTION: Protect structures and their occupants and contents from the damaging effects of hazard events.</li> <li>3. NATURAL RESOURCE PROTECTION: Preserve, rehabilitate, and enhance the beneficial functions of the natural environment to promote a balance between natural systems and social and economic demands .</li> <li>4. STRUCTURAL MITIGATION: Apply engineered structural modifications to natural systems and public infrastructure to reduce the potentially damaging impacts of hazards, where those modifications are feasible and environmentally suitable.</li> <li>5. EMERGENCY SERVICES: Improve the efficiency, timing, and effectiveness of response and recovery efforts for hazard events.</li> <li>6. EDUCATION AND AWARENESS: Educate and foster public awareness of hazards and techniques available for mitigation.</li> </ol>	
	PIKE COUNTY	

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AEMA DIVISION B	TOWN OF GOSHEN MITIGATION ACTION PLAN									
	Status			Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
	Yes	No	N/A							
C			✓	4	Installation of five individual safe rooms	High Winds	Pike County EMA	HMGP/ Private	Completed	N/A
O	✓			1.3	Continue participation in the NFIP through maintaining and administering the county's floodplain development regulations, enforcing subdivision regulations that minimize flood risk to new developments, participating in flood map updates, and providing flood risk information to the public.	Flooding	Town Administration/HFI P Coordinator	HMGP/FMA Local	Ongoing	High
				4	Facilitate the placement of additional safe rooms in community	High Winds	Pike County EMA	HMGP/ Private	High	High
				4	Construction of community safe rooms in critical locations	High Winds	Town Administration/Pike County EMA	ADSCA/ HMGP/ Local	High	Moderate
				4	Assess public facilities to determine how they can be retrofitted to withstand high wind events.	High Winds	Pike County EMA/Town Administration	Local	High	Moderate
				5	Procure and maintain generators for critical facilities	All	Town Administration/Pike County EMA	HMGP/ Local	High	Moderate
				2	Maintain the warning siren network through testing and upgrading equipment, as needed.	All	Pike County EMA	Local	Ongoing	High
				1.6	Distribution of weather alert radios to citizens	All	Pike County EMA	Local/ Private	High	High
				5	Placement of B-Con (Bleeding Control) stations in public buildings	All	Pike County EMA	DHS/ Local	High	High
				5	Acquisition of barricades and other traffic control devices for post-disaster management	All	Pike County EMA	DHS/ Local	High	High

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AEMA DIVISION B	Division B Hazard Mitigation Plan Update									
	Next Meeting: Public Hearing									
	<ul style="list-style-type: none"> <li>Review Draft</li> <li>Hazard Risk Assessment</li> <li>Hazard Mitigation Goals</li> <li>Jurisdiction Action Plans</li> </ul>									
										PIKE COUNTY

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AEMA DIVISION B	CITY OF TROY MITIGATION ACTION PLAN									
	Status			Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
	Yes	No	N/A							
O/H	✓			4	Installation of seven individual safe rooms	High Winds	Pike County EMA	HMGP/ Private	Completed	N/A
C			✓	5	Installation of emergency generator at Troy Regional Medical Center	All	Troy Regional Medical Center	Private	Completed	N/A
O	✓			1.3	Continue participation in the NFIP through maintaining and administering the county's floodplain development regulations, enforcing subdivision regulations that minimize flood risk to new developments, participating in flood map updates, and providing flood risk information to the public.	Flooding	City Administration/HFI P Coordinator	HMGP/FMA Local	Ongoing	High
C			✓	5	Through partnership with Troy City Schools placement of new fire station on Elba Highway to serve areas west of US Hwy 24A	All	City Administration	Local	Ongoing	High
C			✓	5	Completion of Empire Road Connector Project that will provide additional emergency accessibility to southeastern areas of Troy	All	City Administration	Local	Ongoing	Moderate
				4	Facilitate the placement of additional safe rooms in community	High Winds	Pike County EMA	HMGP/ Private	High	High
				4	Construction of community safe rooms in critical locations	High Winds	Pike County EMA/City Administration	HMGP/ Local	High	Moderate
N	✓		✓	4	Assess public facilities to determine how they can be retrofitted to withstand high wind events.	High Winds	Pike County EMA/City Administration	Local	High	Moderate
C			✓	5	Procure and maintain generators for critical facilities	All	City Administration/Pike County EMA	HMGP/ Local	High	Moderate
			✓	2	Maintain the warning siren network through testing and upgrading equipment, as needed.	All	Pike County EMA	Local	Ongoing	High
O	✓			1.6	Distribution of weather alert radios to citizens	All	Pike County EMA	Local/ Private	High	High
C	✓			5	Placement of B-Con (Bleeding Control) stations in public buildings	All	Pike County EMA	DHS/ Local	High	High

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AEMA DIVISION B	City of Troy, continued									
	Status			Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
	Yes	No	N/A							
O	✓			5	Acquisition of barricades and other traffic control devices for post-disaster management	All	Pike County EMA	DHS/ Local	High	High
O	✓				Develop of new communications tower to facilitate emergency communications between multiple agencies and jurisdictions	All	Pike County EMA/Pike County LEPC	Federal/ Local	High	Moderate
C			✓	5	Procurement of trailer for efficient transport of hazardous equipment to disasters	All	Troy Fire Department	Federal/ Local	High	High
				6	Placement of B-Con (Bleeding Control) stations in public buildings	All	Pike County EMA	DHS/ Local	High	High
AEMA DIVISION B	TROY CITY SCHOOLS MITIGATION ACTION PLAN									
	Status			Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
	Yes	No	N/A							
C	✓			4	Provide safe rooms or shelter spaces in school facilities for student and staff safety	High Winds	Troy City Schools	HMGP/Troy City Schools	High	Moderate
T	✓			5	Procure and maintain generators for critical facilities	All	Troy City Schools	HMGP/Troy City Schools	High	Moderate
C			✓	5	Placement of B-Con (Bleeding Control) stations in public buildings	All	Pike County EMA	DHS/ Local	High	High
			✓	5	Acquisition of barricades and other traffic control devices for post-disaster management	All	Pike County EMA	DHS/ Local	High	High

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## Pike County Hazard Mitigation Strategy Jurisdictional Action Plans

Status Abbreviations: C = Complete, O = Ongoing, N = Not Started

PIKE COUNTY MITIGATION ACTION PLAN										
Status	Validity in 2020			Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
	Yes	No	N/A							
				1,3	Continue participation in the NFIP through maintaining and administering the county's floodplain development regulations, enforcing subdivision regulations that minimize flood risk to new developments, participating in flood map updates, and providing flood risk information to the public	Flooding	NFIP Coordinator / Local Government Administration	HMGPF/FMA/ Local	High	High
				5	<del>Installation of emergency generator for Trojan Arena, used as a public shelter during disaster events</del>	High Winds	Troy University	Troy University	Completed	N/A
				5	Maintain membership in the Alabama Mutual Aid System	All	Pike County EMA	Local/EMPG	Ongoing	High
				5	Review the legal basis for the existing mutual aid compact to ensure that loaning/borrowing equipment and payment for supplies and services can be properly executed and transacted under the Code of Alabama and any related regulations	All	Pike County EMA / County Commission	Local	Ongoing	High
				1	Regularly gather data and determine needed revisions to accurately reflect local hazard events and impacts to Risk and Vulnerability assessment	All	Pike County EMA	HMGPF/Local	Ongoing	High
				1	Establish informal contacts to request data between various agencies. In the event an external organization requires more formal arrangements, a Memorandum of Understanding between the respective organizations will be considered	All	Pike County EMA	Local	Ongoing	High
				1	Maintain and review the local elements of the hazard mitigation plan as required by the Plan Maintenance section	All	Pike County EMA / LEPC	Local	Ongoing	High
				1	<del>Review status of related programs and determine if they are currently active or an anticipated update is needed</del>	All	Pike County EMA	Local	Ongoing	High
				1,5	Establish shared database where merchants can post locally available equipment and material. Conduct a feasibility study including the network design and procedures	All	Pike County EMA	Local	Ongoing	High
				5	Disperse equipment and supplies to pre-designated locations when winter storm warnings or advisories are issued	Winter Storm	Pike County EMA	Local	Ongoing	High



					Assess highly populated facilities to determine how they can be retrofitted to withstand high wind events	High Winds	Pike County EMA / Pike County Engineer	Local	Ongoing	Moderate
				6	<del>Circulate information regarding drought status to local governments, local utilities, and other interested agencies</del>	Drought / Extreme Heat	Pike County EMA	Local	Ongoing	High
				1	Participate in the Drought Response as applicable during a Drought Declaration	Drought / Extreme Heat	Pike County EMA	Local	Ongoing	High
				2	<del>Maintain</del> the warning siren network through testing and upgrading equipment, as needed	All	Pike County EMA	Local	Ongoing	High
				5	Procurement of emergency generators for critical facilities	All	Pike County EMA	HMGP/Local	High	Moderate
				4	Facilitate the installation of community safe rooms in needed areas	High Winds	Pike County EMA	HMGP/Local	High	Moderate
				4	Facilitate the installation of individual safe rooms	High Winds	Pike County EMA	HMGP/Local /Private	High	High
				1,6	Distribution of weather alert radios to citizens	All	Pike County EMA	Local/Private	High	High
				5	Placement of B-Con (Bleeding Control) stations in public buildings	All	Pike County EMA	DHS/Local	High	High
				5	Acquisition of barricades and other traffic control devices for post-disaster management	All	Pike County EMA	DHS/Local	High	High

Status Abbreviations: C = Complete, O = Ongoing, N = Not Started

PIKE COUNTY SCHOOLS MITIGATION ACTION PLAN										
Status	Validity in 2020			Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
	Yes	No	N/A							
				4	Provide safe rooms or shelter spaces in school facilities for student and staff safety	High Winds	Pike County Schools	HMGP/Pike Co Schools	High	Moderate
				5	Procure and maintain generators for critical facilities	All	Pike County Schools	HMGP/Pike Co Schools	High	Moderate
				5	Placement of B-Con (Bleeding Control) stations in public buildings	All	Pike County EMA	DHS/Local	High	High
				5	Acquisition of barricades and other traffic control devices for post-disaster management	All	Pike County EMA	DHS/Local	High	High

Status Abbreviations: C = Complete, O = Ongoing, N = Not Started

TOWN OF BANKS MITIGATION ACTION PLAN										
Status	Validity in 2020			Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
	Yes	No	N/A							
				4	Installation of one individual safe room	High Winds	Pike County EMA	HMGP/ Private	Completed	N/A
				4	Facilitate the placement of additional safe rooms in community	High Winds	Pike County EMA	HMGP/ Private	High	High
				4	Construction of community safe rooms in critical locations	High Winds	Pike County EMA	HMGP/ Local	High	Moderate
				4	Assess public facilities to determine how they can be retrofitted to withstand high wind events.	High Winds	Pike County EMA/Town Administration	Local	High	Moderate
				1,3	Adopt floodplain management regulations to meet NFIP requirements for reducing flood hazards	Flooding	Town Administration/NFIP Coordinator	Local	Medium	High
				5	Procure and maintain generators for critical facilities	All	Town Administration/Pike County EMA	HMGP/ Local	High	Moderate
				2	Maintain the warning siren network through testing and upgrading equipment, as needed.	All	Pike County EMA	Local	Ongoing	High
				1,6	Distribution of weather alert radios to citizens	All	Pike County EMA	Local/ Private	High	High
				5	Placement of B-Con (Bleeding Control) stations in public buildings	All	Pike County EMA	DHS/ Local	High	High
				5	Acquisition of barricades and other traffic control devices for post-disaster management	All	Pike County EMA	DHS/ Local	High	High

Status Abbreviations: C = Complete, O = Ongoing, N = Not Started

CITY OF BRUNDIDGE MITIGATION ACTION PLAN										
Status	Validity in 2020			Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
	Yes	No	N/A							
				4	Installation of three individual safe rooms	High Winds	Pike County EMA	HMGP/ Private	Completed	N/A
				1,3	Continue participation in the NFIP through maintaining and administering the county's floodplain development regulations, enforcing subdivision regulations that minimize flood risk to new developments, participating in flood map updates, and providing flood risk information to the public.	Flooding	City Administration/NFI P Coordinator	HMGP/FMA/ Local	Ongoing	High
				4	Facilitate the placement of additional safe rooms in community	High Winds	Pike County EMA	HMGP/ Private	High	High
				4	Construction of community safe rooms in critical locations	High Winds	Pike County EMA	HMGP/ Local	High	Moderate
				4	Assess public facilities to determine how they can be retrofitted to withstand high wind events.	High Winds	Pike County EMA/City Administration	Local	High	Moderate
				5	Procure and maintain generators for critical facilities	All	City Administration/Pike County EMA	HMGP/ Local	High	Moderate
				2	Maintain the warning siren network through testing and upgrading equipment, as needed.	All	Pike County EMA	Local	Ongoing	High
				1,6	Distribution of weather alert radios to citizens	All	Pike County EMA	Local/ Private	High	High
				5	Placement of B-Con (Bleeding Control) stations in public buildings	All	Pike County EMA	DHS/ Local	High	High
				5	Acquisition of barricades and other traffic control devices for post-disaster management	All	Pike County EMA	DHS/ Local	High	High

Status Abbreviations: C = Complete, O = Ongoing, N = Not Started

TOWN OF GOSHEN MITIGATION ACTION PLAN										
Status	Validity in 2020			Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
	Yes	No	N/A							
				4	Installation of five individual safe rooms	High Winds	Pike County EMA	HMGP/ Private	Completed	N/A
				1,3	Continue participation in the NFIP through maintaining and administering the county's floodplain development regulations, enforcing subdivision regulations that minimize flood risk to new developments, participating in flood map updates, and providing flood risk information to the public.	Flooding	Town Administration/NFI P Coordinator	HMGP/FMA/ Local	Ongoing	High
				4	Facilitate the placement of additional safe rooms in community	High Winds	Pike County EMA	HMGP/ Private	High	High
				4	Construction of community safe rooms in critical locations	High Winds	Town Administration/Pike County EMA	ADECA/ HMGP/ Local	High	Moderate
				4	Assess public facilities to determine how they can be retrofitted to withstand high wind events.	High Winds	Pike County EMA/Town Administration	Local	High	Moderate
				5	Procure and maintain generators for critical facilities	All	Town Administration/Pike County EMA	HMGP/ Local	High	Moderate
				2	Maintain the warning siren network through testing and upgrading equipment, as needed.	All	Pike County EMA	Local	Ongoing	High
				1,6	Distribution of weather alert radios to citizens	All	Pike County EMA	Local/ Private	High	High
				5	Placement of B-Con (Bleeding Control) stations in public buildings	All	Pike County EMA	DHS/ Local	High	High
				5	Acquisition of barricades and other traffic control devices for post-disaster management	All	Pike County EMA	DHS/ Local	High	High

Status Abbreviations: C = Complete, O = Ongoing, N = Not Started

CITY OF TROY MITIGATION ACTION PLAN										
Status	Validity in 2020			Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
	Yes	No	N/A							
				4	Installation of seven individual safe rooms	High Winds	Pike County EMA	HMGP/ Private	Completed	N/A
				5	<del>Installation of emergency generator at Troy Regional Medical Center</del>	All	Troy Regional Medical Center	Private	Completed	N/A
				1,3	Continue participation in the NFIP through maintaining and administering the county's floodplain development regulations, enforcing subdivision regulations that minimize flood risk to new developments, participating in flood map updates, and providing flood risk information to the public.	Flooding	City Administration/NFI P Coordinator	HMGP/FMA/ Local	Ongoing	High
				5	<del>Through partnership with Troy City Schools, placement of new fire station on Elba Highway to serve areas west of US Hwy 231</del>	All	City Administration	Local	Ongoing	High
				5	<del>Completion of Enzer Road Connector Project that will provide additional emergency accessibility to southeastern areas of Troy</del>	All	City Administration	Local	Ongoing	Moderate
				4	Facilitate the placement of additional safe rooms in community	High Winds	Pike County EMA	HMGP/ Private	High	High
				4	Construction of community safe rooms in critical locations	High Winds	Pike County EMA/City Administration	HMGP/Local	High	Moderate
				4	Assess public facilities to determine how they can be retrofitted to withstand high wind events.	High Winds	Pike County EMA/City Administration	Local	High	Moderate
				5	<del>Procure and maintain generators for critical facilities</del>	All	City Administration/Pike County EMA	HMGP/ Local	High	Moderate
				2	<del>Maintain</del> the warning siren network through testing and upgrading equipment, as needed.	All	Pike County EMA	Local	Ongoing	High
				1,6	Distribution of weather alert radios to citizens	All	Pike County EMA	Local/ Private	High	High
				5	Placement of B-Con (Bleeding Control) stations in public buildings	All	Pike County EMA	DHS/ Local	High	High



			5	Acquisition of barricades and other traffic control devices for post-disaster management	All	Pike County EMA	DHS/ Local	High	High
			5	Develop of new communications tower to facilitate emergency communications between multiple agencies and jurisdictions	All	Pike County EMA/Pike County LEPC	Federal/ Local	High	Moderate
			5	<del>Procurement of trailer for efficient transport of HazMat equipment to disasters</del>	All	Troy Fire Department	Federal/ Local	High	High
			<del>5</del>	<del>Placement of B-Con (Bleeding Control) stations in public buildings</del>	<del>All</del>	<del>Pike County EMA</del>	<del>DHS/ Local</del>	<del>High</del>	<del>High</del>

Status Abbreviations: C = Complete, O = Ongoing, N = Not Started

TROY CITY SCHOOLS MITIGATION ACTION PLAN										
Status	Validity in 2020			Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score
	Yes	No	N/A							
				4	Provide safe rooms or shelter spaces in school facilities for student and staff safety	High Winds	Troy City Schools	HMGP/Troy City Schools	High	Moderate
				5	Procure and maintain generators for critical facilities	All	Troy City Schools	HMGP/Troy City Schools	High	Moderate
				5	Placement of B-Con (Bleeding Control) stations in public buildings	All	Pike County EMA	DHS/Local	High	High
				5	Acquisition of barricades and other traffic control devices for post-disaster management	All	Pike County EMA	DHS/Local	High	High

# **Troy Messenger**

**Run Date – Thursday, July 23, 2020**

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## **HAZARD MITIGATION PUBLIC HEARING**

The Pike County Emergency Management Agency (EMA) Local Emergency Planning Committee (LEPC) is updating the county's hazard mitigation plan to further establish proactive hazard mitigation policies and actions that will help reduce risk and create a safer, more disaster resistant environment in Pike County. As part of the planning process, the Pike County EMA will be conducting an Open House Public Hearing. Participants will be able to attend at any time during the two-hour meeting time to review and comment on the proposed Southeast Alabama Hazard Mitigation Plan Update.

### **Hazard Mitigation Plan Update 2020 Open House Public Hearing**

**Monday, July 27, 2020 from 3:00 PM to 5:00 PM**

Pike County Commission Chambers

900 S. Franklin Drive, Troy, AL 36081

All Hazard Mitigation Planning meetings are open to the public and interested citizens are encouraged to attend. COVID-19 social distancing requirements will be in effect and no more than 10 attendees will be allowed in the room at one time. If you would like to attend the meeting and need special accommodations, please contact the Pike County EMA office, at 334-566-8272 or [hreeves@troy.edu](mailto:hreeves@troy.edu).



## ***HAZARD MITIGATION PUBLIC HEARING***

The Pike County Emergency Management Agency (EMA) Local Emergency Planning Committee (LEPC) is updating the county's hazard mitigation plan to further establish proactive hazard mitigation policies and actions that will help reduce risk and create a safer, more disaster resistant environment in Pike County. As part of the planning process, the Pike County EMA will be conducting an Open House Public Hearing. Participants will be able to attend at any time during the two-hour meeting time to review and comment on the proposed Southeast Alabama Hazard Mitigation Plan Update.

### **Hazard Mitigation Plan Update 2020**

#### **Open House Public Hearing**

**Monday, July 27, 2020**

**3:00 PM to 5:00 PM**

at the Pike County Commission Chambers  
located at 900 S. Franklin Drive, Troy, Alabama 36081

All Hazard Mitigation Planning meetings are open to the public and interested citizens are encouraged to attend. COVID-19 social distancing requirements will be in effect and no more than 10 attendees will be allowed in the room at one time. If you would like to attend the meeting and need special accommodations, please contact the Pike County EMA office, at 334-566-8272 or [hreeves@troy.edu](mailto:hreeves@troy.edu).

**AEMA DIVISION B HAZARD MITIGATION PLAN  
PIKE COUNTY PUBLIC HEARING – JULY 27, 2020**

**ATTENDANCE ROSTER**

*Please Sign In Below*

**Name:**

**Organization:**

**Phone:**

**E-mail:**

M. Kenzie Wilson	PCC	334-566-6374	mwilson@pikecommission.com
Dan Ford	Town of Goshen	334-268-2974	dford@traycable.net
Dorothy Whaley	ITC	334-268-6394	
Mark Brazell	PCC	334-268-2633	mbrazell@pikecountytechnical.com
Chris Thomas		(334) 268-2409	thomasc@trayschools.net
Mike Ste	Troy Fire	334-672-0080	michael.stephen@traycable.net
Will Wright	City of Brundage	(334) 344-0044	will.wright@traycable.net
Randall Barr	Troy PD	334-282-9221	randall.barr@pd.troyal.gov
Chad Copeland	PCC	334-268-1692	chad.copeland@traycable.com
Russell	PCC	334-372-1268	russell@cpitco.com
Stacy Graring	Messenger	334-372-7684	stacy.graring@traymessenger.com
H. R. R.	Pike Co. EMA	334-268-1389	hreeve@tray.edu
Chris Dozier	Pike Co. 9-1-1	334-670-6600	chris.dozier@pikecounty911.org
Russell Oliver	Pike Co. Rd Dept	334-566-4508	engineer@pikecommission.com



# Pike County Hazard Mitigation

## Disaster Mitigation Act of 2000

The purpose of the Stafford Act, as amended by the Disaster Mitigation Act of 2000, is "to reduce the loss of life and property, human suffering, economic disruption, and disaster assistance costs resulting from natural disasters."

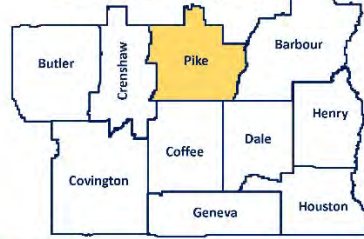
Section 322 of the Act specifically addresses mitigation planning and requires state and local governments to prepare multi-hazard mitigation plans as a precondition for receiving FEMA mitigation project grants.

- Requires that each local government prepare and adopt a multi-hazard mitigation plan
- Must have an adopted hazard mitigation plan to be eligible for disaster recovery funds in the event of a natural disaster
- Hazard mitigation plan must be maintained and updated every five years

## Alabama Emergency Management Agency Divisions

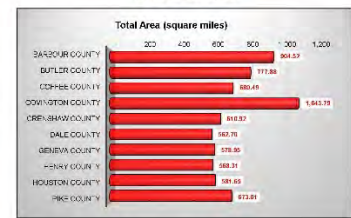


## AEMA Division B 10 Counties, 70+ Municipalities

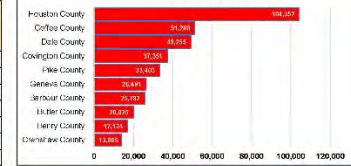


Jurisdiction	2000 Census Population	2010 Census Population	% Change, 2000 to 2010	2018	% Change 2010 to 2018
Pike County	29,605	32,899	11.13%	33,403	1.53%
Town of Banks	224	179	-20.09%	157	-12.29%
City of Brundidge	2,341	2,076	-11.32%	2,295	10.55%
Town of Goshen	300	266	-11.33%	223	-16.17%
City of Troy	13,935	18,033	29.41%	19,141	6.14%
AEMA Division B	354,943	378,812	6.72%	378,936	0.03%
Alabama	1,751,897	4,779,735	172.83%	4,864,680	1.78%

## AEMA Division B Characteristics



## 2018 Population by County



## Natural Hazard:

a threat of a naturally occurring event that will have a negative effect on people or the environment

**Hazard Mitigation** reduces disaster damages and is defined as sustained action taken to reduce or eliminate the long-term risk to human life and property from hazards.

- Increase risk awareness
- Protect critical facilities
- Removal of structures from flood hazard areas
- Mitigation savvy development codes and regulations

## Mitigation Strategy:

broad actions that help to further define mitigation goals and outline actions necessary to address a natural hazard

## Pike County FEMA Disaster Declarations, 1953 to 2020

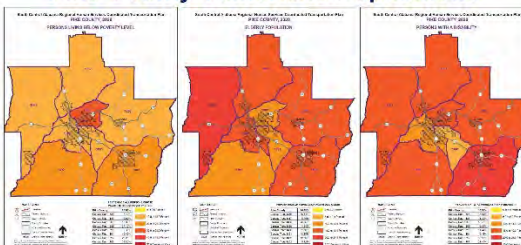
Alabama = 90 Disaster Events; AEMA Division B = 32 Disaster Events; Pike County = 17 Disaster Events

Declaration Date	Disaster Number	Type of Incident	Individual Assistance	Public Assistance
3/14/1975	DR-458	Severe Storms, Flooding	X	X
10/2/1975	DR-488	Severe Storms, Tornadoes, Flooding	X	X
7/20/1977	EM-3045	Drought		X
3/21/1990	DR-861	Severe Storms, Tornadoes, Flooding	X	X
3/15/1993	EM-3096	Severe Snowfall, Winter Storm		X
10/4/1995	DR-1070	Hurricane Opal	X	X
9/15/2004	DR-1549	Hurricane Ivan	X	X
9/10/2005	EM-3237	Hurricane Katrina		X
8/30/2008	EM-3292	Hurricane Gustav		X
12/31/2009	DR-1870	Severe Storms and Flooding		X
4/27/2011	EM-3319	Severe Storms, Tornadoes, Straight-line Winds		X
4/28/2011	DR-1971	Severe Storms, Tornadoes, Straight-line Winds, Flooding		X
1/21/2016	DR-4251	Severe Storms, Tornadoes, Straight-line Winds, Flooding		X
9/11/2017	EM-3389	Hurricane Irma		X
10/8/2017	EM-3394	Hurricane Nate		X
10/12/2018	DR-3407	Hurricane Michael		X
7/10/2020	DR-4554	Severe Storms, Straight-line Winds, and Tornadoes		X

## Division B Storm Events, 2000 to 2020

Location	Number of County/Zone Areas Affected	Number of Days with Event	Number of Days with Death or Injury	Number of Days with Property Damage	Number of Days with Crop Damage	Number of Event Types reported
Barbour County	2	143	0	3	43	1
Butler County	2	85	2	5	55	0
Coffee County	2	176	3	8	94	0
Covington County	2	134	3	5	81	0
Crenshaw County	2	93	0	0	60	0
Dale County	3	229	1	4	130	0
Geneva County	2	160	1	3	86	0
Henry County	2	163	1	4	82	0
Houston County	2	209	3	8	130	0
<b>Pike County</b>	<b>2</b>	<b>129</b>	<b>0</b>	<b>4</b>	<b>39</b>	<b>0</b>

## Pike County Vulnerable Populations



## Natural Hazard Risk Assessment

PROBABILITY	Dam Failure	Drought	Earth quake	Flooding	High Winds	Land slides	Sink holes	Wildfire	Winter Storms
Locations	County	County	Outside County	County	County	North County	County	WUI	County
Extent	H, S, L	D0 to D4	I to XII	A to AE	EF 0-5 Cat 1-5	---	---	5.59 ac/fire	---
Historical Occurrence	0 Events, 1 H, 4 S Dams	4 Events	0	13 Events	H-16 TS-72 T-16 H-12	0	Several	239/ 1,336.7 acres	6 Events
Probability of Future Events	Low	Medium	Very Low	High	High	Low	Low	Medium	Medium

PRIORITY STATUS	Probability		Impact		Location Extent		Warning Time		Duration		Weighted Score	Weighted Priority Ranking
	Index Value 1 to 4	Weighted Factor 30%	Index Value 1 to 4	Weighted Factor 30%	Index Value 1 to 4	Weighted Factor 20%	Index Value 1 to 4	Weighted Factor 10%	Index Value 1 to 4	Weighted Factor 10%		
Dam Failure	1	0.3	2	0.6	1	0.2	2	0.2	1	0.1	1.4	8
Drought/ Extreme Heat	3	0.9	4	1.2	4	0.8	1	0.1	4	0.4	3.4	1/2
Earthquake	0.5	0.15	0.5	0.15	0.5	0.1	4	0.4	1	0.1	0.9	11
Flooding	4	1.2	4	1.2	2	0.4	3	0.3	3	0.3	3.4	1/2
Hurricanes	3	0.9	4	1.2	4	0.8	1	0.1	2	0.2	3.2	4
Tornadoes	4	1.2	4	1.2	2	0.4	4	0.4	1	0.1	3.3	3
Thundersstorms	4	1.2	1	0.3	2	0.4	4	0.4	1	0.1	2.4	7
Landslides	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	9/10
Land Subsidence	1	0.3	1	0.3	1	0.2	4	0.4	1	0.1	1.3	9/10
Wildfire	2.5	0.75	2	0.6	2	0.4	4	0.4	3	0.3	2.45	6
Winter Storms	2.5	0.75	3	0.9	4	0.8	1	0.1	3	0.3	2.85	5

## AEMA Division B Hazard Mitigation Goals

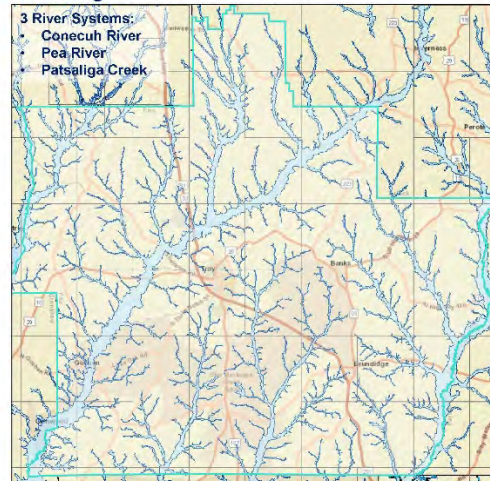
- PREVENTION:** Manage the development of land and buildings to minimize risk of life and property loss due to hazard events.
- PROPERTY PROTECTION:** Protect structures and their occupants and contents from the damaging effects of hazard events.
- NATURAL RESOURCE PROTECTION:** Preserve, rehabilitate, and enhance the beneficial functions of the natural environment to promote a balance between natural systems and social and economic demands.
- STRUCTURAL MITIGATION:** Apply engineered structural modifications to natural systems and public infrastructure to reduce the potentially damaging impacts of hazards, where those modifications are feasible and environmentally suitable.
- EMERGENCY SERVICES:** Improve the efficiency, timing, and effectiveness of response and recovery efforts for hazard events.
- EDUCATION AND AWARENESS:** Educate and foster public awareness of hazards and techniques available for mitigation.



# gation Plan Update 2020

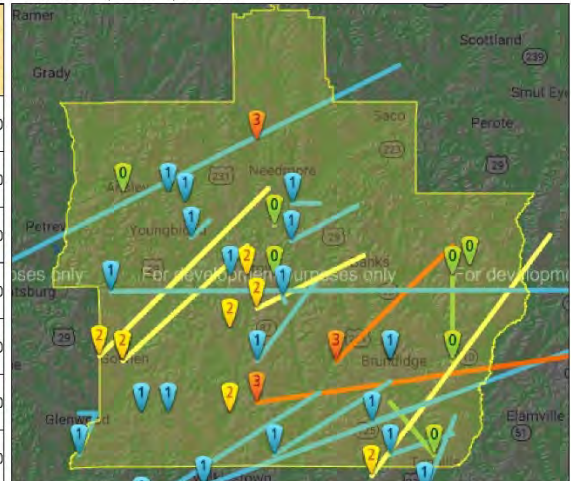
## High Priority Hazards

### 1. Flooding – 10 flash flood events since 2000

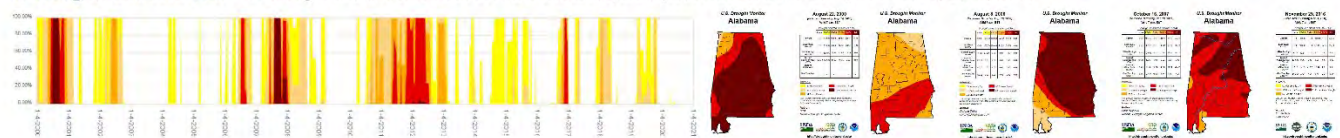


### 2. Tornadoes – 25 tornadoes since 2000, 2 EF2, 11 EF1, 12 EF0

Location	Number	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Countywide	0		\$0	\$0	\$0	\$0
Banks	0		0	0	\$0	\$0
Brundidge	1	EF1	0	0	\$0	\$0
Goshen	2	EF2	0	0	\$0	\$0
Troy	7	EF1	0	0	\$99,000	\$0
Unincorp. Pike County	15	EF2	0	0	\$664,000	\$0
Total	25		0	0	\$763,000	\$0



### 3. Drought / Extreme Heat – 44 drought and extreme heat events since 2000; 2006, 2007-2008, 2010-2011, 2011-2013, 2016, 2018



FLOODING	Number	Type	Deaths	Injuries	Property Damage	Crop Damage
Countywide	1	Flash	\$0	\$0	\$8,000	\$0
Banks	0	Flash	\$0	\$0	\$0	\$0
Brundidge	1	Flash	\$0	\$0	\$0	\$0
Goshen	1	Flash	\$0	\$0	\$2,000	\$0
Troy	4	Flash	\$0	\$0	\$0	\$0
Unincorporated	3	Flash	\$0	\$0	\$0	\$0
Total	10 Flash Floods		\$0	\$0	\$10,000	\$0

TORNADOES	Number	Mag.	Deaths	Injuries	Property Damage	Crop Damage
Banks	0		0	0	\$0	\$0
Brundidge	2	EF1	0	0	\$0	\$0
Glenwood	0		0	0	\$0	\$0
Goshen	0		0	0	\$0	\$0
Troy	3	EF0-EF1	0	7	\$0	\$0
Unincorporated	12	EF0-EF2	0	2	\$0	\$0
Total	17	EF0-EF2	0	9	\$0	\$0

COUNTYWIDE DROUGHT	Event Type	Deaths	Injuries	Property Damage	Crop Damage
7/2006-9/2006	Drought	0	0	\$0	\$0
6/2007-2/2008	Drought/Heat	0	0	\$0	\$0
9/2010-2/2011	Drought	0	0	\$0	\$0
5/2011-8/2012	Drought	0	0	\$0	\$0
11/2012-2/2013	Drought/Heat	0	0	\$0	\$0
10/2016-1/2017	Drought	0	0	\$0	\$0
1/2018-2/2018	Drought	0	0	\$0	\$0
44 Drought Events, 3 Heat Events		0	0	\$0	\$0

## Medium Priority Hazards

### 4. Hurricanes

6 Total Events, 2 Tropical Depressions, 4 Tropical Storms, 2000 to 2020



### 5. Winter / Ice Storms, 2000 to 2020

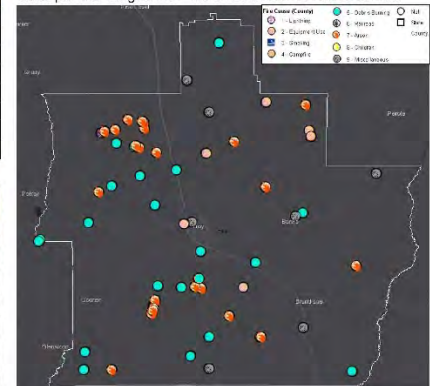
Location	Date	Type	Deaths	Injuries	Property Damage	Crop Damage
Countywide	1/2/2002	Heavy Snow	0	0	\$0	\$0
Countywide	1/24/2003	Extreme Cold/Wind Chill	0	0	\$0	\$0
Countywide	2/12/2010	Heavy Snow	0	0	\$0	\$0
Countywide	12/15/2010	Winter Weather	0	0	\$0	\$0
Countywide	1/5/2011	Ice Storm	0	0	\$0	\$0
Countywide	1/6/2014	Cold/Wind Chill	0	0	\$0	\$0
Countywide	1/28/2014	Winter Weather	0	0	\$0	\$0
Total	7 Countywide Events		0	0	\$0	\$0

### 7. Thunderstorms, 2000 to 2020

Location	Number	Type	Mag.	Deaths	Inj.	Property Damage	Crop Damage
Countywide	6	Heavy Rain, Strong Winds, Thunderstorm	33-65	0	0	\$3,009,000	\$0
Banks	2	Hail, Thunderstorm	0.75, 50	0	0	\$1,000	\$0
Brundidge	7	Hail, Thunderstorm	0.88, 53	0	0	\$181,000	\$0
Goshen	8	Hail, Thunderstorm	1.75, 65	0	0	\$22,000	\$0
Troy	25	Hail, Thunderstorm, Lightning	1.75, 59	0	0	\$132,750	\$0
Unincorporated	28	Hail, Thunderstorm, Heavy Rain	1.75, 50	0	0	\$51,000	\$0
Total	76 Events			0	0	\$3,376,750	\$0

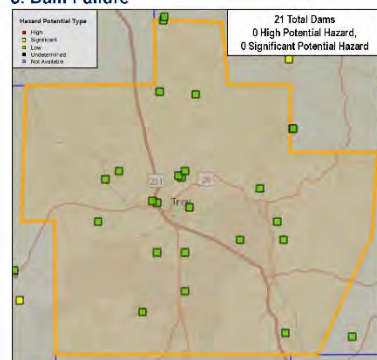
### 6. Wildfire

215 wildfires from 2007 to 2020 with 1,773.95 acres burned, or 8.25 acres per fire. Largest fire = March 2012 with 194 acres burned.



## Low Priority Hazards

### 8. Dam Failure



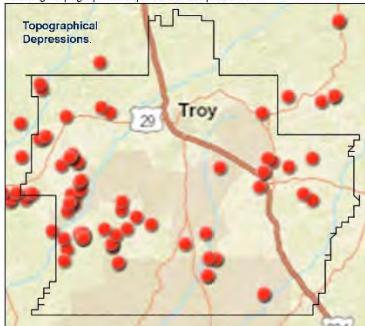
### 9. Landslides

No recorded event of landslides in Pike County.



### 10. Land Subsidence

No recorded event of land subsidence or sinkholes in Pike County, although topographical depressions are present.



### 11. Earthquakes





# Pike County Hazard Mitigation Strategy Review

2020 Validity		Goal	Action Description	Hazards Addressed	Lead Agency	Funding Source	Priority / Status	Benefit / Cost Score	Pike County Schools	Banks	Brundidge	Goshen	Troy	City of Troy Schools	Troy University
Status	Y	N	N/A												
O	✓			1	Establish informal contacts to request data between various agencies. In the event an external organization requires more formal arrangements, a Memorandum of Understanding between the respective organizations will be considered.	Pike County EMA	Local	Ongoing	X						
O	✓			1	Maintain and review the local elements of the hazard mitigation plan as required by the Plan Maintenance section.	Pike County EMA / LEPC	Local	Ongoing	X						
O	✓			1	Regularly gather data and determine needed revisions to accurately reflect local hazard events and impacts to Risk and Vulnerability assessment.	Pike County EMA	HMGP/Local	Ongoing	X						
		✓		1	Review status of related programs and determine if they are currently active or an anticipated update is needed.	Pike County EMA	Local	Ongoing	X						
O/N	✓			1	Participate in the Drought Response, as applicable, during a Drought Declaration.	Pike County EMA	Local	Ongoing	X						
N	X			1	Limit economic development activity in areas with a risk for landslides and land subsidence.	Local Planning and Building Officials	Local	High	X	X	X	X	X		
N	X			1	Further investigate areas of topographical depressions to evaluate local risk for land subsidence or sinkholes.	Pike County EMA, Pike County Engineer	Local	Medium	X						
N	X			1	Support Pike County EMA efforts to investigate areas of topographical depressions to evaluate local risk for land subsidence or sinkholes.	Pike County EMA, Pike County Engineer	Local	Medium	X	X	X	X	X		
N	X			1	Identify at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.	LEPC, Local Coordinator	Local	High	X	X	X	X	X	X	
N	X			1	Organize outreach to vulnerable populations, including establishing and promoting accessible heating centers in the community.	LEPC, Local Coordinator	Local	High	X	X	X	X	X	X	
O	✓			2	Maintain the warning siren network through testing and upgrading equipment, as needed.	Pike County EMA	Local	Ongoing	X	X	X	X	X		
N	✓			2	Help mitigate flood risks on flood-prone roads by elevating roadways and installation of drainageways/drainage improvements.	Pike County EMA/Pike County Engineering	HMGP/Local	Ongoing	Moderate	X					
N	✓			2	Investigate means to mitigate flooding of Mims Creek onto residential properties on Johnson and Gilmore Streets.	Pike County EMA/Local Govt Administration	HMGP/Local	Ongoing	Moderate		X				
N	X			2	Conduct an inventory of locations where critical facilities, other buildings, and infrastructure are vulnerable to landslides.	Pike County EMA / SCADC	Local	Medium	X	X	X	X	X		
N	X			2	Incorporate landslide and land subsidence potential into natural hazard education and awareness activities.	Pike County EMA, LEPC	Local	Medium	X	X	X	X	X	X	
N	X			3	Assess vegetation in wildfire-prone areas to prevent landslides after fires.	Pike County EMA, Alabama Forestry Commission	Local	Medium	X	X	X	X	X		
O	X			4	Provide isolation rooms in school facilities for pandemic children until they can be picked up.	Pike County Schools	HMGP/Local	High	Moderate	X				X	X
N	X			4	Initiate local inventory of existing publicly- and privately-owned dams and record individual dam characteristics.	Pike County EMA, Pike County Engineer, Local Building Officials	Local	Medium	High	X	X	X	X	X	
N	X			4	Support Alabama Office of Water Resources efforts to record existing dams and their characteristics on a statewide basis.	Pike County EMA, Pike County Engineer, Local Building Officials	Local	Medium	High	X	X	X	X		
N	✓			4	Assess public and highly populated facilities to determine how they can be retrofitted to withstand high wind events.	Pike County EMA / Pike County Engineer/Local Govt Administration	Local	High	Moderate	X	X	X	X	X	
O	✓			4	Construction of community safe rooms in critical locations	Pike County EMA/Local Govt Administration	ADCA/HMGP/Local	High	Moderate		X	X	X		
O	✓			4	Facilitate the installation of community safe rooms in needed areas	Pike County EMA	HMGP/Local	High	Moderate	X					
O	✓			4	Facilitate the installation of individual safe rooms	Pike County EMA	HMGP/Local/Private	High	High	X					
O	X			4	Facilitate the placement and construction of additional safe rooms on campus	Pike EMA, Troy University	HMGP/University	High	Moderate						X
N	✓			4	Facilitate the placement of additional safe rooms in community	Pike County EMA	HMGP/Private	High	High		X	X	X		
C		✓		4	Installation of five individual safe rooms	Pike County EMA	HMGP/Private	Completed	N/A			X			
C		✓		4	Installation of one individual safe room	Pike County EMA	HMGP/Private	Completed	N/A		X				
O/N	✓			4	Installation of seven individual safe rooms	Pike County EMA	HMGP/Private	Completed	N/A				X		
C		✓		4	Installation of three individual safe rooms	Pike County EMA	HMGP/Private	Completed	N/A		X				
O/O	✓			4	Provide safe rooms or shelter spaces in school facilities for student and staff safety	Pike County Schools/Troy City Schools	HMGP/Pike Co Schools/Troy City Schools	High	Moderate	X				X	
O	✓			5	Acquisition of barricades and other traffic control devices for post-disaster management	Pike County EMA	DHS/Local	High	High				X		
N	✓			5	Acquisition of barricades and other traffic control devices for post-disaster management.	Pike County EMA	DHS/Local	High	High	X	X	X	X		
C		✓		5	Completion of Erievest Road Connector Project that will provide additional emergency accessibility to southeastern areas of Troy.	City Administration	Local	Ongoing	Moderate						
O	✓			5	Develop of new communications tower to facilitate emergency communications between multiple agencies and jurisdictions	Pike County EMA/Pike County LEPC	Federal/ Local	High	Moderate					X	
C		✓		5	Installation of emergency generator at Troy Regional Medical Center	Troy Regional Medical Center	Private	Completed	N/A					X	
C	✓			5	Maintain B-Con (Bleeding Control) stations in public buildings	Pike County EMA	DHS/Local	High	High					X	
?				5	Maintain membership in the Alabama Mutual Aid System	Pike County EMA	Local/EMPG	Ongoing	High	X					
O/O	✓			5	Placement and maintenance of B-Con (Bleeding Control) stations in public buildings	Pike County EMA	DHS/Local	High	High	X	X	X	X	X	X
O/N	✓			5	Procure and maintain generators for critical facilities	Pike County EMA, DHS, Schools, Local University	HMGP/Pike Co Schools	High	Moderate	X	X	X	X	X	X





# Draft Review Comment Form

Name: \_\_\_\_\_ County: \_\_\_\_\_

Organization: \_\_\_\_\_

Daytime Phone: \_\_\_\_\_ Email: \_\_\_\_\_

1. Do you agree with the Pike County natural hazard risk assessment and Hazard Probability Status as presented in the Pike County portion of the Southeast Alabama Regional Hazard Mitigation Plan? \_\_\_\_\_ Yes \_\_\_\_\_ No  
If no, why not? \_\_\_\_\_

2. Do you agree with the Pike County natural hazard priority status as presented in the Pike County portion of the Southeast Alabama Regional Hazard Mitigation Plan? \_\_\_\_\_Yes\_\_\_\_\_No  
If no, why not?\_\_\_\_\_

3. Please list any additional natural hazard mitigation strategies that you feel need to be included in the Pike County Hazard Mitigation Plan.

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**Southeast Alabama Regional Hazard Mitigation Plan  
Pike County  
Draft Review Comment Form**

Name: Willie Wright County: Pike  
Organization: City of Brundidge  
Daytime Phone: (334) 735-2385 Email: willie.wright@tracyble.com

1. Do you agree with the Pike County natural hazard risk assessment and Hazard Probability Status as presented in the Pike County portion of the Southeast Alabama Regional Hazard Mitigation Plan? ☒ Yes ☐ No

If no, why not? \_\_\_\_\_

2. Do you agree with the Pike County natural hazard priority status as presented in the Pike County portion of the Southeast Alabama Regional Hazard Mitigation Plan? ☒ Yes ☐ No

If no, why not? \_\_\_\_\_

3. Please list any additional natural hazard mitigation strategies that you feel need to be included in the Pike County Hazard Mitigation Plan.

N/A

**Southeast Alabama Regional Hazard Mitigation Plan  
Pike County  
Draft Review Comment Form**

Name: RANDALL BARR County: PIKE  
Organization: TROY POLICE DEPARTMENT  
Daytime Phone: 334-670-2227 Email: randall.barr@pd.troyal.gov

1. Do you agree with the Pike County natural hazard risk assessment and Hazard Probability Status as presented in the Pike County portion of the Southeast Alabama Regional Hazard Mitigation Plan? X Yes \_\_\_\_\_ No \_\_\_\_\_

If no, why not? \_\_\_\_\_

2. Do you agree with the Pike County natural hazard priority status as presented in the Pike County portion of the Southeast Alabama Regional Hazard Mitigation Plan? X Yes \_\_\_\_\_ No \_\_\_\_\_

If no, why not? \_\_\_\_\_

3. Please list any additional natural hazard mitigation strategies that you feel need to be included in the Pike County Hazard Mitigation Plan.

N/A



**Southeast Alabama Regional Hazard Mitigation Plan  
Pike County  
Draft Review Comment Form**

Name: Herbert Reeves County: Pike  
Organization: Pike Co. EMA  
Daytime Phone: 334/268-1389 Email: hreeves@troy.edu

1. Do you agree with the Pike County natural hazard risk assessment and Hazard Probability Status as presented in the Pike County portion of the Southeast Alabama Regional Hazard Mitigation Plan? ☒ Yes ☐ No

If no, why not? \_\_\_\_\_

2. Do you agree with the Pike County natural hazard priority status as presented in the Pike County portion of the Southeast Alabama Regional Hazard Mitigation Plan? ☒ Yes ☐ No

If no, why not? \_\_\_\_\_

3. Please list any additional natural hazard mitigation strategies that you feel need to be included in the Pike County Hazard Mitigation Plan.

No Others-



## Draft Review Comment Form

Name: Michael Stephens County: Pike

Organization: City of Troy

Daytime Phone: 334-672-0080 Email: Michael.Stephens@troy.al.gov

1. Do you agree with the Pike County natural hazard risk assessment and Hazard Probability Status as presented in the Pike County portion of the Southeast Alabama Regional Hazard Mitigation Plan? Yes Yes \_\_\_\_\_ No \_\_\_\_\_  
If no, why not? \_\_\_\_\_

2. Do you agree with the Pike County natural hazard priority status as presented in the Pike County portion of the Southeast Alabama Regional Hazard Mitigation Plan? Yes No  
If no, why not? \_\_\_\_\_

3. Please list any additional natural hazard mitigation strategies that you feel need to be included in the Pike County Hazard Mitigation Plan.

**Southeast Alabama Regional Hazard Mitigation Plan  
Pike County  
Draft Review Comment Form**

Name: Cynthia Thomas County: Pike  
Organization: Troy City Schools  
Daytime Phone: (334) 268-2409 Email: thomas@troyschools.net

1. Do you agree with the Pike County natural hazard risk assessment and Hazard Probability Status as presented in the Pike County portion of the Southeast Alabama Regional Hazard Mitigation Plan? ☒ Yes ☐ No

If no, why not? \_\_\_\_\_

2. Do you agree with the Pike County natural hazard priority status as presented in the Pike County portion of the Southeast Alabama Regional Hazard Mitigation Plan? ☒ Yes ☐ No

If no, why not? \_\_\_\_\_

3. Please list any additional natural hazard mitigation strategies that you feel need to be included in the Pike County Hazard Mitigation Plan.

none at this time



**Southeast Alabama Regional Hazard Mitigation Plan  
Pike County  
Draft Review Comment Form**

Name: Mark Bazzell County: Pike County  
Organization: Pike County Board of Education  
Daytime Phone: 334-268-2633 Email: mbazzell@pikecountyschools.com

1. Do you agree with the Pike County natural hazard risk assessment and Hazard Probability Status as presented in the Pike County portion of the Southeast Alabama Regional Hazard Mitigation Plan? X Yes \_\_\_\_\_ No \_\_\_\_\_

If no, why not? \_\_\_\_\_

2. Do you agree with the Pike County natural hazard priority status as presented in the Pike County portion of the Southeast Alabama Regional Hazard Mitigation Plan? X Yes \_\_\_\_\_ No \_\_\_\_\_

If no, why not? \_\_\_\_\_

3. Please list any additional natural hazard mitigation strategies that you feel need to be included in the Pike County Hazard Mitigation Plan.

Public schools need funding for "Safe Spaces" to  
be constructed at each campus.

Tornadoes pose our biggest threat to life.

Mark Bazzell

Name: Michael Darren Jordan County: Pike  
Organization: Town of Gosner  
Daytime Phone: 334-268-0974 Email: gosneral@traycable.net

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# Division B

## Quarterly Meeting Agenda

Division B EOC Troy University  
225 McKinley Dr. Troy, Alabama  
01/30/2020 10:00 a.m.

### I. Welcome and Introductions

### II. AEMA

Director Hastings  
Sheldon Hutcherson- Communications

### III. NWS:

Tallahassee

Mobile

Birmingham

### IV. AAEM:

James Brown *Dr NW? Troy U GIS working with James @ Coffee Co.*

### V. New Business/ Update from Counties

### VI. Date for next quarterly meeting:

*Coovington County EMA shelter*

### VII. Dates of significance:

State Hurricane Exercise: May 12, 2020

**Lunch provided by Troy University GOOO Trojans!!!!**

### VIII. Division Initial Planning Meeting for Hazard Mitigation Plan

**PDMC-04-AL-2018-005 - AEMA DIVISION B HAZARD MITIGATION PLAN  
COFFEE COUNTY STAKEHOLDER MEETING – June 16, 2020  
AGENDA**

1. Introduction
2. Discussion of Plan Update – Regional Plan
  - Distribution of Plan via email
  - Discussion of Natural Hazards
  - Discussion of Mitigation Section Updates
3. Next Meeting



**ATTENDANCE ROSTER: Please Sign In Below**

Bryn New Brighton 447-9391 newbrb2@trycable.net

**PDMC-04-AL-2018-005 - AEMA DIVISION B HAZARD MITIGATION PLAN**  
**Covington COUNTY STAKEHOLDER MEETING – July 7, 2020**  
**AGENDA**

1. Introduction
2. Discussion of Plan Update – Regional Plan
  - Distribution of Plan via email
  - Discussion of Natural Hazards
  - Discussion of Mitigation Section Updates
3. Next Meeting

**ATTENDANCE ROSTER: Please Sign In Below**

**E-mail:**

Andre Vank	SAPPOR	331-794-4093	avank@vank.com
Jason Bryn	OPP	764-5075	jbryn@atfopp.com
Jeph Pugh	CITY OF ANDAMASCO	804-2183	glyncralls@cityofandamasco.com
FRANK SHAFFER	CEMA	334-428-2670	frank.shaffer@covco.com
Susan Huis	CEMA	334-428-2670	ema@covco.com

**PDMC-04-AL-2018-005 - AEMA DIVISION B HAZARD MITIGATION PLAN**  
**Covington COUNTY STAKEHOLDER MEETING – July 7, 2020**  
**AGENDA**

1. Introduction
2. Discussion of Plan Update – Regional Plan
  - Distribution of Plan via email
  - Discussion of Natural Hazards
  - Discussion of Mitigation Section Updates
3. Next Meeting

**ATTENDANCE ROSTER: Please Sign In Below**

**E-mail:**

Andrew Windham	SEARPC	334-798-4093	awindham@searpc.org
Will Bridges	SEARPC	334-797-5781	wbridges@searpc.org
Philip Prince	OFO	334-733-8762	firechief@o22rkcable.com.us
JM420	Dale EMA	334-790-0994	daleema@centurylink.net

ATTENDANCE ROSTER: Please Sign In Below

Name: Andrew Verity Organization: SEAPDC Phone: 334-794-4083 E-mail: awin@hcn@seapdc.org



**PDMC-04-AL-2018-005 - AEMA DIVISION B HAZARD MITIGATION PLAN  
GENEVA COUNTY STAKEHOLDER MEETING – June 30, 2020  
AGENDA**

1. Introduction
2. Discussion of Plan Update – Regional Plan
  - Distribution of Plan via email
  - Discussion of Natural Hazards
  - Discussion of Mitigation Section Updates
3. Next Meeting

**ATTENDANCE ROSTER: Please Sign In Below**

Name:	Organization:	Phone:	E-mail:
Will Bridges	SEARPOC	334-797-5781	wbridges@searopc.org
Andrea Windler	SEARPOC	11 9	awindler@searopc.org
Harold Binger	Genova Co. BOE	(334) 828-1452	bingerh@genovacobo.org
Wendel Nolen	CITY OF HARTFORD		nolenw@genovacobo.org
Andy Hovey	City of Hartford Fire	334-726-5993	ah5205@gnm1.com
Eric Johnson	EMA Director	334-360-6061	gcema@genovacounty.org
Scott Howerton	Shocomb P.D.	334-252-5033	scotty.howerton@shocomb1.org
Danny Staley	Genava Co. S.D.	334-684-5661	danny.staley@genava.org
Toby Seay	Genova Co Comm	684-5641	toby.seay@ <del>sear</del> genovacounty.cl.gov

# FEMA HAZARD MITIGATION PLAN UPDATE

2<sup>ND</sup> meeting  
Covington County

<b>Project:</b>	FEMA Hazard Mitigation Plan Update	<b>Meeting Date:</b>	11/19/2020
<b>Facilitator:</b>	SEARPDC	<b>Place/Room:</b>	Covington County

[illegible]

# Publisher's Certificate of Publication

## STATE OF ALABAMA COUNTY OF COVINGTON

Robert Blankenship, being duly sworn, says:  
That he is Regional Publisher of The Andalusia  
Star News, a daily newspaper of general circula-  
tion, printed and published in Andalusia, Covington  
County, Alabama; that the publication, a copy of  
which is attached hereto, was published in the said  
newspaper on the following dates:

10/31/20

That said newspaper was regularly issued and  
circulated on those dates.

The sum charged by the Newspaper for said publi-  
cation does not exceed the lowest rate paid by com-  
mercial customers for an advertisement of similar  
size and frequency in the same newspaper in which  
the public notice appeared.

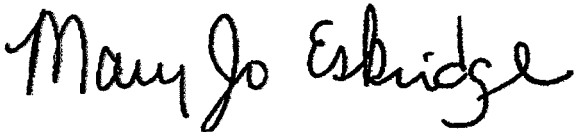
There are no agreements between The Andalusia  
Star News. and the officer or attorney charged with  
the duty of placing the attached legal advertising  
notices whereby any advantage, gain or profit ac-  
crued to said officer or attorney.

SIGNED:

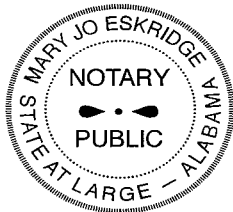


Robert Blankenship, Regional Publisher

Subscribed and sworn to before me this  
31st Day of October, 2020



Mary Jo Eskridge, Notary Public  
State of Alabama at Large  
My commission expires 03-05-2022



Account # 193432  
Ad # 1135247

SOUTHEAST AL REGIONAL PLANNING &  
DEV COM  
P.O. BOX 1406  
DOTHAN AL 36302

### NOTICE OF MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN PUBLIC HEARING

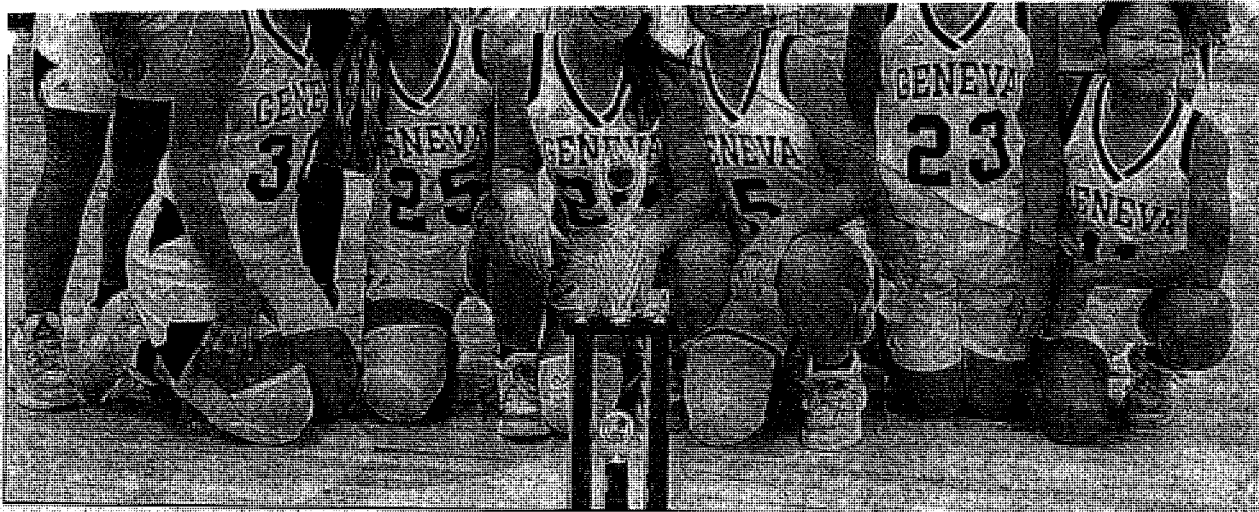
The Covington County Emergency Management Agency will have a public hearing regarding the update to the Local Hazard Mitigation Plan at the Covington County EMA Emergency Operations Center located at 260 Hillcrest Drive, Andalusia, Alabama on November 9th, 2020 at 10:00 a.m. The Local Hazard Mitigation Plan addresses risk and vulnerability of Covington County to multiple natural hazards, such as high wind and flooding events, and presents strategies and projects for hazard mitigation. A draft plan will be available for review at the meeting. Federal guidance specifies that local jurisdictions must review and revise their hazard mitigation plan and submit it for approval every (5) years. The Covington County Plan is included in a process to develop a Regional Hazard Mitigation Plan and is currently reviewing information concerning risk and vulnerability information, as well as mitigation strategies and projects. Residents and other stakeholders of Covington County are encouraged to participate.

# FEMA HAZARD MITIGATION PLAN UPDATE

2<sup>ND</sup> meeting  
Geneva County

<b>Project:</b>	FEMA Hazard Mitigation Plan Update	<b>Meeting Date:</b>	12-2-2020
<b>Facilitator:</b>	SEARPCD	<b>Place/Room:</b>	Geneva County

[illegible]



On Saturday, October 31 the Geneva Junior High Girls Basketball Team won all three of their games in the Arlon Tournament as they defeated Rehobeth 46-13 in the championship game. Kaden Ward led the Panthers with 13 points and Rayanna Ausley scored 12. In the first game of the day, the Lady Panthers defeated G. W. Long 34-18 as Cheyenne Hammock scored eight and Ward five. In the semi-final game, Geneva beat South Dale 47-7. Aubree Lamb led the Panther charge with 12 points, while Carl Grantham and Ausley each scored six.

## NOTICE OF MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN PUBLIC HEARING

The Geneva County Emergency Management Agency will have a public hearing regarding the update to the Local Hazard Mitigation Plan at the Geneva County Court House in Geneva, November 24th, 2020 at 1:00 p.m. The Local Hazard Mitigation Plan addresses risk and vulnerability of Geneva County to multiple natural hazards, such as high wind and flooding events, and presents strategies and projects for hazard mitigation. Federal guidance specifies that local jurisdictions must review and revise their hazard mitigation plan and submit it for approval every (5) years. The Geneva County Plan is included in a process to develop a Regional Hazard Mitigation Plan and is currently reviewing information concerning risk and vulnerability information, as well as mitigation strategies and projects. Residents and other stakeholders of Geneva County are encouraged to participate.

# BE MORE GO BUILD.

Learn more at [GoBuildAl.com](http://GoBuildAl.com)





## Affidavit of Publication of Legal Notice

State of Alabama  
Geneva County

Before me, a notary public in and for the county and state above listed, personally appeared **Brad Goodyear**, who, by me duly sworn, deposes and says that:

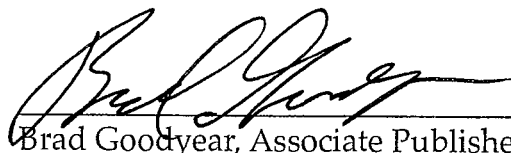
"My name is **Brad Goodyear**, I am the Associate Publisher of the **Geneva County Reaper**. The Newspaper is printed in the English language, has a general circulation and its principal editorial office in the county above listed and has been mailed under a publication class mailing privilege of the United States Postal Service from the post office where it is published at least 51 weeks a year.

The Newspaper published the attached legal notice in the issue(s) of **November 18, 2020** (date(s) of publication). A copy of the advertisement is attached as appeared and was mailed to the person or official placing its advertisement.

The sum charged for this publication **\$76.00**. The sum charged by the Newspaper for said publication does not exceed the lowest of the actual lowest classified rate paid by commercial customers for an advertisement of similar size and frequency in the same newspaper(s) in which the public notice appeared.

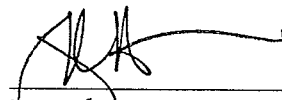
There are no agreements between the Newspaper and the officer or attorney charged with the duty of placing the attached legal advertising notices whereby any advantage, gain or profit accrued to said officer or attorney."

NOV 23 2020



Brad Goodyear, Associate Publisher

Sworn and subscribed this 18th day of November, 2020.



Katherine Hepperle, Notary Public  
My Commission expires February 14, 2022

Southeast Alabama Regional Planning & Development Comm  
Geneva County FEMA Ad  
2x4 Display

# FEMA HAZARD MITIGATION PLAN UPDATE

2<sup>ND</sup> meeting  
Barbour County

<b>Project:</b>	FEMA Hazard Mitigation Plan Update	<b>Meeting Date:</b>	11/16/2020
<b>Facilitator:</b>	SEARPCD	<b>Place/Room:</b>	Barbour County

[illegible]

# Affidavit of Publication

STATE OF ALABAMA  
BARBOUR COUNTY

BEFORE ME, Elane Parish Gullledge, a Notary Public in and for said County and State, personally appeared Rebecca Beasley, who being duly sworn, deposes and says on oath, that she is the Editor of THE CLAYTON RECORD, a newspaper published weekly in the Town of Clayton, Barbour County, Alabama, and that the attached

Barbour County FEMA

Public Hearing

PO # 7566

was published in said newspaper 1 consecutive times.  
The same appearing in the issue dated

November 5, 2020

*The sum charged by The Clayton Record for said publication does not exceed the lowest classified rate paid by commercial customers for an advertisement of similar size and frequency in the same newspaper in which the public notice appeared.*

*There are no agreements between The Clayton Record and the officer or attorney charged with the duty of placing the attached legal advertising notices whereby any advantage, gain or profit accrued to said officer or attorney.*

*Rebecca Beasley*

Sworn to and subscribed before me this 5  
day of November 2020

*Elane P. Gullledge*

BILL OF COST

Number of Inches	<u>11"</u>
Number of Times	<u>1</u>
At 5.00 per Inch	<u>55.00</u>
Affidavits	<u>3.50</u>
TOTAL	<u>58.50</u>

## NOTICE OF MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN PUBLIC HEARING

The Barbour County Emergency Management Agency will have a public hearing regarding the update to the Local Hazard Mitigation Plan at the Barbour County Court House in Clayton, November 16th, 2020 at 1:00 p.m. The Local Hazard Mitigation Plan addresses risk and vulnerability of Barbour County to multiple natural hazards, such as high wind and flooding events, and presents strategies and projects for hazard mitigation. Federal guidance specifies that local jurisdictions must review and revise their hazard mitigation plan and submit it for approval every (5) years. The Barbour County Plan is included in a process to develop a Regional Hazard Mitigation Plan and is currently reviewing information concerning risk and vulnerability information, as well as mitigation strategies and projects. Residents and other stakeholders of Barbour County are encouraged to participate.

NOV 3 3 2020

THIS ACCOUNT HAS NOT BEEN PAID UNLESS  
PROPERLY MARKED BY AUTHORIZED PERSON

# FEMA HAZARD MITIGATION PLAN UPDATE

2<sup>ND</sup> meeting  
Houston County

<b>Project:</b>	FEMA Hazard Mitigation Plan Update	<b>Meeting Date:</b>	11/10/2020
<b>Facilitator:</b>	SEARPCD	<b>Place/Room:</b>	Houston County

[illegible]

S/E AL REGIONAL PLANNING & DEVELOPMENT COMM  
P.O. BOX 1406  
DOTHAN AL 36302

## Purchase Order

### Vendor

2113 BH MEDIA GROUP INC  
c/o ALABAMA COMMUNITY NEWSPAPERS  
PO BOX 25818  
RICHMOND VA 23260-5818

PO#: 7557  
Date: 10/29/2020  
Ship to: S/E AL REGIONAL PLANNING &  
DEVELOPMENT COMM  
P.O. BOX 1406

Requestor: 1297 WINDHAM, MICHAEL

Date Requested by: ASAP NET 30

Remarks: AD IN NEWSPAPER

Phone: Acct:

Ship Via: DOTHAN AL 36302  
BEST WAY

Reqs: 0 0.00 0.00 0.00

Quantity	Description	Per Unit \$	Total Cost
1.00	HOUSTON CO FEMA HMGP PUBLIC MEETING AD	315.0000	315.00

Line Distribution:	Obligation	Expended
302602 52204	315.00	0.00
Total Amount	315.00	0.00

Authorized Signature

Date

Taxes: 0.00  
Shipping: 0.00  
Totals: 315.00

## Glenda Chancey

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**From:** Glenda Chancey  
**Sent:** Thursday, October 29, 2020 3:13 PM  
**To:** wallman@alsmg.com  
**Subject:** Public Hearing Notice  
**Attachments:** Houston County Public Meeting Ad (002).docx

Good afternoon! Please find attached the advertisement that I would like for you to insert as a Display ad in the Monday, November 2, 2020 edition of The Dothan Eagle. Bill the us SEARP&DC for this advertisement, I will get you a PO# once I get a quote on the ad. If you have any questions, please do not hesitate to call me at (334) 794-4093 ext. 1413.

Have a great day!  
Thanks... Glenda

Glenda Chancey  
Executive Assistant  
Southeast Alabama Regional Planning  
and Development Commission  
P.O. Box 1406  
Dothan, AL 36302  
334-794-4093 Ext. 1413  
334-794-3288 Fax  
[gchancey@searfdc.org](mailto:gchancey@searfdc.org)

*Houston Co.  
Dothan Eagle  
11/2/2020*

*Alice 712-7986*



<https://census.alabama.gov/>

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\* Please consider the environment and print this e-mail only if absolutely necessary, thank you.



## **NOTICE OF MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN PUBLIC HEARING**

The Houston County Emergency Management Agency will have a public hearing regarding the update to the Local Hazard Mitigation Plan at the Houston County Administration Building sixth floor conference room, located at 462 North Oates Street in Dothan on November 10th, 2020 at 10:00 a.m. The Local Hazard Mitigation Plan addresses risk and vulnerability of Houston County to multiple natural hazards, such as high wind and flooding events, and presents strategies and projects for hazard mitigation. Federal guidance specifies that local jurisdictions must review and revise their hazard mitigation plan and submit it for approval every (5) years. The Houston County Plan is included in a process to develop a Regional Hazard Mitigation Plan and is currently reviewing information concerning risk and vulnerability information, as well as mitigation strategies and projects. Residents and other stakeholders of Houston County are encouraged to participate.

# FEMA HAZARD MITIGATION PLAN UPDATE

2<sup>ND</sup> meeting  
Dale County

<b>Project:</b>	FEMA Hazard Mitigation Plan Update	<b>Meeting Date:</b>	11/12/2020
<b>Facilitator:</b>	SEARPDC	<b>Place/Room:</b>	Dale County

[illegible]

**Affidavit of Publication of Legal Notice**  
(For Use On or After June 1, 2012)

**State of Alabama**  
**Dale, County**

Before me, a notary public in and for the county and state above listed, personally appeared Joseph H. Adams, who, by me duly sworn, deposes and says that:

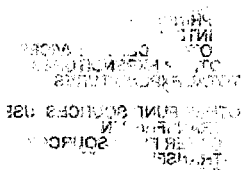
"My name is Joseph H. Adams. I am the Publisher of The Southern Star. The Newspaper is printed in the English language, has a general circulation and its principal editorial office in the county above listed and has been mailed under a publication class mailing privilege of the United States Postal Service from the post office where it is published at least 51 weeks a year.

The Newspaper published the attached legal notice in the issues of November 5, 2020. A copy of each issue of the paper containing the notice was mailed to the person or official placing the legal notice.

(If the post office address of the person to whom the notice is directed can be ascertained, the person or official placing the advertisement to the person to whom the notice was directed.)

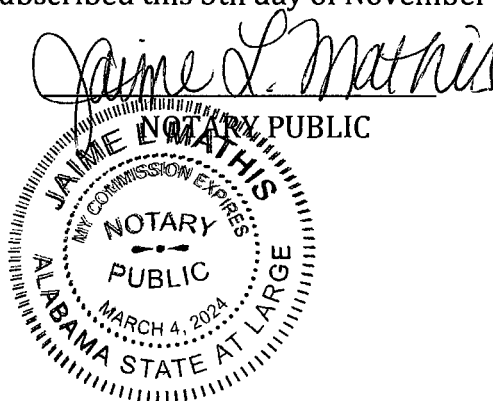
The sum charged for these publications was \$84.00. The sum charged by the Newspaper for said publication does not exceed the lowest classified rate paid by commercial customers for an advertisement of similar size and frequency in the same newspaper in which the public notice appeared.

There are no agreements between the Newspaper and the officer or attorney charged with the duty of placing the attached legal advertising notices whereby any advantage, gain or profit accrued to said officer or attorney."



Joseph H. Adams  
AFFMANT

Sworn and subscribed this 5th day of November 2020.



## **NOTICE OF MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN PUBLIC HEARING**

The Dale County Emergency Management Agency will have a public hearing regarding the update to the Local Hazard Mitigation Plan at the Dale County Government Building, located at 202 Alabama Highway 123, Ozark, Alabama on November 12th, 2020 at 2:00 p.m. The Local Hazard Mitigation Plan addresses risk and vulnerability of Dale County to multiple natural hazards, such as high wind and flooding events, and presents strategies and projects for hazard mitigation. Federal guidance specifies that local jurisdictions must review and revise their hazard mitigation plan and submit it for approval every (5) years. The Dale County Plan is included in a process to develop a Regional Hazard Mitigation Plan and is currently reviewing information concerning risk and vulnerability information, as well as mitigation strategies and projects. Attendees will be able to review a draft copy of the Dale County Plan. Residents and other stakeholders of Dale County are encouraged to participate.

11 November 5, 2020

# FEMA HAZARD MITIGATION PLAN UPDATE

2<sup>ND</sup> meeting  
Coffee County

<b>Project:</b>	FEMA Hazard Mitigation Plan Update	<b>Meeting Date:</b>	11/19/2020
<b>Facilitator:</b>	SEARPCD	<b>Place/Room:</b>	Coffee County

[illegible]

S/E AL REGIONAL PLANNING & DEVELOPMENT COMM  
P.O. BOX 1406  
DOTHAN AL 36302

## Purchase Order

### Vendor

2020 THE ELBA CLIPPER  
P.O. BOX 677  
ELBA AL 36323-0677

PO#: 7539  
Date: 10/22/2020  
Ship to: SEARP & DC  
PO BOX 1406  
DOTHAN, AL 36303

Requestor: 1297 WINDHAM, MICHAEL

Date Requested by: ASAP NET 30

Remarks: AD IN NEWSPAPER

Phone: 3348972823 Acct:

Ship Via: BEST WAY

Reqs: 0 0.00 0.00 0.00

Quantity	Description	Per Unit \$	Total Cost
1.00	ELBA CLIPPER HMGP FINAL PUBLIC HEARING AD	55.0000	55.00

Line Distribution:	Obligation	Expended
365000 52204	55.00	0.00
Total Amount:	55.00	0.00

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Date

Taxes: 0.00  
Shipping: 0.00  
Totals: 55.00



# **NOTICE OF MULTI JURISDICTIONAL HAZARD MITIGATION PLAN PUBLIC HEARING**

The Coffee County Emergency Management Agency will have a public hearing regarding the update to the Local Hazard Mitigation Plan at the Coffee County Community Room, located at 1065 East McKinnon Street, New Brockton, Alabama on **November 9th, 2020 at 2:00 p.m.** The Local Hazard Mitigation Plan addresses risk and vulnerability of Coffee County to multiple natural hazards, such as high wind and flooding events, and presents strategies and projects for hazard mitigation. Federal guidance specifies that local jurisdictions must review and revise their hazard mitigation plan and submit it for approval every (5) years. The Coffee County Plan is included in a process to develop a Regional Hazard Mitigation Plan and is currently reviewing information concerning risk and vulnerability information, as well as mitigation strategies and projects. Residents and other stakeholders of Coffee County are encouraged to participate.

# FEMA HAZARD MITIGATION PLAN UPDATE

2<sup>ND</sup> meeting  
Henry County

<b>Project:</b>	FEMA Hazard Mitigation Plan Update	<b>Meeting Date:</b>	11/16/2020
<b>Facilitator:</b>	SEARPDC	<b>Place/Room:</b>	Henry County

Name	Phone	E-Mail
Will Bridges	334-797-5781	wbridges@searpcdc.org



**NOTICE OF  
MULTI-JURISDICTIONAL  
HAZARD MITIGATION  
PLAN  
PUBLIC HEARING**

The Henry County Emergency Management Agency will have a public hearing regarding the update to the Local Hazard Mitigation Plan at the Henry County Court House in Abbeville, November 16th, 2020 at 10:00 a.m. The Local Hazard Mitigation Plan addresses risk and vulnerability of Henry County to multiple natural hazards, such as high wind and flooding events, and presents strategies and projects for hazard mitigation. Federal guidance specifies that local jurisdictions must review and revise their hazard mitigation plan and submit it for approval every (5) years. The Henry County Plan is included in a process to develop a Regional Hazard Mitigation Plan and is currently reviewing information concerning risk and vulnerability information, as well as mitigation strategies and projects. Residents and other stakeholders of Henry County are encouraged to participate.

notice of multi-jurisdictional hazard  
mitigation plan public hearing

## Glenda Chancey

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**From:** Glenda Chancey  
**Sent:** Monday, November 02, 2020 1:46 PM  
**To:** heraldadv@centurytel.net  
**Subject:** Public Hearing Ad  
**Attachments:** Henry County Public Meeting Ad.docx

Good afternoon. Please find attached the ad that I would like for you to insert as a **Display ad** in **Thursday, November 5, 2020** edition of The Abbeville Herald. Bill us SEARP&DC for this advertisement, when you get the amount let me know and we will get you a PO#. Send me an affidavit for our file. Thank you and have a great day! If you have any questions, please do not hesitate to call me at (334) 794-4093 ext. 1413.

Thanks Glenda

*Glenda Chancey*  
*Executive Assistant*  
*Southeast Alabama Regional Planning*  
*and Development Commission*  
*P.O. Box 1406*  
*Dothan, AL 36302*  
*334-794-4093 Ext. 1413*  
*334-794-3288 Fax*  
[gchancey@searpc.org](mailto:gchancey@searpc.org)

*Abbeville Herald*



<https://census.alabama.gov/>

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