

Russell County Alabama Natural Hazard Mitigation Plan 2015 Update



Prepared For:
The Jurisdictions of Russell County Alabama

Prepared By:
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Russell County Alabama Natural Hazard Mitigation Plan

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RESOLUTION NO. 2015- 101

CITY OF PHENIX CITY
NATURAL HAZARDS MITIGATION PLAN ADOPTION RESOLUTION

WHEREAS the City of Phenix City, Alabama has experienced repetitive natural disasters that have damaged commercial, residential and public properties, displaced citizens and businesses, closed streets and bridges, and presented general public health and safety concerns; and

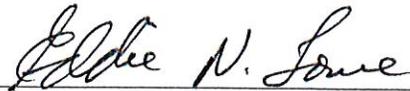
WHEREAS the community has prepared the *Russell County Natural Hazards Mitigation Plan* that outlines the community's options to reduce overall damage and impact from natural hazards; and

WHEREAS the *Russell County Natural Hazards Mitigation Plan* has been reviewed by community residents, business owners, and federal, state and local agencies, and has been revised to reflect their concerns;

NOW, THEREFORE, BE IT RESOLVED THAT:

1. The *Russell County Natural Hazards Mitigation Plan* is hereby adopted as an official plan of the City of Phenix City.
2. The Russell County Natural Hazards Mitigation Plan Advisory Committee is hereby established as the permanent community advisory body. The City Council shall appoint two representatives to this committee. The group's duties shall be as designated in the *Russell County Natural Hazards Mitigation Plan*.
3. The Russell County Emergency Management Agency is charged with supervising the implementation of the Plan's recommendations within the funding limitations as provided by the City Council of the City of Phenix City or other sources.
4. The Russell County Emergency Management Agency shall give priority attention to the action items recommended by the *Russell County Natural Hazards Mitigation Plan*.
5. The Russell County Emergency Management Agency shall convene the Russell County Natural Hazards Mitigation Plan Advisory Committee yearly, or as needed. The advisory committee shall monitor implementation of the plan and shall submit a written progress report to City Council of the City of Phenix City in accordance with the following format:
 - a. A review of the original plan.
 - b. A review of any disasters or emergencies that occurred during the previous calendar year.
 - c. A review of the actions taken, including what was accomplished during the previous year.
 - d. A discussion of any implementation problems.
 - e. Recommendations for new projects, revised action items, or other needed changes to the plan. Such recommendations shall be subject to approval by the City Council of the City of Phenix City.

PASSED, ADOPTED, AND APPROVED this 5th day of May 2015.



MAYOR









MEMBERS OF THE CITY COUNCIL OF THE CITY OF
PHENIX CITY, ALABAMA

ATTEST:



CITY CLERK



**RUSSELL COUNTY COMMISSION
NATURAL HAZARDS MITIGATION PLAN ADOPTION RESOLUTION**

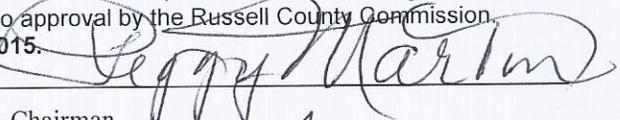
WHEREAS, Russell County, Alabama has experienced repetitive disasters that have damaged commercial, residential and public properties, displaced citizens and businesses and presented general public health and safety concerns; and

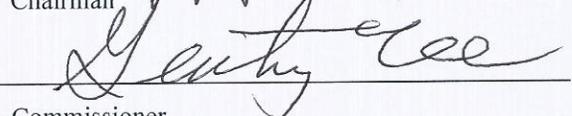
WHEREAS, the community has prepared the *Russell County Natural Hazards Mitigation Plan* that outlines the community's options to reduce overall damage and impact from natural hazards, and has been reviewed by community residents, business owners, and federal, state and local agencies, and has been revised to reflect their concerns;

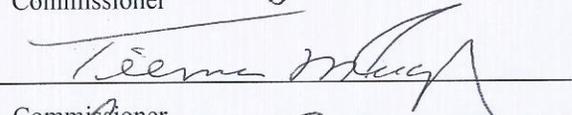
NOW, THEREFORE BE IT RESOLVED THAT:

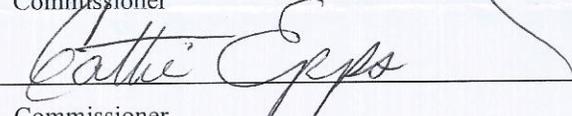
1. The *Russell County Natural Hazards Mitigation Plan* is hereby adopted as an official plan of Russell County.
2. The Russell County Natural Hazards Mitigation Plan Advisory Committee is hereby established as the permanent community advisory body. The Russell County Commission shall appoint two representatives to this Committee. Their duties are as designated in the *Russell County Natural Hazards Mitigation Plan*.
3. The Russell County Emergency Management Agency is charged with supervising the implementation of the Plan's recommendations within the funding limitations as provided by the Russell County Commission or other sources.
4. The Russell County Emergency Management Agency shall give priority attention to the action items recommended by the *Russell County Natural Hazards Mitigation Plan*:
5. The Russell County Emergency Management Agency shall convene the Russell County Natural Hazards Mitigation Plan Advisory Committee yearly, or as needed. The advisory committee shall monitor implementation of the plan and shall submit a yearly written progress report to Russell County Commission in accordance with the following format:
 - a. A review of the original plan.
 - b. A review of any disasters or emergencies that occurred during the previous calendar year.
 - c. A review of the actions taken, including what was accomplished during the previous year.
 - d. A discussion of any implementation problems.
 - e. Recommendations for new projects, revised action items, or other needed changes to the plan.Such recommendations shall be subject to approval by the Russell County Commission.

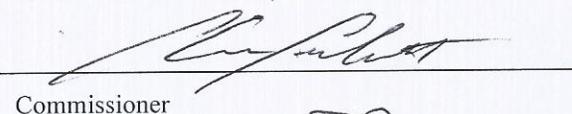
PASSED, APPROVED AND ADOPTED THIS 13th OF MAY, 2015.

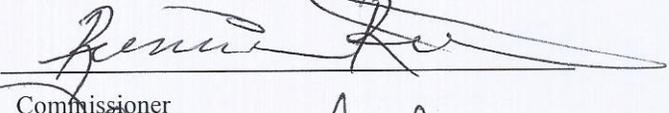

Chairman

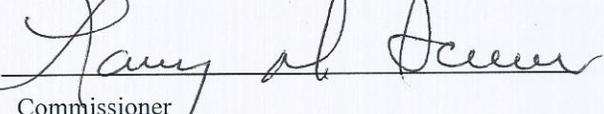

Commissioner

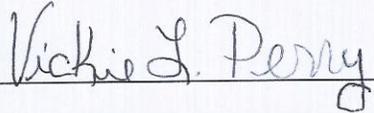

Commissioner


Commissioner


Commissioner


Commissioner


Commissioner

ATTEST: 

SEAL:

**TOWN OF HURTSBORO RESOLUTIO 2015-04
NATURAL HAZARDS MITIGATION PLAN ADOPTION**

WHEREAS the Town of Hurtsboro, Alabama has experienced repetitive natural disasters that have damaged commercial, residential and public properties, displaced citizens and businesses, closed streets and bridges, and presented general public health and safety concerns; and

WHEREAS the community has prepared the *Russell County Natural Hazards Mitigation Plan* that outlines the community's options to reduce overall damage and impact from natural hazards; and

WHEREAS the *Russell County Natural Hazards Mitigation Plan* has been reviewed by community residents, business owners, and federal, state and local agencies, and has been revised to reflect their concerns;

NOW, THEREFORE, BE IT RESOLVED THAT:

1. The *Russell County Natural Hazards Mitigation Plan* is hereby adopted as an official plan of the Town of Hurtsboro.
2. The Russell County Natural Hazards Mitigation Plan Advisory Committee is hereby established as the permanent community advisory body. The Town Council of the Town of Hurtsboro may appoint two representatives to this committee. The group's duties shall be as designated in the *Russell County Natural Hazards Mitigation Plan*.
3. The Russell County Emergency Management Agency is charged with supervising the implementation of the Plan's recommendations within the funding limitations as provided by the Town Council of the Town of Hurtsboro or other sources.
4. The Russell County Emergency Management Agency shall give priority attention to the action items recommended by the *Russell County Natural Hazards Mitigation Plan*:
5. The Russell County Emergency Management Agency shall convene the Russell County Natural Hazards Mitigation Plan Advisory Committee yearly, or as needed. The advisory committee shall monitor implementation of the plan and shall submit a written progress report to the Town Council of the Town of Hurtsboro in accordance with the following format:
 - a. A review of the original plan.
 - b. A review of any disasters or emergencies that occurred during the previous calendar year.
 - c. A review of the actions taken, including what was accomplished during the previous year.
 - d. A discussion of any implementation problems.
 - e. Recommendations for new projects, revised action items, or other needed changes to the plan. Such recommendations shall be subject to approval by the Town Council of the Town of Hurtsboro.

PASSED, ADOPTED, AND APPROVED this 12th day of May 2015.

ATTEST

CITY CLERK FRANCES JENNEJAHN

SEAL:



MAYOR VIVIAN COVINGTON

MEMBERS OF THE TOWN COUNCIL OF THE TOWN OF HURTSBORO, ALABAMA

**PHENIX CITY SCHOOL SYSTEM
NATURAL HAZARDS MITIGATION PLAN ADOPTION RESOLUTION**

WHEREAS the Phenix City School System has experienced repetitive natural disasters that have impacted Russell County, Alabama and is concerned for the health and safety of students, faculty and staff; and

WHEREAS the community has prepared the *Russell County Natural Hazards Mitigation Plan* that outlines the community's options to reduce overall damage and impact from natural hazards; and

WHEREAS the *Russell County Natural Hazards Mitigation Plan* has been reviewed by community residents, business owners, and federal, state and local agencies, and has been revised to reflect their concerns;

NOW, THEREFORE, BE IT RESOLVED THAT:

1. The *Russell County Natural Hazards Mitigation Plan* is hereby adopted as an official hazard mitigation plan of the Phenix City School System.
2. The Russell County Natural Hazards Mitigation Plan Advisory Committee is hereby established as a permanent advisory body for all jurisdictions in the County. The Board of the Phenix City School System shall appoint two representatives to this body.
3. The Russell County Emergency Management Agency is charged with supervising the implementation of the Plan's recommendations within the funding limitations as provided by the Board of the Phenix City School System or other sources.
4. The Russell County Emergency Management Agency shall give priority attention to the action items recommended by the *Russell County Natural Hazards Mitigation Plan*:
5. The Russell County Emergency Management Agency shall convene the Russell County Natural Hazards Mitigation Plan Advisory Committee yearly, or as needed. The advisory committee shall monitor implementation of the plan and shall submit a written progress report to the Board of the Phenix City School System which includes a review of the original plan, a review of any disasters or emergencies that occurred during the previous calendar year, a review of accomplishments and implementation problems encountered and recommendations for new projects, revised action items, or other needed changes to the plan.
6. Any changes to the *Russell County Natural Hazards Mitigation Plan* directly impacting the Phenix City School System shall be subject to approval by the Board.

PASSED, APPROVED, AND ADOPTED this ____ day of _____ 2015.

CHAIR

ATTEST:

SEAL:

**RUSSELL COUNTY SCHOOL DISTRICT
NATURAL HAZARDS MITIGATION PLAN ADOPTION RESOLUTION**

WHEREAS the Russell County School District has experienced repetitive natural disasters that have impacted Russell County, Alabama and is concerned for the health and safety of students, faculty and staff; and

WHEREAS the community has prepared the *Russell County Natural Hazards Mitigation Plan* that outlines the community's options to reduce overall damage and impact from natural hazards; and

WHEREAS the *Russell County Natural Hazards Mitigation Plan* has been reviewed by community residents, business owners, and federal, state and local agencies, and has been revised to reflect their concerns;

NOW, THEREFORE, BE IT RESOLVED THAT:

1. The *Russell County Natural Hazards Mitigation Plan* is hereby adopted as an official hazard mitigation plan of the Russell County School District.
2. The Russell County Natural Hazards Mitigation Plan Advisory Committee is hereby established as a permanent advisory body for all jurisdictions in the County. The Board of the Russell County School District shall appoint two representatives to this body.
3. The Russell County Emergency Management Agency is charged with supervising the implementation of the Plan's recommendations within the funding limitations as provided by the Board of the Russell County School District or other sources.
4. The Russell County Emergency Management Agency shall give priority attention to the action items recommended by the *Russell County Natural Hazards Mitigation Plan*:
5. The Russell County Emergency Management Agency shall convene the Russell County Natural Hazards Mitigation Plan Advisory Committee yearly, or as needed. The advisory committee shall monitor implementation of the plan and shall submit a written progress report to the Board of the Russell County School District which includes a review of the original plan, a review of any disasters or emergencies that occurred during the previous calendar year, a review of accomplishments and implementation problems encountered and recommendations for new projects, revised action items, or other needed changes to the plan.
6. Any changes to the *Russell County Natural Hazards Mitigation Plan* directly impacting the Russell County School District shall be subject to approval by the Board.

PASSED, APPROVED, AND ADOPTED this ___ day of _____ 2015.

CHAIR

ATTEST:

SEAL:

**FORT MITCHELL WATER SYSTEM
NATURAL HAZARDS MITIGATION PLAN ADOPTION RESOLUTION**

WHEREAS the Fort Mitchell Water System has experienced repetitive natural disasters that have impacted Russell County, Alabama and is concerned for the health and safety of its clients and staff; and

WHEREAS the community has prepared the *Russell County Natural Hazards Mitigation Plan* that outlines the community's options to reduce overall damage and impact from natural hazards; and

WHEREAS the *Russell County Natural Hazards Mitigation Plan* has been reviewed by community residents, business owners, and federal, state and local agencies, and has been revised to reflect their concerns;

NOW, THEREFORE, BE IT RESOLVED THAT:

1. The *Russell County Natural Hazards Mitigation Plan* is hereby adopted as an official hazard mitigation plan of the Fort Mitchell Water System.
2. The Russell County Natural Hazards Mitigation Plan Advisory Committee is hereby established as a permanent advisory body for all jurisdictions in the County. The Board of the Fort Mitchell Water System shall appoint two representatives to this body.
3. The Russell County Emergency Management Agency is charged with supervising the implementation of the Plan's recommendations within the funding limitations as provided by the Board of the Fort Mitchell Water System or other sources.
4. The Russell County Emergency Management Agency shall give priority attention to the action items recommended by the *Russell County Natural Hazards Mitigation Plan*:
5. The Russell County Emergency Management Agency shall convene the Russell County Natural Hazards Mitigation Plan Advisory Committee yearly, or as needed. The advisory committee shall monitor implementation of the plan and shall submit a written progress report to the Board of the Fort Mitchell Water System which includes a review of the original plan, a review of any disasters or emergencies that occurred during the previous calendar year, a review of accomplishments and implementation problems encountered and recommendations for new projects, revised action items, or other needed changes to the plan.
6. Any changes to the *Russell County Natural Hazards Mitigation Plan* directly impacting the Fort Mitchell Water System shall be subject to approval by the Board.

PASSED, APPROVED, AND ADOPTED this ____ day of _____ 2015.

CHAIR

ATTEST:

SEAL:

**HURTSBORO WATER WORKS
NATURAL HAZARDS MITIGATION PLAN ADOPTION RESOLUTION**

WHEREAS the Hurtsboro Water Works has experienced repetitive natural disasters that have impacted Russell County, Alabama and is concerned for the health and safety of it's clients and staff; and

WHEREAS the community has prepared the *Russell County Natural Hazards Mitigation Plan* that outlines the community's options to reduce overall damage and impact from natural hazards; and

WHEREAS the *Russell County Natural Hazards Mitigation Plan* has been reviewed by community residents, business owners, and federal, state and local agencies, and has been revised to reflect their concerns;

NOW, THEREFORE, BE IT RESOLVED THAT:

1. The *Russell County Natural Hazards Mitigation Plan* is hereby adopted as an official hazard mitigation plan of the Hurtsboro Water Works.
2. The Russell County Natural Hazards Mitigation Plan Advisory Committee is hereby established as a permanent advisory body for all jurisdictions in the County. The Board of the Hurtsboro Water Works shall appoint two representatives to this body.
3. The Russell County Emergency Management Agency is charged with supervising the implementation of the Plan's recommendations within the funding limitations as provided by the Board of the Hurtsboro Water Works or other sources.
4. The Russell County Emergency Management Agency shall give priority attention to the action items recommended by the *Russell County Natural Hazards Mitigation Plan*:
5. The Russell County Emergency Management Agency shall convene the Russell County Natural Hazards Mitigation Plan Advisory Committee yearly, or as needed. The advisory committee shall monitor implementation of the plan and shall submit a written progress report to the Board of the Hurtsboro Water Works which includes a review of the original plan, a review of any disasters or emergencies that occurred during the previous calendar year, a review of accomplishments and implementation problems encountered and recommendations for new projects, revised action items, or other needed changes to the plan.
6. Any changes to the *Russell County Natural Hazards Mitigation Plan* directly impacting the Hurtsboro Water Works shall be subject to approval by the Board.

PASSED, APPROVED, AND ADOPTED this ___ day of _____ 2015.

CHAIR

ATTEST:

SEAL:

SECTION 2: PURPOSE OF THE RUSSELL COUNTY NATURAL HAZARDS MITIGATION PLAN

Section Revisions:

The following revisions were made to Section 2: The Purpose of the Russell County Natural Hazard Mitigation Plan:

General: Section 2 has been re-formatted;

2.1: Overview- No changes;

2.2: Hazard Mitigation Defined- No changes;

2.3: Purpose of Hazard Mitigation Planning- No changes;

2.4: Requirements of the Disaster Mitigation Act of 2000 (DMA 2000)- No changes;

2.5: Phases of the Russell County Natural Hazards Mitigation Plan

- Phase 1 now includes public participation during maintenance;
- Phase 2 includes descriptions of previous occurrences and probability of future events;
- Phase 3 includes participation and compliance with the National Flood Insurance Program;
- Phase 5, Formal Adoption by Local Governments, was added.

2.1 Overview of Section 2

Hazard mitigation is an effective tool for protecting the lives and property of residents and communities. Natural hazards impact the lives, property, environment, and economy of the residents who live and work in unincorporated Russell County, the City of Phenix City, and the Town of Hurtsboro. When a natural hazard such as a wildfire, tornado, or severe storm affects an area, it can leave behind devastation that negatively affects the emotional and financial welfare of the community. In order to be proactive, communities must develop strategies to mitigate these hazards and the potential damage that they bring. A hazard mitigation strategy provides communities with a blueprint of how they can reduce risk and prevent losses from a natural hazard.

2.2 Hazard Mitigation Defined

Hazard Mitigation is defined as any sustained effort that is implemented to reduce or eliminate long-term risk to life and property that results from a hazard event. Hazard mitigation, also known as prevention, promotes the reduction of hazard vulnerability. The goal of mitigation is to save lives and reduce property damage. Well-planned hazard mitigation can reduce the enormous cost that disasters can bring to property owners and the community. Additionally, hazard mitigation can protect critical community facilities, decrease exposure to liability, and minimize community disruption. Examples of mitigation strategies that reduce or prevent loss include land use planning, educational programs, and the acquisition and relocation of homes away from floodplains.

2.3 Purpose of Hazard Mitigation Planning

The primary goal of hazard mitigation planning is to identify community goals, objectives, and strategies for implementation that results in decreasing the risk and the potential for future losses in the community. This planning is accomplished by:

- Using a systematic process of identifying the hazards that can affect each jurisdiction;
- Developing clear goals;
- Identifying appropriate actions;
- Implementing an effective mitigation strategy;
- Maintaining and updating the plan.

Mitigation planning can produce an environment that results in the coordination of activities and partnerships with agencies that will not only reduce a jurisdiction's hazard vulnerability, but will allow the community to meet other planning needs as well.

2.4 Requirements of the Disaster Mitigation Act of 2000 (DMA 2000)

The Russell County Natural Hazards Mitigation Plan was developed as a result of the Disaster Mitigation Act of 2000 (DMA 2000). In the past, federal legislation has provided funding for disaster relief, recovery, and some hazard mitigation planning. The DMA 2000 is the latest legislation to improve this planning process and was put into effect on October 10, 2000, when the President signed the Act (Public Law 106-390). The new legislation reinforces the importance of mitigation planning and emphasizes planning for disasters before they occur. As such, this Act establishes a pre-disaster hazard mitigation program and new requirements for the national post-disaster Hazard Mitigation Grant Program (HMGP).

Section 322 of the Act specifically addresses mitigation planning at the state and local levels. It identifies new requirements that allow HMGP funds to be used for planning activities, and increases the amount of HMGP funds available to states that have developed a comprehensive, enhanced mitigation plan prior to a disaster. States and communities must have an approved mitigation plan by November 1, 2004 in order to receiving post-disaster HMGP funds. Local plans must demonstrate that their proposed mitigation measures are based on a sound planning process that accounts for the risk to and the capabilities of the individual communities.

The Disaster Mitigation Act of 2000 is intended to facilitate cooperation between state and local authorities, promoting collaboration among them. It encourages and rewards local and state pre-disaster planning and promotes sustainability as a strategy for disaster resistance. This enhanced planning network will better enable local and state governments to articulate accurate needs for mitigation, resulting in faster allocation of funding and more effective risk reduction projects.

2.5 Phases of the Russell County Natural Hazards Mitigation Plan

Based on the minimum standards required by Federal Emergency Management Agency, the following phases will be followed in developing the Russell County Natural Hazards Mitigation Plan:

Phase 1: Planning Process

The plan must document open public involvement in the planning process. This includes opportunities for the public to comment on the plan at all stages of its formation and maintenance, and the involvement of any neighboring communities, interested agencies, or private and non-profit organizations. The planning process should also include a review of any existing plans or studies and incorporation of these if appropriate. This phase will document the planning process, including how the plan was prepared, who was involved in the process, and how the public was involved.

Phase 2: Hazard Identification and Risk Assessment

Local risk assessments must provide sufficient information to enable the jurisdiction to identify and prioritize appropriate mitigation actions to reduce losses from identified hazards. This phase includes a detailed description of all the natural hazards that could affect unincorporated Russell County, the City of Phenix City, and the Town of Hurtsboro, as well as school systems and water authorities located in Russell County. The description will include information on previous occurrences and the probability of future events, along with an analysis of each jurisdiction's vulnerability to those hazards. Specific information about numbers and type of structures, potential dollar losses, and overall description of land use trends in the jurisdictions are also included in this section. For multi-jurisdictional plans, any risk that affects only certain sections of the planning areas must be addressed separately in the context of the affected area.

Phase 3: Mitigation Strategy

The plan must include a natural hazards mitigation strategy that provides the jurisdiction's approach for reducing potential losses identified in the risk assessment based on existing authorities, policies, programs, and resources, and its ability to expand on and improve these existing tools. This entails the development of goals and objectives from which specific actions are derived, as well as a comprehensive range of actions to reduce the risks of each hazard in each jurisdiction and each local government's continued participation and compliance with the National Flood Insurance Program (NFIP).

Phase 4: Plan Maintenance Process

This phase must document the formal maintenance process to take place to ensure that the natural hazards mitigation plan remains an active and pertinent document. The plan maintenance process includes a schedule for monitoring and evaluating the plan at least every five years and continued public participation throughout plan maintenance. This phase should also include an explanation of how local governments intend to incorporate their mitigation strategies into their existing planning mechanisms, such as comprehensive or capital improvement plans, or zoning and building codes. Plan maintenance shall also allow for addition or subtraction of projects as municipalities accomplish goals and set new priorities.

Phase 5: Formal Adoption By Local Governments

This phase will include the formal adoption of the final plan by all jurisdictions in Russell County.

SECTION 3: COMMUNITY PROFILE

Section Revisions

The following revisions were made to Section 3: Community Profile:

- The section was reviewed and re-formatted.
- Maps that depict location, topography, floodplains, and population density were added.
- A brief description of the government in each jurisdiction was added.
- A brief description of school boards and water authorities in the County was added.
- Data on population, racial and ethnicity income and poverty was updated utilizing the United States Census and American Community Survey.
- Information on the infrastructure in Russell County was updated with the assistance of public and private utilities that provide water, sewer, transportation, natural gas, electrical service and solid waste services in Russell County.
- Information on governmental and residential assets was added to this section.

3.1 Physical Environment

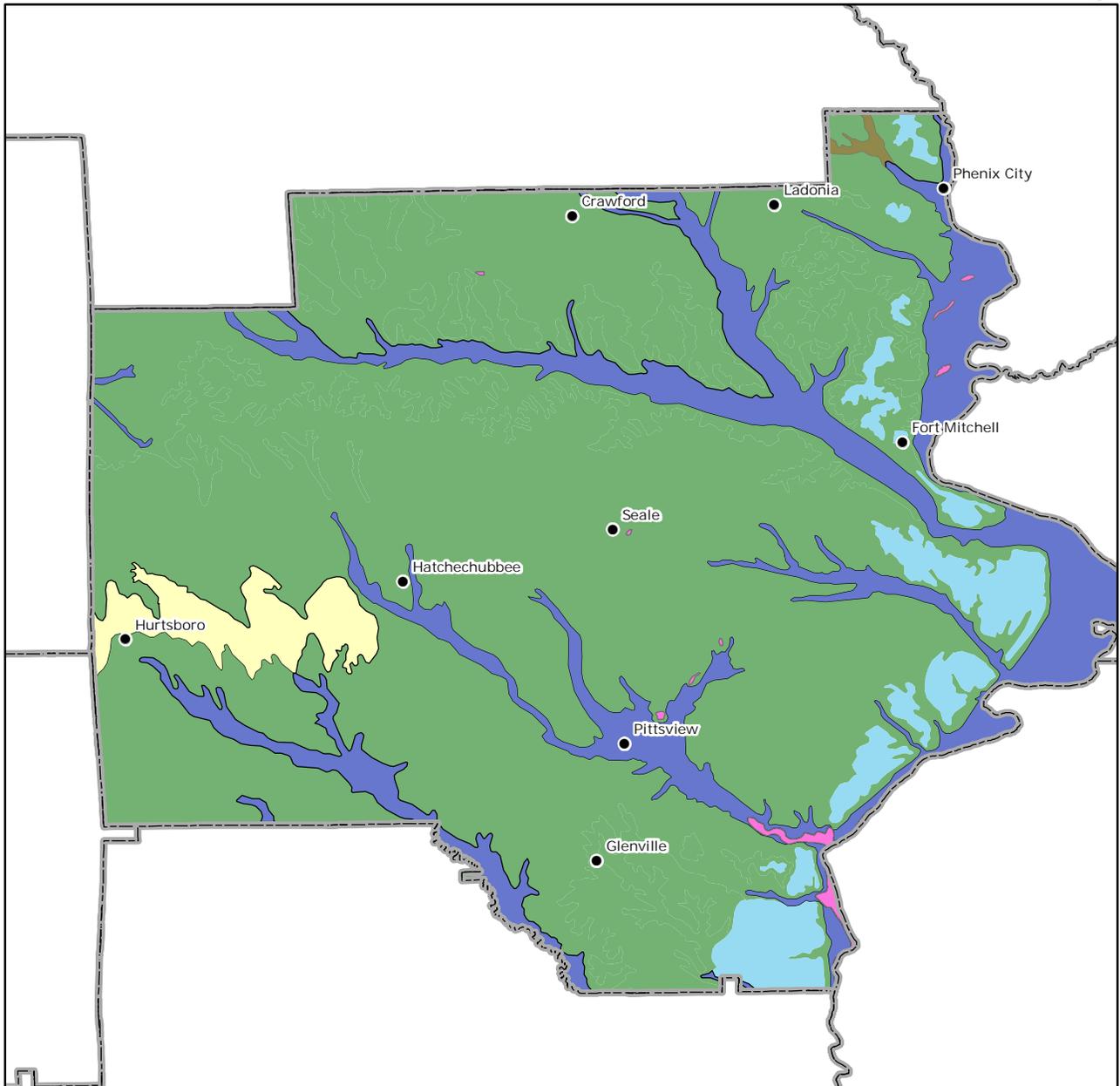
Russell County is located in East Central Alabama along the Chattahoochee River, which is also the western boundary of the State of Georgia. Russell County occupies 647 of the 50,744 square miles in Alabama. Of the 647 square miles in Russell County, 24 are within the city limits of Phenix City, 1 mile is in the Town of Hurtsboro, and the remaining 622 miles are in the unincorporated areas of the county.

Lee, Macon, Bullock, and Barbour counties in Alabama and Harris and Muscogee counties in Georgia border Russell County. The county is about two hours southwest of the Atlanta International Airport, two hours southeast from Birmingham, and four hours northeast from Mobile and the Gulf Coast.

The terrain in the northern portion of Russell County is Piedmont Plateau, characterized by hilly topography with gentle to steep slopes. The terrain in the southern portion of the county is Coastal Plain, which is level to gently rolling. The soil varies from rocky, clay in the north to a more sandy soil in the south.

Many large creek systems form watersheds in the county. The creeks in the eastern areas, Uchee, Little Uchee, Halawakee, and Wacoochee, flow to the Chattahoochee River.

Map 3.2 - Rock Type Geology



Rock Type

alluvium	dolostone (dolomite)	mica schist	sand
amphibolite	felsic gneiss	mudstone	sandstone
arkose	gneiss	mylonite	schist
augen gneiss	granite	orthogneiss	shale
carbonate	granitic gneiss	phyllite	silt
chert	granodiorite	pyroxenite	siltstone
clay or mud	greenstone	quartz diorite	slate
claystone	limestone	quartz monzonite	terrace
conglomerate	mafic gneiss	quartz-feldspar schist	tonalite
dacite	marble	quartzite	trondhjemite
	metasedimentary rock	residuum	water

LRC LEE-RUSSELL COUNCIL OF GOVERNMENTS
 Planning & Economic Development

These data are for general planning purposes only. No warranty of accuracy or precision is given or implied.

Data Citation: Geological Survey of Alabama. *Surface Geology*, 2006.; ESRI. *Cities*; U.S. Census. *Counties*, 2010.; U.S. Census. *State Boundary*, 2010.

June 2014

3.2 Government and Demographic Information

Russell County is governed by a Commission of seven. Each Commissioner represents one of the County's seven districts and serves four year terms. A Commission Chair and Co-Chair are elected by the body each year. Russell County reports a total of 17 government buildings/assets with a total value of \$39,872,124.

The City of Phenix City is the County Seat and is located in the northeast corner of the county. Portions of Phenix City's municipal boundaries extend into neighboring Lee County. The City of Phenix City is governed by a Mayor and four council members. One council member is elected by the entire jurisdiction. The other three council members represent a district within the City. The Mayor and Council members serve 4 year terms. The City of Phenix City reports 105 assets with a value of \$59,582,899.

The Town of Hurtsboro, is located in east central Russell County. It is governed by a Mayor and a Town Council of five. The Mayor and Council members serve 4 year terms. Hurtsboro reports a total of 10 government buildings/assets with a combined value of \$455,950.

According to 2010 United States Census the population of Russell County was 52,947. This was an increase of 3,191 over the 2000 population and reflects a 6% growth rate. Much of this growth can be attributed to the expansion of the mission at Fort Benning in nearby Columbus, Georgia from 2005-2010.

The median age of the population in Russell County was 35.8, slightly up from a median age of 35.4 in 2000.

Table 3.1: Population, Median Age, Households

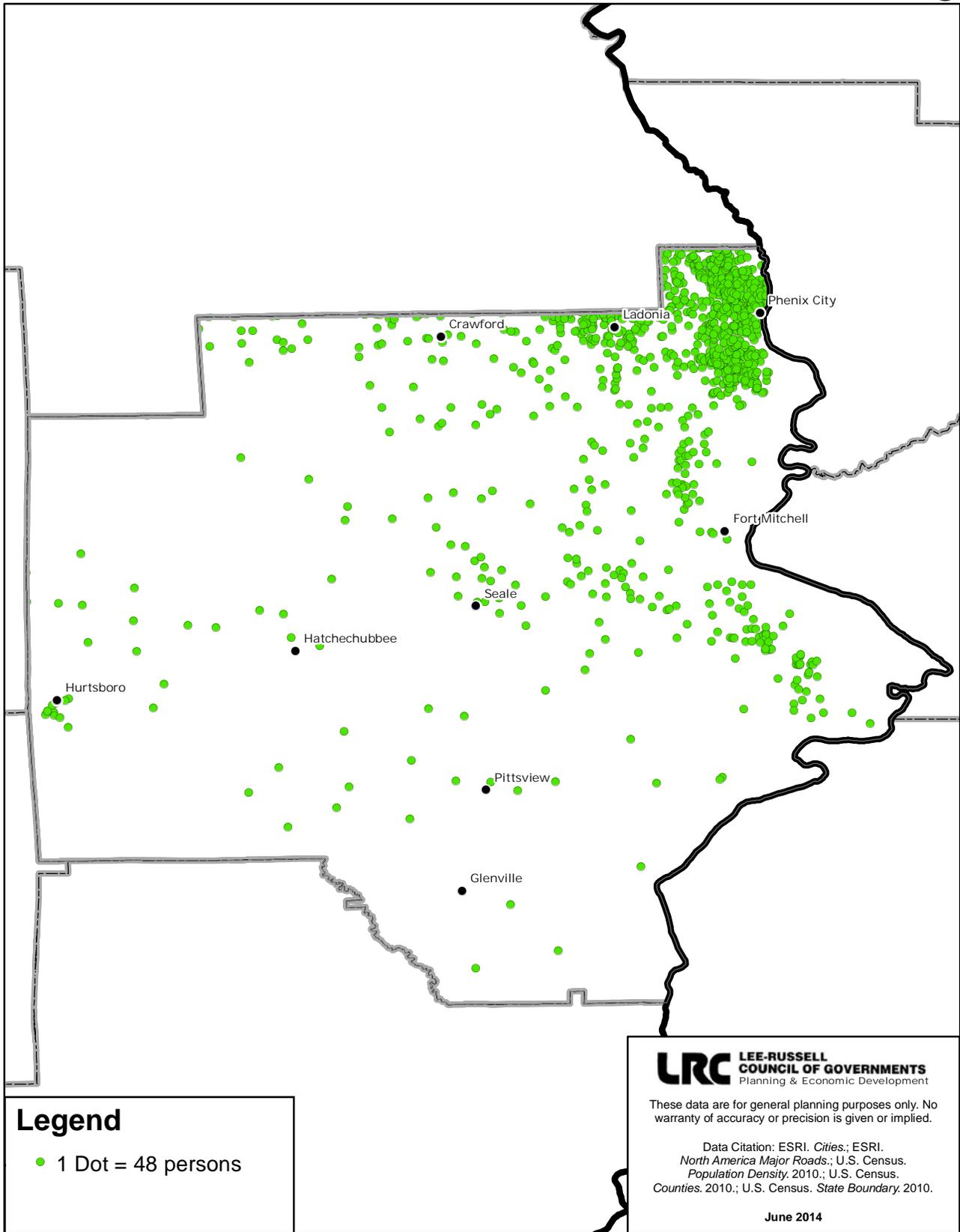
Jurisdiction	2010 Population	2010 Median Age	2010 Number of Households
Town of Hurtsboro	550	45.4	241
City of Phenix City	32,822	33.1	13,243
Total Russell County	52,947	35.8	21,229

Source: 2010 United States Census

There are 82 persons per square mile in Russell County according to the 2010 United States Census. The most densely populated area Russell County is the City of Phenix City. Phenix City has a population density of 1,132 persons per square mile. Thirty-five percent of the population in Russell County lives in rural areas. The western sections of the Country are the most sparsely populated.

In Russell County, 53.7% of the residents are white, 41.8% are black, .4% is Asian, .4% native American/Alaskan Native, and 2.1% identifying themselves as two or more races. The percentage of the population identifying themselves as Hispanic has increased from 1.5% in 2000, to 3.7% in 2010.

Map 3.4 - Population Density



Legend

• 1 Dot = 48 persons

LRC LEE-RUSSELL
COUNCIL OF GOVERNMENTS
Planning & Economic Development

These data are for general planning purposes only. No warranty of accuracy or precision is given or implied.

Data Citation: ESRI. *Cities*; ESRI.
North America Major Roads; U.S. Census.
Population Density, 2010; U.S. Census.
Counties, 2010; U.S. Census. *State Boundary, 2010*.

June 2014

3.3 Income and Poverty

The median family income in Russell County in FY 2013 was \$48,200. According to the Alabama State Data Center, 20.1% of the people in Russell County live in poverty.

3.4 Economy

For May, 2014 the Alabama Department of Labor reported the civilian labor force of Russell County was 23,662, with 21,680 workers employed and 1,982 looking for work. The unemployment rate was 8.4%. The unemployment rate for Alabama was 6.8%. According to the Alabama Department of Labor, the average hourly wage in Russell County is \$15.86.

The county has strong leadership in economic development by elected officials, economic development departments, and the Chamber of Commerce. The major employers in Russell County are listed in Table 3.2.

Table 3.2 Major Employers in Russell County

Company	Jurisdiction	Industry	Number of Employees
Phenix City Board of Education	Phenix City	Education	983
MeadWestVaco	Russell County	Kraft Container Board	897
Alatrade	Phenix City	Food Processing	650
Russell County Board of Education	Phenix City & Russell County	Education	445
Jack Hughston Memorial Hospital	Phenix City	Healthcare	320
Johnston Textiles	Phenix City	Fabrication	220

3.5 Public School Systems In Russell County

There are two public school systems in Russell County.

The Phenix City Schools are a component unit of the City of Phenix City. They are governed by a seven member School Board appointed by the City Council. The School Board hires a Superintendent to oversee the day to day operations of the school system. The Phenix City School System serves nearly 7,000 students in their schools: Central High School and Freshman Academy, Lakewood Elementary, Lakewood Primary, Meadowlane Elementary, Phenix City Elementary, Phenix City Intermediate, Ridgecrest Elementary, Sherwood Elementary, South Girard School, Westview Elementary

The Russell County School District serves all areas of Russell County except Phenix City. The Russell County School District is governed by an elected seven member School Board. The School Board hires a Superintendent to oversee the day to day

operations of the district. The Russell County School System serves nearly 3,400 students in their schools: Dixie Elementary, Ladonia Elementary, Mt. Olive Intermediate, Mt. Olive Primary, Oliver Elementary, Russell County Middle, Russell County High School

3.6 Infrastructure in Russell County

Water Services (Sources: *Russell County Water Authority, Phenix City Utilities, Fort Mitchell Water System, Hurtsboro Water and Sewer Board*) There are four organized water systems that serve of 85% of households in Russell County. The four systems service areas serve a combined population of 62,541. The combined water supply capacity from these water systems is approximately 13 million gallons.

- **Russell County Water Authority's** source of water is through three groundwater wells and the City of Phenix City. There are seven tanks with a combined capacity of 2,500,000 gallons. The existing water supply is adequate to meet the area's need and processes approximately 750,000 gallons of water per day to 5,700 customers in unincorporated Russell County. Russell County Water Authority is governed by a Board of Directors appointed by the Russell County Commission.
- **The Phenix City Department of Public Utilities** source of water is the Chattahoochee River. There is one water treatment plant which can process 13 million gallons of raw water per day. The supply is adequate to meet Phenix City's needs. There are five storage tanks which are in good condition and provide a combined storage capacity of 9,000,000 gallons. The Phenix City Department of Public Utilities is owned by the City of Phenix City.
- **The Town of Hurtsboro Water Works** source of water for their service area is one ground well. In addition, they purchase water from the Russell County Water Authority. The average usage is 114,771 gallons per day. An elevated water tank has a 100,000 gallon storage capacity. The Hurtsboro Water Works is governed by the Town of Hurtsboro.
- **The Fort Mitchell Water System** utilizes 6 groundwater wells as their main water source and has three water tanks and one booster pump. Storage capacity is 1.5 million gallons which is adequate for their needs. The Fort Mitchell Water System serves 4,127 customers in unincorporated eastern Russell County. The Fort Mitchell Water System is a not-for-profit organization and is not affiliated with any municipal or county government.

Sewer Services (Source: *2010 US Census, Phenix City Utilities, Hurtsboro Water and Sewer*)

Only Phenix City and Hurtsboro are served by a public sewer system. Nearly one-half (47%) of the households in Russell County do not have access to public sanitary sewer

service. Unincorporated communities in Russell County without sewer services include Fort Mitchell, Ladonia, Seale, Pittsview and Cottonton.

- Phenix City has one wastewater treatment plant that was upgraded between 1988 and 1991. It should have a capacity of 7 million gallons a day but in reality has a treatment capacity of 3.5 million gallons per day, which is not sufficient for their needs.
- In the Town of Hurtsboro, a lagoon serves as their wastewater treatment facility. The maximum amount of wastewater that can be treated is 200,000 gallons. The average wastewater treated per day is 50,000 gallons. There are four sewer lift stations that serve Hurtsboro.

Transportation

Phenix City residents have easy access to the I-85 connector that runs north and south through Columbus, GA. U.S. Highways 280 and 431 also run through Russell County. U.S. 80, extending from Savannah, GA, to San Diego, CA, passes through the southern part of the county. Alabama State Highways (1, 8, 26, 51, 165, and 169) connect the county with the major U.S. Highways. In addition, water transportation is available on the Chattahoochee River. Services are provided by the Alabama State Docks, which gives inland waterway access to the Gulf of Mexico.

The Lee-Russell Council of Governments provides public transit in Russell County. The transit system has a fixed route in Phenix City, Phenix City Express (PEX). The system provides a demand response service for those who are certified by a physician to receive it. The demand response includes residents in the urban and rural areas of the county.

There are no airports in Russell County.

Natural Gas Service

Alabama Gas Corporation serves approximately 9,724 customers in Russell County.

Electrical Service

The table below shows the availability of electrical service in the County.

Table 3.2: Electrical Services in Russell County

Name of Supplier	Jurisdiction	Number of Customers Served
Alabama Power Company	Phenix City Russell County	20,927
Tallapoosa River Electric Cooperative	Russell County Hurtsboro	7,930

Telecommunications

AT&T provides adequate telephone service to Russell County. Cable TV of East Alabama and Comcast provide cable and internet service. According to the National Broadband Map, the following entities provide broadband in Russell County: RM Greene Inc. (Cable TV of East Alabama), T Mobile, Verizon, Sprint/Nextel and AT&T.

Solid Waste

At this time, jurisdictions in Russell County are disposing their solid waste at two locations. The first location is the Salem Waste Disposal Center which is a regional landfill. The second location is a transfer station operated by Sunflower Waste located in the City of Opelika. Russell County is currently under an emergency agreement to which allows them to dispose of their solid waste at both Waste Management and Sunflower Waste until they can bid out this service. While, the City of Phenix City is currently disposing with Waste Management and the Town of Hurtsboro is transporting their solid waste to the transfer station at Sunflower Waste.

3.7 Residential Assets

According to the 2010 Census there are 15,198 occupied housing units in the City of Phenix City. According to the 2008-2012 American Community Survey (ACS) estimates, the median value of homes in Phenix City was \$112,400. The ACS estimated there were 377 mobile homes in the City.

The Town of Hurtsboro has 251 occupied housing units. According to the 2008-2012 American Community Survey (ACS) estimates, the median value of homes in Hurtsboro is \$53,100. The ACS estimated there were 105 mobile homes in Hurtsboro.

According to the 2010 Census there are 7,735 occupied housing units in unincorporated Russell County. According to the 2008-2012 American Community Survey (ACS) estimates, the median value of homes in unincorporated Russell County was \$97,750. The ACS estimated there were 2,718 mobile homes in the County.

SECTION 4: THE PLANNING PROCESS

Section Revisions:

The following Revisions were made to Section 4: The Planning Process

General: Section 4 was re-formatted;

4.1: Section Overview- No changes;

4.2: Agency Coordination in the Planning Process

- The committee name was changed to Stakeholder and Technical Advisory Committee;
- The meetings of the Stakeholder and Technical Advisory Committee were updated to reflect the 2014 dates and agendas of the meetings;
- The process used to collect data from the Stakeholder and Technical Advisory Committee was updated;
- Tables showing Committee participation by jurisdiction and sector were added;
- School Boards and Water Authorities were included as jurisdictions;

4.3: Public Participation in the Planning Process

- The documentation of public participation in the planning process was updated to include public meeting to present the final draft at the City of Phenix City Council Work Session and Russell County Commission meeting;

4.4: Integration with Other Planning Efforts

- The existing plans, studies, reports and technical information that were reviewed for integration into the updated plan were updated;

4.1 Overview of Section 4

This section documents the planning process which details the opportunities for the public to comment on the plan at all stages of its formation, and the involvement of any neighboring communities, interested agencies, and private and non-profit organizations.

This section will document the planning process, including how the plan was prepared, who was involved in the process, and how the public was involved. The planning

process also included a review of all existing plans or studies and their incorporation, as appropriate.

4.2 Agency Coordination in the Planning Process

The planning process for the Russell County Natural Hazards Mitigation Plan Update began with a meeting between the Lee-Russell Council of Governments (LRCOG) and Russell County Emergency Management Agency (RCEMA) on December 11, 2013. The purpose of the meeting was to review the existing plan, determine what entities needed to be involved in the update process, and schedule committee and public meetings.

It was determined to continue with the same local governments that were in the original plan: City of Phenix City, the Town of Hurtsboro, and Russell County. In January, representatives of LRCOG and the Russell County Emergency Management Agency attended the Phenix City Council meeting, Hurtsboro Town Council meeting and Russell County Commission meeting to inform the governing bodies of the Hazard Mitigation Plan Update and request their participation and support of the process. All local governments chose to participate in the update and nominated members to represent them at the meetings of the Stakeholder and Technical Advisory Committee. (See Table 4.1)

LRCOG, after consultation with RCEMA, mailed invitations to key personnel to serve on the committee. (A sample invitation letter and the mailing list can be found in Appendix A/Tab 7) Most of the entities invited were involved in previous mitigation planning efforts.

Ultimately, committee membership included elected officials, city and county administrators, local school and junior college representatives, public safety and emergency service representatives, city and county engineers, public works officials, state agency personnel, representatives from neighboring communities, and medical professionals. Sign in sheets, and agendas are in Appendix B/Tab 8. Handouts and power point presentations from the committee meetings are kept in the Russell County Natural Hazards Mitigation Plan files.

For this update, Alabama Emergency Management Agency advised that School Boards and Water Boards should be categorized as jurisdictions.

Table 4.1: Jurisdictional Representatives

Jurisdiction	Representative(s)	Title/Position
Hurtsboro	Vivian Covington (official)	Council Member
City of Phenix City	Arthur Day (official)	Council Member
	Gail Head	Council Member
	Ray Smith	Police Chief

Jurisdiction	Representative(s)	Title/Position
	Kristen Kennedy Roger Conner Paul Chastain Matthew Sellers	Fire Chief Phenix City Utility Director Engineer Engineer
Russell County	Peggy Martin (official) LeAnn Horne Jarrod Barr Shawn Blakeney Naomi Elliott Mark Clark	Commission Chairman County Administrator Russell County Sheriff Russell County Engineer Revenue Commissioner Russell County Water Authority
Fort Mitchell Water and Sewer	David Ellis	Director
Hurtsboro Water Works	John Dozier	Manager
Phenix City School System	Darrell Selden	Director of Curriculum and Instruction
Russell County School District	Dr. Mike Green	Superintendent

Table 4.2: Sector Representatives

Sector	Representative(s)	Organization
Local Government	See Table 4.1	
Emergency Management	Bob Franklin Jan Kemp	RCEMA RCEMA
Higher Education	Jack Miller	Troy State University
Utilities	Steve Williams Carl Currington Also see Table 4.1	Tallapoosa River Electric Russell County Sanitation
Medical	Ensley Russell Natalie Simpson Marty Nelson	Jack Hughston Hospital Jack Hughston Hospital American Red Cross
State Agencies	Michael Batton Omar Armstrong Ted Gilbert	ALDOT ALDOT Alabama Extension Service
Neighboring Communities	Kathy Carson Cathy Kee Riley Land	Lee County EMA Columbus, GA Columbus, GA
Regional Commission	Lisa Sandt	Lee-Russell Council of Governments

Committee meetings in February and April were open to the public. Meeting announcements were made at council and commission meetings and meeting information was posted on the LRCOG and RCEMA websites. Additionally, the Citizen

of East Alabama featured two editorials urging the community to get involved in hazard mitigation planning. (Appendix B/Tab 8)

The first meeting of the Russell County Hazard Mitigation Stakeholder and Technical Advisory Committee was held on February 6, 2014 in the Commission Chambers of the Russell County Courthouse. Thirty individuals attended the meeting. Russell County School District and Hurtsboro Water Works were not represented at the meeting. All other jurisdictions were present. Sign in sheets can be found in Appendix B.

Please note: The Russell County School District and Hurtsboro Water Works provided information on their assets, critical facilities and were given an opportunity to review the plan outside of the meetings.

The February meeting included discussion of the following: the requirements of a hazard mitigation plan as detailed in 44 CFR201.6, the role of the committee members in the process, projected timelines, as well as a review of the existing mission and current risk assessment.

Historical information on the impact of each natural hazard on Russell County was shared with the committee. Based on a review of the past hazard occurrences in Russell County, committee members worked together to complete a Hazard Profile Worksheet and Risk Index Worksheet.

Following the meeting, the results of the Committee's Mission and Hazard Mitigation Review were tabulated and posted on the internet. The public was invited to view the meeting power point presentation and complete a hazard risk assessments for the County via social media, print media and LRCOG and RCEMA websites. Website records show the powerpoint slides and assessment tool were viewed 139 times in March, 2014. However, no completed assessments were received from the public.

The second meeting of the Russell County Hazard Mitigation Stakeholder and Technical Advisory Committee was held on April 17, 2014 in the Commission Chambers of the Russell County Courthouse. Twenty-six individuals attended the meeting.

Hurtsboro's designated representative was unable to attend due to illness. Meeting materials were forwarded to her at her request. Russell County School District and Hurtsboro Water Works were not represented at the meeting. All other jurisdictions were represented at the meeting. Sign in sheets are located in Appendix B.

Please note: The Russell County School District and Hurtsboro Water Works provided information on their assets, critical facilities and were given an opportunity to comment on the mitigation strategy outside of the meeting.

At the April meeting, the committee reviewed the results of the risk assessment completed at the first meeting and then focused on updating goals, objectives, mitigation actions and the plan maintenance procedures.

Again working in small groups, members determined which portions of the mitigation strategy should be kept as is, revised or deleted by asking themselves the following questions:

- a) Has the nature, magnitude, and/or type of risks/vulnerabilities changed?
- b) Do the goals and objectives address current and expected conditions?
- c) Are the current resources appropriate for implementing the plan?
- d) What is the status of implementing the mitigation actions?
- e) Are there implementation problems associated with mitigation actions?
- f) Have the outcomes occurred as expected?
- g) How are coordination efforts with the public and other community agencies proceeding?

Before the committee adjourned their April meeting, they agreed to keep the same plan maintenance strategy that was outlined in the existing plan.

Committee members and other key stakeholders were contacted by LRCOG staff throughout April, May, and June to collect and verify information on assets, critical facilities, population change, structural inventories, jurisdiction holdings and future plans for development. This data collection occurred through in person and telephone interviews as well as email requests.

Entities and individuals **not listed** in Tables 4.1 and 4.2 who contributed to the Russell County Hazard Mitigation Plan update by providing information via phone, e-mail or interviews, are listed below.

Assets and Critical Facilities

Michelle McAndrews, Alabama Power Company District Manager
Kerry Pope, Alabama Gas Company District Manager
Fran Jennejohn, Hurtsboro Town Clerk
Stephen Smith, Phenix City Finance Director

Major Employers/Development Trends

Shaun Culligan, Phenix City Economic Development Director
James McGill, Russell County Chamber of Commerce Assistant Director
Taylor Dobson, Lee-Russell Council of Governments RLF Coordinator

Hazard Profile Information

David Boozer, Alabama Forestry Commission
Russell County Volunteer Fire Fighter's Association
Phillip Hicks, ADECA Office of Water Resources

Entities, who were invited to participate in the Hazard Mitigation Plan Update but chose not to participate, are listed below.

Corporations:

Mead WestVaCo
Continental Carbon Company

Military:

Fort Benning

Post Secondary Education:

Chattahoochee Valley Community College

Once the stakeholder committee meetings and public meetings/surveys were complete and all data collection was finalized, the Committee was emailed the draft plan update for their review and comment.

4.3 Public Participation in the Planning Process

Public participation was sought through multiple strategies throughout the planning process.

All committee meetings were open to the public and announced at town meetings, council meetings and county commission meetings. The Phenix City Council and Russell County Commission meetings are televised on local cable television.

Committee meeting materials were made available on line at www.lrcog.com. The public was invited to complete their own risk assessment for the County by viewing a power point presentation of historical hazard information and downloading the Risk Assessment worksheet via social media, print media and websites.

A Citizen Survey was developed and distributed to the public at the annual Russell County Be Ready Day on May 17, 2014. The survey was also available for download on line at www.lrcog.com.

A draft of the update was made available for review and comment by the public during August, 2014 on the LRCOG website. A final opportunity for the public to provide input was made available during the presentation of the Russell County Natural Hazards

Mitigation Plan Update at the City of Phenix City Council Work Session, The Hurtsboro Town Council Meeting and the Russell County Commission Meeting.

A copy of the final plan approved by FEMA will be placed on the LRCOG website and at the office of the Russell County Emergency Management Agency, Russell County Commission and at the offices of the Mayors of Phenix City, and Hurtsboro for further examination by interested citizens once it is approved by the Federal Emergency Management Agency.

4.4 Integration with other Planning Efforts

At this time, the planning documents that apply and will be integrated into the Russell County Natural Hazards Mitigation Plan include:

- City of Phenix City Strategic Plan
- Phenix City Land Use Plan
- Phenix City Zoning Ordinance
- Russell County Comprehensive Plan
- Russell County Subdivision Regulations
- Russell County EMA EOP

As other plans are identified or developed by each jurisdiction, it will be reviewed and applicable plans will be integrated into the Russell County Natural Hazards Mitigation Plan.

Please note: The Town of Hurtsboro has no planner, engineer, public safety officials or planning documents at this time.

SECTION 5: RISK ASSESSMENT

Section Revisions:

The following revisions were made to Section 5, Risk Assessment:

General: Section 5 was reformatted;

5.1 Overview of Section 5: No changes;

5.2 Identifying Hazards

- Dam/Levee failure was determined by the Committee to be man-made rather than a natural hazard and was not profiled in this update;
- Hail was profiled as a separate hazard;
- “Severe Storms” was changed to “Thunderstorms” in this update;
- Tropical Depressions were included as part of Tropical Storms;

5.3 Profiling Hazard Events

- Hazards are listed in alphabetical order;
- Maps were updated;
- Some illustrations, not specific to Alabama or Russell County were removed;
- Data sources were updated;
- Information relating to previous occurrences and future probability for each hazard was updated;
- The vulnerability rankings of each hazard based on the risk to each jurisdiction were changed to reflect the work done by the committee and input from the public.

5.4 Assessing Vulnerability: Identifying Assets/ Estimating Potential Dollar Losses

- Each jurisdiction’s current asset inventory and critical facility designation was updated;
- Asset valuations were updated;
- Development trends were updated to include new population numbers, new industry and information from new Comprehensive Development Plans adopted

by the City of Phenix City and Russell County Commission.

5.5 Assessing Vulnerability: Analyzing Development Trends

- Information from the 2011 Russell County Comprehensive Plan, Center for Business and Economic Research, Alabama Center for Real Estate and Bureau of Economic Analysis was used to update development trends in Russell County;
- Development goals from the 2009 CED, added in 2009, were removed because they were outdated.

5.1 Overview of Section 5

The Risk Assessment Section provides a detailed description of all the natural hazards that could affect the jurisdictions of Russell County along with an analysis of each jurisdiction's vulnerability to those hazards. Jurisdictions include City of Phenix City, Russell County and the Town of Hurtsboro. Specific information about numbers and type of structures, potential dollar losses and overall description of land use trends in the jurisdictions are also included in this section. Any risk that affects only certain sections of the planning areas is addressed separately in the context of the affected area. The Phenix City School System shares the same risks and vulnerabilities as Phenix City. The Hurtsboro Water Works shares the same risks and vulnerabilities as the Town of Hurtsboro. The Russell County School District and Fort Mitchell Water System share the same risks and vulnerabilities as Russell County.

5.2 Identifying Hazards

The Stakeholder and Technical Advisory Committee considered all the natural hazards that can affect the jurisdictions in Russell County. The committees used personal and professional experience, internet information, risk assessment reports, past occurrences, public input and other resources to identify hazards that are most likely to affect the jurisdictions in Russell County.

The Committee identified ten natural hazards as having a possible impact on the jurisdictions of the City of Phenix City, Russell County and Town of Hurtsboro. This vulnerability analysis was a result of extensive input by the committee and the sources listed above to determine the overall vulnerability ranking for each hazard.

The Russell County Natural Hazards Profile and Risk Index was used to identify the hazards that presented a risk to the jurisdictions of Russell County. This worksheet was completed in order to provide a broad profile for each hazard relative to one another.

The committee classified the vulnerability of each jurisdiction to each hazard according to the frequency, and magnitude of previous events by examining past property/crop damage, loss of function, length of the event and impact on personal safety.

The result of this process was the creation of a risk index, which establishes numeric ratings for each hazard relative to one another. Based on this analysis, the Committee identified the following natural hazards as ones that continuously impact the jurisdictions of Russell County:

1. Drought/Heat Wave
2. Earthquake
3. Flood
4. Hail
5. Sinkhole
6. Thunderstorm/Lightning/High Wind
7. Tornado
8. Tropical Depression/Tropical Storm/Hurricane
9. Wildfire

10. Winter Storms

The Stakeholder and Technical Advisory Committee agreed with the determination made in previous plan updates that landslides, volcanoes and tsunamis were not a threat to the jurisdictions of Russell County. These assessments were based on the review of reports documenting no past occurrences and no probability of occurrence in the future. The Committee also determined after lengthy discussion that dams were manmade and would not be included in the Natural Hazard Mitigation Plan Update.

On page 5 you will find the **Hazard Profile and Risk Index Rating Key** used by the committees to determine the impact and extent of natural hazards on each jurisdiction. The results of their analysis are shown in **Table 5.1: Russell County Natural Hazard and Risk Index** on pages 6-7.

The Advisory and Stakeholder Committee meetings were advertised on the Lee-Russell Council of Governments and Russell County EMA websites. Citizens were invited to attend the meetings and/or access meeting materials and the Russell County Natural Hazard and Risk Index on line. Additionally, citizen surveys were available during the Russell County Be Ready Day on May 17, 2014. Forty-two surveys were completed and provided insight into the public's personal experience and level of concern for each natural hazard. The survey results can be found on pages 8 and 9.

**2014 RUSSELL COUNTY
NATURAL HAZARDS PROFILE AND RISK INDEX
RATING KEY**

Frequency: **How often the event will occur;**
 Highly Likely Near 100% probability in the next year
 Likely Between 10% and 100% in the next year, or 1 chance in every 10 years
 Possible Between 1% and 10% in the next year, or 1 chance in every 100 years
 Unlikely Less than 1% probability in the next 100 years

Magnitude: **The percentage of the jurisdiction affected by the hazard;**
 Large More than 50% affected
 Moderate 25%-50% affected
 Small 10%-25% affected
 Very Small Less than 10% affected

Severity Level: **How much damage to safety, property and function can be expected from the event;**

	Safety	Property	Function
Catastrophic (C)	Multiple deaths or injuries possible	More than 50% of property is severely damaged	Complete shutdown for more than 30 days.
Critical (CR)	Injuries/illnesses result in permanent disabilities	More than 25% of property is severely damaged	Complete shutdown of critical facilities for more than 1 week.
Limited (L)	Injuries/illnesses do not result in permanent disabilities	More than 10% of property is severely damaged	Complete shutdown of critical facilities for more than 1 day.
Negligible (N)	Very few injuries; treatable with first aid	Less than 10% of property is severely damaged	Shutdown of critical facilities for less than 24 hours.

Duration: **The length of time the hazard event lasts;**
 Long Days
 Medium Hours
 Short Minutes

Vulnerability Ranking: Based on the cumulative ratings of frequency, magnitude, severity and duration, rank each hazard on a scale from 1-10 (1=lowest risk; 10= highest risk). Hazards can have the same ranking.

TABLE 5.1: RESULTS OF RUSSELL COUNTY NATURAL HAZARDS PROFILE AND RISK INDEX

Hazard	Frequency <ul style="list-style-type: none"> • Highly Likely • Likely • Possible • Unlikely 	Magnitude <ul style="list-style-type: none"> • Large • Moderate • Small • Very Small 	Severity <ul style="list-style-type: none"> • Catastrophic (C) • Critical (CR) • Limited (L) • Negligible (N) 			Duration <ul style="list-style-type: none"> • Long • Medium • Short 	Vulnerability Rank From 1-10 10=High 1=Low (Median Used)	Geographic Areas Vulnerable to this Hazard
			Health	Property	Function			
Drought/Heat Wave	Likely	Large	N	L	N	Long	4	All of Phenix City, Hurtsboro, Russell County are vulnerable; Effects could be more devastating in rural areas with agricultural interests;
Earthquake	Unlikely	Very Small	N	N	N	Short	1	No jurisdictions have experienced this hazard, however all would be vulnerable should an earthquake occur;
Flood	Highly Likely	Small	N	L	L	Medium	5	All of Phenix City, Hurtsboro, Russell County are vulnerable; Specific repetitive flooding areas: Carson Drive (County) Long Street (Hurtsboro) Lower Main Street (Hurtsboro) Cochgalechee Creek Railroad Street (Phenix City) Riverfront Street (Phenix City) 8 th , 9 th Place (Phenix City) 7 th Street (Phenix City) Riverwalk (Phenix City) 13 th Street (Phenix City) Lake Subdivision (Phenix City) All structures near creeks, rivers, and tributaries are vulnerable to flood;
Hail	Highly Likely	Moderate	N	L	N	Short	4	All of Phenix City, Hurtsboro, Russell County are vulnerable;

Hazard	Frequency <ul style="list-style-type: none"> • Highly Likely • Likely • Possible • Unlikely 	Magnitude <ul style="list-style-type: none"> • Large • Moderate • Small • Very Small 	Severity <ul style="list-style-type: none"> • Catastrophic (C) • Critical (CR) • Limited (L) • Negligible (N) 			Duration <ul style="list-style-type: none"> • Long • Medium • Short 	Vulnerability Rank From 1-10 10=High 1=Low (Median Used)	Geographic Areas Vulnerable to this Hazard
Sinkhole	Possible	Very Small	N	N	N	Long	2	Naturally occurring sinkholes are rare but have been documented near Seale, Pittsview, Crawford and Hatchechubbee; Phenix City has experienced sinkholes in the Lake Subdivision due to drainage issues;
Thunderstorm Lightning High Wind	Highly Likely	Large	L	L	N	Medium	8	All of Phenix City, Hurtsboro, Russell County are vulnerable;
Tornado	Likely	Moderate	CR	CR	L	Short	7	All of Phenix City, Hurtsboro, Russell County are vulnerable;
Tropical Depression/ Tropical Storm/ Hurricane	Possible	Large	N	L	L	Medium	4	All of Phenix City, Hurtsboro, Russell County are vulnerable;
Wildfire	Likely	Small	N	N	N	Medium	4	Hurtsboro and Russell County are vulnerable to this hazard; Phenix City is not vulnerable;
Winter Storm	Likely	Large	N	L	L	Long	3	All of Phenix City, Hurtsboro, Russell County are vulnerable;

**RUSSELL COUNTY ALABAMA HAZARD MITIGATION PLAN UPDATE
2014 PUBLIC SURVEY RESULTS**

The information from this survey will help Russell County EMA develop effective strategies to reduce the effects of hazards such as floods, tornadoes and severe storms on life and property.

1. Where in Russell County do you live?

- 0 live in Hurtsboro
- 29 live in Phenix City
- 13 live in Unincorporated Russell County

2. Do you live in a flood plain?

- 4 said Yes
- 22 said No
- 16 said I don't know

Do you have National Flood Insurance?

- 5 said Yes
- 33 said No
- 4 said I don't know

3. How prepared do you feel your household is for natural disaster events such as tornadoes, floods or severe storms?

- 9 are Not prepared
- 21 are Somewhat Prepared
- 10 are Prepared
- 2 are Very Prepared

What would help you feel more prepared? *(Check all that apply to you/your household)*

- 13 would like Educational brochures
- 14 would like Community classes on natural hazards
- 21 would like an Individual Safe Room
- 11 would like Community shelters
- 5 would like to Relocate to a safer location
- 20 would like a Readiness kit

4. Which information sources are the most effective at warning you of approaching storms or natural hazards in Russell County? *(Check all that apply to you)*

- 31 use Cell phone/Phone App
- 14 use Facebook
- 3 use Internet Web Site
- 2 use iPad
- 4 use Newspaper
- 18 use Radio
- 22 use Outdoor Siren
- 23 use Television
- 7 use Telephone
- 4 use Twitter
- 18 use Weather Alert Radio

5. Please indicate your personal experience and level of concern about the effects of each natural hazard's potential impact on life and property in Russell County.

Hazard	Have Experienced	Not Concerned	Concerned	Very Concerned
Drought/ Heat Wave	11	7	11	6
Earthquake	9	11	9	2
Flood	10	7	10	5
Hail	20	3	12	6
Sinkhole	3	7	9	6
Thunderstorm/ Lightning/Wind	21	1	13	8
Tornado	18	1	11	14
Wildfire	9	9	10	5
Winter Storm	19	4	12	7
<p><i>Please leave this survey with the person who gave it to you today or mail to: Barbara Scott, Lee-Russell Council of Governments; 2207 Gateway Drive; Opelika, AL 36801 Questions: 334-749-5264, ext. 237 or Barbara.scott@adss.alabama.gov</i></p>				

5.3 Profiling Hazard Events

The Committee was provided with the location, impact, and extent of all natural hazards that could affect the jurisdictions in Russell County. The profile included the following information:

- Description of previous occurrences of hazard events in terms of their severity and resulting impacts on the jurisdictions; and
- Description of the probability of future hazard events for each identified hazard to include the magnitude or severity of the hazard, geographical areas in the community that would be affected, and the conditions that make it prone to the hazard.

When appropriate and possible, the hazard analysis identified on a map the area affected by each identified hazard. If a jurisdiction was impacted by a natural hazard differently than other jurisdictions, it was detailed under each hazard.

The data sources used to profile the natural hazards impacting the jurisdictions of Russell County were taken from various internet and local sources to include but not limited to the following: Alabama Department of Forestry, ADECA Office of Water Resources and Floodplain Management, Geological Survey of Alabama, National Climatic Data Center, NOAA Alabama Tornado Database, USDA Farm Service Agency, FEMA, Alabama EMA, and Russell County EMA.

The record of past occurrences varies by hazard according to the source of data and the level of detail is different according to the availability of data. Some natural hazards have reporting dates back to 1875 while others only go back as far as 2002. Additionally, the data that is available for some natural hazards, such as sinkholes, is very limited due to a lack of a centralized reporting system.

In some cases, there was little or no data which makes it difficult to describe future occurrences and overall vulnerability to the hazard. Appendix E has additional support resources regarding the natural hazards that affect the jurisdictions in Russell County.

This plan will profile the following hazards: Drought/heat wave, earthquakes, floods, hail, sinkholes, thunderstorms, tornado, tropical depression/tropical storms/hurricanes, wildfire and winter storms. Dam/levee failure was determined by the Committee to be a manmade rather than natural hazard. Volcanoes, landslides, and tsunamis will not be profiled since they do not pose a significant threat to the jurisdictions in Russell County.

Please note: The Phenix City School System shares the same risks and vulnerabilities as Phenix City. The Hurtsboro Water Works shares the same risks and vulnerabilities as the Town of Hurtsboro. The Russell County School District and Fort Mitchell Water System share the same risks and vulnerabilities as Russell County.

DROUGHT/HEAT WAVE

Overview

Temperatures that hover 10 degrees or more above the average high temperature for the region and last for several weeks are defined as extreme heat. Humid or muggy conditions, which add to the discomfort of high temperatures, occur when a “dome” of high atmospheric pressure traps hazy, damp air near the ground. Excessively dry and hot conditions can provoke dust storms and low visibility. Droughts occur when a long period passes without any substantial rainfall. A heat wave combined with a drought is a very dangerous situation.

The immediate threat from a heat wave is the following: 1) Strain – occurs when hot weather and/or exertion threaten to raise your body core temperature; 2) Impairment – occurs when your body temperature approaches 102 degrees Fahrenheit, creating an abnormal state that disrupts normal physical and mental functions; and 3) Emergencies – when the heat strain from overexposure last too long or become too severe, collapse from water depletion, heatstroke, or heart attack may occur.

The long-term dangers of a drought can have serious economic impact on a community. Agricultural production can be damaged or destroyed by loss of crops or livestock, resulting in food shortages. The increased demand for water and electricity can result in shortages of these resources. When combined with extreme heat, droughts can make life very difficult especially if the situation lasts for a long time.

Previous Occurrence of a Drought/Heat Wave

The reported data is limited concerning previous occurrences of droughts and heat waves for each jurisdiction. Most cases found to document these natural hazard events are part of a larger event that happened in multiple counties around the state. We were unable to obtain reliable estimates of property or crop damage in Russell County due to previous incidences of drought and/or heat wave although we know they occurred.

According to the National Climatic Database there have been 3 instances of excessive heat in Russell County. In August 2007, a ridge of high pressure, combined with very dry ground from a recent drought, produced the hottest month on record across Central Alabama. The heat wave began around August 4th, when the temperatures first topped the 100 degree mark in several cities. The mercury climbed above 105 degrees to as high as 109 degrees. Daily record maximum temperatures were broken or tied on 11 days in Anniston, 10 days in Birmingham, 12 days in Montgomery, and 14 days in Tuscaloosa, and all cities broke or tied their August maximum temperature records. At least 408 people required medical treatment due to the heat, and 11 people died due to heat-related illness across the state. One of those deaths occurred in Russell County

In 1977 and 2000, a federal disaster declaration was made due to droughts that occurred in Russell County. In 2011, Russell County experienced sustained extreme to exceptional drought conditions from January 2011 until December 2012. Water restrictions were in force across each jurisdiction in Russell County. The major impacts

of the drought were to farm crops and cattle farmers. The United States Department of Agriculture declared all of Russell County a natural drought disaster area in both 2012 and 2013. (See Appendix E)

Each jurisdiction in Russell County has experienced droughts and heat waves. Eleven of the 42 citizen survey responders indicated they had personal experience with drought/excessive heat events in Russell County. Tables 5.2 and 5.3 detail the previous occurrences of these hazards in Russell County. Extent in table 5.2 refers to the high temperature reached.

Table 5.2: Overview of Excessive Heat Events In Russell County By Year

Location	Date	Time	Type	Ext	Dt	Inj	PrD	CrD
<u>Russell (Zone)</u>	02/23/1996	08:00	Heat	83 F	0	0	0.0K	0.0K
<u>Russell (Zone)</u>	08/08/2007	12:00	Heat	104F	1	0	0.0K	0.0K
<u>Russell (Zone)</u>	07/01/2012	12:00	Heat	105F	0	0	0.0K	0.0K
Totals:					1	0	0.0K	0.0K

Source: National Climatic Data Center 2014

Table 5.3: Overview of Droughts In Russell County By Year

Location or County	Date	Time	Type	Ext	Dth	Inj	PrD	CrD
1 Russell (Zone)	07/11/2006	07:00 AM	Drought	N/A	0	0	OK	OK
2 Russell (Zone)	08/01/2006	12:00 AM	Drought	N/A	0	0	OK	OK
3 Russell (Zone)	09/01/2006	12:00 AM	Drought	N/A	0	0	OK	OK
4 Russell (Zone)	04/01/2008	00:00 AM	Drought	N/A	0	0	OK	OK
5 Russell (Zone)	06/24/2008	06:00 AM	Drought	N/A	0	0	OK	OK
6 Russell (Zone)	07/01/2008	00:00 AM	Drought	N/A	0	0	OK	OK
7 Russell (Zone)	08/01/2008	00:00 AM	Drought	N/A	0	0	OK	OK
8 Russell (Zone)	09/21/2010 to 11/23/2010	0:00 AM	Drought	N/A	0	0	OK	OK
9 Russell (Zone)	01/01/2011 to 12/01/2012	0:00 AM	Drought	N/A	0	0	OK	OK
10 Russell (Zone)	01/01/2013 to 2/1/2013	0:00 AM	Drought	N/A	0	0	OK	OK

Source: National Climatic Data Center 2014

Future Probability of a Drought/Heat Wave

Drought and excessive heat are a concern for each jurisdiction in Russell County. Forty percent of the Citizen Survey responders indicated they were concerned or very concerned about the effects of drought.

The Stakeholder and Technical Advisory Committee determined that it was likely excessive heat and drought would occur in the future. They determined there was a 10% to 100% chance in the next year or at least one chance in 10 years of these events happening in each jurisdiction of Russell County. The Committee determined the magnitude of these hazards would be large, with more than 50% of each jurisdiction being affected. The threat of loss or damage to property ranked as limited with only 10% to 25% of the property affected being damaged or destroyed. The threat to safety and functions due to drought was ranked as negligible, with very few injuries that are treatable with first aid.

Hurtsboro, Phenix City and Russell County are all vulnerable to the effects of drought and excessive heat. Overall, the risk to each jurisdiction in Russell County was ranked a 4, medium by the Committee. It was agreed that the effects of drought and heat wave may affect agricultural concerns more deeply than other entities.

EARTHQUAKE

Overview

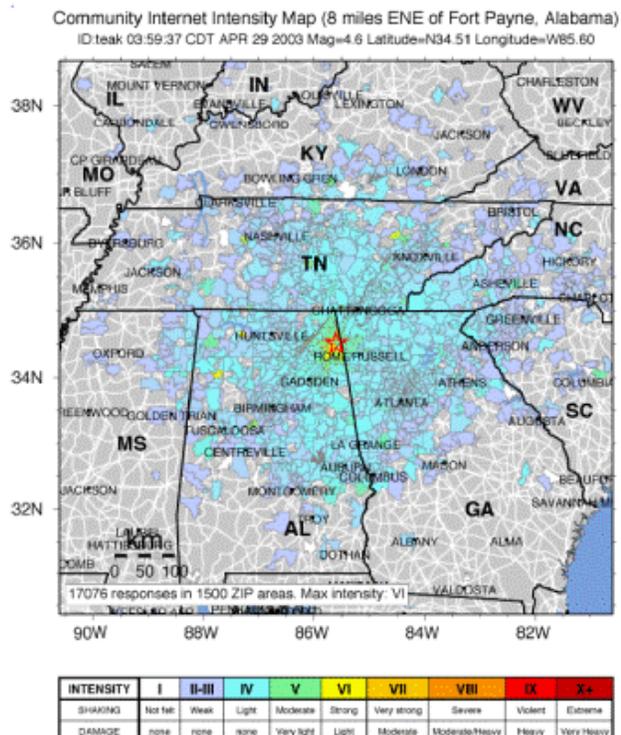
An earthquake is a sudden, rapid shaking of the Earth caused by the breaking and shifting of rock beneath the Earth's surface. This shaking can cause buildings and bridges to collapse; disrupt gas, electric, and phone service; and sometimes trigger landslides, avalanches, flash floods, fires, and huge, destructive ocean waves (tsunamis).

Earthquake strength is measured by magnitude and intensity. Magnitude refers to the energy released or the amount of slip occurring during the earthquake. The most commonly known measurement used for earthquake magnitude is the Richter Scale. The Richter Scale measures earthquake magnitude from <2(micro; not felt) to 10 (great; total destruction) with a seismograph.

The Modified Mercalli Intensity Scale is used to measure the intensity of the shaking caused by an earthquake not just at the center of the quake but at many locations. The Mercalli Scale measures intensity from I (not felt) to XII (extreme destruction) and is based on the reports and observations from people in affected areas. The United States Geological Service utilizes information from the Mercalli Scale to develop ShakeMaps and historic isoseismic maps.

Previous Occurrence of Earthquakes

Earthquakes are not uncommon in Alabama. There are four seismic zones in or close to the state: the New Madrid Seismic Zone, the Southern Appalachian Seismic Zone, the South Carolina Seismic Zone and the Bahamas Fracture Seismic Zone.



Most of the earthquakes experienced in Alabama are associated with the Southern Appalachian Seismic Zone which extends into northern and north central Alabama. None of the seismic zones are located in Russell County. However there is a terrane boundary fault located in extreme southern Russell County. (Map 5.1)

While there are no reported instances of earthquakes centered in Russell County (Map 5.2), there are rare instances of tremors / quakes that happened hundreds of miles away that may have been felt in Russell County.

The 4.9 magnitude Fort Payne Earthquake on April 29, 2003, was felt across Alabama and multiple southeastern states. As

depicted in the graphic on page 14 from the Geological Survey of Alabama, the earthquake was felt in Russell County. The Modified Mercalli Intensity Scale indicates the shaking was weak to light with no resulting damage in Russell County.

Tables 5.4 details previous Earthquakes in Alabama or the Southeast which the Geological Survey of Alabama feels may have been felt in the jurisdictions of Russell County. Extent in table 5.4 is shown by the both the magnitude of the earthquake at its epicenter and the Modified Mercalli Intensity Scale rating for Russell County

Table 5.4 Previous Earthquake Events Which Were Felt in Russell County.

Epicenter	Date	Magnitude at Epicenter	Mercalli Intensity In Russell	Shaking	Damage	Inj /Dth
1 Memphis, TN (New Madrid)	02/07/1812	>7.0	IV	Light	None	None
2 Charleston, SC	08/13/1886	7.3	IV	Light	None	None
3 Irondale, AL	10/18/1916	5.1	III	Weak	None	None
4 Fort Payne, AL	04/29/2003	4.9	III/IV	Weak/Light	None	None

Nine responders to the Citizen Survey indicated they had previous experience with earthquakes. It is assumed that most of this experience occurred outside of Russell County.

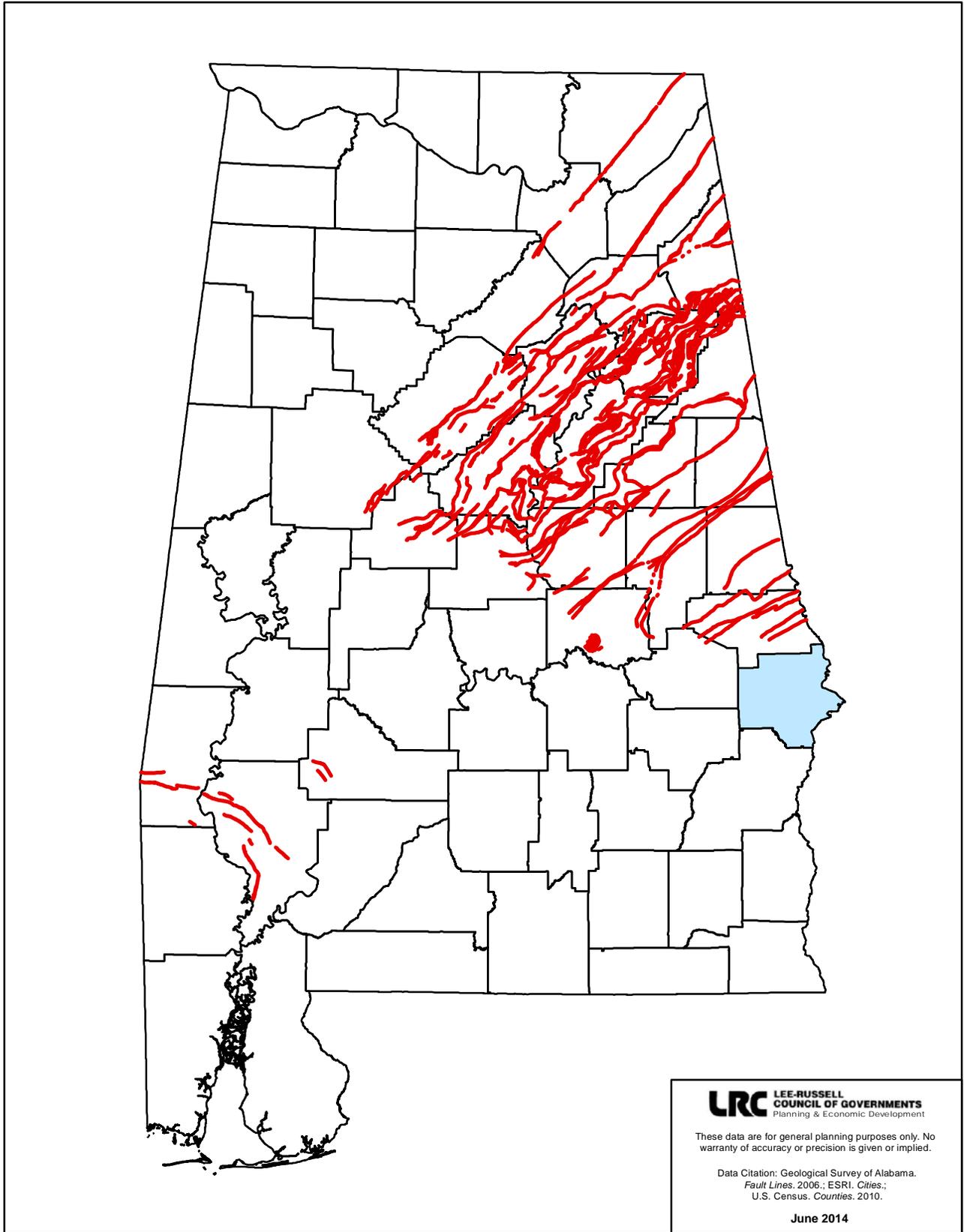
Future Probability of an Earthquake

The probability that an earthquake will occur in any of the jurisdictions in Russell County was ranked unlikely by the Stakeholder and Technical Advisory Committee, with less than 1% probability in the next 100 years. Only 2 responders to the Citizen Survey indicated they were very concerned about the effects of earthquakes in Russell County.

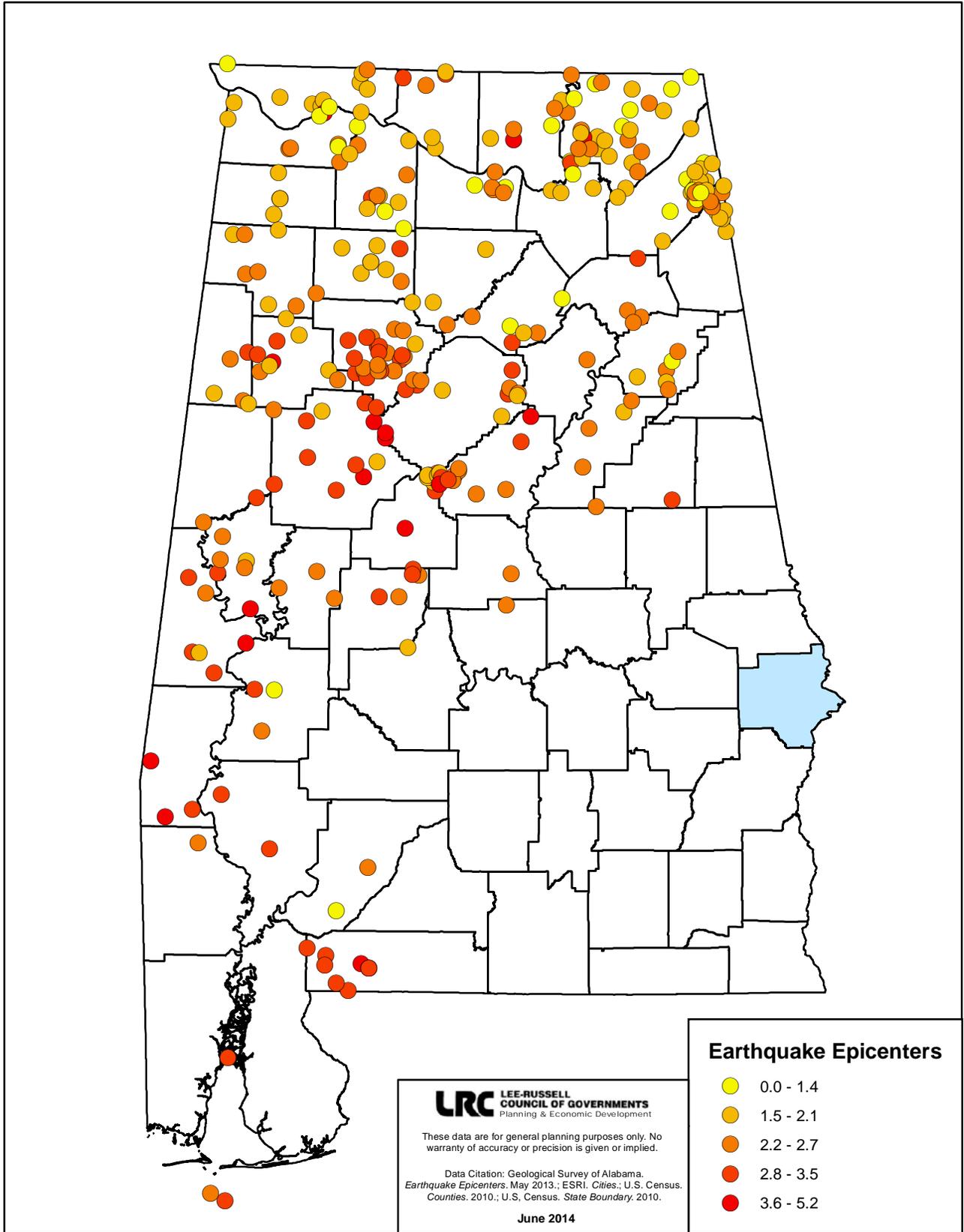
The threat of loss or damage to property and functions was ranked as negligible with less than 10% of the property affected being damaged or destroyed and less than 24 hours for shutdown of facilities if an earthquake occurred. The threat to safety was also ranked as negligible, with no serious injuries taking place.

Overall, the Committee rated the vulnerability of Hurtsboro, Phenix City and Russell County to earthquakes to be a 1, very low.

Map 5.1 - Geologic Fault Lines



Map 5.2 - Earthquake Epicenters (as of May 2013)



FLOOD

Overview

Floods are the most common and widespread of all natural disasters--except for fire. Most communities in the United States have experienced some kind of flooding, after spring rains, heavy thunderstorms, or winter snow thaws. Floods can be slow or fast rising.

A flood, as defined by the National Flood Insurance Program, is: "A general and temporary condition of partial or complete inundation of two or more acres of normally dry land area or of two or more properties (at least one of which is your property) from: overflow of inland or tidal waters, unusual and rapid accumulation or runoff of surface waters from any source, or a mudflow.

A flash flood is usually the result of extremely heavy rain or snow and is sudden. Raging torrents flow very fast through river bends after these heavy rains causing water to push forward well beyond banks and sweeping everything before them. Houses, bridges, and boulders can be tossed and rolled by a flash flood. No area in the United States is completely free from the threat of floods.

Mainstream flooding on Alabama Rivers occurs just about every year. Flooding occurs most frequently between November and April, with a peak from February through April. However, flooding does occur at other times, when tropical storms or depressions track across the area in late summer and early fall.

The immediate threat from a flash flood/ flood is from the strength of the water, carrying debris and causing injuries and drowning. The long-term dangers are outbreak of disease, widespread animal deaths, broken sewer lines and widespread water supply decontamination, power outages, and fires. Additionally, large scale flooding can disrupt a community for a long time while the utilities are restored, debris cleaned, and property are repaired.

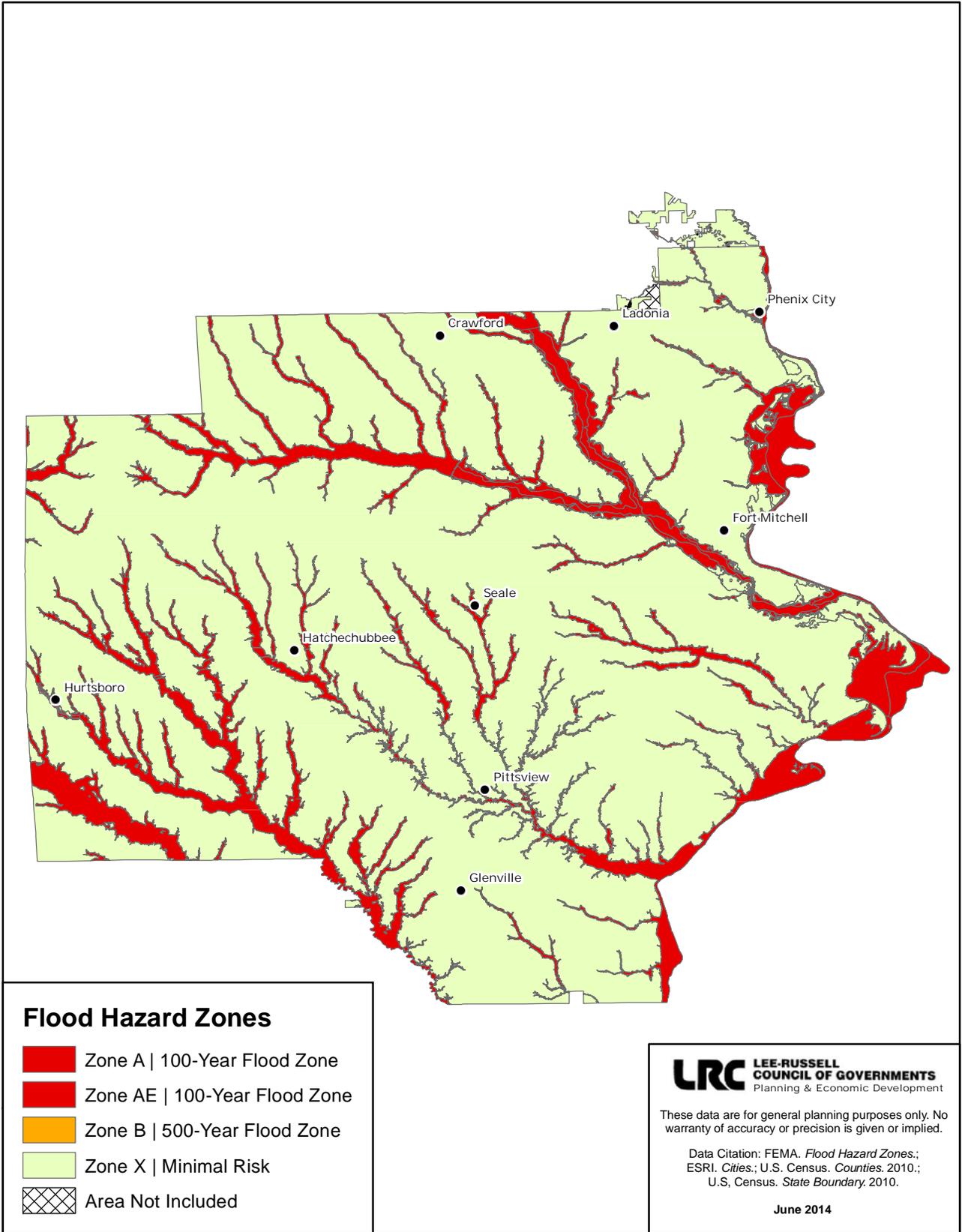
FEMA Floodway Maps were updated in 2010 and are available digitally. However, in 2012-2013, dams were removed from the Chattahoochee River to enable the construction of an urban whitewater rafting course. The removal of the dams has triggered a new review of floodways along the Chattahoochee, especially in the Phenix City area. Map 5.3 depicts flood hazard zones in Russell County as of 2010.

Previous Occurrence of a Flood

In the years of 1975, 1980, and 2003, a federal disaster declaration was made due to floods that occurred in Russell County. These floods caused approximately \$2 million in property damage and approximately \$55,000 million in crop damage.

Russell County, since 1969, has relied on the Federal Disaster Declaration five times for flooding, either alone or as associated with a severe storm or tropical storm. Since 1974, Russell County has made fourteen flood claims according to the Federal

Map 5.3 - Flood Hazard Zones



Flood Hazard Zones

- Zone A | 100-Year Flood Zone
- Zone AE | 100-Year Flood Zone
- Zone B | 500-Year Flood Zone
- Zone X | Minimal Risk
- Area Not Included

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These data are for general planning purposes only. No warranty of accuracy or precision is given or implied.

Data Citation: FEMA. *Flood Hazard Zones*.; ESRI. *Cities*.; U.S. Census. *Counties*. 2010.; U.S. Census. *State Boundary*. 2010.

June 2014

Emergency Management Agency. These floods caused approximately \$4.5 million in property damage and \$290,000 in crop damage. Ten responders to the Citizen Survey indicated they had had previous personal experience with flooding.

According to the National Flood Insurance Program data there are 60 policies in place in Russell County, 126 in Phenix City and 4 in Hurtsboro.

A repetitive flood loss property is defined as any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978. A repetitive loss property may or may not be currently insured by the NFIP. Currently there are over 122,000 repetitive properties nationwide. There are no repetitive flood loss properties in Russell County, according to data provided by the Alabama State NFIP Coordinator.

Each Jurisdiction in Russell County participates in the NFIP and has provided a Statement of Participation to be included in this plan. These statements can be found in Appendix E.

According to local officials, flooding has occurred in all jurisdictions in Russell County in the following areas:

Russell County	Carson Drive	2-3 structures	Residential
Hurtsboro	Long Street	3 structures	Residential
Hurtsboro	Lower Main Street	2 structures	Residential
Phenix City			
Phenix City	8 th Street	5 structures	Residential
Phenix City	7 th Street	4 structures	Residential
Phenix City	9 th Place	2 structures	Residential
Phenix City	Lake Subdivision	2 structures	Residential

One jurisdiction, Hurtsboro, experienced severe flooding in March of 2005. This affected homes, public facilities and citizen safety. Responders included The Russell County Sheriff's Office, The Hurtsboro Volunteer Fire Department, The Russell County Emergency Management Agency, The Hurtsboro Police Department and other emergency resources. Residents had to be evacuated through water up to three feet deep and some had to be pulled through windows, as doors to their home were sealed shut with water pressure.

Since this incident, the Russell County EMA has helped lead the charge with two significant HMGP Projects. Russell Co EMA in conjunction with the Russell County Commission assisted in Twin Gates Drive Project located just outside of the Town of Hurtsboro limits where eleven homeowners were offered the opportunity to sell their home at fair market value and locate to an area with less flooding issues. Then Russell County EMA stepped forward again and in conjunction with the Town of Hurtsboro applied for and received an HMGP Grant allowing the Seventh Day Adventist Church on Highway 10 to sell its building at fair market value and relocate outside of the flood zone.

Table 5.5 details the previous occurrence of flood in Russell County. Extent on this table refers to the depth of flooding. This information was not available for every flash flood or flood event.

Table 5.5: Overview of Flood Events In Russell County By Year

Location or County	Date	Time	Type	Ext	Dth	Inj	PrD	CrD
1 <u>Countywide</u>	01/07/1998	09:30 AM	Flash Flood	N/A	0	0	25K	5K
2 <u>Countywide</u>	03/08/1998	09:30 AM	Flash Flood	N/A	0	0	75K	10K
3 <u>Seale</u>	03/03/2001	02:00 PM	Flash Flood	N/A	0	0	14K	0K
4 <u>Countywide</u>	05/07/2003	11:00 PM	Flood	N/A	0	0	4.5M	275K
5 <u>Countywide</u>	09/16/2004	10:05 AM	Flash Flood	4 in	0	0	25K	0
6 <u>Phenix City</u>	03/27/2005	02:40 AM	Flash Flood	3 ft	0	0	22K	0
7 <u>Countywide</u>	07/10/2005	02:30 PM	Flash Flood	5 ft	0	0	17K	0
8. <u>Ladonia</u>	09/19/2009	06:25 PM	Flash Flood	N/A	0	0	0	0
9. <u>Pittsview</u>	12/14/2009	03:00 PM	Flash Flood	N/A	0	0	10K	0
10. <u>Hurtsboro</u>	05/03/2010	08:30 AM	Flash Flood	6 in	0	0	10K	0
11. <u>Phenix City</u>	09/20/2011	09:00 PM	Flash Flood	N/A	0	0	20K	0
TOTALS:					0	0	4.668M	290K

*Source: National Climatic Data Center 2014
No flood or flash flood events shown for 9/21/2011-9/30/2014.*

Future Probability of Flood

The jurisdictions of Russell County, City of Phenix City and Town of Hurtsboro are vulnerable to floods. Thirty-six percent of the responders to the Citizen Survey indicated they were concerned or very concerned about the impacts of flooding in Russell County.

The areas in Russell County that remain susceptible to repetitive flooding are mainly along the Chattahoochee River, Holland Creek, Cochgalechee Creek, and Hurtsboro Creek. They are as follows: Carson Drive (Russell County); Long Street (Hurtsboro); Lower Main Street (Hurtsboro); Railroad Street (Phenix City); Riverfront Area (Phenix City); 9th Place (Phenix City); 8th Street (Phenix City) 7th Street (Phenix City) and Lake Subdivision (Phenix City). Structures located near low lying areas near creeks, rivers, and tributaries are vulnerable.

The frequency that a flood will occur was ranked as highly likely for each jurisdiction by the Stakeholder and Technical Advisory Committee. The committee determined that there was near 100% probability that a flash flood or flood would occur within the next year. The threat of safety for the population from flood was determined to be negligible, with very few injuries occurring. The threat of loss or damage to the jurisdiction's

property is considered to be limited with 10% to 20% of property in each jurisdiction being damaged or destroyed. The Committee also determined that the damage to functions was limited, with a complete shutdown of affected facilities not lasting more than one day.

Overall, the risk of flood to Hurtsboro, Phenix City and Russell County was ranked a 5 by the committee. They determined that each jurisdiction in Russell County had a moderate risk from this natural hazard.

HAIL

Overview

Hail occurs when updrafts in thunderstorms carry precipitation upward into extremely cold areas of the atmosphere where the precipitation freezes into ice. Both gravity and downdraft thunderstorm winds pull the ice crystals back down into warmer air. The ice crystal becomes larger as layers of moisture attach and freeze as the crystal is tossed between warmer and colder layers of atmosphere.

The average size of hailstone that falls to earth is ¼ inch. Large hailstones are an indication of powerful updraft and downdraft winds within a thunderstorm. Updraft winds in a thunderstorm of 20 miles per hour can create pea-size hail. Golf ball size hail requires winds of 55 miles per hour.

Annually, hail causes over 1 billion dollars in damage to crops and property nationwide.

Previous Occurrence of Hail

Hail events are very common in Russell County with multiple events occurring every year. Since 1967, there have been 72 recorded instances of hail storms. Combined, these events have resulted in \$310,000 in property damage. Half of the responders to the citizen survey have previous experience with hail storms. There are no reports of death or injury due to hail in Russell County. For the most part hail events in the County have caused minimal damage. However there are some notable exceptions.

In the afternoon and early evening of April 4, 2007, super cell thunderstorms developed over central Alabama. Large hail, some of it as big as grapefruits, fell across the eastern portions of Russell County, including Seale, Fort Mitchell and Holy Trinity. The hail damaged at least 4 homes and 15 cars. Fortunately no one was injured but the total cost of the hail storm was estimated at \$100,000.

On April 25, 2003, rotating thunderstorms roared through Alabama. Golf ball size hail fell on Phenix City causing an estimated \$80,000 in property damage. Table 5.5 details previous occurrences of hail in each jurisdiction of Russell County. Extent in Table 5.6 refers to the recorded size of the hail that fell.

Table 5.6: Overview of Hail Events In Russell County By Year

Location or County	Date	Time	Type	Ext	Dth	Inj	PrD	CrD
1 Russell	11/24/1967	19:19	Hail	2.75 in.	0	0	0	0
2 Russell	04/23/1971	16:50	Hail	1.00 in.	0	0	0	0
3 Russell	05/12/1971	13:40	Hail	1.75 in.	0	0	0	0
4 Russell	08/12/1981	15:15	Hail	1.75 in.	0	0	0	0
5 Russell	03/21/1982	16:45	Hail	1.75 in.	0	0	0	0

Location or County	Date	Time	Type	Ext	Dth	Inj	PrD	CrD
6 Russell	04/26/1982	16:25	Hail	1.75 in.	0	0	0	0
7 Russell	04/26/1982	17:25	Hail	1.75 in.	0	0	0	0
8 Russell	04/26/1982	18:05	Hail	1.75 in.	0	0	0	0
9 Russell	04/26/1982	20:13	Hail	1.50 in.	0	0	0	0
10 Russell	05/10/1988	14:15	Hail	1.00 in.	0	0	0	0
11 Russell	11/04/1988	15:45	Hail	2.75 in.	0	0	0	0
12 Russell	11/04/1988	19:00	Hail	0.75 in.	0	0	0	0
13 Russell	04/29/1991	14:20	Hail	1.00 in.	0	0	0	0
14 Russell	05/13/1993	09:15	Hail	0.75 in.	0	0	0	0
15 Seale	04/14/1996	08:05 PM	Hail	0.75 in.	0	0	8K	2K
16 Seale	04/29/1996	01:50 PM	Hail	1.75 in.	0	0	25K	5K
17 Phenix City	06/15/1996	05:00 PM	Hail	0.75 in.	0	0	10K	0K
18 Phenix City	03/13/1997	03:35 PM	Hail	0.88 in.	0	0	4K	0K
19 Phenix City	05/03/1997	07:00 AM	Hail	1.00 in.	0	0	4K	0K
20 Phenix City	05/09/1997	03:15 PM	Hail	0.75 in.	0	0	4K	0K
21 Seale	04/03/1998	02:55 PM	Hail	0.75 in.	0	0	0K	0K
22 Hurtsboro	05/03/1998	03:30 PM	Hail	0.88 in.	0	0	0K	0K
23 Cottonton	04/15/1999	05:30 AM	Hail	1.00 in.	0	0	0K	0K
24 Hurtsboro	05/13/1999	04:15 PM	Hail	0.88 in.	0	0	0K	0K
25 Seale	03/10/2000	04:55 PM	Hail	0.75 in.	0	0	0K	0K
26 Phenix City	03/10/2000	05:10 PM	Hail	1.00 in.	0	0	0K	0K
27 Phenix City	03/10/2000	05:15 PM	Hail	0.75 in.	0	0	0K	0K
28 Hurtsboro	08/09/2000	04:10 PM	Hail	0.88 in.	0	0	0K	0K
29 Hurtsboro	08/09/2000	04:30 PM	Hail	0.88 in.	0	0	0K	0K
30 Seale	06/03/2001	05:25 PM	Hail	0.88 in.	0	0	0K	0K
31 Cottonton	03/31/2002	02:43 PM	Hail	0.75 in.	0	0	0K	0K
32 Ft Mitchell	03/31/2002	02:44 PM	Hail	0.75 in.	0	0	0K	0K
33 Ft Mitchell	05/11/2002	06:47 PM	Hail	0.75 in.	0	0	0K	0K

Location or County	Date	Time	Type	Ext	Dth	Inj	PrD	CrD
34 <u>Pittsview</u>	03/14/2003	06:10 PM	Hail	1.75 in.	0	0	5K	OK
35 <u>Ft Mitchell</u>	03/19/2003	05:10 PM	Hail	0.75 in.	0	0	OK	OK
36 <u>Phenix City</u>	03/19/2003	05:10 PM	Hail	0.75 in.	0	0	OK	OK
37 <u>Phenix City</u>	04/25/2003	04:22 PM	Hail	2.00 in.	0	0	80K	OK
38 <u>Hurtsboro</u>	04/25/2003	05:05 PM	Hail	1.75 in.	0	0	35K	OK
39 <u>Seale</u>	05/01/2003	06:01 PM	Hail	0.75 in.	0	0	OK	OK
40 <u>Hurtsboro</u>	04/12/2004	08:47 PM	Hail	0.75 in.	0	0	0	0
41 <u>Phenix City</u>	04/12/2004	08:59 PM	Hail	0.75 in.	0	0	0	0
42 <u>Hurtsboro</u>	06/27/2004	03:55 PM	Hail	0.75 in.	0	0	0	0
43 <u>Seale</u>	03/22/2005	12:19 PM	Hail	1.75 in.	0	0	22K	0
44 <u>Pittsview</u>	03/26/2005	02:20 PM	Hail	0.88 in.	0	0	0	0
45 <u>Holy Trinity</u>	03/26/2005	06:14 PM	Hail	1.25 in.	0	0	0	0
46 <u>Cottonton</u>	03/27/2005	02:36 AM	Hail	0.75 in.	0	0	0	0
47 <u>Ladonia</u>	04/22/2005	03:35 PM	Hail	0.88 in.	0	0	1K	0
48 <u>Seale</u>	04/22/2005	04:09 PM	Hail	1.75 in.	0	0	4K	0
49 <u>Hurtsboro</u>	06/02/2005	01:12 PM	Hail	1.00 in.	0	0	0	0
50 <u>Cottonton</u>	12/28/2005	01:00 PM	Hail	0.75 in.	0	0	0	0
51 <u>Holy Trinity</u>	12/28/2005	01:00 PM	Hail	1.75 in.	0	0	2K	0
52 <u>Ft Mitchell</u>	12/28/2005	12:51 PM	Hail	2.75 in.	0	0	6K	0
53 <u>Phenix City</u>	05/13/2006	08:37 PM	Hail	0.88 in.	0	0	0	0
54 <u>Hurtsboro</u>	02/13/2007	20:17 PM	Hail	1.75 in.	0	0	OK	OK
55 <u>Hurtsboro</u>	04/11/2007	17:28 PM	Hail	2.75 in.	0	0	OK	OK
56 <u>Seale</u>	04/11/2007	17:48 PM	Hail	4.00 in.	0	0	100K	OK
57 <u>Seale</u>	03/14/2008	16:40 PM	Hail	0.88 in.	0	0	OK	OK
58 <u>Seale</u>	04/05/2009	07:25 AM	Hail	1.75 in.	0	0	OK	OK
59 <u>Seale</u>	04/10/2009	20:20 PM	Hail	1.75 in.	0	0	OK	OK
60 <u>Ladonia</u>	06/19/2010	15:05 PM	Hail	1.00 in.	0	0	OK	OK
61 <u>Hurtsboro</u>	03/26/2011	16:02 PM	Hail	1.00 in.	0	0	OK	OK

Location or County	Date	Time	Type	Ext	Dth	Inj	PrD	CrD
62 Loflin	03/27/2011	11:40 AM	Hail	1.75 in.	0	0	OK	OK
63 Crawford	03/27/2011	22:20 PM	Hail	1.25 in.	0	0	OK	OK
64 Flournoys	03/27/2011	22:27 PM	Hail	0.75 in.	0	0	OK	OK
65 Ft Mitchell	03/27/2011	22:30 PM	Hail	1.50 in.	0	0	OK	OK
66 Ft Mitchell	04/04/2011	22:09 PM	Hail	0.88 in.	0	0	OK	OK
67 Ladonia	07/14/2011	12:10 PM	Hail	0.88 in.	0	0	OK	OK
68 Crawford	05/21/2012	13:56 PM	Hail	1.00 in.	0	0	OK	OK
69 Crawford	05/21/2012	14:02 PM	Hail	0.75 in.	0	0	OK	OK
70 Girard	07/05/2012	15:38 PM	Hail	1.00 in.	0	0	OK	OK
71 Phenix City	03/18/2013	17:12 PM	Hail	2.00 in.	0	0	OK	OK
72 Phenix City	03/18/2013	17:17 PM	Hail	1.25 in.	0	0	OK	OK
TOTALS:					0	0	310K	7K

Source: National Climatic Data Center, 2014

Future Probability of Hail Events

The frequency that hail will occur in Hurtsboro, Phenix City and Russell County was ranked as highly likely by the Stakeholder and Technical Advisory Committee. The Committee determined that there was near 100% probability that hail would occur within the next year. Forty-three percent of citizens responding to the public survey indicated they were concerned or very concerned about the effects of hail storms.

The threat to the safety of the population of each jurisdiction from hail was determined to be negligible, with few serious injuries occurring. Property loss or damage was considered to be limited with 10%-25% of each jurisdiction being impacted. The Committee also determined that the damage to functions was limited with a complete shutdown of affected facilities in each jurisdiction lasting for less than one day.

Overall, the Committee ranked Hurtsboro, Phenix City and Russell County's vulnerability to hail as a 4, medium.

SINKHOLES

Overview

Sinkholes are a common, naturally occurring geologic feature and pose hazards to property and the environment. Areas that have sinkholes are known as karst terrain or karst topography. The bedrock under areas where sinkholes are prevalent is usually made of limestone. Over time, the acid content in rainwater dissolves the limestone bedrock forming cracks, crevices and caves. When the roof of the cave can no longer support the weight of the ground above, it collapses forming the sinkhole. (Geological Survey of Alabama). Sinkholes can also be caused by a drop in the water table due to drought, excessive rainfall/flood, drainage problems or heavy construction.

Sinkholes can sometimes cause substantial damage, threaten water and environmental resources by draining streams, lakes, and wetlands, and creating pathways for transmitting surface waters directly into underlying aquifers. Where these pathways are developed, movement of surface contaminants into the underlying aquifer systems can persistently degrade ground-water resources. In some areas, sinkholes are used as storm drains, and because they are a direct link with the underlying aquifer systems it is important that their drainage areas be kept free of contaminants. Conversely, when sinkholes become plugged, they can cause flooding by capturing surface-water flow and can create new wetlands, ponds, and lakes.

Previous Occurrence of Sinkholes

Over the past ten years there have been about a half dozen instances of sinkholes of nominal size that have caused damage to private property, roads, curbs, water lines and vehicles. It has not been determined the exact cause of these sinkholes although drainage issues are suspected. The Lake Subdivision in Phenix City has been experiencing incidences of sinkholes due to drainage issues in a nearby private lake. One sinkhole measures approximately 12'x30'x12'.

There have been no deaths or injuries and no reliable estimates of damage caused by sinkholes available for any of the jurisdictions in Russell County. Each jurisdiction in Russell County understands that sinkholes are possible.

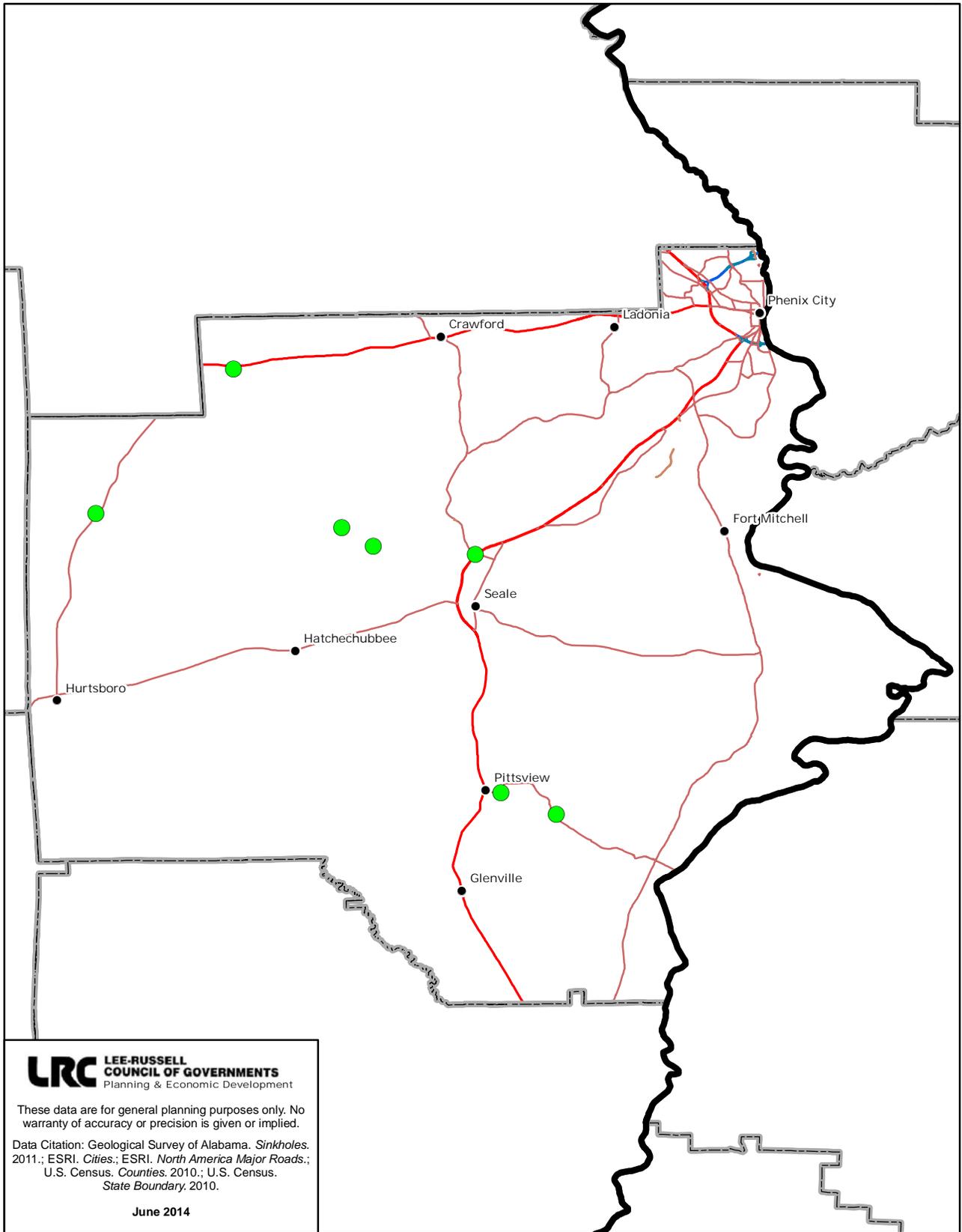
Map 5.4, on the following page, depicts known sinkhole locations in Russell County through November, 2011. Locations include Seale, Pittsview, Hatchechubbee, and Crawford.

Future Probability of Sinkholes

The Committee determined that sinkholes were possible in each jurisdiction in Russell County, with a 1%-10% probability they could occur in the next year. The threat to safety, property and function was rated as negligible.

Overall the Committee ranked Hurtsboro, Phenix City and Russell County's vulnerability to this natural hazard as a 2, low.

Map 5.4 - Sinkholes (as of November 2011)



THUNDERSTORMS (Includes Lightning and High Wind)

Overview

All jurisdictions of Russell County are impacted by thunderstorms, lightning, and high winds. A thunderstorm is the result of a combination of moisture, rapidly rising warm air and a force capable of lifting air such as a warm and cold front, a sea breeze or a mountain. All thunderstorms contain lightning and are accompanied by winds that can become destructive at 58 miles per hour. Heavy rains can also occur during a thunderstorm.

Thunderstorms may occur singly, in clusters, or in lines – sometime with very little warning. Thus, it is possible for several thunderstorms to affect one location in the course of a few hours. Some of the most severe weather occurs when a single thunderstorm affects one location for an extended time.

Lightning, that is sometimes unseen, is an electrical discharge that results from the buildup of positive and negative charges within a thunderstorm. When the buildup becomes strong enough, lightning appears as a "bolt." This flash of light usually occurs within the clouds or between the clouds and the ground.

In the atmospheric electrical discharge, a leader of a bolt of lightning can travel at speeds of 60,000 m/s (130,000 mph), and can reach temperatures approaching 30,000 °C (54,000 °F), hot enough to fuse silica sand into glass channels known as fulgurites which are normally hollow and can extend some distance into the ground.

There are some 16 million lightning storms in the world every year. The rapid heating and cooling of air near the lightning causes thunder. Lightning is a major threat during a thunderstorm.

In the United States, 75 to 100 Americans are hit and killed each year by lightning, making it a major killer amongst all natural hazards, second only to flooding. However, of the population struck by lightning, only 10% are killed while the other 90% are left with various disabilities such as irreversible brain damage. While thunderstorms and lightning can be found throughout the United States, they are most likely to occur in the central and southern states.

Previous Occurrence of Thunderstorm, Lightning and High Wind Events

All three jurisdictions located in Russell County have been subjected to thunderstorms, lightning, and high wind during the past 43 years. Since 1971, Russell County has experienced 1 lightning storm and 89 thunder/wind storms and 2 high/strong wind events. These events have resulted in an estimated \$100,734,000 in damages and 2 injuries. Half of the responders to the Citizen Survey said they had personal previous experience with severe storms.

In the early morning of April 15, 1999 thunderstorms hit Russell County hard. Winds estimated to be 65 knots roared through unincorporated Russell County and the City of

Phenix City. One mobile home was destroyed, 3 more were heavily damaged. One home had its roof ripped off. Trees and power lines were knocked down along Highway 80. The storms caused \$40,000 in property damage.

During the late afternoon of July 11, 2008, lightning from an isolated severe thunderstorm struck a home in central Russell County. The home caught fire. Damage was estimated at \$50,000.

On September 16, 2004 gusts as high as 65 miles per hour swept through Russell County causing \$275,000 in property damage. Trees and power lines were down all across the county. Power was not fully restored for 4 days.

Tables 5.7, 5.8, and 5.9 provide more information on thunderstorm, lightning and high wind events in each jurisdiction of Russell County. Extent in Table 5.7 refers to thunderstorm wind speeds. Extent in Table 5.9 refers to wind speeds.

Table 5.7: Overview of Thunderstorm Storm Events In Russell County By Year

Location or County	Date	Type	Ext	Dth	Inj	PrD	CrD
1 RUSSELL	05/12/1971	Tstm Wind	0 kts.	0	0	0	0
2 RUSSELL	04/07/1973	Tstm Wind	0 kts.	0	0	0	0
3 RUSSELL	03/21/1974	Tstm Wind	0 kts.	0	0	0	0
4 RUSSELL	05/08/1978	Tstm Wind	0 kts.	0	0	0	0
5 RUSSELL	06/08/1978	Tstm Wind	0 kts.	0	0	0	0
6 RUSSELL	03/30/1981	Tstm Wind	0 kts.	0	0	0	0
7 RUSSELL	04/01/1981	Tstm Wind	0 kts.	0	0	0	0
8 RUSSELL	08/12/1981	Tstm Wind	0 kts.	0	0	0	0
9 RUSSELL	03/21/1982	Tstm Wind	0 kts.	0	0	0	0
10 RUSSELL	04/23/1983	Tstm Wind	0 kts.	0	0	0	0
11 RUSSELL	05/16/1983	Tstm Wind	0 kts.	0	0	0	0
12 RUSSELL	05/03/1984	Tstm Wind	0 kts.	0	0	0	0
13 RUSSELL	05/03/1984	Tstm Wind	0 kts.	0	0	0	0
14 RUSSELL	04/05/1985	Tstm Wind	0 kts.	0	0	0	0
15 RUSSELL	12/01/1985	Tstm Wind	0 kts.	0	0	0	0
16 RUSSELL	07/27/1986	Tstm Wind	0 kts.	0	0	0	0
17 RUSSELL	03/05/1989	Tstm Wind	0 kts.	0	0	0	0

Location or County	Date	Type	Ext	Dth	Inj	PrD	CrD
18 <u>RUSSELL</u>	02/10/1990	Tstm Wind	0 kts.	0	0	0	0
19 <u>RUSSELL</u>	04/28/1990	Tstm Wind	0 kts.	0	0	0	0
20 <u>RUSSELL</u>	05/21/1990	Tstm Wind	0 kts	0	0	0	0
21 <u>RUSSELL</u>	05/21/1990	Tstm Wind	0 kts	0	0	0	0
22 <u>RUSSELL</u>	03/20/1991	Tstm Wind	0 kts	0	0	0	0
23 <u>RUSSELL</u>	03/29/1991	Tstm Wind	0 kts	0	0	0	0
24 <u>RUSSELL</u>	03/29/1991	Tstm Wind	0 kts	0	0	0	0
25 <u>RUSSELL</u>	04/09/1991	Tstm Wind	0 kts	0	0	0	0
26 <u>RUSSELL</u>	05/05/1991	Tstm Wind	0 kts	0	0	0	0
27 <u>RUSSELL</u>	07/01/1992	Tstm Wind	0 kts	0	0	0	0
28 <u>RUSSELL</u>	11/22/1992	Tstm Wind	0 kts	0	0	0	0
29 <u>RUSSELL</u>	05/13/1993	Tstm Wind	0 kts	0	0	0	0
30 <u>Seale</u>	03/18/1996	Tstm Wind	50 kts	0	0	25K	8K
31 <u>Seale</u>	06/15/1996	Tstm Wind	50 kts	0	0	20K	2K
32 <u>Seale</u>	03/30/1997	Tstm Wind	50 kts	0	0	5K	0K
33 <u>Seale</u>	04/22/1997	Tstm Wind	50 kts	0	0	4K	0K
34 <u>Ft Mitchell</u>	06/14/1997	Tstm Wind	50 kts	0	0	5K	0K
35 <u>Seale</u>	11/01/1997	Tstm Wind	50 kts	0	0	10K	0K
36 <u>Ladonia</u>	11/21/1997	Tstm Wind	50 kts	0	0	7K	0K
37 <u>Hurtsboro</u>	06/05/1998	Tstm Wind	60 kts	0	2	25K	0K
38 <u>Phenix City</u>	06/05/1998	Tstm Wind	50 kts	0	0	10K	0K
39 <u>Crawford</u>	03/03/1999	Tstm Wind	55 kts	0	0	15K	0K
40 <u>Phenix City</u>	04/15/1999	Tstm Wind	65 kts	0	0	40K	0K
41 <u>Cottonton</u>	04/15/1999	Tstm Wind	50 kts	0	0	2K	0K
42 <u>Pittsview</u>	04/27/1999	Tstm Wind	55 kts	0	0	8K	0K
43 <u>Phenix City</u>	08/12/1999	Tstm Wind	55 kts	0	0	5K	0K
44 <u>Phenix City</u>	08/19/1999	Tstm Wind	55 kts	0	0	8K	0K
45 <u>Ladonia</u>	08/20/1999	Tstm Wind	55 kts	0	0	5K	0K

Location or County	Date	Type	Ext	Dth	Inj	PrD	CrD
46 Phenix City	03/11/2000	Tstm Wind	55 kts	0	0	2K	0K
47 Phenix City	03/11/2000	Tstm Wind	55 kts	0	0	3K	0K
48 Phenix City	03/15/2001	Tstm Wind	50 kts	0	0	3K	0K
49 Hurtsboro	06/28/2001	Tstm Wind	50 kts	0	0	2K	0K
50 Countywide	01/19/2002	Tstm Wind	50 kts	0	0	5K	0K
51 Countywide	05/11/2002	Tstm Wind	50 kts	0	0	20K	0K
52 Seale	05/02/2003	Tstm Wind	50 kts	0	0	5K	0K
53 Seale	04/12/2004	Tstm Wind	50 kts	0	0	2K	0
54 Ladonia	05/31/2004	Tstm Wind	55 kts	0	0	26K	0
58 Hurtsboro	04/30/2005	Tstm Wind	52 kts	0	0	2K	0
56 Pittsview	04/30/2005	Tstm Wind	52 kts	0	0	8K	0
57 Phenix City	05/20/2005	Tstm Wind	52 kts	0	0	0	0
58 Countywide	03/20/2006	Tstm Wind	50 kts	0	0	20K	0
59 Phenix City	05/10/2006	Tstm Wind	50 kts	0	0	10K	0
60 Phenix City	07/28/2006	Tstm Wind	50 kts	0	0	2K	0
61 Seale	06/11/2007	Tstm Wind	50 kts	0	0	5K	0K
62 Uchee	02/06/2008	Tstm Wind	50 kts	0	0	1K	0K
63 Seale	02/17/2008	Tstm Wind	50 kts	0	0	3K	0K
64 Kaolin	06/21/2008	Tstm Wind	50 kts	0	0	3K	0K
65 Ladonia	07/11/2008	Tstm Wind	60 kts	0	0	10K	0K
66 Hurtsboro	08/07/2008	Tstm Wind	45 kts	0	0	1K	0K
67 Mc Lendon	08/07/2008	Tstm Wind	45 kts	0	0	1K	0K
68 Kaolin	08/07/2008	Tstm Wind	50 kts	0	0	20K	0K
69 Persons	08/07/2008	Tstm Wind	45 kts	0	0	1K	0K
70 Crawford	04/10/2009	Tstm Wind	50 kts	0	0	10K	0K
71 Phenix City	04/10/2009	Tstm Wind	50 kts	0	0	20K	0K
72 Crawford	06/02/2009	Tstm Wind	40 kts	0	0	1K	0K
73 Crawford	06/02/2009	Tstm Wind	50 kts	0	0	15K	0K

Location or County	Date	Type	Ext	Dth	Inj	PrD	CrD
74 Phenix City	06/14/2009	Tstm Wind	50 kts	0	0	1K	0K
75 Ladonia	06/28/2009	Tstm Wind	50 kts	0	0	2K	0K
76 Ladonia	06/19/2010	Tstm Wind	50 kts	0	0	2K	0K
77 Phenix City	08/02/2010	Tstm Wind	55 kts	0	0	2.5K	0K
78 Sandfort	02/28/2011	Tstm Wind	50 kts	0	0	2K	0K
79 Seale	04/04/2011	Tstm Wind	50 kts	0	0	2K	0K
80 Phenix City	04/04/2011	Tstm Wind	50 kts	0	0	7K	0K
81 Phenix City	05/26/2011	Tstm Wind	50 kts	0	0	3K	0K
82 Seale	06/11/2011	Tstm Wind	40 kts	0	0	0.5K	0K
83 Ladonia	06/17/2011	Tstm Wind	50 kts	0	0	0.75K	0K
84 Ladonia	06/17/2011	Tstm Wind	40 kts	0	0	0.5K	0K
85 Ladonia	07/02/2011	Tstm Wind	40 kts	0	0	2K	0K
86 Phenix City	07/03/2011	Tstm Wind	50 kts	0	0	5K	0K
87 Ladonia	07/14/2011	Tstm Wind	50 kts	0	0	2K	0K
88 Hurtsboro	06/27/2013	Tstm Wind	50 kts	0	0	0K	0K
89 Crawford	07/24/2013	Tstm Wind	55 kts	0	0	0K	0K
TOTALS:				0	2	100.455 M	10K

Source: National Climatic Database 2014

Table 5.8: Overview of Lightning Events in Russell County By Year

Location	Date	Type	Ext	Dth	Inj	PrD	CrD
1. Seale	07/11/2008	Lightning	N/A	0	0	50K	0K

Source: National Climatic Database 2014
No lightning events shown from 7/12/2008-9/30/2014.

Table 5.9: Overview of Strong and High Wind Events in Russell County By Year

Location	Date	Type	Ext	Dth	Inj	PrD	CrD
1 Russell County	09/07/2004	Strong Wind	33 kts	0	0	1K	0
2 Russell County	09/16/2004	High Wind	56 kts	0	0	275K	0
TOTALS:				0	0	276 K	0

Source: National Climatic Database 2014
No strong or high wind events shown from 9/17/2004-9/30/2014.

Future Probability of Thunderstorm, High Wind, and Lightning Events

Each of the jurisdictions in Russell County is very susceptible to thunderstorms, lightning and high winds. The Committee determined the frequency of thunderstorms, lightning and/or high winds occurring in each jurisdiction is highly likely. Half of the citizens completing surveys indicated they were concerned or very concerned about the effects of severe thunderstorms.

The Committee determined that there is near 100% chance in the next year that a thunderstorm, lightning, and/or high wind event will occur in each jurisdiction.

The Committee believed the threat to property damage due to thunderstorms was limited. Additionally, the threat of safety to citizens in each jurisdiction was determined to be limited with injuries not resulting in permanent disability. The damage to functions was rated as negligible with only a temporary shutdown of facilities in each jurisdiction in the event of these severe storms. The threat to property was determined to be limited, with 25% to 50% of each jurisdiction impacted by thunderstorms.

Overall, the vulnerability of each jurisdiction in Russell County to thunderstorms was ranked an 8 by the committee. They determined that each of the jurisdictions were at the highest risk from this natural hazard.

TORNADO

Overview

A tornado is a violent windstorm characterized by a twisting, funnel-shaped cloud. It is a result of a thunderstorm (or sometimes as a result of a hurricane) and produced when cool air overrides a layer of warm air, forcing the warm air to rise rapidly. Tornado season is generally March-August and again in November-December, although tornadoes can occur at any time of year. Over 80 percent of all tornadoes strike between noon and midnight.

The most violent tornadoes are capable of tremendous destruction with wind speeds of 250 mph or more. The damage from a tornado is a result of the high wind velocity and wind-blown debris. Damage paths can be in excess of 1 mile wide and 50 miles long. Tornadoes are the most unpredictable of storms.

Tornadoes are most prevalent in the United States and occur mostly in the Midwest, Southwest, and Southeast. Alabama ranks fourth in the nation in the number of killer tornadoes and fifth in the number of fatalities. The entire state is vulnerable to the threat of tornadoes.

Dr. T. Theodore Fujita developed the Fujita Tornado Damage Scale (F-Scale) to provide estimates of tornado strength based on damage surveys. Since it's practically impossible to make direct measurements of tornado winds, an estimate of the winds based on damage is the best way to classify a tornado.

The new Enhanced Fujita Scale (EF-Scale) addresses limitations identified by meteorologists and engineers since the introduction of the Fujita Scale in 1971. The new scale identifies 28 different free standing structures most affected by tornadoes taking into account construction quality and maintenance.

Tornadoes are classified by the damaging pattern which is categorized by EF0 through EF5. Table 5.10 below describes the Fujita Tornado Measurement Scale which details each tornado category and the expected damages and corresponding wind speed that results from this type of tornado.

Table 5.10: Fujita Tornado Measurement Scales

EF Scale	Old F Scale	Typical Damage
EF-0 (65-85 mph)	F0 (40-72 mph)	Light Damage: Peels surface off some roofs; some damage to gutters or siding; branches broken off trees; shallow-rooted trees pushed over.
EF-1 (86-110 mph)	F1 (73-112 mph)	Moderate Damage: Roofs severely stripped; mobile homes overturned or badly damaged; loss of exterior doors; windows and other glass broken.
EF-2(111-135 mph)	F2 (113-157 mph)	Considerable Damage: Roofs torn off well-constructed houses; foundations of frame homes shifted; mobile homes completely destroyed; large trees snapped or uprooted; light-object missiles generated; cars lifted off ground.

EF Scale	Old F Scale	Typical Damage
EF-3 (136-165 mph)	F3 (158-207 mph)	Severe Damage: Entire stories of well-constructed houses destroyed; severe damage to large buildings such as shopping malls; trains overturned; trees debarked; heavy cars lifted off the ground and thrown; structures with weak foundations blown away some distance.
EF-4 (166-200 mph)	F4 (208-260 mph)	Devastating Damage: Whole frame houses Well-constructed houses and whole frame houses completely leveled; cars thrown and small missiles generated.
EF-5 (>200 mph)	F5 (261-318 mph)	Incredible Damage: Strong frame houses leveled off foundations and swept away; automobile-sized missiles fly through the air in excess of 100 m (109 yd); high-rise buildings have significant structural deformation; incredible phenomena will occur.

Source: Storm Prediction Center, 2014

Previous Occurrence of Tornado Events

Since 1954 Russell County has experienced 22 tornadoes that have ranged from a Category F0 to an EF3. Tornadoes have occurred in all jurisdictions in Russell County. The damage that occurred from the tornadoes ranged from light damage to considerable damage to homes and businesses. Some of the damages included structural damage to homes and businesses, uprooted trees and flying debris. Combined property damage from these previous tornado events is nearly \$28,000,000.00. Tornadoes have caused an estimated 74 injuries and 2 deaths to Russell County residents. Eighteen responders to the Citizen Survey indicated they had previous personal experience with tornadoes.

According to the NOAA Alabama Tornado Database, the most destructive tornado to hit Russell County was a Category F3 that hit the town of Hurtsboro at approximately 2:15 on the afternoon of April 1, 1981. The tornado touched down just west of the city limits and then moved eastward through the center of the town. The damage path was 3.5 miles long and 100 yards wide. The storm injured 23 and killed 2 residents and caused 25 million in property damage.

In the early morning of April 29, 2014, northern Russell County and southern Lee County were struck by an EF-3 tornado. Winds are estimated to have been around 140 mph. The tornado touched down at 3:56 am west of Flourney Road where it snapped and uprooted trees before crossing into Lee County. The storm traveled 11 miles destroying homes and injuring 13. Damage estimates for this event are not yet available.

Table 5.11: Overview of Tornado Events In Russell County By Year

Location	Date	Time	Type	Ext	Dth	Inj	Property	Crop
1 <u>Russell Co.</u>	03/13/1954	20:40	Tornado	F3	0	0	25.00K	0.00K

Location	Date	Time	Type	Ext	Dth	Inj	Property	Crop
2 Russell Co.	12/05/1954	16:00	Tornado	F2	0	0	25.00K	0.00K
3 Russell Co.	02/24/1961	16:30	Tornado	F2	0	4	25.00K	0.00K
4 Russell Co.	03/31/1961	13:10	Tornado	F3	0	7	25.00K	0.00K
5 Russell Co.	04/30/1963	06:00	Tornado	F2	0	0	25.00K	0.00K
6 Russell Co.	12/26/1964	12:30	Tornado	F2	0	0	25.00K	0.00K
7 Russell Co.	08/12/1966	17:15	Tornado	F0	0	0	2.50K	0.00K
8 Russell Co.	03/07/1975	17:30	Tornado	F0	0	0	0.00K	0.00K
9 Russell Co.	05/01/1978	07:30	Tornado	F2	0	4	250.00K	0.00K
10 Hurtsboro	04/01/1981	02:15	Tornado	F3	2	23	25.000M	0.00K
11 Russell Co.	12/03/1983	21:15	Tornado	F1	0	0	25.00K	0.00K
12 Russell Co.	03/29/1991	06:40	Tornado	F2	0	16	2.500M	0.00K
13 Phenix City	09/28/1998	16:26	Tornado	F0	0	0	0.00K	2.00K
14 Phenix City	08/29/2005	16:41	Tornado	F0	0	0	1.00K	0.00K
15 Ladonia	03/01/2007	17:27	Tornado	EF0	0	0	3.00K	0.00K
16 Uchee	04/11/2007	17:13	Tornado	EF1	0	0	5.00K	0.00K
17 Glenville	02/17/2008	15:40	Tornado	EF2	0	4	120.00K	0.00K
18 Unland	04/10/2009	19:04	Tornado	EF1	0	0	10.00K	0.00K
19 Ladonia	04/10/2009	19:19	Tornado	EF1	0	2	120.00K	0.00K
20 Nuckols	04/10/2009	20:20	Tornado	EF1	0	1	50.00K	0.00K
21 Girard	04/19/2009	21:33	Tornado	EF2	0	0	500.00K	0.00K
22 Crawford	04/29/2014	03:56	Tornado	EF03	0	13	TBD	TBD

Totals:

2 74 28.736M 2.00K

Source: National Climatic Database 2014

Future Probability of Tornado Events

The jurisdictions of the City of Phenix City, Russell County and the Town of Hurtsboro are vulnerable to tornadoes. Sixty percent of citizens completing the Public Survey indicated they are concerned or very concerned about the effects of tornadoes.

The Stakeholder and Advisory Committee determined the probability that a tornado will occur in Hurtsboro, Phenix City and Russell County is likely. The committee felt there was between a 10% to 100% chance that a tornado will occur in the next year. By

examining the number of past tornadoes, the pattern of occurrence is one tornado every three to four years in Russell County.

The Committee determined that the severity of a tornado for each jurisdiction was as follows: property damage in each jurisdiction being affected by a tornado would be moderate, affecting 25%-50% of the jurisdiction; the damage to function was deemed limited, with a shutdown of facilities lasting no more than a day. The Committee determined the threat to safety is critical, with a possibility that there could be severe injuries resulting in permanent disabilities.

Overall, the risk to Hurtsboro, Phenix City and Russell County was ranked 7, high, by the committee. Each jurisdiction in Russell County is highly vulnerable to the threat of tornadoes.

TROPICAL DEPRESSION / TROPICAL STORM / HURRICANE

Overview

A tropical cyclone is a rotating, organized system of clouds and thunderstorms that originates over tropical or subtropical waters and has a closed low-level circulation. Tropical cyclones rotate counterclockwise in the Northern Hemisphere. They are classified as follows:

- **Tropical Depression:** A tropical cyclone with maximum sustained winds of 38 mph (33 knots) or less.
- **Tropical Storm:** A tropical cyclone with maximum sustained winds of 39 to 73 mph (34 to 63 knots).
- **Hurricane:** A tropical cyclone with maximum sustained winds of 74 mph (64 knots) or higher.
- **Major Hurricane:** A tropical cyclone with maximum sustained winds of 111 mph (96 knots) or higher, corresponding to a Category 3, 4 or 5 on the Saffir-Simpson Hurricane Wind Scale.

Tropical storms develop when ocean water is warmer than 80°F, there is low vertical wind shear and an area of low pressure. The storms bring damaging rotating winds up to 70 mph, torrential rain, and flooding.

A hurricane is a tropical storm with winds that have reached a constant speed of 74 miles per hour or more. Hurricane winds blow in a large spiral around a relatively calm center known as the "eye." The "eye" is generally 20 to 30 miles wide, and the storm may extend outward 400 miles. As a hurricane approaches, the skies will begin to darken and winds will grow in strength. As a hurricane approaches land, it can bring torrential rains, high winds, and storm surges.

Table 5.12: Saffir-Simpson Hurricane Wind Scale

Category	Sustained Winds	Types of Damage
1	74-95 mph 64-82 kt 119-153 km/h	Very dangerous winds will produce some damage: 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	Extremely dangerous winds will cause extensive damage: 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	111-129 mph	Devastating damage will occur: Well-built framed homes

Category	Sustained Winds	Types of Damage
	96-112 kt 178-208 km/h	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	130-156 mph 113-136 kt 209-251 km/h	Catastrophic damage will occur: 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	157 mph or higher 137 kt or higher 252 km/h or higher	Catastrophic damage will occur: 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.

August and September are the peak months during the hurricane season that lasts from June 1 through November 30. On average, five hurricanes strike the United States every year. In a two year period, an average of three significant (category 3 or higher) hurricanes will strike the United States.

The 74 to 160 mile per hour winds of a hurricane can extend inland for hundreds of miles. Hurricanes can spawn tornadoes, which add to the destructiveness of the storm. Floods and flash floods generated by torrential rains also cause damage and loss of life. High winds can demolish houses, uproot trees, and cause flying debris. The long-term dangers are the possibility of interruptions in utilities, fires and explosions from gas leaks, fallen power lines, and contaminated food and water. Following a hurricane, inland streams and rivers can flood and trigger landslides.

As hurricanes move inland, their wind speeds decline and the hurricane is generally downgraded to a tropical storm or tropical depression. Communities in the path of hurricanes as they move inland can experience torrential rains, flooding, tornadoes, wind damage and power outages.

The 74 to 160 mile per hour winds of a hurricane can extend inland for hundreds of miles. Hurricanes can spawn tornadoes, which add to the destructiveness of the storm. Floods and flash floods generated by torrential rains also cause damage and loss of life. High winds can demolish houses, uproot trees, and cause flying debris. The long-term

Previous Occurrence of a Tropical Depression/Tropical Storm/Hurricane

Since 1900, the State of Alabama has been significantly affected by 13 hurricanes. Russell County has experienced significant effects from 4 tropical events as they moved inland from the gulf coast. Combined, they have caused a reported \$80,000 in property damage.

Hurricane Opal was the most devastating hurricane of the 1995 season and resulted in a presidential disaster declaration for 38 counties in Alabama, including Russell County. Hurricane Opal caused 2 deaths, approximately 100 million in property damage and approximately 10 million in crop damage.

In 2005, the remnants of Hurricane Dennis blew down numerous trees and power lines across Russell County causing \$48,000 in property damage.

From November 9, 2009 to November 11, 2009, the remnants of Hurricane Ida moved across central Alabama. Sustained winds reached 40 mph, blowing down trees and 6 inches of rain saturated Phenix City, Hurtsboro and Crawford.

Table 5.13: Overview of Tropical Depression, Tropical Storm and Hurricane in Russell County By Year

Location	Date	Time	Type	Dth	Inj	Property	Crop
RUSSELL (ZONE)	07/10/2005	14:00	Tropical Storm	0	0	48.00K	0.00K
RUSSELL (ZONE)	08/29/2005	23:30	Tropical Storm	0	0	15.00K	0.00K
RUSSELL (ZONE)	08/23/2008	12:00	Tropical Depression	0	0	15.00K	0.00K
RUSSELL (ZONE)	11/09/2009	14:00	Tropical Depression	0	0	2.00K	0.00K
Totals:				0	0	80.00K	0.00K

Source: National Climatic Database, 2014

No tropical depressions, storms or hurricane events shown from 11/9/2009-9/30/2014.

Future Probability of a Tropical Depression/Tropical Storm/Hurricane

Although there have been no tropical events impacting Russell County since 2009, the jurisdictions of the City of Phenix City, Russell County and the Town of Hurtsboro are vulnerable to the effects of hurricanes as they move inland and are downgraded to tropical storms and tropical depressions.

The Stakeholder and Technical Advisory Committee ranked the probability that a tropical depression/tropical storm will occur in each jurisdiction as possible. The Committee determined that there was between a 1 -10% chance that one will occur in the next year. The percentage of each jurisdiction that would be affected by the hazard was rated as large, with more than half impacted. The threat to safety is considered negligible, with very few injuries. The threat of loss or damage to property and loss of function is considered to be limited. The committee felt that damage would be confined to 10%-25% of each jurisdiction and facilities could be shut down for more than 1 day.

Overall, the vulnerability of each jurisdiction in Russell County to the effects of tropical depressions, tropical storms, and hurricanes was rated a 4, moderate.

WILDFIRE

Overview

A wildland fire is a wildfire in an area in which development is essentially nonexistent, except for roads, railroads, power lines and similar facilities. An Urban-Wild land Interface fire is a wildfire in a geographical area where structures and other human development meet or intermingle with wildland or vegetative fuels.

People start more than four out of every five wildfires, usually as debris burns, arson, or carelessness. Lightning strikes are the next leading cause of wildfires. Wildfire behavior is based on three primary factors: fuel, topography, and weather. The type, and amount of fuel, as well as its burning qualities and level of moisture affect wildfire potential and behavior.

The immediate threat from a wildfire is destruction of timber, property, wildlife, and injury or loss of human life. The long-term impact of wildfires is scorched and barren land. This land may take years or decades to return to its pre-fire state.

Previous Occurrence of Wildfires

Rural Russell County is vulnerable to wildfires and urban-wildland interface fires. Statistics from the Alabama Forestry Commission indicate there are 52 wildfires in Russell County each year. They also estimate that an average of 645 acres is burned per fire. Annual damage is estimated at \$191,000.

Map 5.5 illustrates the occurrence of fires per 1,000 acres in Russell County thru 2006. The map was provided by the Alabama Forestry Commission which only documents the wildfires to which they responded.

Future Probability of a Wildfire

The jurisdictions of Russell County and the town of Hurtsboro are vulnerable to wildfires. The City of Phenix City is not vulnerable to this hazard.

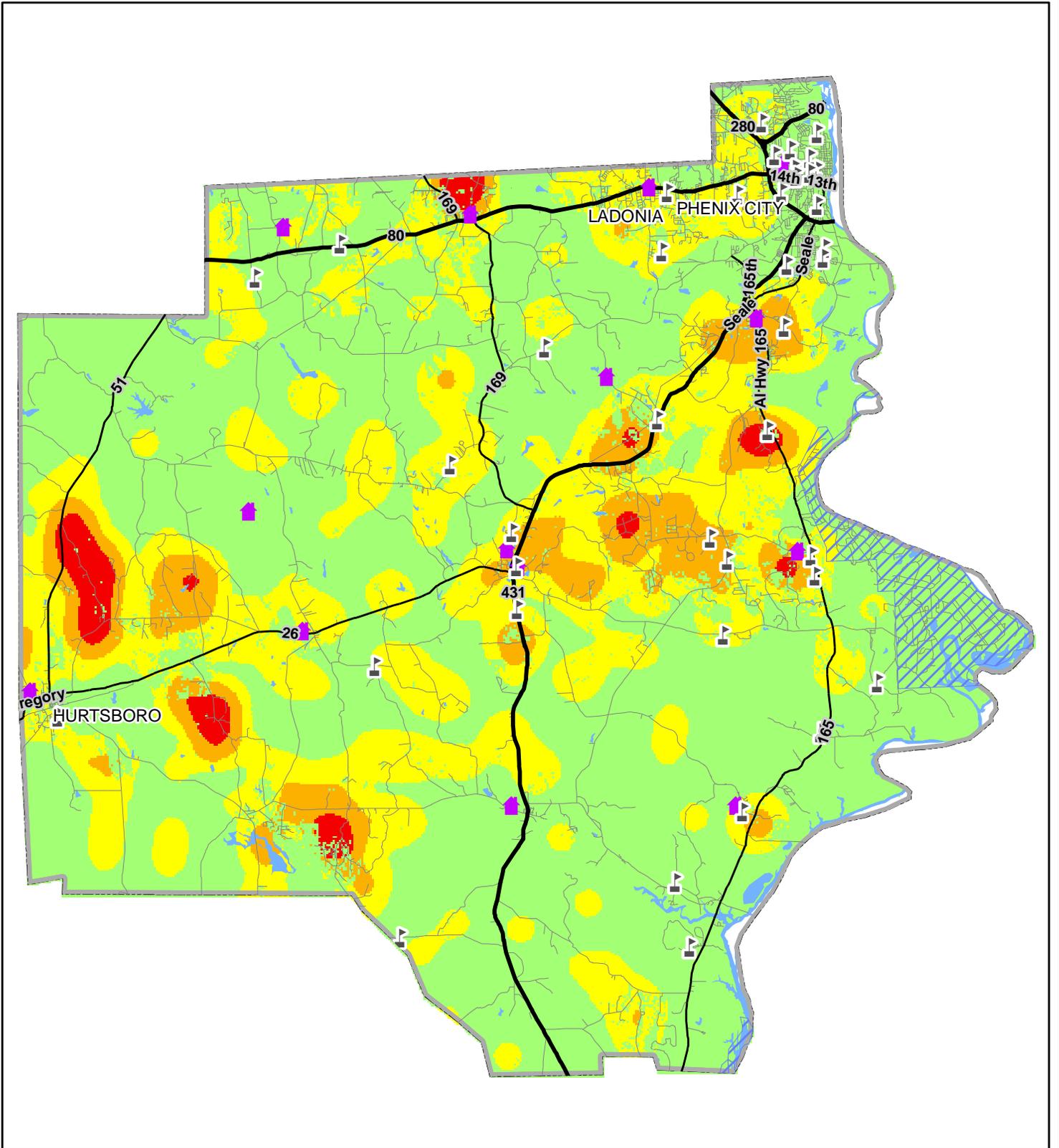
The Stakeholder and Advisory Committee determined that there was between a 1% to 10% chance that wildfire would occur in the next year or at least one chance in ten years in Russell County and Hurtsboro. It was determined that the threat to safety, property and function in Russell County and Hurtsboro was negligible.

Overall, the committee rated Hurtsboro and Russell County's vulnerability to wildfires as a 4, medium.



'Fires per 1,000-Acres' County Map

Russell County



Schools

Location of Fire Fighting Resources*

Hospitals

Public Lands

County Boundary

1 inch = 4.3 miles

www.forestry.alabama.gov
AFC GIS (09/11/08)

Fire Occurrence: Low

Medium

High

Extreme

Sources: Sanborn (2006); AFC (2008)
(* includes federal, state, local and volunteer entities)

WINTER STORMS (Includes Ice Storms, Heavy Snow and Extreme Cold)

Overview

Winter storms vary in size and strength. A storm may be large enough to affect many states or only a portion of a single state. It can range from moderate snow or ice over a few hours to blizzard conditions. Winter storms are accompanied by low temperatures and blowing snow, which can reduce visibility.

The definition of a Heavy Snow event is when 4 or more inches of snow during a 12-hour period, or 6 or more inches during a 24 hours span.

An ice storm occurs when frozen rain blankets a region with accumulations of ¼” or more. Not only do roads freeze, but ice also coats trees, bushes and power lines. Because of the weight of the ice, this type of storm can cause tremendous damage to an area, pulling down trees and power lines.

The immediate threat from a winter storm, heavy snow or ice storm is traffic accidents, people trapped in their homes without supplies or heat, power outages, frozen water lines, and physical overexertion. The long-term dangers of a multiple day storm are extreme hardship on special populations, death from exposure to cold temperatures, interruption of services, and power outages.

Previous Occurrence of a Winter Storm/Ice Storm/Heavy Snow/Extreme Cold

Based on the information provided by the National Climatic Data Center, the jurisdictions in Russell County have experienced two winter storms, one ice storm, two instances of winter weather, three days of heavy snow, and one extreme cold event resulting in \$35,000 in property and crop damage. Nineteen of the responders to the Citizen Survey indicated they had past personal experience with winter storms in Russell County.

On the afternoon of December 18, 1996, snow began to fall across Russell County. Schools and business closed early. Two inches of snow accumulated and remained on the ground for 2 days, causing \$35,000 in damage.

On Monday, January 27, 2014 a very strong arctic front moved south across Alabama. The following morning, gulf moisture moved northward bringing a mixture of freezing rain, ice and snow. All but essential government services had been closed in advance of the predicted storm. Two inches of snow and ¼” of ice blanketed Russell County making travel impossible for 24 hours.

Table 5.14: Overview of Winter Storms, Ice Storms, Heavy Snow and Extreme Cold in Russell County By Year

Location	Date	Time	Type	Mag	Death	Inj	Property	Crop
1 <u>RUSSELL</u>	12/18/1996	14:00	Winter Storm	2in	0	0	15.00K	20.00K
2 <u>RUSSELL</u>	01/02/2002	05:00	Heavy Snow	4 in	0	0	0K	0K

3 RUSSELL	01/03/2002	08:30	Heavy Snow	2 in	0	0	OK	OK
4 RUSSELL	01/24/2003		Extreme Cold/Wind Chill	10.9F	0	0	OK	OK
5 RUSSELL	03/01/2009	06:00	Heavy Snow	4 in	0	0	OK	OK
6 RUSSELL	2/12/2010	11:00	Winter Weather	2 in	0	0	OK	OK
7 RUSSELL	12/15/2010	09:00	Winter Weather		0	0	OK	OK
8 RUSSELL	01/09/2011	20:30	Ice Storm	.4 in	0	0	OK	OK
9 RUSSELL	01/28/2014	10:50	Winter Storm	2 in	0	0	0.00K	0.00K
Totals:					0	0	15.00K	20.00K

Source: National Climatic Database 2014

Future Probability of a Winter Storm/Freeze

Although the jurisdictions in Russell County have not experienced a high incidence of winter storms and freezes, these natural hazards are a concern, especially because of the Winter Storm that affected Alabama and Georgia in January of 2014. Nearly 50% of the responders to the public survey indicated they were concerned or very concerned about the effects of winter storms.

The Stakeholder and Advisory Committee determined that the probability that winter storms would occur in each jurisdiction in the future was likely. Winter storms and freezes have a 10% to 100% chance of occurring in each jurisdiction in the next year or at least one chance in 10 years of happening in the three jurisdictions. Property loss or damage was ranked as limited with 10%-25% of property being damaged or destroyed. Loss of function was rated as limited with more than a one day of facilities being shut down if this natural hazard occurred. The threat to safety was ranked as negligible, with few injuries occurring.

Overall, the risk of Winter Storms to each jurisdiction in Russell County was ranked a 3 by the committees. They determined that Hurtsboro, Phenix City and Russell County had a low vulnerability to this natural hazard.

5.4 Assessing Vulnerability, Identifying Assets, Estimating Potential Dollar Losses

Overview

In terms of the each jurisdictions vulnerability to include the impact of the natural hazards listed above, a description is provided under future probability for each jurisdiction in the previous subsection. Additionally, the next section on identifying assets and estimating potential losses also provides insight to the vulnerability of each jurisdiction in terms of their assets and potential dollar losses. Further, the following chart lists the vulnerability of the jurisdictions to specific natural hazards.

Table 5.15 Vulnerability By Jurisdiction

Risk Ranking	Natural Hazard	Jurisdictions Affected
High	Thunderstorm	All
	Tornado	All
Moderate	Drought/Heat Wave	All
	Flood	Flood Zones in all jurisdictions
	Hail	All
	Tropical Depression/Tropical Storm/Hurricane	All
	Winter Storm	All
Low	Wildfire	Russell County; Hurtsboro Russell County School District; Hurtsboro Water Works Fort Mitchell Water System
Very Low	Earthquake	All
	Sinkhole	All
Not Vulnerable	Landslides	All
	Tsunami	All
	Volcano	All

Identifying Populations, Assets and Estimating Potential Dollar Losses

This subsection describes each jurisdiction's vulnerability to hazards by identifying their population, structural assets and estimating their potential dollar losses.

The methodology used to prepare an inventory of jurisdiction structural holdings and estimated losses was to first identify the jurisdictions that this plan would cover and then the major entities within these jurisdictions that would be able to provide us with information in reference to large structural holdings.

After determining what hazard impacted each jurisdiction, contact was made with different agencies to gather information on the number and type of assets and potential dollars losses for structures and property located in a hazard area.

The local governments included in the plan were City of Phenix, Russell County and the Town of Hurtsboro. Within each jurisdiction entities such as Councils, Commissions, planning boards, revenue departments, tax assessors, school systems, post secondary

education, utility companies, water boards, state agencies and volunteer fire departments were contacted to gather asset information and potential dollar loss estimates.

Once all of the data was received it was then broken down by jurisdiction and compiled in spreadsheet fashion to determine the number of structures, their value and their vulnerability to specific natural hazards.

The 2010 Census was also looked at to determine total population as well as school-age population, senior population and the number of people in group quarters for each jurisdiction.

In terms of determining the number of critical facilities that were impacted by a particular hazard, the HAZUS definition critical buildings and facilities was used as a guide. For the purpose of this plan, all of the following elements were considered in defining the critical facilities. A complete list of critical facilities can be found in Appendix C:

A. Essential Facilities are essential to the health and welfare of the whole population and are especially important following hazard events. The potential consequences of losing them are so great that they should be carefully inventoried. Be sure to consider not only their structural integrity and content value, but also the effects on the interruption of their functions because the vulnerability is based on the service they provide rather than simply their physical aspects. Essential facilities include hospitals and other medical facilities, police and fire stations, emergency operations centers and evacuation shelters and schools.

B. Transportation Systems include airways – airports, heliports; highways – bridges, tunnels, roadbeds, overpasses, transfer centers; railways – track, tunnels, bridges, rail yards, depots; and waterways – canals, locks, seaports, ferries, harbors, dry docks, piers.

C. Lifeline Utility Systems such as potable water, wastewater, oil, natural gas, electric power, propane and communication systems.

D. High Potential Loss Facilities are facilities that would have a high loss associated with them, such as nuclear power plants, dams, and military installations.

E. Hazardous Material Facilities include facilities housing industrial/hazardous materials, such as corrosives, explosives, flammable materials, radioactive materials and toxins.

Once data was collected, it was then sorted by jurisdiction and then placed on the sample worksheet on the following page.

SAMPLE WORKSHEET: POPULATIONS, ASSET INVENTORY AND ESTIMATED VALUES

A. Populations	Hurtsboro		Phenix City		Russell County	
Total People						
School-Age Children						
Senior Citizens						
Group Quarters						
Structural Assets	Number	Value	Number	Value	Number	Value
B. Residential						
C. Commercial						
D. Government						
E. Utilities						
F. Education						
G. Agricultural						
H. Religion						
I. Critical Facilities						
Total Structures						
Total Estimated Value						

Table 5.15 on page 46 shows the completed asset inventory and estimated values for residential, commercial, government, utilities, education and agricultural assets for each jurisdiction in Russell County.

TABLE 5.16: POPULATIONS, ASSET INVENTORY AND ESTIMATED VALUES

A. Populations	Hurtsboro		Phenix City		Russell County	
Total People	533		32,822		19,592	
School-Age Children	103		7,005		3,881	
Senior Citizens	103		3,884		2,733	
Institutionalized/Group Quarters	0		557		17	
Structural Assets	Number	Value	Number	Value	Number	Value
B. Residential	251	\$8,069,000	13,243	\$665,181,600	7,735	\$858,060,600
C. Commercial	21	\$7,080,800	736	\$691,459,500	55	\$357,509,700
D. Government	10	\$455,950	105	\$59,582,899	17	\$39,872,124
E. Utilities						
APCO	0	0	*	*	*	*
TELC					6	\$13,600,000
ALAGASCO	*	*	*	*	*	*
Phenix City Utilities			41	\$43,234,621		
Russell Co Water Authority					15	\$4,450,000
Fort Mitchell Water System					13	\$3,710,537
Hurtsboro Water Works	6	\$1,200,000				
F. Education	0	0	19	\$89,908,754	17	\$27,691,300
G. Agricultural					10	\$14,800,000
H. Religious	11	*	110	*	143	*
I. Critical Facilities (Government + Utilities + Education)	10	\$455,950	165	\$192,726,274	68	\$89,323,961
Total Structures (Sum of B-H)	299		14,254		8,011	
Total Estimated Value (Sum of B-H)	\$16,805,750		\$1,549,367,374		1,320,694,261	

* Information not available

Data Sources for the Table:

A. Populations: 2010 Census Data was used to complete the population portion of the table for all jurisdictions.

B. Residential: The Russell County Tax Assessor was able to give current dollar values of residential structures for the City of Phenix City, Russell County and Town of Hurtsboro. This information was combined with housing data from the 2010 U.S. Census website to provide an accounting of residential structures within Russell County.

C. Commercial/Industrial: The Russell County Tax Assessor was able to give dollar valuations for commercial/industrial structures in the City of Phenix City, Russell County and Town of Hurtsboro. NAICS Zip Code Business Patterns from 2011 (the most recent available) were utilized to compile the number of commercial properties in each jurisdiction.

D. Government: Hurtsboro, the City of Phenix City, and the Russell County Commission all provided current numbers and valuation of their assets.

E. Infrastructure/Utilities: While response was given by all of the surveyed water works boards and systems, and Tallapoosa River Electric Cooperative, Alabama Power and Alabama Gas did not submit and statistics for this mitigation plan. The water works inventories do include water treatment plants, lift stations, lines, and office buildings.

F. Education: 2013 Audited financial statements of the Russell County Board of Education and the Phenix City Board of Education valuations of buildings and equipment were utilized.

G. Agricultural/Crops at Market Value: The Russell County Extension Coordinator was contacted to obtain statistics regarding the number and market value of agricultural structures, crops and livestock in Russell County.

H. Religious: Religion statistics were determined by a count of churches, synagogues, parishes and other religious structures from the Russell County Phone Book, census numbers, websites and previous mitigation grants along with the Phenix City / Russell County Chamber of Commerce. Because the Russell County Tax Assessor does not list religious affiliated entities differently on their county tax assessments, there was not a way to break out religion structural statistics from commercial/industrial statistics for the county as a whole. The numbers show a total count of structures with no monetary figure attached.

I. Critical Facilities: The government, utility, and education assets were combined to determine the number and value of critical facilities in each jurisdiction.

Hurtsboro Asset Inventory and Potential Dollar Loss Estimate By Hazard; Page 1

A. Populations	Hurtsboro		Drought/Heat		Earthquake		Flood		Hail	
Total People	533		533		0		533		533	
School-Age Children	103		103		0		103		103	
Senior Citizens	103		103		0		103		103	
Group Quarters	0		0		0		0		0	
Structural Assets	Number	Value	Number	Value	Number	Value	Number	Value	Number	Value
B. Residential	251	\$8,069,000	0	0	0	0	251	\$8,069,000	251	\$8,069,000
C. Commercial	21	\$7,080,800	0	0	0	0	21	\$7,080,800	21	\$7,080,800
D. Government	10	\$455,950	0	0	0	0	10	\$455,950	10	\$455,950
E. Utilities										
APCO										
TELC										
ALAGASCO	*	*			0	0	*	*	*	*
Phenix City Utilities										
Russell Co Water Authority										
Fort Mitchell Water System										
Hurtsboro Water Works	6	\$1,200,000	0	0	0	0	6	\$1,200,000	6	\$1,200,000
F. Education	0	0	0	0	0	0	0	0	0	0
G. Agricultural	0	0	0	0	0	0	0	0	0	0
H. Religious	11	*	0	0	0	0	11	*	11	*
I. Critical Facilities (Government + Utilities + Education)	10	\$455,950			0	0	10	\$455,950	10	\$455,950
Total Structures (Sum of B-H)	299		0		0		299		299	
Total Estimated Value (Sum of B-H)	\$16,805,750		0		0		\$16,805,750		\$16,805,750	

Hurtsboro Asset Inventory and Potential Dollar Loss Estimate By Hazard; Page 2

A. Populations	Hurtsboro		Sinkholes		Thunderstorms		Tornado		All Tropical Storms	
Total People	533		0		533		533		533	
School-Age Children	103		0		103		103		103	
Senior Citizens	103		0		103		103		103	
Group Quarters	0		0		0		0		0	
Structural Assets	Number	Value	Number	Number	Number	Value	Number	Value	Number	Value
B. Residential	251	\$8,069,000	0	0	251	\$8,069,000	251	\$8,069,000	251	\$8,069,000
C. Commercial	21	\$7,080,800	0	0	21	\$7,080,800	21	\$7,080,800	21	\$7,080,800
D. Government	10	\$455,950	0	0	10	\$455,950	10	\$455,950	10	\$455,950
E. Utilities										
APCO										
TELC										
ALAGASCO	*	*	*	*	*	*	*	*	*	*
Phenix City Utilities										
Russell Co Water Authority										
Fort Mitchell Water System										
Hurtsboro Water Works	6	\$1,200,000	0	0	6	\$1,200,000	6	\$1,200,000	6	\$1,200,000
F. Education	0	0	0	0	0	0	0	0	0	0
G. Agricultural	0	0	0	0	0	0	0	0	0	0
H. Religious	11	*	0	0	11	*	11	*	11	*
I. Critical Facilities (Government + Utilities + Education)	10	\$455,950	0	0	10	\$455,950	10	\$455,950	10	\$455,950
Total Structures (Sum of B-H)	299		0		299		299		299	
Total Estimated Value (Sum of B-H)	\$16,805,750		0		\$16,805,750		\$16,805,750		\$16,805,750	

Hurtsboro Asset Inventory and Potential Dollar Loss Estimate By Hazard; Page 3

A. Populations	Hurtsboro		Wildfire		All Winter Storms	
Total People	533		0		533	
School-Age Children	103		0		103	
Senior Citizens	103		0		103	
Group Quarters	0		0		0	
Structural Assets	Number	Value	Number	Number	Number	Value
B. Residential	251	\$8,069,000	0	0	251	\$8,069,000
C. Commercial	21	\$7,080,800	0	0	21	\$7,080,800
D. Government	10	\$455,950	0	0	10	\$455,950
E. Utilities						
APCO						
TELC						
ALAGASCO	*	*	*	*	*	*
Phenix City Utilities						
Russell Co Water Authority						
Fort Mitchell Water System						
Hurtsboro Water Works	6	\$1,200,000	0	0	6	\$1,200,000
F. Education	0	0	0	0	0	0
G. Agricultural	0	0	0	0	0	0
H. Religious	11	*	0	0	11	*
I. Critical Facilities (Government + Utilities + Education)	10	\$455,950	0	0	10	\$455,950
Total Structures (Sum of B-H)	299		0		299	
Total Estimated Value (Sum of B-H)	\$16,805,750		0		\$16,805,750	

Phenix City Asset Inventory and Potential Dollar Loss Estimate By Hazard; Page 1

A. Populations	Phenix City		Drought/Heat		Earthquake		Flood		Hail	
Total People	32,822		32,822		0		32,822		32,822	
School-Age Children	7,005		7,005		0		7,005		7,005	
Senior Citizens	3,884		3,884		0		3,884		3,884	
Group Quarters	557		557		0		557		557	
Structural Assets	Number	Value	Number	Value	Number	Value	Number	Value	Number	Value
B. Residential	13,243	\$665,181,600	0	0	0	0	13,243	\$665,181,600	13,243	\$665,181,600
C. Commercial	736	\$691,459,500	0	0	0	0	736	\$691,459,500	736	\$691,459,500
D. Government	105	\$59,582,899	0	0	0	0	105	\$59,582,899	105	\$59,582,899
E. Utilities										
APCO	*	*					*	*	*	*
TELC										
ALAGASCO	*	*					*	*	*	*
Phenix City Utilities	41	\$43,234,621	0	0	0	0	41	\$43,234,621	41	\$43,234,621
Russell Co Water Authority										
Fort Mitchell Water System										
Hurtsboro Water Works										
F. Education	19	\$89,908,754	0	0	0	0	19	\$89,908,754	19	\$89,908,754
G. Agricultural										
H. Religious	110	*	0	0	0	0	110	*	110	*
I. Critical Facilities (Government + Utilities + Education)	165	\$192,726,274	0	0	0	0	165	\$192,726,274	165	\$192,726,274
Total Structures (Sum of B-H)	14,254		0		0		14,254		14,254	
Total Estimated Value (Sum of B-H)	\$1,549,367,374		0		0		\$1,549,367,374		\$1,549,367,374	

Phenix City Asset Inventory and Potential Dollar Loss Estimate By Hazard; Page 2

A. Populations	Phenix City		Sinkholes		Thunderstorms		Tornadoes		All Tropical Storms	
Total People	32,822		0		32,822		32,822		32,822	
School-Age Children	7,005		0		7,005		7,005		7,005	
Senior Citizens	3,884		0		3,884		3,884		3,884	
Group Quarters	557		0		557		557		557	
Structural Assets	Number	Value	Number	Value	Number	Value	Number	Value	Number	Value
B. Residential	13,243	\$665,181,600	0	0	13,243	\$665,181,600	13,243	\$665,181,600	13,243	\$665,181,600
C. Commercial	736	\$691,459,500	0	0	736	\$691,459,500	736	\$691,459,500	736	\$691,459,500
D. Government	105	\$59,582,899	0	0	105	\$59,582,899	105	\$59,582,899	105	\$59,582,899
E. Utilities										
APCO	*	*			*	*	*	*	*	*
TELC										
ALAGASCO	*	*			*	*	*	*	*	*
Phenix City Utilities	41	\$43,234,621	0	0	41	\$43,234,621	41	\$43,234,621	41	\$43,234,621
Russell Co Water Authority										
Fort Mitchell Water System										
Hurtsboro Water Works										
F. Education	19	\$89,908,754	0	0	19	\$89,908,754	19	\$89,908,754	19	\$89,908,754
G. Agricultural										
H. Religious	110	*	0	0	110	*	110	*	110	*
I. Critical Facilities (Government + Utilities + Education)	165	\$192,726,274	0	0	165	\$192,726,274	165	\$192,726,274	165	\$192,726,274
Total Structures (Sum of B-H)	14,254		0		14,254		14,254		14,254	
Total Estimated Value (Sum of B-H)	\$1,549,367,374		0		\$1,549,367,374		\$1,549,367,374		\$1,549,367,374	

Phenix City Asset Inventory and Potential Dollar Loss Estimate By Hazard; Page 3

A. Populations	Phenix City		Wildfires		All Winter Storms	
Total People	32,822		0		32,822	
School-Age Children	7,005		0		7,005	
Senior Citizens	3,884		0		3,884	
Group Quarters	557		0		557	
Structural Assets	Number	Value	Number	Value	Number	Value
B. Residential	13,243	\$665,181,600	0	0	13,243	\$665,181,600
C. Commercial	736	\$691,459,500	0	0	736	\$691,459,500
D. Government	105	\$59,582,899	0	0	105	\$59,582,899
E. Utilities						
APCO	*	*			*	*
TELC						
ALAGASCO	*	*			*	*
Phenix City Utilities	41	\$43,234,621	0	0	41	\$43,234,621
Russell Co Water Authority						
Fort Mitchell Water System						
Hurtsboro Water Works						
F. Education	19	\$89,908,754	0	0	19	\$89,908,754
G. Agricultural						
H. Religious	110	*	0	0	110	*
I. Critical Facilities (Government + Utilities + Education)	165	\$192,726,274	0	0	165	\$192,726,274
Total Structures (Sum of B-H)	14,254		0		14,254	
Total Estimated Value (Sum of B-H)	\$1,549,367,374		0		\$1,549,367,374	

Russell County Asset Inventory and Potential Dollar Loss Estimate By Hazard; Page 1

A. Populations	Russell County		Drought/Heat		Earthquake		Flood		Hail	
Total People	19,592		19,592		0		19,592		19,592	
School-Age Children	3,881		3,881		0		3,881		3,881	
Senior Citizens	2,733		2,733		0		2,733		2,733	
Group Quarters	17		17		0		17		17	
Structural Assets	Number	Value	Number	Value	Number	Value	Number	Value	Number	Value
B. Residential	7,735	\$858,060,600	0	0	0	0	7,735	\$858,060,600	7,735	\$858,060,600
C. Commercial	55	\$357,509,700	0	0	0	0	55	\$357,509,700	55	\$357,509,700
D. Government	17	\$39,872,124	0	0	0	0	17	\$39,872,124	17	\$39,872,124
E. Utilities										
APCO	*	*					*	*	*	*
TELC	6	\$13,600,000	0	0	0	0	6	\$13,600,000	6	\$13,600,000
ALAGASCO	*	*					*	*	*	*
Phenix City Utilities										
Russell Co Water Authority	15	\$4,450,000	0	0	0	0	15	\$4,450,000	15	\$4,450,000
Fort Mitchell Water System	13	\$3,710,537	0	0	0	0	13	\$3,710,537	13	\$3,710,537
Hurtsboro Water Works										
F. Education	17	\$27,691,300	0	0	0	0	17	\$27,691,300	17	\$27,691,300
G. Agricultural	10	\$14,800,000	10	\$14,800,000			10	\$14,800,000	10	\$14,800,000
H. Religious	143	*	0	0	0	0	143	*	143	*
I. Critical Facilities (Government + Utilities + Education)	68	\$89,323,961	0	0	0	0	68	\$89,323,961	68	\$89,323,961
Total Structures (Sum of B-H)	8,011		10		0		8,011		8,011	
Total Estimated Value (Sum of B-H)	1,320,694,261		\$14,800,000		0		1,320,694,261		1,320,694,261	

Russell County Asset Inventory and Potential Dollar Loss Estimate By Hazard; Page 2

A. Populations	Russell County		Sinkhole		Thunderstorm		Tornadoes		All Tropical Storms	
Total People	19,592		0		19,592		19,592		19,592	
School-Age Children	3,881		0		3,881		3,881		3,881	
Senior Citizens	2,733		0		2,733		2,733		2,733	
Group Quarters	17		0		17		17		17	
Structural Assets	Number	Value	Number	Value	Number	Value	Number	Value	Number	Value
B. Residential	7,735	\$858,060,600	0	0	7,735	\$858,060,600	7,735	\$858,060,600	7,735	\$858,060,600
C. Commercial	55	\$357,509,700	0	0	55	\$357,509,700	55	\$357,509,700	55	\$357,509,700
D. Government	17	\$39,872,124	0	0	17	\$39,872,124	17	\$39,872,124	17	\$39,872,124
E. Utilities										
APCO	*	*			*	*	*	*	*	*
TELC	6	\$13,600,000	0	0	6	\$13,600,000	6	\$13,600,000	6	\$13,600,000
ALAGASCO	*	*			*	*	*	*	*	*
Phenix City Utilities										
Russell Co Water Authority	15	\$4,450,000	0	0	15	\$4,450,000	15	\$4,450,000	15	\$4,450,000
Fort Mitchell Water System	13	\$3,710,537	0	0	13	\$3,710,537	13	\$3,710,537	13	\$3,710,537
Hurtsboro Water Works										
F. Education	17	\$27,691,300	0	0	17	\$27,691,300	17	\$27,691,300	17	\$27,691,300
G. Agricultural	10	\$14,800,000	0	0	10	\$14,800,000	10	\$14,800,000	10	\$14,800,000
H. Religious	143	*	0	0	143	*	143	*	143	*
I. Critical Facilities (Government + Utilities + Education)	68	\$89,323,961	0	0	68	\$89,323,961	68	\$89,323,961	68	\$89,323,961
Total Structures (Sum of B-H)	8,011		0		8,011		8,011		8,011	
Total Estimated Value (Sum of B-H)	1,320,694,261		0		1,320,694,261		1,320,694,261		1,320,694,261	

Russell County Asset Inventory and Potential Dollar Loss Estimate By Hazard; Page 3

A. Populations	Russell County		Wildfire		All Winter Storms	
Total People	19,592		0		19,592	
School-Age Children	3,881		0		3,881	
Senior Citizens	2,733		0		2,733	
Group Quarters	17		0		17	
Structural Assets	Number	Value	Number	Value	Number	Value
B. Residential	7,735	\$858,060,600	0	0	7,735	\$858,060,600
C. Commercial	55	\$357,509,700	0	0	55	\$357,509,700
D. Government	17	\$39,872,124	0	0	17	\$39,872,124
E. Utilities						
APCO	*	*			*	*
TELC	6	\$13,600,000	0	0	6	\$13,600,000
ALAGASCO	*	*			*	*
Phenix City Utilities						
Russell Co Water Authority	15	\$4,450,000	0	0	15	\$4,450,000
Fort Mitchell Water System	13	\$3,710,537	0	0	13	\$3,710,537
Hurtsboro Water Works						
F. Education	17	\$27,691,300	0	0	17	\$27,691,300
G. Agricultural	10	\$14,800,000	0	0	10	\$14,800,000
H. Religious	143	*	0	0	143	*
I. Critical Facilities (Government + Utilities + Education)	68	\$89,323,961	0	0	68	\$89,323,961
Total Structures (Sum of B-H)	8,011		0		8,011	
Total Estimated Value (Sum of B-H)	1,320,694,261		0		1,320,694,261	

5.5 Analyzing Development Trends

Overview

Russell County's vulnerability in terms of land uses and development trends was reviewed so that mitigation options could be considered in future land use decisions.

Information from the 2011 Russell County Comprehensive Plan, Center for Business and Economic Research, Alabama Center for Real Estate and Bureau of Economic Analysis was used to assess trends in population growth, personal income, land use, housing, and community amenities.

This information provides a basis for making decisions on the type of mitigation approaches to consider, and the locations in which these approaches should be applied. If a jurisdiction's development trends are impacted by a natural hazard differently than other jurisdictions, it will be detailed under this subsection.

Population Growth

Russell County experienced only moderate population growth through the 1980's, 1990's. The main population center has historically been in the county seat, Phenix City, which in 2010 had 61% of the County population within its borders.

The population in Russell County is expected to continue to grow at higher rates than the previous three decades. The Center for Economic and Business affairs at the University of Alabama growth projections are in Table 5.13. According to the Russell County Comprehensive Plan, population growth is expected to be the greatest in the northeast quarter of the county. This includes the US Highway 80 corridor, US Highway 431 and Alabama Highway 165 corridors, the City of Phenix City and the communities of Fort Mitchell, Ladonia and Seale. Other areas of the county are actually expected to see declining population numbers.

Table 5.17 County Population Projections 2015-2040

County	Census 2000	Census 2010	Est. 2015	Est. 2020	Est. 2025	Est. 2030	Est. 2035	Est. 2040	Change	%
Russell	49,756	52,947	55,201	57,321	59,269	61,114	62,970	64,913	11,966	22.6

Source: Center for Economic and Business Research, 2014

Per Capita Income

Per capita personal income is the total personal income of an area divided by the population of the area. It is an indicator of the economic well being of residents and the character of consumer markets. In 2012, Russell County had a per capita personal income of \$31,123. This was an increase of 0.7 percent of the per capita personal income in 2011, but is still well below the state average. Russell County's PCPI is ranked 34th in the state.

Land Use Trends

Residential growth is comprised of single family homes. Subdivision growth is predominately occurring in Phenix City and the communities of Ladonia and Fort

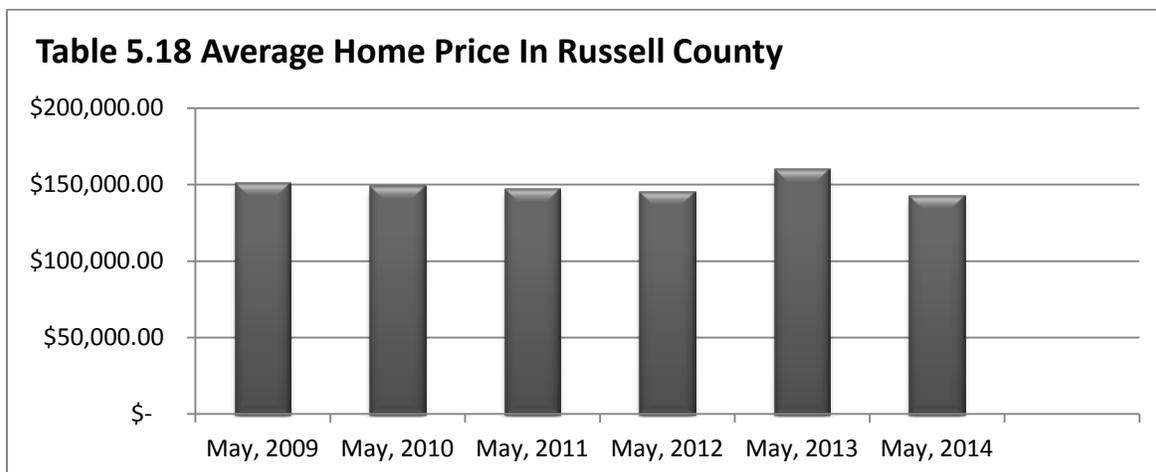
Mitchell. There are deteriorating older homes and depressed housing conditions in many of the population centers of the County.

Commercial development is occurring along the major transportation corridors of the County, particularly Highway 80, west of Phenix City and Highway 431, south of Phenix City. Phenix City is experiencing some retail growth and redevelopment near the Riverwalk. A new Courtyard by Marriott with convention facilities is opening in September, 2014.

The Russell County Economic Development Assessment and Strategy (Part of the Russell County Comprehensive Plan) does not expect residential or commercial growth in other areas of the county.

Housing Market

Russell County's housing market improved during the recent recession due to the expansion of Fort Benning. In 2006, the median price for a home in Phenix City was \$128,358. In 2009, the median price had reached \$150,907. In May, 2014, the average price for a home was \$142,491. There were 68 sales during the month.



Source: ACRE, 2014

The Alabama Center for Real Estate characterizes the current housing market in Russell County as a buyer's market.

Post Secondary Education

Troy University's Phenix City campus has an enrollment of nearly 2,000 students. Troy seeks to meet the needs of full-time working adults and offers bachelors and graduate degrees in business, counseling, education and nursing. Troy is currently constructing a new building in downtown Phenix City adjacent to the Chattahoochee River.

Chattahoochee Valley Community College, also located in Phenix City, is committed to preparing students to transfer to four-year colleges by providing a strong foundation in core curriculum. They also strive to develop the region's workforce through career fields

such as health sciences, business, information technology and public safety. CVCC has an enrollment of 2,000 students.

Parks, Recreation, Cultural Amenities

Phenix City has six municipal parks open to the public, which offer fishing, playgrounds, splash pads, walking trails, picnic areas, golf, baseball, softball, tennis, basketball and swimming pools. In Seale, Alabama, the Russell County Sports Complex has two t-ball fields and three little league ball fields and one softball field.

The new Whitewater Rafting Course on the Chattahoochee River in Phenix City, is drawing an estimated 60,000 new visitors to the area annually. The Riverwalk along the Chattahoochee River is a lighted area for walking, jogging or just enjoying the beauty of the river from four observation decks.

The Phenix City Amphitheatre, overlooking the Chattahoochee River, is home to a variety of outdoor concerts and events throughout the year.

Fort Mitchell Historic Site is a unique facility offering visitors a glimpse into frontier Alabama in the early 1800's. The fort has been reconstructed at its original site along what was once the Old Federal Road. Adjacent to the fort is the Chattahoochee Indian Heritage Center, which memorializes native Alabamians.

SECTION 6: MITIGATION STRATEGY

Section Revisions:

The following revisions were made to Section 6, Mitigation Strategy:

General: Section 6 was re-formatted

6.1 Overview of Section 6- No changes

6.2 Overview of Mitigation Strategy Methodology- No changes

6.3 Natural Hazard Mitigation Plan Mission Statement

- The mission statement was revised by the Stakeholder and Technical Advisory Committee.

6.4 Natural Hazard Mitigation Plan Goals

- Goals 1, 3 and 4 were reworded;
- Goals 2 and 5 were deemed to be very similar to each other and were combined into one goal;
- Goals 6 and 7 were not changed by the Committee.

6.5 Natural Hazards Mitigation Plan Objectives and Actions

- The advisory and stakeholder committee updated the plan's objectives and actions based on the risk assessment, hazard profiling and vulnerability assessment;
- No objectives were deleted, combined or added;
- Objective 5 was reworded;
- Mitigation actions were numbered;
- Actions were updated to reflect progress;
- Action 2.7 was deleted;
- Five new actions (1.3, 3.2, 6.4, 8.3, 8.4) were added to the mitigation strategy.

6.1 Overview of Section 6

The section describes the natural hazards mitigation strategy that provides the jurisdiction's blueprint for reducing potential losses identified in the risk assessment in Section 5 of the plan. The strategy is based on existing authorities, policies, programs, and resources, and its ability to expand on and improve these existing tools.

The methodology followed for updating the mitigation strategy did not change from the previous plan. The Stakeholder and Technical Advisory Committee utilized the updated risk assessment, citizen input, the expertise of key stakeholders and their own experiences to assess the existing mission statement and goals and review, update, and prioritize mitigation strategies.

6.2 Overview of the Mitigation Strategy Methodology

The risk assessment in Section 5 was compiled by the Stakeholder and Technical Advisory Committee following meetings, personal and telephone interviews with key stakeholders in the county, and input from the general public.

The Natural Hazard Plan's vision, goals, objectives, and mitigation actions were updated by the committee based on the completed risk assessment. The goals, objectives, and mitigation actions that are listed in this update were determined to be of the greatest benefit in hazard reduction for the jurisdictions in Russell County.

All elements of the Mitigation Strategy were identified and developed by examining existing programs, plans, and personnel with the Russell County EMA Director and staff. The Natural Hazards Mitigation Plan Objectives and Actions Table in this section lists objectives, and actions along with the impacted hazard, jurisdiction(s), timeline, responsible agency(ies), funding sources, and priority.

The Advisory Committee's knowledge and expertise in dealing with natural hazards was invaluable in updating the strategy. The primary considerations used by the committee to update and prioritize the action plan included: social impact, technical feasibility, funding availability, administrative capabilities, political and legal effects, development trends, and economic, as well as environmental issues.

The actions will be implemented in the order that meets the majority of these considerations or as needed due to emergency or safety concerns. For example, utilizing technology and social media for communications and information exchange, offering storm shelters to individuals, distributing NOAA weather radios, and installing sirens was given priority over other actions due to the availability of funding, staffing capabilities, urgency, and benefit to the public.

In terms of the cost-benefit review of the mitigation strategy, the mitigation actions with the highest priority were considered the most cost effective and achievable for each jurisdiction in the county. Each action that rated highly was considered cost effective based on the following rating criteria:

- The action could be completed by existing staff;
- The cost to implement the actions could be provided by the existing resources of the local agencies or possible funding by the state or federal government agency;
- The action could be accomplished in a short time-frame;
- The action will have immediate and lasting benefits on reducing the impact of the natural hazards on Russell County.

Before projects derived from the Mitigation Strategy are submitted for possible funding and implementation, it will be reviewed by RCEMA staff and the jurisdictions to determine if the benefit outweighs its cost. If costs exceed benefit, an alternative project will be selected and pursued.

The updated mitigation strategy is multi-jurisdictional. Each jurisdiction was represented on the Stakeholder and Technical Committee and/or provided valuable assistance in compiling the risk assessment and agreed the mitigation goals, objectives and actions applied to their area. The jurisdictions did not designate specific mitigation actions for their area but designated all actions as needed for their citizens.

The jurisdictions will equally participate in ensuring the implementation and monitoring of each mitigation action. However, if a participating jurisdiction does not have a department to take responsibility for the mitigation action, the Russell County Emergency Management Agency will coordinate with the governing body of the jurisdiction to ensure involvement and completion of the action.

6.3 Natural Hazards Mitigation Plan Mission Statement

The Hazard Mitigation Stakeholder and Technical Advisory Committee reviewed the existing Mission Statement in their 2/6/14 meeting.

2010 Russell County HMGP Plan Mission Statement:

“The mission of the Russell County Natural Hazard Mitigation Plan is to ensure that the communities of Russell County are less vulnerable to the effects of natural hazards through identifying and implementing feasible hazard mitigation projects, increasing public awareness, developing a mechanism to document past and future hazards, and facilitating a coordinated approach to mitigation policy through state, regional and local planning activities.”

While the Committee felt that existing mission statement was still applicable to Hazard Mitigation planning, they also believed it was missing an essential element. The purpose of all hazard mitigation planning and strategies is to reduce the loss of life and property. The committee wanted to add that essential element to the Mission Statement. The revised mission statement is below.

Revised 2015 Russell County HMGP Plan Mission Statement:

“The mission of the Russell County Natural Hazard Mitigation Plan is to ensure that the communities of Russell County are less vulnerable to the effects of natural hazards through identifying and implementing feasible hazard mitigation projects, increasing public awareness, developing a mechanism to document past and future hazards, and facilitating a coordinated approach to mitigation policy through state, regional and local planning activities; thereby reducing the likelihood of loss of life and property in a disaster.”

6.4 Natural Hazards Mitigation Plan Goals

The Russell County Stakeholder and Technical Advisory Committee reviewed the existing goals at their April 17, 2014 meeting. The committee evaluated existing mitigation goals effectiveness in reducing or avoiding long-term vulnerabilities to the natural hazards that impact each jurisdiction.

After careful review and debate several changes were made to the goals.

- Goals 1, 3 and 4 were reworded.
- Goals 2 and 5 were deemed to be very similar to each other and were combined into one goal.
- Goals 6 and 7 were not changed by the Committee.

The updated goals will guide the assessment, development, and implementation of the mitigation actions. Table 6.1 outlines each goal from the 2010 plan and the changes that were made for this update.

Table: 6.1 RUSSELL COUNTY HAZARD MITIGATION GOAL REVISIONS

2010 RUSSELL COUNTY GOALS	2015 RUSSELL COUNTY GOALS
1. Improve efforts to compile hazard and asset information in order to make recommendations to prevent new development and to promote preventative strategies for existing structures in areas that are vulnerable to natural hazards.	1. Improve efforts to compile hazard and asset information to manage new development and promote preventative strategies in areas that are vulnerable to natural hazards. (Revised)
2. Minimize future losses of property and lives by making existing and future residential, commercial structures and critical facilities less vulnerable to natural hazards through property protection strategies.	2. Protect people and property at risk and lessen the impacts of natural hazards by the implementation of structural projects and protection strategies. (Combined with Goal 5)
3. Promote efforts for the conservation, protection, and restoration of natural resources.	3. Promote efforts and partnerships for the conservation, protection and restoration of natural resources. (Revised)
4. Strengthen the preparedness, communication, and response of emergency services before, during, and immediately after	4. Strengthen the response capabilities and communication of emergency services, before, during and immediately after a disaster or

2010 RUSSELL COUNTY GOALS	2015 RUSSELL COUNTY GOALS
a disaster or hazard event.	hazard event. (Revised)
5. Implement structural projects to protect people and property at risk and control the impacts of natural hazards.	Combined with Goal 2.
6. Increase the coordination and participation of citizens, public agencies, non-profit agencies and individuals in mitigation projects.	6. Increase the coordination and participation of citizens, public agencies, non-profit agencies and individuals in mitigation projects. (No change)
7. Increase efforts to inform and educate citizens, elected officials, emergency personnel and property owners about natural hazards and the potential ways to mitigate them.	7. Increase efforts to inform and educate citizens, elected officials, emergency personnel and property owners about natural hazards and the potential ways to mitigate them. (No change)

6.5 Natural Hazards Mitigation Plan Objectives and Actions

Mitigation Plan Objectives

The committee reviewed and analyzed the existing Mitigation Plan objectives. No existing objectives were deleted. Only Objective 5 was revised to broaden the objective from only wildfires to all natural hazards. The thirteen objectives are listed below and are also in Table 6.2 with their relevant Mitigation Actions:

1. Develop and maintain geographic information system that indicates existing and new structures, critical facilities, infrastructure, and specific areas in each jurisdiction that are vulnerable to natural disasters.
2. Implement programs to protect the structure and access to new and existing commercial buildings, residential structures, critical facilities and infrastructure during and after a natural hazard.
3. Enhance damage assessment reporting to increase the accuracy of the natural hazard information relating to the type and degree of damage that occurs.
4. Identify and implement relocation projects for residence and businesses impacted by possible natural hazards.
5. Encourage and promote the use of effective land management practices that reduce or lessen the impacts of natural hazards.

6. Implement, improve and increase the natural hazard warning systems especially in areas with high numbers of vulnerable populations.
7. Ensure that current emergency services are sufficient to protect the safety and health of county residents during a natural hazard.
8. Enhance mass care and shelters that are available during and after a natural hazard.
9. Enhance recovery efforts of Russell County citizens during a natural hazard.
10. Educate agency personnel and provide technical assistance on what grants are available to secure funds for equipment and training.
11. Enhance and develop educational programs aimed at Russell County citizens on how they can prevent and protect their home, businesses, lives, and property from natural hazards.
12. Continue to educate and provide assistance to citizens concerning the National Flood Insurance Program.
13. Develop a plan and seek funding for generators to be placed in areas of need to guarantee an adequate potable water source.

Identification and Analysis of Mitigation Measures:

The committee identified, evaluated, and analyzed a comprehensive range of specific mitigation actions to reduce the effects of each natural hazard identified in Section 5: Risk Assessment. This update contains 32 mitigation actions that were considered by the Committee. The actions are numbered to coincide with the relevant mitigation objective. Please see Table 6.2 for all Mitigation Actions.

Implementation of Mitigation Measures:

The committees outlined a plan for how the actions will be prioritized, implemented and administered by the jurisdictions. The action plan includes the implementation timeline, responsible agency, funding sources, and priority for each action. Please note, Hurtsboro does not have an engineering, police, or public works department. Russell County Engineering/Public Works and Sheriff's Office will assist Hurtsboro where applicable.

Where progress on a specific action was made, it is noted on the table. Please see table 6.2.

Table 6.2: Hazard Mitigation Plan Objectives and Actions

(Hazard Key: D=Drought/Heat; E=Earthquake; F=Flood; H=Hail; S=Sinkhole; T=Thunderstorms; TO=Tornado; TS=All Tropical Storms; WI=Wildfire; WS=All Winter Storms)

Hazard										Action	Jurisdiction	Timeline	Responsible Agency	Funding	Priority	Progress
D	E	F	H	S	T	T	T	W	W							
					O	S	I	S								
Objective 1: Develop and maintain geographic information systems that indicate existing and/or future structures, critical facilities, infrastructure and specific areas in each jurisdiction that are vulnerable to natural disasters.																
		X			X					Action 1.1 Develop an up to date map of all current or planned private and public dams and levees in all jurisdictions Benefit Analysis: Improved risk information vs. future loss of property, function	All	Deferred	Russell County Engineering; Phenix City Engineering; RCEMA	Local	Low	Deferred for funding, staffing
		X								Action 1.2 Develop up to date flood maps for Russell County in digital format by participating in FEMA’s Floodplain Map Modernization Program Benefit Analysis: Improved risk information vs. future loss of life, property, function	All	1-2 years	Russell County & Phenix City Engineering Departments & Floodplain Managers	Local AEMA ADECA	High	In progress*; Dams removed from Chattahoochee caused review of 2010 maps
X	X	X	X	X	X	X	X	X	X	Action 1.3 (New) Integrate existing GIS data into one shareable file. Benefit Analysis: Improved asset information for planning, mitigation, recovery vs. less informed	All	4 years	RCEMA; City of Phenix City; Russell County Commission	Local	Medium	New in 2015;

Hazard										Action	Jurisdiction	Timeline	Responsible Agency	Funding	Priority	Progress
D	E	F	H	S	T	T	T	W	W							
						O	S	I	S							
										decisions to protect communities.						
Objective 2: Implement programs to protect commercial, residential, and public structures and access to critical facilities and infrastructure.																
			X		X	X	X		X	Action 2.1 Implement a tree maintenance program to prevent loss and protect lives, property and infrastructure. Benefit Analysis: Preventative maintenance vs. future loss of property, function	All	Continuing all 5 years	Russell County & Phenix City Public Works, Maintenance and Engineering Departments	Local	Medium	Complete;
		X	X	X	X	X	X	X	X	Action 2.2 Develop a debris management program for homeowners, businesses, critical facilities and infrastructure after natural hazard events. Benefit Analysis: Pre- planning vs. delayed response and recovery	All	Deferred	Russell County & Phenix City Public Works, Maintenance and Engineering Departments	Local	Medium	No Progress; Funding, staffing not available
		X			X		X			Action 2.3 Develop a dredging program where lakes, streams, creeks, & rivers can be dredged on an as needed basis in an effort to keep them from overflowing and flooding commercial, residential and public structures and	All	Continuing all 5 years	Russell County & Phenix City Public Works and Engineering Departments	Local	Medium	Complete;

Hazard										Action	Jurisdiction	Timeline	Responsible Agency	Funding	Priority	Progress
D	E	F	H	S	T	T	T	W	W							
		X			X		X			infrastructure. Benefit Analysis: Preventative maintenance vs. future loss of life, property, function						
		X			X		X			Action 2.4 (Re-worded) Continue to maintain and enforce regulations for silt fences to prevent erosion. Benefit Analysis: Preventative maintenance vs. future loss of property, function	All	Continuing all 5 years	Russell County & Phenix City Public Works and Engineering Departments	Local	Medium	Complete;
		X			X		X			Action 2.5 Develop storm water drainage plans for jurisdictions in Russell County Benefit Analysis: Pre-planning vs. future flood loss	All	Complete	Russell County & Phenix City Public Works and Engineering Departments	Local	Medium	Complete;
		X			X	X	X			Action 2.6 Keep accurate lists of properties in Russell County that might be candidates for full or partial buyouts, elevations and/or wind retrofits. (Appendix D) Benefit Analysis: Buyouts vs. future loss of life, property, function	All	Continuing all 5 years as funding is available	RCEMA	Local State Federal	Medium	Complete; Buyouts completed for 1 church since 2010;

Hazard										Action	Jurisdiction	Timeline	Responsible Agency	Funding	Priority	Progress
D	E	F	H	S	T	T O	T S	W I	W S							
										Action 2.7 (Deleted) Seek funding to contract a mitigation study on dredging projects and their necessity in Russell County. Benefit Analysis: Improved risk information vs. future loss of property, function	N/A	N/A	N/A	N/A	N/A	Deleted; Dredging is addressed in Action 2.3
Objective 3: Enhance damage assessment reporting to increase the accuracy of the natural hazard information related to the type/ degree of damage that occurs.																
X	X	X	X	X	X	X	X	X	X	Action 3.1 Implement a reporting system to obtain detailed damage reports from law enforcement, emergency management services, fire, rescue and other governmental entities. Benefit Analysis: Coordination of data, resources vs. less effective response and recovery ability	All	Continuing all 5 years	RCEMA; Phenix City & Russell County Law Enforcement; PC Fire Department; Volunteer Fire Departments	Local	Medium	Complete;
X	X	X	X	X	X	X	X	X	X	Action 3.2 (New) Promote and utilize cellular and internet applications for damage reporting. Benefit Analysis: Use of technology resources vs. less effective response and recovery ability	All	1-2 years	RCEMA	Local State Federal	High	New in 2015;

Hazard										Action	Jurisdiction	Timeline	Responsible Agency	Funding	Priority	Progress	
D	E	F	H	S	T	T	T	W	W								
Objective 4: Identify and implement relocation projects for residential and commercial properties impacted by possible natural hazards.																	
		X									Action 4.1 Continue to acquire and preserve land that is subject to repetitive flooding from landowners who are willing to participate in the program. Benefit Analysis: Acquisition vs. continued loss due to repetitive flooding	All (Specific flood prone locations are in App. D)	Continuing all 5 years as funding is available	RCEMA	FEMA Local	Medium	Complete; Would like to acquire properties along Cochgalee Creek
Objective 5: Encourage and promote the use of effective land management practices that reduce or lessen the impacts of natural hazards. (Revised)																	
X									X		Action 5.1 Develop an educational program with the state forestry office by distributing land management practices and regulation materials to landowners. Benefit Analysis: Improved land management vs. future loss of property, function	All	4-5 years As funding is available	State Forestry Department; RCEMA	Local State	Low	No progress made; Staffing not available
X									X		Action 5.2 Identify and construct firebreaks around critical facilities that are vulnerable to wildfires. Benefit Analysis: Preventative maintenance vs. future loss of property,	All	4-5 years As funding is available	State Forestry Department; RCEMA	Local State	Low	No progress made; Funding not available

Hazard										Action	Jurisdiction	Timeline	Responsible Agency	Funding	Priority	Progress
D	E	F	H	S	T	T	T	W	W							
										function						
Objective 6: Implement, improve, and increase the natural hazard warning systems especially in areas with high numbers of vulnerable populations.																
X	X	X	X	X	X	X	X	X	X	Action 6.1 Continue to seek and secure funding to place outdoor warning sirens in needed places throughout the county. Benefit Analysis: Improved early warning systems vs. loss of life	All	Continuing all 5 years	RCEMA	Local AEMA FEMA	High	Complete; 5 new sirens added since 2010; at least 5 more needed
X	X	X	X		X	X	X	X	X	Action 6.2 (Revised) Continue to enhance and seek funding and/or partnerships with other agencies to implement mass automated notification systems throughout the county. (List in Appendix D) Benefit Analysis: Improved early warning systems vs. loss of life	All	Continuing all 5 years	RCEMA; Russell County 911 Coordinator; Phenix City Schools; Russell County Schools	Local AEMA FEMA USDA	High	Complete
		X	X		X	X	X		X	Action 6.3 Seek and secure funding for NOAA Weather Radios to be placed in areas with high populations of vulnerable citizens and or where large numbers of citizens congregate. (List in Appendix D)	All	Continuing all 5 years	RCEMA; Russell County 911 Coordinator	Local AEMA FEMA USDA	High	Complete; 265 weather radios have been distributed to child care, churches, recreation

Hazard										Action	Jurisdiction	Timeline	Responsible Agency	Funding	Priority	Progress
D	E	F	H	S	T	T	T	W	W							
						O	S	I	S							
										Benefit Analysis: Improved early warning systems vs. loss of life						
X	X	X	X	X	X	X	X	X	X	Action 6.4 (New) Implement Web EOC Benefit Analysis: Improved early warning systems vs. loss of life	All	1-4 years	RCEMA	Local FEMA	High	New in 2015
Objective 7: Ensure that current emergency services are sufficient to protect the safety and health of county residents during a natural hazard.																
X	X	X	X	X	X	X	X	X	X	Action 7.1 Conduct a survey of the county's emergency response agencies to identify existing needs and possible funding sources in terms of equipment, personnel, and resources. Benefit Analysis: Well equipped, ready first responders vs. less effective response, recovery ability	All	Continuing all 5 years	RCEMA; Phenix City & Russell County Law Enforcement; PC Fire Department; Volunteer Fire Departments	Local	Medium	Complete
X	X	X	X	X	X	X	X	X	X	Action 7.2 Continue to offer training courses on the occurrence of natural hazards and recovery efforts associated with natural hazards. Benefit Analysis: Well informed community vs. loss of life, property, function	All	Continuing all 5 years	RCEMA	Local	Medium	Complete; Training has been offered on a quarterly basis

Hazard										Action	Jurisdiction	Timeline	Responsible Agency	Funding	Priority	Progress
D	E	F	H	S	T	T	T	W	W							
O	S	I	S	Objective 8: Enhance mass care and shelter options that are available during and after a natural hazard.												
X	X	X	X	X	X	X	X	X	X	Action 8.1 (Revised) Maintain a media, website and public information packet with shelter locations and services available in the event of a disaster. Benefit Analysis: Well informed community vs. loss of life, property, function	All	Continuing all 5 years	RCEMA; Phenix City & Russell County Law Enforcement; PC Fire Department; Red Cross	Local	Medium	Complete
					X	X				Action 8.2 Develop and maintain a list of homeowners and/or agencies who wish to have a safe room. Secure funds to assist homeowners and agencies in constructing safe rooms. (Appendix D) Benefit Analysis: Safe rooms vs. loss of life	All	Continuing all 5 years, as funding is available	RCEMA	FEMA AEMA Local	Medium	Complete; 7 New safe rooms added since 2010; 8 on wait list
		X			X	X	X		X	Action 8.3 (New) Work with transportation providers to safely move individuals to shelter. Benefit Analysis: Coordination of resources vs. less effective response and recovery ability	All	1-3 years	RCEMA; Phenix City Express Public Transit; Phenix City Schools; Russell County Schools	Local	Medium	New in 2015
						X			X	Action 8.4 (New) Obtain funding to support the construction of	All	1-5 years	RCEMA; Phenix City Schools;	FEMA AEMA Local	Medium	New in 2015

Hazard										Action	Jurisdiction	Timeline	Responsible Agency	Funding	Priority	Progress
D	E	F	H	S	T	T O	T S	W I	W S							
										community shelters in areas of need and/or retrofit areas in existing schools so students can shelter in place. Benefit Analysis: Community shelters vs. loss of life			Russell County Schools			
Objective 9: Enhance recovery efforts of Russell County citizens during a natural hazard.																
		X			X	X	X		X	Action 9.1 Establish a recovery response team to initiate recovery efforts and to provide damage reports to the Russell County EMA. Benefit Analysis: Coordination of resources vs. less effective response and recovery ability	All	Continuing all 5 years	RCEMA; Phenix City & Russell County Law Enforcement; PC Fire Department; Red Cross	Local	Medium	Complete
Objective 10: Educate agency personnel and provide technical assistance on what grants are available to secure funds for equipment and training.																
X	X	X	X	X	X	X	X	X	X	Action 10.1 Develop a database of contract personnel to send grant alerts concerning the availability of funds for equipment and training. Benefit Analysis: Expended funding possibilities vs. reliance on federal funding	All	Continuing all 5 years	RCEMA LRCOG	Local	Medium	Complete; LRCOG subscribes to Grant Alert Service
Objective 11: Enhance and develop educational programs aimed at Russell County Citizens on protecting their lives, homes, businesses and property from natural hazards.																

Hazard										Action	Jurisdiction	Timeline	Responsible Agency	Funding	Priority	Progress
D	E	F	H	S	T	T O	T S	W I	W S							
X	X	X	X	X	X	X	X	X	X	Action 11.1 (Revised) Distribute natural hazard information via all available outlets, including social media. Benefit Analysis: Well informed community vs. loss of life, property, function	All	Continuing all 5 years	RCEMA	Local	Medium	Complete;
X	X	X	X	X	X	X	X	X	X	Action 11.2 (Revised) Hold Community Emergency Response Team (CERT) Training and Be Ready Days for citizens to increase their knowledge and ability to respond effectively to natural hazard events Benefit Analysis: Well informed community vs. loss of life, property, function	All	Continuing all 5 years	RCEMA	Local FEMA	High	Ongoing; Classes are held quarterly; Be Ready is an annual event
Objective 12: Continue to educate and provide assistance to citizens concerning the national flood insurance program.																
		X			X		X			Action 12.1 All local governments will continue to participate in NFIP by: 1) Participating in floodplain identification and mapping, 2) offering assistance and encouraging property owners to participate in NFIP as protection against flood	All	Continuing all 5 years	RCEMA; Phenix City City Manager; Russell County Administrator; Hurtsboro Mayor	Local	High	Complete

Hazard										Action	Jurisdiction	Timeline	Responsible Agency	Funding	Priority	Progress
D	E	F	H	S	T	T O	T S	W I	W S							
										losses, and 3) Developing monitoring activities Benefit Analysis: Improved risk information, resources vs. future flood losses						
		X			X		X			Action 12.2 Make current flood maps and NFIP information available social media, websites, brochures and training materials Benefit Analysis: Improved risk information, resources vs. future flood losses	All	1-5 years	RCEMA; Floodplain Managers in Russell County and Phenix City	Local	Medium	Complete; Revised to include social media
Objective 13: Develop a plan and seek funding for generators to be placed in areas of need to guarantee an adequate potable water source.																
		X			X	X	X		X	Action 13.1 Purchase generators and trailers in an effort to keep lift stations at water distributors working in the event of power outages, ensuring that there will be the ability to have potable water. Benefit Analysis: Emergency water availability vs. water outages, shortages, rationing	All	4-5 years as funding is available	RCEMA; Phenix City Utilities; Russell County Water Authority; Fort Mitchell Water and Sewer System; Hurtsboro Water Works	Local AEMA Federal	Medium	No progress; No funding available

SECTION 7: PLAN MAINTENANCE PROCEDURES

Section Revisions:

The following revisions were made to Section 7, Plan Maintenance Procedures:

General: Section 7 was re-formatted

7.1 Overview of Section 7- No changes

7.2 Monitoring, Evaluating and Updating the Plan

- The Advisory Committee was limited to a maximum of two members from each jurisdiction.
- The Russell County EMA Director will chair the Advisory Committee.
- The description of the Five Year Update was expanded.
- A process for reviewing the plan after disaster was added.

7.3: Incorporation and Integration of Mitigation Strategies through Existing Programs and Planning Mechanisms

- The title of Section 7.3 has been changed.
- The list of existing planning documents/mechanisms has been updated.
- The process for incorporation and integration of data, hazard mitigation goals and actions into planning mechanisms has been described.

7.4 Continued Public Participation

- Public outreach strategies have been updated.

7.1 Overview of Section 7

This section documents the formal maintenance process that will take place to ensure that the Russell County Natural Hazards Mitigation Plan remains an active and pertinent document. The plan maintenance procedure includes a schedule for monitoring and evaluating the plan at least every five years and details how continued public participation will occur throughout the plan maintenance process. This section will include an explanation of how local governments intend to incorporate their mitigation strategies into any existing planning mechanisms such as comprehensive or capital improvement plans.

7.2 Monitoring, Evaluating, and Updating the Plan

The Russell County Commission, City of Phenix City, and Town of Hurtsboro will be the governing bodies that will formally adopt the Russell County Natural Hazards Mitigation Plan. The plan will also be adopted by the Phenix City School System, Russell County School District, Hurtsboro Water Works and Fort Mitchell Water System.

Once the plan has been adopted by these jurisdictions, the Hazards Mitigation Technical Advisory Committee will be formed as the permanent planning group to monitor, evaluate, and update the plan. The Russell County Emergency Management Director will chair the committee.

The Russell County Emergency Management Agency will recommend individuals to serve on the Advisory Committee to the governing officials of each jurisdiction. Two representatives from each jurisdiction may be appointed by each governing body. Members will serve two year terms but may be re-appointed at the discretion of the jurisdiction.

The Advisory Committee will meet on an annual or as needed basis to review and monitor the implementation of the Russell County Hazard Mitigation Plan. In the event that a disaster impacts the jurisdictions of Russell County, The Advisory Committee will meet to review the plan. The Russell County Emergency Management Agency is responsible for contacting committee members and organizing all meetings. The annual meeting will generally take place in the spring.

In addition to implementing the plan in conjunction with the Russell County Emergency Management Agency, the Advisory Committee will be responsible for interim, yearly, and five year updates and evaluations of the Russell County Natural Hazards Mitigation Plan.

Interim Update Process

The interim update process will be used on a quarterly or as-needed basis. During this process, each jurisdiction will maintain data on the status of the jurisdiction's risk assessment, mitigation objectives, mitigation actions, and mitigation projects.

Each local government will be responsible for reporting any new/changed information or developments related to planning, zoning, ordinances, code enforcement and/or annexations to the Russell County Emergency Management Agency Director and/or Russell County EMA Designee.

The information can be delivered to the EMA or provided at a scheduled meeting of the Russell County Hazards Mitigation Plan Technical Advisory Committee. The personnel responsible for getting the updates to the Russell County EMA are the following:

- City of Phenix City - City Manager, or appointed designee
- Russell County - County Administrator, County Engineer, or appointed designee
- Town of Hartsboro - Mayor, Mayor Pro Tem, or appointed designee

As updated information is provided, the EMA staff will determine if the information should be added to the Russell County Natural Hazards Mitigation Plan. If it is determined an interim update is needed, the Russell County EMA will schedule a meeting with the Advisory Committee to review the submitted jurisdiction's information and recommend additions or revisions to the mitigation plan. The Advisory Committee meeting will be open to the public and meeting notices will be posted in public buildings, on community calendars, websites and social media.

During interim updates, assessments, objectives, and/or actions may be adjusted as needed to accommodate regulations, zoning and land incorporation. Additionally, information may be added or deleted in an effort to keep up with changing standards for grant requirements per Alabama Emergency Management Agency, Federal Emergency Management Agency, as well as local, state and federal rules and regulations.

The Advisory Committee will facilitate public participation of any interim updates through meeting notices in adherence with the State of Alabama Sunshine Laws by newspaper ads, postings of meeting notices in public buildings, on community calendars, in neighboring communities, on websites and via social media.

Interim updates will not require formal approval by the governing body of each jurisdiction. Changes to the plan as a result of an interim update will be sent to each jurisdiction and the AEMA for inclusion in the mitigation plan.

Annual Update Process

On an annual basis, the Russell County EMA and Advisory Committee will review and evaluate the Russell County Natural Hazards Mitigation Plan.

During the annual update the Advisory Committee will review the plan to determine the following:

- Has the nature, magnitude, and/or type of risks changed;
- Have there been changes to zoning, ordinances, code enforcement, jurisdictional boundaries;
- Are new planning initiatives, studies, or economic development impacting mitigation efforts;
- Do the goals and objectives address current and expected conditions;
- Are the current resources appropriate for implementing the plan;
- What is the status of implementing the mitigation strategies;
- Are there implementation problems associated with the mitigation strategies;
- Have the outcomes occurred as expected; and
- How are coordination efforts with the public and other community agencies proceeding?

The Russell County EMA and Advisory Committee will encourage public attendance and participation during the annual update process. Meeting notices will be posted in public buildings, on community calendars, websites and social media. Public comments will be included in the yearly report.

Based on this evaluation, a yearly report will be submitted to each jurisdiction to summarize the current status of the plan and any changes that are needed. The report will include the following information:

- A review of the original plan;
- A review of any disasters or emergencies that occurred during the previous calendar year;

- A review of the actions taken, including what was accomplished during the previous year;
- A discussion of any implementation problems;
- The type and degree of public input; and
- Recommendations for new projects, revised action items, or other needed changes, if applicable.

Governing bodies directly affected by recommended changes to the mitigation plan must approve changes before they can be included in the hazard mitigation plan.

The Russell County Emergency Management Agency, or its designee, will update the plan within 4 months of the approval of the first governing body affected by the change. The updated plan will be sent to AEMA for review and comment. After AEMA approval is received, the updated plan will be provided to each jurisdiction, appropriate agencies, and committee members and posted on the Russell County EMA website.

Plan Review Following Disaster

In the event that a disaster impacts the jurisdictions of Russell County, the Russell County EMA and Advisory Committee will meet to review the Hazard Mitigation Plan. First responders, citizens and businesses directly affected by the disaster, regulatory agencies and neighboring jurisdictions will be invited to share their experiences and expertise.

The Advisory Committee will consider the following questions as they conduct a plan review following disaster:

- What have we learned from this disaster?
- Does the risk assessment in the plan remain valid for all jurisdictions?
- Does the mitigation strategy remain valid for all jurisdictions?
- What opportunities are available to enhance recovery and reduce future vulnerability?

The Russell County EMA and Advisory Committee will encourage public attendance and participation during the plan review. Meeting notices will be posted in public buildings, on community calendars, websites and social media.

The plan review will be completed within three months of the disaster event and the Russell County Emergency Management Agency will provide each jurisdiction with a written report detailing the scope of the disaster, lessons learned, opportunities available to enhance recovery and reduce future vulnerabilities, and any recommended changes to the risk assessment and mitigation strategy in the current plan.

Governing bodies directly affected by the recommended changes must approve changes before they can be included in the plan.

The Russell County Emergency Management Agency, or its designee, will update the plan within 4 months of the approval of the first governing body affected by the change.

The updated plan will be sent to AEMA for review and comment. After AEMA approval is received, the updated plan will be provided to each jurisdiction, appropriate agencies, and committee members and posted on the Russell County EMA website.

Five Year Update

Every five years the Russell County Hazard Mitigation Plan will undergo a thorough evaluation involving elected officials from each jurisdiction, city and county administrators, local schools, post secondary education, public safety and emergency service representatives, public works and utility personnel, medical professionals, non profits, corporations, citizens and neighboring communities.

The Russell County EMA, or their designee, will initiate the five year update process at least 15 months prior to the expiration of the current plan to allow sufficient time to complete the update process.

Initial steps will include:

- Attending Council, Town and Commission meetings to inform the jurisdictions of the five year update and formally request their participation in the update process;
- Contacting key personnel to serve on the Stakeholder and Technical Advisory Committee;
- Identifying effective public involvement strategies;
- Scheduling committee and public meetings;

The five year update will include:

- Documentation of the planning process including how the plan was prepared, who was involved and how the public was included in each phase of the update;
- A review of the current hazard mitigation plan and federal regulations;
- A review of existing community plans, studies, zoning ordinances, and development trends;
- Detailed descriptions of all natural hazards that could affect the jurisdictions of Russell County;
- An assessment of the vulnerability of each jurisdiction to each hazard;
- Examination of assets and critical facilities and potential loss in each jurisdiction;
- A natural hazard mitigation strategy with goals, objectives and specific actions that reduce the risk of each hazard;
- A review of each jurisdiction's participation in the National Flood Insurance Program;
- A formal maintenance process to ensure the Lee County Hazard Mitigation Plan remains an active and pertinent document;

The plan update draft must be completed at least 6 months prior to the expiration of the current plan to allow sufficient time for review and comment by AEMA and FEMA, revisions as needed, and formal adoption of the approved plan update by each jurisdiction.

Once the governing bodies of each jurisdiction adopt the updated plan, a copy of the final plan will be placed at key locations in the community and available on the Lee County EMA website.

7.3 Incorporation and Integration of Mitigation Strategies through Existing Programs and Planning Mechanisms

It is important to ensure mitigation planning is incorporated into government operations and planning mechanisms in all jurisdictions of Russell County so that mitigation goals can be achieved and our vulnerability to natural disasters can be reduced.

The jurisdictions of Russell County currently have the following planning documents and/or regulations in place:

- City of Phenix City Strategic Plan
- Phenix City Land Use Plan
- Phenix City Zoning Ordinance
- Russell County Comprehensive Plan
- Russell County Subdivision Regulations
- Russell County EMA EOP

As each jurisdiction's planning tools are updated, amended and revised, the Russell County EMA and Technical Advisory Committee will identify which parts of the Hazard Mitigation Plan Update are most appropriate to be incorporated into each document. Conversely, each jurisdiction will report to the Russell County EMA changes to planning, zoning, ordinances, code enforcement which may require changes to the Russell County Hazard Mitigation Plan on an interim and annual basis.

Strategies being employed through the Russell County Hazard Mitigation Plan to assure incorporation and integration of mitigation goals and actions include:

- Assuring representation from each jurisdiction on the Technical Advisory Committee;
- Requiring each jurisdiction to report changes to planning, zoning, ordinances, code enforcement and/or annexations to EMA as part of the interim update process;
- Reviewing changes to zoning, ordinances, code enforcement, jurisdictional boundaries, as well as new planning initiatives, studies, or economic development impacting mitigation efforts during annual updates;
- Evaluating progress on mitigation efforts during annual updates;
- Providing each jurisdiction with an annual report on mitigation efforts;
- A thorough review of all existing community plans, studies, zoning ordinances, and development trends during the five year update
- EMA representation at public hearings, commission meetings, council meetings, planning meetings and planning task force endeavors.

7.4 Continued Public Participation

The Russell County EMA will invite and encourage public participation during the monitoring, evaluating and updating of the Russell County Hazard Mitigation Plan.

During the interim and annual update process, all meeting notices will be posted in public buildings, on community calendars, websites and social media. Comments received regarding the plan and proposed changes will be included in yearly reports to the governing bodies and approved plan updates.

During the Five Year Update, first steps will include an evaluation of the success of public involvement strategies used previously and research into additional options that have been successfully employed in other regions or states. The goal will be to increase citizen participation in all aspects of the planning process. Strategies will include, but not be limited to, public notice of all meetings, media coverage, use of social media and websites, surveys, open houses and public meetings.

The Russell County Hazard Mitigation Plan, and all interim, yearly, and five year updates will be made available to the public on the Russell County EMA website. Additionally, hard copies of the plan will be placed at each jurisdiction. Notices in the local paper will detail the availability of the plan for local review both online and in each jurisdiction.

Appendix A

Stakeholder and Technical Advisory Committee



Russell County Commission Selects Committee Representative

Russell County Hazard Mitigation Plan Update
Stakeholder and Technical Advisory Committee & Jurisdictional Representatives

Title	First Name	Last Name	Stakeholder or Advisor	Position	Organization/Company
Mr.	William	Alexander	Advisor	Chief Deputy	Russell County Sheriff's Office
Mr.	Omar	Armstrong	Advisor	Engineer	Alabama Department of Transportation
Mr.	Jarrold	Barr	Advisor	Engineer	Alabama Department of Transportation
Mr.	Vance	Beck	Advisor	District Engineer	Alabama Department of Transportation
Mr.	Shawn	Blakeney	Advisor	Engineer	Russell County Engineering
Ms.	Jan	Boswell	Advisor	Planner	Russell County EMA
Ms.	Kathy	Carson	Advisor	Director	Lee County EMA
Mr.	Paul	Chastain	Advisor	Engineer	Phenix City Department of Engineering and Public Works
Mr.	Mark	Clark	Advisor	Director	Russell County Water Authority
Mr.	Roger	Conner	Advisor	Director	Phenix City Utilities
Mr.	Rod	Costello	Advisor	Officer	Phenix City Police Department
Ms.	Vivian	Covington	Stakeholder	Council Member	Town of Hurtsboro*
Mr.	Carl	Currington	Advisor	Director	Russell County Sanitation
Mr.	Arthur	Day	Stakeholder	Council Member	City of Phenix City*
Mr.	John	Dozier	Stakeholder	Manager	Hurtsboro Water Works*
Ms.	Naomi	Elliott	Stakeholder	Revenue Commissioner	Russell County Department of Revenue
Mr.	David	Ellis	Stakeholder	Director	Fort Mitchell Water System*
Mr.	Bob	Franklin	Advisor	Director	Russell County EMA
Mr.	Ted	Gilbert	Advisor	Director	Russell County Extension
Dr.	Mike	Green	Stakeholder	Superintendent	Russell County School District*
Ms.	Gail	Head	Stakeholder	Council Member	City of Phenix City
Ms.	LeAnn	Horne	Stakeholder	County Administrator	Russell County Commission
Chief	Kristin	Kennedy	Stakeholder	Fire Chief	City of Phenix City
Ms.	Cathy	Key	Advisor	Planner	Muscogee
Mr.	Larry	Kite	Advisor	Engineer	Russell County Engineering
Mr.	Riley	Land	Advisor	Planner	Columbus EMA
Mr.	W.C.	Lewis	Advisor	Officer	Phenix City Police Department
Mr.	David	Martin	Advisor	Training Coordinator	Russell County EMA
Ms.	Peggy	Martin	Stakeholder	Chairman	Russell County Commission*

Russell County Hazard Mitigation Plan Update
Stakeholder and Technical Advisory Committee & Jurisdictional Representatives

Mr.	Ray	Martin	Advisor	Engineer	Russell County Highway Department
Mr.	Jack	Miller	Stakeholder	Director	Troy State University
Mr.	Marty	Nelson	Advisor	Director	American Red Cross
Mr.	Ensley	Russell	Advisor	Director	Jack Hughston Memorial Hospital
Ms.	Lisa	Sandt	Advisor	PED Director	Lee-Russell Council of Governments
Ms.	Barbara	Scott	Advisor	PED Specialist	Lee-Russell Council of Governments
Mr.	Darrell	Seldon	Advisor	Transportation Director	Phenix City Schools*
Mr.	Matthew	Sellers	Advisor	Engineer	Phenix City Department of Engineering and Public Works
Ms.	Natalie	Simpson	Advisor	Director	Jack Hughston Memorial Hospital
Chief	Ray	Smith	Stakeholder	Police Chief	Phenix City Police Department
Ms.	Carla	Thomas	Advisor	Assistant	Russell County Commission
Mr.	Jason	Whitten	Advisor	Officer	Phenix City Police Department
Mr.	Steve	Williams	Advisor	Director	Tallapoosa River Electric Cooperative

* Indicates Jurisdiction Representative

2014 RUSSELL COUNTY HAZARD MITIGATION PLAN UPDATE

The Russell County Emergency Management Agency, in collaboration with Lee-Russell Council of Governments, has been awarded a grant to update the existing Russell County Hazard Mitigation Plan.

Mitigation plans identify policies and actions that can be implemented over the long term to reduce risk and loss from hazards such as tornadoes, floods and severe weather events.

Updating the plan will allow all communities in Russell County to remain in compliance with 44 CFR 201.6 and FEMA Local Planning Guidance and Policies. An updated plan is also a requirement to maintain eligibility for future hazard mitigation grant funding to implement the plan's goals and strategies.

Hurtsboro's participation as a Stakeholder was an essential ingredient in the success of previous hazard mitigation planning efforts in Russell County. We will need your participation and expertise again in 2014 to ensure this update properly assesses Hurtsboro's and Russell County's vulnerabilities to natural hazards and contains effective strategies to mitigate the loss of property and life.

What do we need the City of Hurtsboro to do?

1. Select a representative to attend the Russell County Stakeholder and Technical Advisory Committee Meetings. The first meeting will take place from 10:00-12:00 am EST on Thursday, February 6, 2014 in the Commission Chambers of the Russell County Courthouse, which is located at 1000 Broad Street in Phenix City.
2. Review and approve the final draft of the 2014 Russell County Hazard Mitigation Plan Update by Resolution.

Hazard Mitigation Plan Update Contact Information:

Barbara Scott
Lee-Russell Council of Governments
2207 Gateway Drive
Opelika, Alabama 38801
334-749-5264
Barbara.scott@adss.alabama.gov

2014 RUSSELL COUNTY HAZARD MITIGATION PLAN UPDATE

The Russell County Emergency Management Agency, in collaboration with Lee-Russell Council of Governments, has been awarded a grant to update the existing Russell County Hazard Mitigation Plan.

Mitigation plans identify policies and actions that can be implemented over the long term to reduce risk and loss from hazards such as tornadoes, floods and severe weather events.

Updating the plan will allow all communities in Russell County to remain in compliance with 44 CFR 201.6 and FEMA Local Planning Guidance and Policies. An updated plan is also a requirement to maintain eligibility for future hazard mitigation grant funding to implement the plan's goals and strategies.

Phenix City's participation as a Stakeholder was an essential ingredient in the success of previous hazard mitigation planning efforts in Russell County. We will need your participation and expertise again in 2014 to ensure this update properly assesses Phenix City's and Russell County's vulnerabilities to natural hazards and contains effective strategies to mitigate the loss of property and life.

What do we need the City of Phenix City to do?

1. Select a representative from the City Council to attend the Russell County Stakeholder and Technical Advisory Committee Meetings. The first meeting will take place from 10:00-12:00 am EST on Thursday, February 6, 2014 in the Commission Chambers of the Russell County Courthouse, which is located at 1000 Broad Street in Phenix City.
2. Allow representatives from Phenix City Police, Fire, Public Works and Utilities departments to attend Russell County Committee Meetings and/or provide technical expertise in the development of effective mitigation strategies.
3. Review and approve the final draft of the 2014 Russell County Hazard Mitigation Plan Update by Resolution once it is completed.

Hazard Mitigation Plan Update Contact Information:

Barbara Scott
Lee-Russell Council of Governments
2207 Gateway Drive
Opelika, Alabama 38801
334-749-5264
Barbara.scott@adss.alabama.gov

2014 RUSSELL COUNTY HAZARD MITIGATION PLAN UPDATE

In collaboration with The Russell County Emergency Management Agency, Lee-Russell Council of Governments has been awarded a grant to update the existing Russell County Hazard Mitigation Plan.

Mitigation plans identify policies and actions that can be implemented over the long term to reduce risk and loss from hazards such as tornadoes, floods and severe weather events.

Updating the plan will allow all communities in Russell County to remain in compliance with 44 CFR 201.6 and FEMA Local Planning Guidance and Policies. An updated plan is also a requirement to maintain eligibility for future hazard mitigation grant funding to implement the plan's goals and strategies.

The Russell County Commission's participation as a Stakeholder was an essential ingredient in the success of previous hazard mitigation planning efforts in Russell County. We will need your participation and expertise again in 2014 to ensure this update properly assesses Russell County's vulnerabilities to natural hazards and contains effective strategies to mitigate the loss of property and life.

What do we need the Russell County Commission to do?

1. Select a representative from the Russell County Commission to attend the Russell County Stakeholder and Technical Advisory Committee Meetings. The first meeting will take place from 10:00-12:00 am EST on Thursday, February 6, 2014 in the Commission Chambers of the Russell County Courthouse, which is located at 1000 Broad Street in Phenix City.
2. Encourage representatives from the Russell County Sheriff's Office, Engineering, Sanitation, Revenue and other departments to attend Committee Meetings and/or provide technical expertise in the development of effective mitigation strategies.
3. Review and approve the final draft of the 2014 Russell County Hazard Mitigation Plan Update by Resolution once it is completed.

Hazard Mitigation Plan Update Contact Information:

Barbara Scott
Lee-Russell Council of Governments
2207 Gateway Drive
Opelika, Alabama 38801
334-749-5264
Barbara.scott@adss.alabama.gov

Appendix B

Committee Meetings Public Involvement



Russell County Be Ready Day 2014



January 14, 2014

Mr. Vance Beck
Alabama Department of Transportation
56 Silver Run Drive
Seale, AL 36875

Dear Mr. Beck,

In collaboration with the Russell County Emergency Management Agency, Lee-Russell Council of Governments has been awarded a grant to update the existing Russell County Hazard Mitigation Plan. Mitigation plans identify policies and actions that can be implemented over the long term to reduce risk and loss from hazards such as tornadoes, floods and severe weather events. Updating the plan will allow all communities in Russell County to remain in compliance with 44 CFR 201.6 and FEMA Local Planning Guidance and Policies. An updated plan is also a requirement to maintain eligibility for future hazard mitigation grant funding to implement the plan's goals and strategies.

Your participation as a Stakeholder and/or member of the Technical Advisory Committee was an essential ingredient in the success of previous hazard mitigation planning efforts in Russell County. We will need your expertise again in 2014 to ensure this update properly assesses Russell County's vulnerabilities to natural hazards and contains effective strategies to mitigate loss of property and life.

The first meeting of Russell County Stakeholders and Technical Advisors will take place from 10:00-12:00 am EST on Thursday, February 6, 2014 in the Commission Chambers of the Russell County Courthouse, which is located at 1000 Broad Street in Phenix City.

Please contact Lee-Russell Council of Governments via phone (334-749-5264; ext. 237) or e-mail (Barbara.scott@adss.alabama.gov) by February 3, 2014 to RSVP your attendance. If you cannot attend this meeting, we ask that you send a representative in your place.

Sincerely,

Barbara Scott

**2014 RUSSELL COUNTY HAZARD MITIGATION PLAN UPDATE
STAKEHOLDER AND TECHNICAL ADVISORY COMMITTEE MEETING
FEBRUARY 6, 2014**

AGENDA

Welcome and Introductions

Brief Overview of Disaster Mitigation Act

Roles of Stakeholders and Technical Advisors

2014 Update Timeline

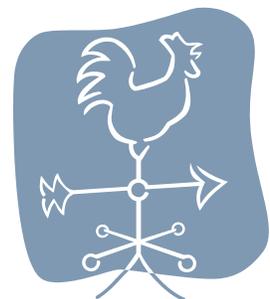
Benefits of Hazard Mitigation Planning

Review of Existing Mission Statement

Hazard Identification & Risk Assessment

In Kind Cost Worksheets

Next Meeting April 10 or April 17, 2014



2013 RUSSELL COUNTY HAZARD MITIGATION PLAN UPDATE
 2/6/14 STAKEHOLDERS AND TECHNICAL ADVISORS MEETING
 SIGN IN SHEET

Name	Organization	Signature	E-mail
ALEXANDER, WILLIAM BARR, JAMES	Russell County Sherriff's Office		JBARR@RCISO.ORG
ANDERSON, KIM	Alexander's Industrial Service		
BECK, VANCE	Alabama Department of Transportation	In place of Vance Beck Michael Barton	beckv@dot.state.al.us
BONNER, JIM	Alabama Power Company		
BOSWELL, JAN	Russell County EMA		boswell@rcema.us
CARSON, KATHY	Lee County EMA	Kathy Carson	kcarson@leecoema.com
CHASTAIN, PAUL	Phenix City Engineering		bchastain@phenixcityal.us
CLARK, MARK	Russell County Water Authority		mclark@rcwra.com
CONNER, ROGER	Phenix City Utilities		RCONNER@phenixcityal.us

2013 RUSSELL COUNTY HAZARD MITIGATION PLAN UPDATE
 2/6/14 STAKEHOLDERS AND TECHNICAL ADVISORS MEETING

SIGN IN SHEET

Name	Organization	Signature	E-mail
COVINGTON, VIVIAN	Town of Hurtsboro	<i>Vivian Covington</i>	<i>holtcovington@gmail.com</i>
DAY, ARTHUR	City of Phenix City	<i>Arthur Day</i>	<i>ALDAY1945@aol.com</i>
ELLIS, DAVID	Fort Mitchell Water System	<i>D. Ellis</i>	<i>DAVID.ELLIS.FMWS@MOL.COM</i> <i>DAVID.ELLIS@MOL.COM</i>
FRANKLIN, BOB ✓	Russell County EMA		
HEAD, GAIL	City of Phenix City	<i>Gail A. Head</i>	<i>nanagail15@att.net</i>
HORNE, LEANN	Russell County Commission	<i>Carla Thomas</i>	<i>lhorne@rec-al.org</i>
HUTCHINSON, CHIEF	Phenix City Fire and Rescue		
KEE, CATHY	Muscogee County EMA	<i>Cathy Kee</i>	<i>ckee@columbusga.org</i>
KITE, LARRY	Russell County Engineering		

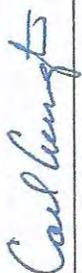
2013 RUSSELL COUNTY HAZARD MITIGATION PLAN UPDATE
 2/6/14 STAKEHOLDERS AND TECHNICAL ADVISORS MEETING

SIGN IN SHEET

Name	Organization	Signature	E-mail
LAND, RILEY ✓	Muscogee County EMA		
MILLER, JACK	Troy State University	Jack Miller	JMiller@trystate.edu
NELSON, MARTY ✓	American Red Cross	Marty Nelson	Marty Nelson marty.nelson@redcross.org
RUSSELL, ENSLEY	Jack Hughston Memorial Hospital	Ensley Russell	erussell@jhmhospital.com
SANDT, LISA	Lee-Russell Council of Governments	Lisa Sandt	
SCOTT, BARBARA ✓	Lee-Russell Council of Governments	Barbara Scott	
SELDEN, DARRELL	Russell County Schools Phenix City Schools	Darrell Selden	dselden@pcpsde.net
SELLERS, MATTHEW	Phenix City Engineering	Matthew Sellers	msellers@phenixcityal.us
SIMPSON, NATALIE	Jack Hughston Memorial Hospital	Natalie Simpson	NSimpson@JHMHosp.al.com

2013 RUSSELL COUNTY HAZARD MITIGATION PLAN UPDATE
 2/6/14 STAKEHOLDERS AND TECHNICAL ADVISORS MEETING

SIGN IN SHEET

Name (Please Print Clearly)	Organization	Signature	E-mail
SMITH, RAY	Phenix City Police Department		rsmith@phenixcityga.us
WILLIAMS, STEVE	Tallapoosa River Electric Cooperative		SWilliams@TREE.COOP
NAOMI ELLIOTT	Russell Co Revenue Commissioner		Naomi@CTVEA.NET
CARL CURRINGTON	Russell Sanitation		CuringtonLC@ASTMAIL.COM
DAVID MARTEN	RUSSELL COUNTY EMA		DMARTEN@RCEMA.US
RUEY LAND	COUMBUS EMERGENCY MGT.		RUAN@COLUMBUSCA.ORG
TED GILBERT	RUSSELL COUNTY EXTENSION OFFICE		gilbet@aces.edu
Peggy Martin	Russell City Commission - Chair		peggy@russellcityga.us
Shawn Blakeney	Russell County Highway Dept		sblakeney@rchd.us

**RUSSELL COUNTY HAZARD MITIGATION PLAN UPDATE
STAKEHOLDER AND TECHNICAL ADVISORY COMMITTEE MEETING
APRIL 17, 2014**

AGENDA

Welcome and Introductions

In Kind Cost Worksheets

Recap of February 6, 2014 Meeting

Goal Review

Objectives and Mitigation Actions

Mitigation Plan Maintenance

Next Steps

2014 RUSSELL COUNTY HAZARD MITIGATION PLAN UPDATE
 4/17/14 STAKEHOLDERS AND TECHNICAL ADVISORS MEETING
 SIGN IN SHEET

Name	Organization	E-mail
Kathy Carson	Lee Co. EMA	KCARSON@leeema.com
Gail M. Zead	Phenix City Gov.	nanogail15@att.net
Naomi Elliott	Russell Co Rev Coman	naomia@TVEA.NET
Omar Armstrong	ALDOT	armstrngo@dot.state.al.us
Marty	ARC	Marty.nelson@reecross.org
Cathy Ree	Cols EMA	ckee@columbusga.org
Ruey Land	Columbus EMA	RLAND@COLUMBUSGA.ORG
Ray Martin	Highway Dept.	rmartin@rchd.us
Ted Gilbert	ACES	gilbetb@aces.edu

2014 RUSSELL COUNTY HAZARD MITIGATION PLAN UPDATE
 4/17/14 STAKEHOLDERS AND TECHNICAL ADVISORS MEETING
 SIGN IN SHEET

Name	Organization	E-mail
Kristina Kennedy	Phoenix City Fire Rescue	kkennedy@phoenixcitya1.us
PAUL CHARSTAIN	PHOENIX CITY ENGINEERING	bcharstain@phoenixcitya1.us
Matt Sellers	Phoenix City Eng.	msellers@phoenixcitya1.us
Mark Clark	Russell Co. Water Authority	mclark@rcwsa.com
David Ellis	Fr Mitchell Water	
Jan Kemp	RCEMA	boswell@rcema.us
Jason Whitten	PCPD	jwhitten@phoenixcitya1.us
WC Lewis	PCPD	wlewis@phoenixcitya1.us
DAVID MARTIN	RUSSELL CO EMA	dmartin@RCEMA.us

2014 RUSSELL COUNTY HAZARD MITIGATION PLAN UPDATE
 4/17/14 STAKEHOLDERS AND TECHNICAL ADVISORS MEETING
 SIGN IN SHEET

Name	Organization	E-mail
Darrell Selden	Phenix City Schools	dselden@pcbe.net
Delann Houser	RCC	Lthorne@rec-hi.org
Stew Woods	T.R.E.C	SWilliams@TREC.COOP
Walter	RCC	Peggy.Mertens07@he1sonh.net
Choc Savelle	LRCOG	
Kathy Carson	LCFMA	
Rod Costello	RCSO	rcostello@rcso.org
Barbara Scott	LRCOG	

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- [Transportation](#)
- [Lee-Russell Aging Foundation](#)
- [Regional Profile](#)
- [Member Governments](#)
- [News](#)
- [RFP / Bid Requests](#)
- [Job Opportunities](#)
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Welcome to the Lee-Russell Council of Governments website.

Lee-Russell Council of Governments is a regional planning and development organization that serves member governments by managing programs, promoting collaborative efforts, and serving as a clearinghouse for federal, state, and local funds.

Executive Director: Suzanne G. Burnette

Established: 1967
Area: 1,262.9 sq. mi.
Population: 193,194

LRCOG Board Chairman
Mayor Bill Ham
City of Auburn, Alabama

Lee-Russell Aging Foundation 9th Annual Unforgettable Footsteps Mardi Gras Run/Walk

The Lee-Russell Aging Foundation is sponsoring the 9th Annual Unforgettable Footsteps Mardi Gras Walk/Run to raise funds to provide quality services to elderly citizens in Lee and Russell Counties. This will be held January 25, 2014 at Opelika Municipal Park. Please click the button below for more information and to register for this event.

[Register Now!](#)

by [ACTIVE Network](#)
For [more news & upcoming events](#)

[Opelika, AL](#)

Get the 10 day forecast

47°F

Cloudy

[Severe Weather](#)

[Garden Calendar](#)

[For Your Lawn](#)

[For Your Garden](#)

Feels Like: 47°F

Humidity: 92%

Wind: calm

Enter city/zip



[Project of the Week](#)

Thu - Feb 06	10:00 AM - 12:00 PM
2014 Russell County Hazard Mitigation Plan Update Meeting 2014 Russell County Hazard Mitigation Plan Update Stakeholders and Technical Advisor's Meeting Thursday, February 6, 2014 10:00 am -12:00 noon, EST Russell County Commission Chambers 1000 Broad Street Phenix City, AL For More Information: Barbara.scott@adss.alabama.gov or 334-749-5264	
Mon - Feb 17	Office Closed President's Day OFFICE CLOSED

[visit our calendar for a full listing](#)

Lee-Russell Council of Governments
2207 Gateway Drive Opelika, AL 36801-6834
Phone: (334) 749-5264 Fax: (334) 749-6582
1-800-243-5463 (1-800-AGELINE)



RUSSELL COUNTY, AL

OFFICE OF HOMELAND SECURITY AND EMERGENCY MANAGEMENT

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Like us



Robert "Bob" Franklin
Director

Jan Boswell-Kemp
Planner

David Martin
Training Coordinator/ IT
Specialist

Terry Spencer
Logistics

Scheduled Training

Welcome to the Russell County, Alabama, Emergency Management Agency (RCEMA) website! We are proud to serve the citizens of Phenix City, Hurtsboro and rural Russell County.

The Russell County EMA maintains a comprehensive program of disaster management that encompasses an 'all hazard' approach.

Upcoming Events and Training

Storm Spotter Class

Class has been rescheduled due to winter weather that will be affecting our area

February 4, 2014

2:30pm to 4:30pm or 6:00pm to 8:00pm EST

To sign up, please call 334-291-5079 ext.2 or email dmartin@rcema.us

2014 Russell County Hazard Mitigation Plan Update Stakeholders and Technical Advisor's Meeting Thursday, February 6, 2014

10:00-12:00 am EST

Russell County Commission Chambers

1000 Broad Street

Phenix City, AL

For More Information: Barbara.scott@adss.alabama.gov

or 334-749-5264, ext. 237

Community Emergency Response Team Training

CERT Training has been rescheduled for the following dates.

Tuesday, May 6, 2014 6pm-10pm

Tuesday, May 13, 2014 6pm-10pm

Tuesday, May 20, 2014 6pm-10pm

Tuesday, May 27, 2014 6pm-10pm

AccuWeather.com®

Phenix City, AL

[Hourly info](#) | [15 Days](#)



Rain
48°F

RealFeel®: 54°F
Winds: Calm



Tod 58°/28°
Mostly cloudy.



Tom 36°/24°
Cold with



Wed 37°/12°
Clear and frigid



Thu 39°/19°
Clear and very



Weather Forecast | Weather Maps

Incumbents are shoo-ins to win

Usually gubernatorial years are marquee political events in Alabama politics. However, this year is shaping up as a mundane affair. Not only is Gov. Dr. Robert Bentley headed for a cakewalk coronation, so are all the other four incumbent constitutional officeholders.



Steve Flowers

Lt. Gov. Kay Ivey, Attorney General Luther Strange, Agriculture Commissioner John McMillan and State Treasurer Young Boozer, all appear to have smooth sailing in their reelection bids.

It appears that the best statewide race will be for the low-profile office of Secretary of State. When I was growing up it was a post held by women. Two legendary female politicians, Agnes Baggett and Mabel Amos, would serve two perfunctory four-year terms in the Secretary of State office, and then they would swap. Ms. Amos would be treasurer for eight years and then move to Secretary of State. Ms. Baggett would move next door to the treasurer's office. They were political fixtures on Goat Hill for years.

Our Opinion

Be prepared for the next big one

Atlanta learned its lesson. The first winter storm of 2014 caught the city off-guard. Call it the training session. But this week, the city was ready for Winter Storm Pax.

That's how it needs to be: in Russell County too - before bad weather happens. And not just for county officials - for citizens, too.

That's why it's great news that the county is updating its Hazard Mitigation Plan. The plan is a set of policies and procedures to protect lives and property in dangerous weather events like the second winter storm that breezed through the South this week. Everyone needs to be part of the discussion. As a citizen, do your part and attend a public meeting on the plan in May. In the meantime, stay informed via the Lee-Russell Council of Governments' (LRCOG) Web site at www.lrcog.com. Or call the lead person on the project, Barbara Scott, of the LRCOG, at 334-749-5264.

Meanwhile, know that next week, Feb. 16-21, is Alabama Severe Weather Week. Brush up on what you need to do to be prepared in bad weather.

And, be aware that from 12:01 a.m. CT on Feb. 21-midnight CT on Feb. 23, the state is again giving a state sales tax break when you buy items like flashlights, batteries, NOAA weather radios, tarps, etc., that are considered severe weather preparedness items. See the eligible items list at: <http://revenue.alabama.gov/salestax/WPHolidayQuickRefSheet14.pdf>. Or call the Alabama Department of Revenue between 8 a.m.-5 p.m. CT Monday through Friday at (334) 242-1490 or (866) 576-6531.

Russell County voted to participate, so you'll also get a break on county sales taxes on those items if you buy them here.

It's everyone's job to be prepared before bad weather happens. Just because you may not have experienced a power outage or had damage to your home doesn't mean it won't ever happen during one of our area's frequent storms. Remember: according to the National Climatic Data Center, Russell County has seen nine tornadoes, 49 severe thunderstorms, four hurricanes and two winter storm events from January 1996 to October 2013. Combined, these events caused \$3.3 million dollars in property damage. Are you ready for the next big one? Don't forget last March's hailstorm that caused roof and vehicle damage throughout Phenix City, Ladonia, Smiths Station, Bearegard and surrounding areas. Or how two or three years ago we had a tornado one night and the next day we had a snow storm - which also happened in March.

Buy the supplies you need now and prepare your family's safety plan now. Don't be caught unaware.

For more on preparing, check out the Russell County EMA Web site, <http://www.russellcoema.com/>, call the office at (334) 291-5079 or find their Facebook page online.

Winter is still here, we're still having a lot of rain and tornado season is coming up. Are you ready?

Blenda Copeland
Staff Writer

Cupid's day escaped me

As I was pondering what to write about this week, I realized that Valentine's Day was only a few days away and wondered how could have been oblivious to the fact that Cupid was so near. I remember the excitement I used to feel in elementary school while covering a shoe-box with colorful crepe paper in hopes of receiving a million die-cut Valentine cards at school.



Marian Carcaci

In high school, I read Hawthorne. Being smitten with him and the other Concord writers, I convinced my parents to take me to Massachusetts on vacation that year instead of to Panama City, Fla., or Cherokee, N.C., the "normal" family vacation spots for that time period. It was at the Old Manse in Concord that I learned that Hawthorne and his wife Sophia used her

diamond to atch...

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[Welcome to the Lee-Russell Council of Governments](#)



**2014 Hazard Mitigation Plan Updates
in Lee and Russell County**

The local mitigation plan is the representation of the jurisdiction's commitment to reduce risks from natural hazards, serving as a guide for decision makers as they commit resources to reducing the effects of natural hazards.

Upcoming Meetings/Russell County

Stakeholder and Technical Advisor Meeting
Thursday, April 17, 2014
10:00 am -12:00 pm EST
Russell County Courthouse; Commission Chambers
1000 Broad Street
Phenix City, AL

To See a Slide Show on Natural Hazards in Russell County please click [HERE](#).

To rate Russell County's vulnerability to Natural Hazards yourself, use the documents below:

[Hazard Risk Rating Key](#)

[Hazard Risk Rating Sheet](#)

Upcoming Meetings/ Lee County

Stakeholder and Technical Advisor Meeting
Wednesday, April 23, 2014
10:00 am -12:00 pm CST
Location TBD

To See a Slide Show on Hazards in Lee County [click here](#).

To rate Lee County's vulnerability to Natural Hazards yourself, use the documents below:

[Lee County Hazard Risk Rating Key](#)

[Lee County Hazard Risk Rating Sheet](#)

Please send your vulnerability ratings to Barbara.scott@adss.alabama.gov by April 4, 2014.

For more information, please contact Barbara Scott at 334-749-5264 ext. 237 or at barbara.scott@adss.alabama.gov

The 2010 Census Population Data is now available for Lee and Russell Counties. Please click the links below for more information.

- [Lee County 2010 Census Population Map](#)
- [Russell County 2010 Census Population Map](#)
- [2010 Census Lee County Population and Housing Data](#)
- [2010 Census Russell County Population and Housing Data](#)

The Draft 2009 Comprehensive Economic Development Strategy for Lee & Russell Counties is now available [2009 Draft CEDS](#) For more information or to make comments please contact [Barbara Scott](#) or call 334.749.5264 ext.237

Opelika, AL

[Get the 10 day forecast](#)



77°F

Sunny

[Garden Calendar](#)

RUSSELL COUNTY BE READY DAY

2 0 1 4



WHAT IF A **DISASTER**
HITS RIGHT **NOW**

.... EMERGENCY PREPAREDNESS AWARENESS

It's time for everyone to review their personal and family preparedness, and Russell County Office of Homeland Security and Emergency Management is Hosting a fair to help.

May 17, 2014

10am to 3pm

**Join us at Piggly Wiggly Parking Lot
on 280 Bypass**

Please come see displays, take home free information, and examine preparedness products. Learn more about how to improve your family and community's ability to make it through a disaster.

.... EVERYONE WELCOME TO ATTEND

FREE

Preparedness information, drawings for prizes, food, family fun, equipment demonstrations, supplies and tools.

Sponsored by
Russell County Office of Homeland Security and Emergency Management
POC: Bob Franklin • bfranklin@rcema.us • 334-291-5079

Legislature holds the course

The 2014 Regular Legislative Session, which ended last month, was the last of the quadrennium. It ended on the same note it began on four years ago. This group of super majority Republican legislators has placed an indelible conservative stamp on Alabama state government.

There has been no benchmark right wing social issue that has failed to be addressed. They began in the first year with what they proclaimed was the most pervasive anti illegal immigrant legislation in the country. It was quickly cast aside in a cursory federal court opinion as unconstitutional.

Then came a far-reaching pro gun bill that was designed for the 1890's Wild West. This year they passed an anti abortion bill, which the sponsors as well as any sixth grade civics student, should know is unconstitutional. It is not even close to being in line with Roe v. Wade.

These theatrical panderings play well to Alabama's conserva-



Steve Flowers

OPINION

Editorial

Speak up on May 17

What we have to be thankful about April 29's EF-3 tornado that hit Lee and Russell counties is that there were no reported fatalities. An EF-3 tornado registers wind speeds between 136 to 165 mph and is considered a "strong" tornado. The winds in Lee County hit around 140 mph at one point. Thirteen received minor injuries in Lee County, an infant was hurt in Russell County and several in Russell County were rescued from being trapped by debris.

How many have shared the stories of how we would have "slept through the storm" if the weather sirens, emergency alert cell phone texts and even home alarm alerts had not woken us up so we could take immediate cover?

These are the kinds of advance notices that are possible because of good planning, monitoring and response procedures.

The most deadly tornadoes occur overnight, and usually, that's when Alabama gets slammed. It's crucial that we maintain our readiness at all times when severe weather strikes.

April 29 is a reminder we must not become complacent about being prepared.

What else does our county need to keep

citizens safe during hazardous weather?

Voice your opinion May 17 at Russell County's *Be Ready* Day. It's a free community event focused on raising community awareness about severe weather preparation.

During the gathering, Lee-Russell Council of Governments will help the county survey residents. Your input is vital in updating the county's hazardous mitigation plan. That's a fancy title that means the county's official plans and procedures on how to respond in dangerous weather events like the April 29 tornado.

Don't put all the responsibility for sharing ideas on the shoulders of the first responders and other emergency personnel who will be the ones risking their lives to save others during the next storm. Do your part! Share your thoughts!

Be Ready Day will be held from 10 a.m.-3 p.m. ET May 17 at the Piggly Wiggly parking lot on the U.S. 280 Bypass. It's a free, community event. There will be lots of information about how to prepare for severe weather, as well as prize drawings, equipment demonstrations and more. Be there. Be ready.

Blenda Copeland, Staff Writer

To tango or not to tango

Last night was the first night since Christmas that I have gone to sleep without a stack of compositions to grade and a deadline pressing. Maybe that is why my mind ran free and I dreamed I was dancing the tango in a Star-buck's.



Marian Carcache

Once upon a time a long time ago, I took a tango lesson - one lesson.

When I arrived at the designated classroom, I learned that I was not wearing the proper shoes, but another student offered to lend me her extra pair. Our feet were not the same size but, being new to the class, I thanked her and put on the too-big strappy heels -- and the fiasco began.

The teacher, whose name was Omar, had homes in both Auburn and Argentina and lived between the two cities. Whenever he was in

Your Letters

Is there hope for our democracy?

Appendix C

Critical Facilities



Hurtsboro City Hall

CRITICAL FACILITIES LIST - RUSSELL COUNTY NATURAL HAZARDS MITIGATION PLAN

Type of Asset	Name	GPS
Essential/Medical	Stadium Healthcare	32 29.786 85 01.153
Essential/Medical	Phenix Regional Medical Park	
Essential/Medical	John Hughston Medical Center	32 29.944 85 02.771
Essential/Medical	Care Ambulance Service Sta 1	32 27.638 85 00.250
Essential/Medical	Care Ambulance Service Sta 2	32 16.926 85 10.065
Essential/Medical	East Alabama Mental Health Treatment & Intake Facility	
Essential/Medical/Morgue	Russell County Coroner's Office & Morgue	32 26.338 85 01.205
Essential/Medical/Governmental	Russell County Health Department	32 28.457 85 01.108
Essential/Emergency Agency	Russell County Red Cross	
Essential/Law Enforcement	Russell County Sheriff's Department	32 26.446' 85 01.201
Essential/Law Enforcement/Detention	Russell County Sheriff's Department (Jail & Detention Facility)	32 26.446' 85 01.201
Essential/Law Enforcement	Russell County Dispatch Center	32 26.446' 85 01.201
Essential/Law Enforcement	Phenix City Police Department	32 28.082' 85 00.055
Essential/Law Enforcement	Phenix City Dispatch Center	32 28.082' 85 00.055
Essential/Fire	Phenix City Fire Station #1	32 28.477 85 01.191
Essential/Fire	Phenix City Fire Station #3	32 26.206 85 00.742
Essential/Fire	Phenix City Fire Station #4	32 30.012
Essential/Fire	Forestry Office (Seale)	
Essential/Fire	Cottonton VFD 1	32 10.864 85 02.721
Essential/Fire	Cottonton VFD 2	32 07.564 85 04.371
Essential/Fire	Crawford VFD (2 Locations)	32 27.351 85 11.208
Essential/Fire	Dixie VFD	32 26.793 85 16.779
Essential/Fire	Ft. Mitchell VFD 1	32 18.190 85 00.591
Essential/Fire	Ft. Mitchell VFD 2	32 16.133 85 58.378
Essential/Fire	Hachechubbee VFD 1	32 16.239 85 16.538
Essential/Fire	Hachechubbee VFD 2	32 11.632 85 8.206
Essential/Fire	Hurtsboro VFD	32 14.516 85.24.964
Essential/Fire	Ladonia VFD	32 28.139 85 4.971
Essential/Fire	Mount Olive VFD	32 22.963 85 02.151
Essential/Fire	Pittsview VFD	32 11.321 85 09.814
Essential/Fire	Seale VFD 1	32 17.972 85 10.324
Essential/Fire	Seale VFD 2	32 18.887 85 06.484
Essential/Fire	Seale VFD 3	32 20.178 85 12.586
Essential/Fire	Uchee VFD 1	32 23.066 85 07.048
Essential/Fire	Uchee VFD 2	32 26.153 85 08.903
Essential/Emer. Operation Centers	Russell County Emergency Management Agency	32 26.338 85 01.205
Essential/Governmental	Russell County Judicial Center	32 28.342 85 00.109
Essential/Governmental	Russell County Courthouse	32.464084 -85.000469
Essential/Governmental	Phenix City Public Safety Buildings	32 28.082 85 00.055
Essential/Governmental	Phenix City, City Hall	32 28.082 85 00.055

CRITICAL FACILITIES LIST - RUSSELL COUNTY NATURAL HAZARDS MITIGATION PLAN

Type of Asset	Name	GPS
Essential/Governmental	Hurtsboro Town Hall	32 14.407 85 243.862
Essential/Evacuation	Central High School	32 29.121 85 02.432
Essential/Evacuation	JET Center - Hurtsboro	32.14.386 85 24.887
Essential/Evacuation	South Girard	32 26.199 85 00.108
Essential/Evacuation	Roy Martin Center	32 30.008 85 00.632
Essential/Evacuation	Spencer Recreation Center	
Essential/Evacuation	Central Activities Center	32 28.408 85 00.901
Essential/Evacuation/Education	Russell County High School - Seale	32 20.044 85 09.066
Essential/Evacuation	Hurtsboro United Methodist Church	
Essential/Evacuation	First Baptist Church - Phenix City	
Essential/Evacuation	Blessed Trinity Retreat - Holy Trinity	
Essential/Evacuation	Woodmen of the World Lodge #338 - Phenix City	
Essential/Evacuation	Fort Jabe Brassell - National Guard Armory - Phenix City	
Essential/Evacuation	Old Russell County Courthouse - Seale	32 17.893 85 10.055
Essential/Education	Hurtsboro Headstart Facility	
Essential/Education	Ridgecrest Elementary	32 25.992 85 01.250
Essential/Education	Meadowlane Elementary	32 26.499 85 00.071
Essential/Education	Westview Elementary	32 28.000 85 01.404
Essential/Education	Lakewood Elementary	
Essential/Education	Sherwood Elementary	32 29.574 85 00.217
Essential/Education	St. Patrick's School	32 29.898 85 01.983
Essential/Education	Glenwood School	32 32.242 85 02.959
Essential/Education	Phenix City Intermediate	32 29.037 85 01.552
Essential/Education	Phenix City Elementary	32 28.935 85 01.497
Essential/Education	Phenix City Success Academy	32 28.620 85 00.957
Essential/Education	Troy State University	32 25.383 85 01.815
Essential/Education	Chatachoochee Valley Community College	32 25.416 85 01.815
Essential/Education	Mother Mary Mission	32 17.155 85 00.381
Essential/Education	Phenix Christian School	
Essential/Education	Oliver Elementary - Seale	32 16.926 85 10.065
Essential/Education	Dixie Elementary - Dixie	32 26.774 85 15.449
Essential/Education	Ladonia Elementary - Ladonia	32 28.102 85 5.053
Essential/Education	Mt. Olive Elementary - Ft. Mitchell	32 21.560 85 01.907
Essential/Education	Instructional Materials Center - Seale	
Essential/Education	Russell Elementary School	32 14.309 85 25.281
Essential/Education	Russell County Middle School - Seale	32 19.873 85 09.315
Essential/Education	Seale Campus Buildings	32 28.376 85 00.009
Transportation/Airways	N/A	
Transportation/Bridges	13th Street Bridge	
Transportation/Bridges	14th Street Bridge	

CRITICAL FACILITIES LIST - RUSSELL COUNTY NATURAL HAZARDS MITIGATION PLAN

Type of Asset	Name	GPS
Transportation/Bridges	Dillingham Bridge	
Transportation/Bridges	Ogletree Bridge	
Transportation/Bridges	Highway 80 (North Bypass) Bridge	
Transportation/Highways	Highway 80 East & West	
Transportation/Highways	Highway 431 North & South	
Transportation/Highways	Highway 280 East & West	
Transportation/Highways	Broad Street	
Transportation/Highways	Summerville Road	
Transportation/Highways	Seale Road	
Transportation/Highways	Highway 26 (Hurtsboro)	
Transportation/Highways	Highway 51 (Hurtsboro)	
Transportation/Highways/Extensions	5th Avenue Extension	
Transportation/Railways	Norfolk Southern Railway	
Transportation/Waterway	Chattahoochee River	
Transportation/Motor Freight and Air Carriers	FEDEX Freight	
Transportation/Motor Freight and Air Carriers	Southeastern Freightliners	
Transportation/Motor Freight and Air Carriers	Brown Trucking	
Transportation/Motor Freight and Air Carriers	ASIA Motor Freight	
Transportation/Motor Freight and Air Carriers	Conway Southern Express	
Transportation/Motor Freight and Air Carriers	Overnite Transportation	
Transportation/Motor Freight and Air Carriers	AAA Cooper Transportation	
Transportation/Motor Freight and Air Carriers	Yellow Freight Transportation	
Infrastructure/Communications	Phenix Cable Facilities	
Infrastructure/Communications	Bellsouth Phone	
Infrastructure/Communications	Verizon Cellular	
Infrastructure/Communications	Southern Link	
Infrastructure/Communications	Nextel	
Infrastructure Systems/Electricity	Alabama Power	
Infrastructure Systems/Electricity	Tallapoosa River Electric Cooperative	
Infrastructure Systems/Electricity/Dams	Oliver Dam (Located in Columbus, GA)	
Infrastructure Systems/Public Works	Phenix City Water Treatment Plant	32 29.584 85 00.584
Infrastructure Systems/Public Works	Phenix City Waste Water Treatment Plant	32 29.966 84 58.274
Infrastructure Systems/Public Works	Ft. Mitchell Water System	32 18.724 85 00.752
Infrastructure Systems/Public Works	Hurtsboro Water Works	
Infrastructure Systems/Public Works	Russell County Water Authority	32 24.867 85 05.560
Infrastructure Systems/Utility	Alagasco (Energen or Alabama Gas)	
Infrastructure Systems/Utility	Sungas Co.	
Infrastructure Systems/Utility	Green Propane	
Infrastructure Systems/Utility	Southeast Alabama Gas	
Infrastructure Systems/Utility/Pipeline	Southern Natural Gas Pipeline	

CRITICAL FACILITIES LIST - RUSSELL COUNTY NATURAL HAZARDS MITIGATION PLAN

Type of Asset	Name	GPS
Communication Tower Coordinates	Bailey Hill Communication Tower	32 27.715 85 02.300
	North Fire Communication Tower	32 26.238 85 03.771
	West Fire Communication Tower	32 19.022 85 10.196
	South Fire Communication Tower	
Water Tank Coordinates	Russell County Water Tanks	32 26.238 85 03.771
		32 27.880 85 13.869
		32 19.799 85 24.532
		32 21.130 85 18.106
		32 19.817 85 09.852
		32 19.852 85 09.797
		32 08.082 85 09.814
	Phenix City Water Tanks	32 26.059 85 02.810
		32 26.990 85 00.702
		32 27.715 85 02.300
		32 32.157 84 02.890

Appendix D

Mitigation Project Listings



Jenkins Road Outdoor Warning Siren

RUSSELL COUNTY MITIGATION PROJECT LISTINGS - APPENDIX D

Outdoor Warning Siren Locations		
	Location	Complete
1	808 8th St. Phenix City	X
2	25th Ave @ 10th Street	X
3	Dobbs Drive near Auburn Road	X
4	Meadowwood Drive @ Hwy 80 Phenix City	X
5	Joyce Drive @ Stephens Loop	X
6	Hwy 80 @ Jowers Road	X
7	Boswell Road @ Camp Parkman	X
8	Owens Road @ Ft. Mitchell Fire Station 2	X
9	Hwy 165 @ Co Road 43	X
10	Prudence Road @ Hatchechubbee VFD Station 2	X
11	Wiggins Lane @ Will Avenue	X
12	Clark Road @ Fuqua Drive	X
13	Old Seale Courthouse	X
14	Tarver Road @ Avalon Drive	X
15	Hwy 165 @ Holy Trinity	X
16	Hwy 169 @ County Road 22	X
17	Flournoy Road @ Hwy 80	X
18	Sweetwater Branch Road @ Oak Street	X
19	Old Ware Rd @ Freeman Road	X
20	Sandfort Road @ Dawson Rd	X
21	Hwy 169 @ Padgette's Road	X
22	Sandfort Rd @ Clark Road	X
23	Huguley Road @ S. Herring Road	X
24	Hwy 80 West near Jenkins Road	X
25	Old Seale Hwy @ Rosemont Circle	X
26	Co Road 22 @ Hiram Road	X
27	Co Road 22 @ Hitchitie Road	X
28	Whitetail Road near Doe Drive	X
29	Hwy 165 - Senior Center	X
30	Kitetown Road @ Blueberry Road	X
31	Blackbottom Road	
32	County Road 39 @ County Road 18	X
33	McKenzie Road	
34	Hwy 26 @ Colbert Road	X
35	Shady Grove Rd @ Camelia Road	X
36	Wendee Road @ Friendship	
37	Bluff Creek State Park	
38	Hwy 165 @ County Road 4	X
39	Briar Creek Park	
40	Leroy Road and Lindsey Road	X
41	Rutherford Road @ Mandy Road	X
42	County Road 24 @ Harvest Road	X
43	Summerville Road @ Thomas Road	X
44	Upshaw Flats Road @ Grant Circle	X
45	Hwy 431 South @ Villula Road	X
46	Highway 165 & Owens Road	X
47	Pitts Road & South Herring Road	X
Other sites to be added at Russell County EMA or Jurisdiction discretion.		

Individual Safe Room Sites In Russell County – 22 Completed 8 Homeowners on Waiting List			
1	Russell County EMA 311 Prentiss Dr. Phenix City, AL 36869	12	30 Bradley Road Fort Mitchell, AL 36856
2	4023 28th Ave Phenix City, AL 36867	13	12 Mott Road Rd. Seale, AL 36875
3	Overlook Dr. Phenix City, AL 36868	14	2301 Dobbs Drive Phenix City, AL 36870
4	3895 Sandfort Rd. Phenix City, AL 31908	15	49 Lamb Road Phenix City, AL 36867
5	4 Duke Drive Fort Mitchell, AL 36856	16	4 McCoy Road Opelika, AL 36875
6	#8 Flynn Dr. Phenix City, AL 36869	17	502 Idle Hour Drive Phenix City, AL 36869
7	Martin Dr. Phenix City, AL 36869	18	68 Barefoot Drive Phenix City, AL 36869
8	121 Kitetown Road Seale, AL 36875	19	10 Schoolhouse Road Pittsview, AL 36871
9	5131 Sandfort Rd. Seale, AL 36875	20	15 Lakeridge Court Seale, AL 36875
10	8 Duke Drive Fort Mitchell, AL 36856	21	9 Glennhaven Road Phenix City, AL 36869
11	312 Boswell Rd. Phenix City, AL 36869	22	25 Smith Drive Phenix City, AL 36869

Proposed Community Safe Room Sites- 0 Completed Other Sites to Be Determined By RCEMA and/or Local Jurisdictions			
1	2400 Dobbs Drive Phenix City 36870	9	1012 Ingersoll Drive Phenix City 36867
2	521 Fontaine Road Phenix City 36869	10	1700 17 th Avenue Phenix City 36867
3	2401 South Railroad Street Phenix City 36867	11	4914 US Highway 80 W Opelika 36804
4	24 Explorer Drive Phenix City 36867	12	9 Woodland Drive Phenix City 36869
5	709 Meadowlane Road Phenix City 36869	13	456 Highway 165 Fort Mitchell 36856
6	2307 South Railroad Street Phenix City 36867	14	77 Longview Street Seale 36875
7	1806 8 th Place Phenix City 36869	15	4699 Old Seale Highway Seale 36875
8	906 Idle Hour Drive Phenix City 36867	16	4716 Old Seale Highway Seale 36867

Proposed Generator Locations In Russell County- 0 Completed			
	Generator Locations	Municipality	Purpose
1	4224 Sandfort Road	Russell County	Water Supply
2	4133 Sandfort Road	Russell County	Water Supply
3	6001 N Uchee Road	Russell County / Hatchechubee	Water Supply
4	179 Nuckols Road	Ft. Mitchell	Water Supply
5	1024 Highway 165	Ft. Mitchell	Water Supply
6	300 Firetower Road	Ft. Mitchell	Water Supply
7	18 Depot Street	Hurtsboro	Water Supply
Other sites to be added at Russell County EMA or Jurisdiction discretion.			

Proposed Dredging Locations in Russell County- 0 Completed			
	Dredging	Municipality	Issue
1	Hurtsboro Creek	Russell County	Repetitive Flooding
2	Hurtsboro Creek	Town of Hurtsboro	Repetitive Flooding
Other sites to be added at Russell County EMA or Jurisdiction discretion.			

Proposed Property Buyouts in Russell County			
	Buyout Addresses	Municipality	Issue
1	1555 Gregory Street	Town of Hurtsboro	Repetitive Flooding
2	803 Main Street	Town of Hurtsboro	Repetitive Flooding
3	802 Main Street	Town of Hurtsboro	Repetitive Flooding
4	182 Long Street	Town of Hurtsboro	Repetitive Flooding
5	Properties located along Highway 10 Hurtsboro	Town of Hurtsboro	Repetitive Flooding
6	Properties along 8 th Place S near Cochgalechee Creek	Phenix City	Repetitive Flooding
7	Properties along 7 th Street S near Cochgalechee Creek	Phenix City	Repetitive Flooding
8	Properties along 9 th Place	Phenix City	Repetitive Flooding
Other sites to be added at Russell County EMA or Jurisdiction discretion.			

NOAA Weather Radio Locations - Completed

Daycares / Preschools

- 1 Summerville Baptist Kindergarten
3500 Summerville Rd
Phenix City, AL 36868
- 2 Toddler Town Child Care Center
2305 S Railroad St
Phenix City, AL 36868
- 3 Just for Kids 2 Childcare Center
3102 Opelika Rd
Phenix City, AL
- 4 Just for Kids Daycare Center
5009 Summerville Rd
Phenix City, AL
- 5 Just Us Kids
2401 Sportsman Dr
Phenix City, AL
- 6 Kidz Central Daycare
1407 Broad St
Phenix City, AL
- 7 Kidz-N-Co
3756 US Highway 80 W
Phenix City, AL
- 8 Child Care Network Inc
2101 5th St S
Phenix City, AL
- 9 Child Care Resource Center
1003 25th Ave
Phenix City, AL
- 10 Christian Child Development
2608 Summerville Rd
Phenix City, AL
- 11 Eagle's Voyage Community Center
1008 Gateway Dr
Phenix City, AL
- 12 Early Bird Child Dev Center
1713 17th Ave
Phenix City, AL
- 13 Hillside Methodist Christian Child Dev.
Hwy 80
Phenix City, AL
- 14 Kingdom Kids Room To Grow
2815 Stadium Dr
Phenix City, AL
- 15 Lakewood Child Development Center
4011 Lakewood Dr
Phenix City, AL
- 16 MOTHER MARY SCHOOL
318 SEALE RD
PHENIX CITY, AL
- 17 New Beginnings Child Care Center
701 4th St
Phenix City, AL

- 18 Perfecting Ministries Academy
2207 28th St
Phenix City, AL
- 19 Care-A-Lot's Child Dev Center
3825 US Highway 80 W
Phenix City, AL
- 20 Carolyn's Playhouse & Preschool
1015 14th St
Phenix City, AL
- 21 Kids for Christ
202 S. Seale Rd.
Phenix City, AL
- 22 Power Up Day Care
1200 12th Ct.
Phenix City, AL
- 23 Rainbow's End
1309 10th Ave.
Phenix City, AL
- 24 Adams Daycare
242 Hwy 26
Seale, AL

Churches / Houses of Worship

- 1 New Beginnings Fellowship
3632 US Highway 80 W
Phenix City, AL
- 2 Jehovah's Witnesses Crawford
US Highway 80
Phenix City, AL
- 3 Crawford Road Baptist Church
2706 US Highway 80 W
Phenix City, AL
- 4 Bethlehem Baptist Church
Crawford Rd
Phenix City, AL
- 5 Church of Jesus Christ of Lds
Crawford Rd
Phenix City, AL
Bethlehem Baptist Church
Highway 80
Phenix City, AL
- 6 Shady Woods Baptist Church
Crawford Rd
Phenix City, AL
- 7 St John Baptist Church
Crawford Rd
Phenix City, AL
- 8 Auburn Heights Baptist Church
4207 Auburn Rd
Phenix City, AL
- 9 Faith Outreach Church
1306 23rd CT
Phenix City, AL
- 10 Brighter Days Ministries

- 1707 14th St
Phenix City, AL
- 11 Hillside United Methodist Church
3737 US Highway 80 W
Phenix City, AL
- 12 Phenix City Church of Christ
3746 US Highway 80 W
Phenix City, AL
- 13 Emmanuel Baptist Church
1207 18th Ave
Phenix City, AL
- 14 Lakewood Baptist Church of Pc
4011 Lakewood Dr
Phenix City, AL
- 15 New Bride Christian Church
2306 26th St
Phenix City, AL
- 16 Golden Acres Assembly of God
2701 S Railroad St
Phenix City, AL
- 17 White Rock Freewill Baptist
4 Crawford Church Rd
Phenix City, AL
- 18 First Christian Church
18th Pl & 21st Ct.
Phenix City, AL 36867
- 19 Oasis Ministries
800 Martin Luther King Jr S
Phenix City, AL
- 20 Grace AME Zion Church
2203 27th St
Phenix City, AL
- 21 Pine Grove Baptist Church
112 Wright Rd
Phenix City, AL
- 22 Enterprise Baptist Church
1004 15th Ave
Phenix City, AL
- 23 Sixteenth Avenue Baptist
832 16th Ave
Phenix City, AL
- 24 Phenix City First Congregation
1608 14th Ct
Phenix City, AL
- 25 Courts of Praise
1410 14th Ct
Phenix City, AL
- 26 Body of Christ Church
2207 28th St
Phenix City, AL
- 27 New Central Baptist Church
1702 24th St
Phenix City, AL
- 28 Shiloh Baptist Church

- 1410 14th Ave
Phenix City, AL
- 29 First United Methodist Church
1600 Sandfort Rd
Phenix City, AL
- 30 Golden Acres Baptist Church
3405 S Railroad St
Phenix City, AL
- 31 Whiterock Assembly of God Church
3793 US Highway 80 W
Phenix City, AL
- 32 Higher Power Outreach Church
1200 12th Ct
Phenix City, AL
- 33 Phillips Temple CME Church
1310 15th St
Phenix City, AL
- 34 Bethany Congregational Church
1909 13th Ave
Phenix City, AL
- 35 Uchee Chapel AME Church
Sandfort Rd
Phenix City, AL
- 36 Pierce Chapel Assembly of God
2084 Lee Rd 427
Phenix City, AL
- 37 Shield of Faith
Highway 280 & 431 N
Phenix City, AL
- 38 St Paul's CME Church
Phenix City, AL
- 39 United Baptist Church
1900 Knowles Rd
Phenix City, AL
- 40 Allen Temple AME Church
1501 12th Ave
Phenix City, AL
- 41 Liberty Hill Baptist Church
1210 15th Pl
Phenix City, AL
- 42 Landmark Freewill Baptist Church
1714 Knowles Rd
Phenix City, AL
- 43 First Assembly Of God Church
3777 Highway 431 N
Phenix City, AL
- 44 Bethel Ame Church
Fort Mitchell Hwy
Phenix City, AL
- 45 Epworth United Methodist Church
3763 Highway 431 N
Phenix City, AL
- 46 First Church of the Nazarene
270 Lee Road 456

- Phenix City, AL
47 Fourth Dimension Christian
1153 280 Bypass
Phenix City, AL
- 48 Goodhope Baptist Church
Old Auburn Rd
Phenix City, AL
- 49 Vance Memorial Chapel
3738 Highway 431 N
Phenix City, AL
- 60 True Divine Missionary Baptist Church
1105 9th St
Phenix City, AL
- 51 St Mark Free Will Baptist Church
1012 11th St
Phenix City, AL
- 52 Oakview Church of God
102 US Highway 431 S
Phenix City, AL
- 53 Oasis Church International
800 Highway 431 S
Phenix City, AL
- 54 Power of Praise Assembly-God
230 US Highway 431 S
Phenix City, AL
- 55 Bethlehem Healing Temple-Faith
1021 16th St
Phenix City, AL
- 56 Franchise Missionary Baptist Church
931 10th Ave
Phenix City, AL
- 57 GAINES CHAPEL AME CHURCH
921 10TH AVE
PHENIX CITY, AL
- 58 Total Man Ministries
810 14th St
Phenix City, AL
- 59 First Tabernacle
1501 1st Pl
Phenix City, AL
- 60 House of God
813 14th St
Phenix City, AL
- 61 First Baptist Church
2608 Summerville Rd
Phenix City, AL
- 62 Nichols Chapel AME Church
215 11th Ave
Phenix City, AL
- 63 Mother Mary Church
318 SEALE RD
PHENIX CITY, AL
- 64 Broad Street Church of Christ
1213 Broad St

- Phenix City, AL
65 Central Baptist Church
1407 Broad St
Phenix City, AL
- 66 Russell Baptist Association
1501 Broad St
Phenix City, AL
- 67 St Patrick's Church
1502 Broad St
Phenix City, AL
- 68 Central Baptist Church Youth House
1401 Broad St
Phenix City, AL
- 69 Summerville United Methodist
1201 32nd St
Phenix City, AL
- 70 Summerville Baptist Church
3500 Summerville Rd
Phenix City, AL
- 71 Stafford Road Church of Christ
11025 Lee Road 240
Phenix City, AL
- 72 Greater Mt Zion Baptist Church
201 S Seale Rd
Phenix City, AL
- 73 Trinity United Methodist Church
1600 5th Ave
Phenix City, AL
- 74 Mt Mariah Baptist Church
1403 3rd St S
Phenix City, AL
- 75 Better Living 7th Day Advent
1415 9th Ave
Phenix City, AL
- 76 GREATER MT ZION BAPT CHR SNR
1111 2ND PL S
PHENIX CITY, AL
- 77 Baptist Center
1606 5th Ave
Phenix City, AL
- 78 North Phenix Baptist Church
2105 4th Ave
Phenix City, AL
- 79 Pleasant Grove Baptist Church
415 S Seale Rd
Phenix City, AL
- 80 Faith Christian Center International
2701 7th Ave
Phenix City, AL
- 81 First Presbyterian Church
3310 10th Ct
Phenix City, AL
- 82 Faithful Missionary Baptist
201 20th St

- Phenix City, AL
83 Pine Hill Baptist Church
337 10th Ave S
Phenix City, AL
- 84 Calvary Lighthouse
501 12th Ave
Phenix City, AL
- 85 VICTORY FAITH CHRISTIAN CTR
501 10TH AVE S
PHENIX CITY, AL
- 86 River Of Life Church
509 Idle Hour Dr
Phenix City, AL
- 87 Woodland Baptist Church
114 Bayview Dr
Phenix City, AL
- 88 New Testament Baptist
9650 Lee Road 240
Phenix City, AL
- 89 Auburn Road Assembly of God
10290 Lee Road 240
Phenix City, AL
- 90 New Testament Baptist
9650 Lee Road 240
Phenix City, AL
- 91 Auburn Road Assembly of God
10290 Lee Road 240
Phenix City, AL
- 92 Bethel Free Will Baptist Church
10250 Lee Road 240
Phenix City, AL
- 93 Northstar Community Church
4706 16th Ave
Phenix City, AL
- 94 Grace Baptist Church
1605 8th Pl S
Phenix City, AL
- 95 Woodland Drive Church of God
128 Woodland Dr
Phenix City, AL
- 96 Faith Worship Center International
1 Layfield ST
Phenix City, AL
- 97 Pentecostals of Phenix City
1303 Fletcher Dr
Phenix City, AL
- 98 South Girard Church of Christ
520 Fontaine Rd
Phenix City, AL
- 99 Seale Road Baptist Church
2007 S Seale Rd
Phenix City, AL
- 100 Jehovah's Witnesses
3755 S Seale Rd

- Phenix City, AL
- 101 We Can Ministries
300 6th PI S
Phenix City, AL
- 102 Courts of Praise Worship Center
150 Lee Road 456
Phenix City, AL
- 103 Bethany Baptist Church
5301 Summerville Rd
Phenix City, AL
- 104 D W Bass Memorial CME Church
1300 6th PI S
Phenix City, AL
- 105 St Paul AME Church
3996 Sandfort Rd
Phenix City, AL
- 106 First Evangelistic Church
9320 Lee Road 240
Phenix City, AL
- 107 Sunderlan Baptist Church
124 Highway 165
Phenix City, AL
- 108 Christ is the Answer Seventh
10 Tuskegee Hwy
Hurtsboro, AL
- 109 First Baptist Church
306 Owens St
Hurtsboro, AL 36860
- 110 Hurtsboro United Methodist
609 Church St
Hurtsboro, AL
- 111 Nero Baptist Church
481 Rutherford Rd
Hurtsboro, AL
- 112 St Paul AME Church
3 Highway 51 N
Hurtsboro, AL
- 113 First Missionary Baptist Church
34 Stovall Dr
Hurtsboro, AL
- 114 Calvary Baptist Church
434 Calvary Rd
Hurtsboro, AL
- 115 Ross Chapel Zion Church
Kent St
Hurtsboro, AL
- 116 St Mark AME Church
Guerryton Rd
Hurtsboro, AL
- 117 Zion Hill Baptist Church
Highway 65 S
Hurtsboro, AL
- 118 Shady Grove AME Zion Church
461 Shady Grove Rd

- Hurtsboro, AL
 119 St John's AME
 2 Mathews Ct
 Hurtsboro, AL
- 120 Friendship Missionary Baptist
 2 Friendship Rd
 Hurtsboro, AL
- 121 Mt. Arrie Baptist Church
 42 Johnson Rd
 Hurtsboro, AL
- 122 Creekstand AME Zion
 204 Brooks Rd
 Union Springs, AL
- 123 Andrew Chapel AME Zion Church
 72 Battle Rd
 Hurtsboro, AL
- 124 St Luke AME Church
 70 Saint Luke Rd
 Hatchechubbee, AL
- 125 Benevolent Grove Church
 515 Glennbridge Rd
 Hatchechubbee, AL
- 126 Howard Chapel AME Church
 5865 N Uchee Rd
 Hatchechubbee, AL
- 127 Pine Level AME Zion Church
 6208 N Uchee Rd
 Hatchechubbee, AL
- 128 Hatchechubbee First Baptist Church
 Po Box 170
 Hatchechubbee, AL
- 129 Mt Missouri Baptist Church
 973 Rutherford Rd
 Hurtsboro, AL
- 130 Hatchechubbee Baptist Church
 9 Zion Hill Rd
 Hatchechubbee, AL 36858
- 131 Friendship Baptist Church
 258 Blanding Rd
 Hatchechubbee, AL
- 132 Humble Zion Baptist Church
 86 Frog Pond Rd
 Hurtsboro, AL
- 133 Antioch Baptist Church
 474 Antioch Rd
 Pittsview, AL
- 134 Mt Moriah Baptist Church
 6011 County Road 2
 Hurtsboro, AL
- 135 Benevolent Grove Church
 515 Greenbridge Rd
 Pittsview, AL
- 136 Pure Holiness Church
 5503 Sandfort Rd

- Seale, AL
- 137 Antioch Baptist Church
1220 County Road 5
Union Springs, AL
- 138 Mt Mariah Baptist Church
373 Bethel Rd
Pittsview, AL
- 139 St Peter AME Episcopal
5295 Sandfort Rd
Seale, AL
- 140 Bethel African Methodist Church
531 Bethel Rd
Pittsview, AL
- 141 Greater Mt Hebron Baptist
78 Highway 26
Seale, AL
- 142 Pleasant Hill Baptist Church
Sandfort Rd
Seale, AL
- 143 Canaan Ame Church
Highway 32
Seale, AL
- 144 Good Hope Baptist Church
4939 Sandfort Rd
Seale, AL
- 145 Silver Run Baptist Church
Highway 431 S
Seale, AL
- 146 Seale Baptist Church
3 Chapel St
Seale, AL
- 147 Seale United Methodist Church
6 Chapel St
Seale, AL
- 148 Mt Zion AME Church
12 Mt Zion St
Seale, AL
- 149 Shiloh Baptist Church
5726 Highway 431
Pittsview, AL
- 150 Mt Hebron Baptist Church
50 Longview Ct
Seale, AL
- 151 Mt Olive Missionary Baptist Church
930 Oswichee Rd
Seale, AL
- 152 Antioch Baptist Church
Mclendon Rd
Seale, AL
- 153 Colbert AME Church
Seale, AL
- 154 Providence Baptist Church
Sipina Dr
Seale, AL

- 155 St John Ame Church
66 Continuation St
Pittsview, AL
- 156 Mt Olive Baptist Church
225 Continuation St
Pittsview, AL
- 157 Greater New Jerusalem Baptist
234 Ridge Rd
Seale, AL
- 158 Shady Grove Baptist Church
Nuckolls Rd
Seale, AL
- 159 St James Baptist Church
12 St James Rd
Pittsview, AL
- 160 Avalon Woods Baptist Church
91 Pioneer Dr
Seale, AL
- 161 New Hope Baptist Church
843 16th Ave
Cottonton, AL
- 162 Uchee Pines Seventh Day Advent
30 Uchee Pines Rd
Seale, AL
- 163 Cottonton Baptist Church
59 Kite Rd
Cottonton, AL
- 164 Cool Springs Baptist Church
Highway 4
Pittsview, AL
- 165 Mt Cannan Baptist
Firetower Rd
Pittsview, AL
- 166 Uchee Hill Baptist Church
4028 Old Seale Hwy
Phenix City, AL
- 167 Resurrection Full Gospel Bptst
4096 Sandfort Rd
Phenix City, AL
- 168 Genesis Church of God & Christ
1697 Highway 165
Pittsview, AL
- 169 Friendship Baptist Church
4084 US Highway 80 W
Phenix City, AL
- 170 St Paul Ame Church
3996 Sandfort Rd
Phenix City, AL
- 171 Faith Temple Assembly of God
4 Meadowood Dr
Phenix City, AL
- 172 New Hope Baptist Church
1568 Highway 165
Pittsview, AL

- 173 Woodland Drive Church of God
128 Woodland Dr
Phenix City, AL
- 174 Pleasant Grove AME Church
Highway 24
Fort Mitchell, AL
- 175 My Father's House
862 Highway 165
Fort Mitchell, AL
- 176 St John AME Church
944 Highway 165
Fort Mitchell, AL
- 177 St Joseph Church
1444 Highway 165
Fort Mitchell, AL
- 178 Christian Life Church
259 Highway 165
Phenix City, AL
- 179 Cedar Hill Baptist Church
602 6th St.
Phenix City, AL 36867
- 180 Crawford Road Baptist Church
2706 Highway 80 West
Phenix City, AL 36870
- 181 Holland Creek Baptist Church
PO Box 275
Phenix City, AL 36868
- 182 Ladonia Baptist Church
3789 US Hwy 80 West
Phenix City, AL 36870
- 183 Alexandria Methodist Church
PO Box 128
Seale, AL 36875-0128
- 184 Crawford Methodist Church
5018 Ridgeway Dr.
Phenix City, AL 36867
- 185 Hatchechubbee Methodist
PO Box 190
Hatchechubbee, AL 36858
- 186 Blessed Trinity Shrine Retreat
107 Holy Trinity Rd.
Fort Mitchell, AL 36856
- 187 St. Stephens Episcopal Church
PO Box 3319
Phenix City, AL 36868
- 188 Calvary Temple Assembly of God
230 Highway 431 South
Phenix City, AL 36867
- 189 Bethel Baptist Church
Price Rd.
Phenix City, AL 36867
- 190 First Life Center
Pittsview AL
- 191 Dayspring Full Gospel Church

- Crawford Road
Phenix City, AL
- 192 Macedonia Baptist
Highway 18
Phenix City, AL 36867
- 193 Mount Sanai Baptist Church
Hwy 65
Pittsview, AL
- 194 Living Water Faith Center
201 20th St.
Phenix City, AL 36867
- 195 North Phenix Assembly of God
600 North Railroad St.
Phenix City, AL 36867
- 196 Jerusalem Baptist Church
Hwy 280
Phenix City, AL 36867
- 197 Love of Life Ministries
800 Hwy 431 South
Phenix City, AL 36867
- 198 Mount Olive Baptist Church
Fort Mitchell, AL
- 199 Oswitchee Baptist Church
Fort Mitchell, AL
- 200 Russell Woods Congregational
1200 23rd Ct.
Phenix City, AL 36867
- 201 Sandfort Rd. Assembly of God
205 26th Ct.
Phenix City, AL 36869
334-297-3003
- 202 St. James Freewill Baptist Church
2009 2nd Ave.
Phenix City, AL 36867
- 203 Whiterock Freewill Baptist Church
Crawford Rd.
Phenix City, AL 36867

Other Sites

- 1 C-Club
1500 15th Street
- 2 Roy Martin
1100 Airport
- 3 WPNX
1002 Airport
- 4 Tennis Center
1004 Airport
- 5 Central Activity & Senior Center
1500 14th Street
- 6 Airport Fields
900 Airport
- 7 Recreation Office
1500 Airport
- 8 Spencer Center

- 400 8th Avenue
- 9 Lakewood Park
4500 Lakewood Park Drive
- 10 Garrett Harrison Stadium
3800 Summerville Road
- 11 PC Ampitheater
508 Dillingham Street
- 12 City of Phenix City
601 12th Street
- 13 Dixie Youth
2000 24th Street
- 14 Southside Park
3625 Sandfort Road
- 15 Southside Pool
2429 Sandfort Road
- 16 Maintenance Shop
1150 Airport
- 17 Ft. Mitchell Senior Center
540 Highway 165
Ft. Mitchell Senior Center
- 18 Ladonia Sports Complex
Woodland Drive
Ladonia Sports Complex
- 19 Old Russell County Courthouse
Courthouse Road
Seale
- 20 Russell County Group Home
1011 8th Avenue
- 21 Domestic Violence Shelters x 2
- 22 Address not disclosed for safety purposes
- 23 Russell County Health Department
1850 Crawford Road
- 24 Russell County CAC
1011 S Railroad
- 25 Russell County CAC
14th Street
- 26 Russell County Engineering Shop
Poorhouse Road
Seale
- 27 Russell County Bus Shop
Poorhouse Road
Seale
- 28 Phenix City Machine Shop
921 14th Street
- 29 Phenix City Library
1501 17th Avenue
- 30 PC Bus Lot
809 12th Street
- 31 PC Bus Lot
2400 Dobbs Drive
- 32 Phenix City Healthcare
3900 Lakewood Drive
- 34 Parkwood Health Facility
3301 Stadium Drive

- 35 Canterbury Health Facility
1720 Knowles Road
 - 36 Phenix City Chamber of Commerce
12th Street
 - 37 Summit Hospital
Phenix City
 - 38 Regional Rehab Hospital
3715 Highway 280 Bypass
- Other sites to be added at Russell County EMA or municipality discretion.

Appendix E

Additional Hazard Information



Phenix City Tornado Damage April, 2009

**Presidential Disaster Declarations For Alabama
1961-2014**

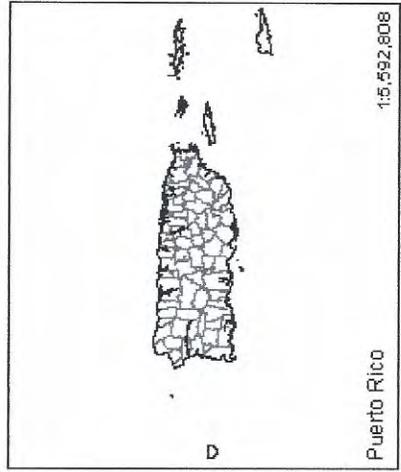
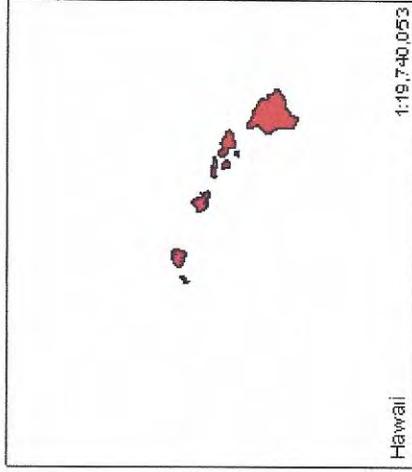
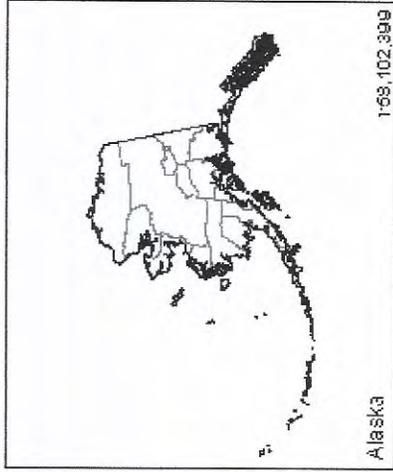
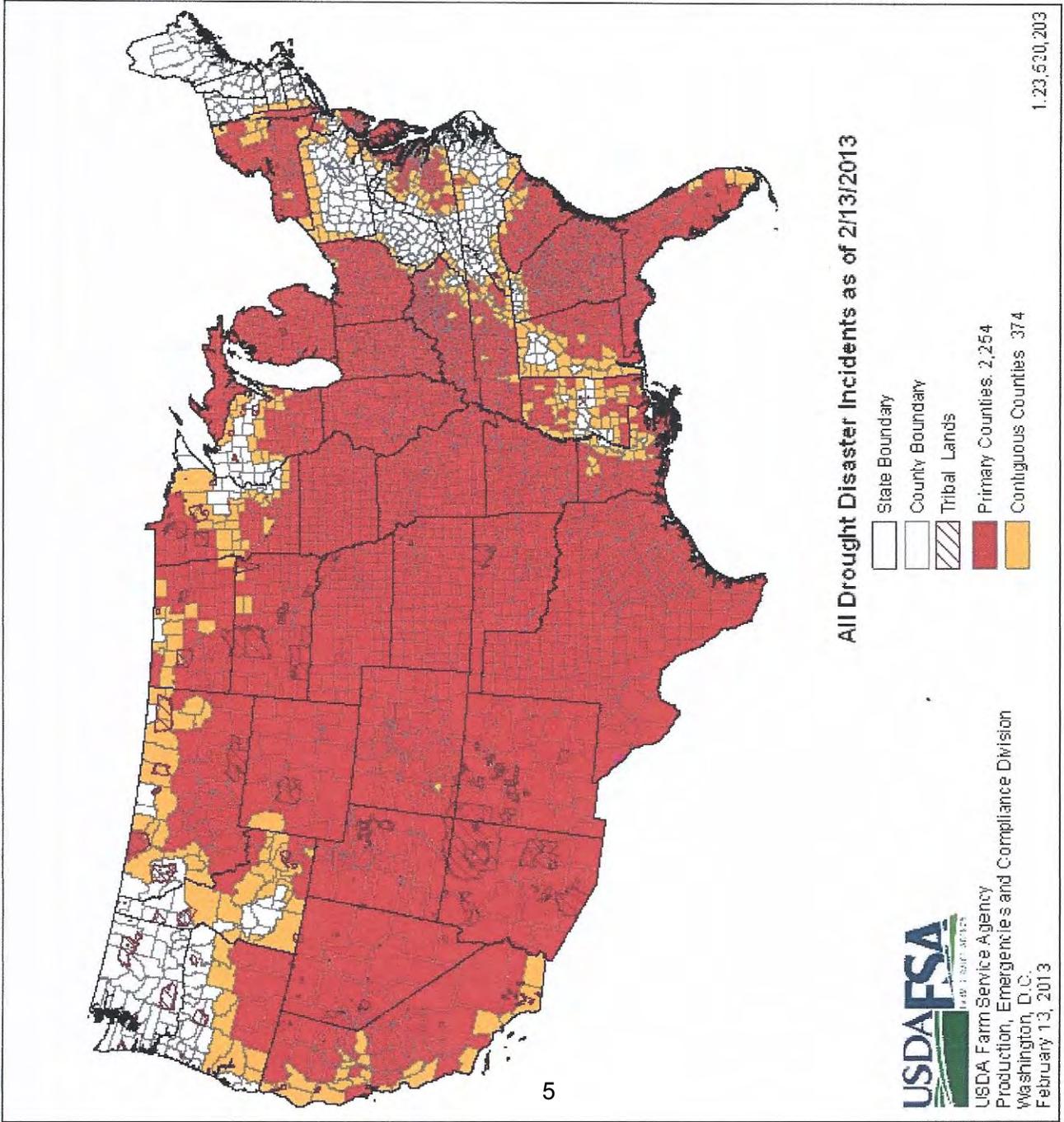
Number	Date	State/Tribal Government	Incident Description	Declaration Type
4176	5/2/2014	Alabama	Severe Storms, Tornadoes, Straight-line Winds, and Flooding	Major Disaster Declaration
4082	9/21/2012	Alabama	Hurricane Isaac	Major Disaster Declaration
4052	2/1/2012	Alabama	Severe Storms, Tornadoes, Straight-Line Winds, And Flooding	Major Disaster Declaration
1971	4/28/2011	Alabama	Severe Storms, Tornadoes, Straight-line Winds, and Flooding	Major Disaster Declaration
3319	4/27/2011	Alabama	Severe Storms, Tornadoes, and Straight-line Winds	Emergency Declaration
1908	5/3/2010	Alabama	Severe Storms, Tornadoes, Straight-line Winds, and Flooding	Major Disaster Declaration
1870	12/31/2009	Alabama	Severe Storms and Flooding	Major Disaster Declaration
1866	12/22/2009	Alabama	Tropical Storm Ida	Major Disaster Declaration
1842	6/3/2009	Alabama	Severe Storms, Tornadoes, Flooding, and Straight-line Winds	Major Disaster Declaration
1836	5/8/2009	Alabama	Severe Storms, Flooding, Tornadoes, and Straight-line Winds	Major Disaster Declaration
1835	4/28/2009	Alabama	Severe Storms, Flooding, Tornadoes, and Straight-line Winds	Major Disaster Declaration
1797	9/26/2008	Alabama	Severe Storms and Flooding associated with Hurricane Ike	Major Disaster Declaration
1789	9/10/2008	Alabama	Hurricane Gustav	Major Disaster Declaration
3292	8/30/2008	Alabama	Hurricane Gustav	Emergency Declaration
1687	3/3/2007	Alabama	Severe Storms and Tornadoes	Major Disaster Declaration
3237	9/10/2005	Alabama	Hurricane Katrina Evacuation	Emergency Declaration
1605	8/29/2005	Alabama	Hurricane Katrina	Major Disaster Declaration
3214	8/28/2005	Alabama	Hurricane Katrina	Emergency Declaration
1593	7/10/2005	Alabama	Hurricane Dennis	Major Disaster Declaration
1549	9/15/2004	Alabama	Hurricane Ivan	Major Disaster Declaration

Number	Date	State/Tribal Government	Incident Description	Declaration Type
1466	5/12/2003	Alabama	Severe Storms, Tornadoes and Flooding	Major Disaster Declaration
1442	11/14/2002	Alabama	Severe Storms and Tornadoes	Major Disaster Declaration
1438	10/9/2002	Alabama	Tropical Storm Isidore	Major Disaster Declaration
1399	12/7/2001	Alabama	Severe Storms and Tornadoes	Major Disaster Declaration
2395	11/20/2001	Alabama	Northeast Alabama Fire Complex	Fire Management Assistance Declaration
1362	3/5/2001	Alabama	Severe Storms & Flooding	Major Disaster Declaration
1352	12/18/2000	Alabama	Tornadoes	Major Disaster Declaration
2339	9/17/2000	Alabama	County Line Fire	Fire Management Assistance Declaration
1322	3/17/2000	Alabama	Severe Storms And Flooding	Major Disaster Declaration
1317	2/18/2000	Alabama	Winter Storm	Major Disaster Declaration
2283	9/24/1999	Alabama	Martin School Fire	Fire Management Assistance Declaration
2277	9/18/1999	Alabama	Russellville Fire	Fire Management Assistance Declaration
2278	9/18/1999	Alabama	Chelsea Community Fire	Fire Management Assistance Declaration
2276	9/18/1999	Alabama	Jackson Farms Fire	Fire Management Assistance Declaration
2279	9/18/1999	Alabama	Fayette Fire	Fire Management Assistance Declaration
2280	9/18/1999	Alabama	Macintosh Fire	Fire Management Assistance Declaration
2281	9/18/1999	Alabama	Lookout Mountain Fire	Fire Management Assistance Declaration
1261	1/15/1999	Alabama	Freezing Rain and Ice Storm	Major Disaster Declaration
1250	9/30/1998	Alabama	Hurricane Georges	Major Disaster Declaration
3133	9/28/1998	Alabama	Hurricane Georges	Emergency Declaration
1214	4/9/1998	Alabama	Tornadoes and Severe Thunderstorms	Major Disaster Declaration
1208	3/9/1998	Alabama	Severe Storms and Flooding	Major Disaster Declaration
1185	7/25/1997	Alabama	Severe Storms/High Winds/Flooding	Major Disaster Declaration

Number	Date	State/Tribal Government	Incident Description	Declaration Type
1108	3/20/1996	Alabama	Storms/Tornadoes/Floods	Major Disaster Declaration
1104	2/23/1996	Alabama	Storms/Flooding	Major Disaster Declaration
1070	10/4/1995	Alabama	Hurricane Opal	Major Disaster Declaration
1047	4/21/1995	Alabama	Severe Storm, Tornadoes, Flooding	Major Disaster Declaration
1034	7/8/1994	Alabama	Severe Storm, Flooding, Tropical Storm Alberto	Major Disaster Declaration
1019	3/30/1994	Alabama	Severe Storm, Flooding, Tornado	Major Disaster Declaration
1013	3/3/1994	Alabama	Winter Storm, Severe Storm, Freezing, Flooding	Major Disaster Declaration
3096	3/15/1993	Alabama	Severe Snowfall, Winter Storm	Emergency Declaration
890	1/4/1991	Alabama	Flooding, Severe Storm	Major Disaster Declaration
861	3/21/1990	Alabama	Flooding, Severe Storm, Tornado	Major Disaster Declaration
856	2/17/1990	Alabama	Flooding, Severe Storm, Tornado	Major Disaster Declaration
848	11/17/1989	Alabama	SEVERE STORMS, TORNADOES	Major Disaster Declaration
742	9/7/1985	Alabama	HURRICANE ELENA	Major Disaster Declaration
3088	5/11/1984	Alabama	Severe Storms and Tornadoes	Emergency Declaration
695	12/13/1983	Alabama	SEVERE STORMS,FLOODING, TORNADOES	Major Disaster Declaration
639	5/14/1981	Alabama	SEVERE STORMS, FLOODING	Major Disaster Declaration
638	4/10/1981	Alabama	SEVERE STORMS, TORNADOES, FLOODING	Major Disaster Declaration
619	4/20/1980	Alabama	SEVERE STORMS, TORNADOES, FLOODING	Major Disaster Declaration
598	9/13/1979	Alabama	HURRICANE FREDERIC	Major Disaster Declaration
578	4/18/1979	Alabama	Storms, Wind, Flooding	Major Disaster Declaration
3074	3/17/1979	Alabama	Flooding	Emergency Declaration
563	8/9/1978	Alabama	SEVERE STORMS, FLOODING	Major Disaster Declaration
3064	4/24/1978	Alabama	Tornadoes	Emergency Declaration
3045	7/20/1977	Alabama	Drought	Emergency Declaration
532	4/9/1977	Alabama	SEVERE STORMS, FLOODING	Major Disaster Declaration
488	10/2/1975	Alabama	SEVERE STORMS, TORNADOES, FLOODING	Major Disaster Declaration
464	4/23/1975	Alabama	SEVERE STORMS, FLOODING	Major Disaster Declaration
458	3/14/1975	Alabama	SEVERE STORMS, FLOODING	Major Disaster Declaration

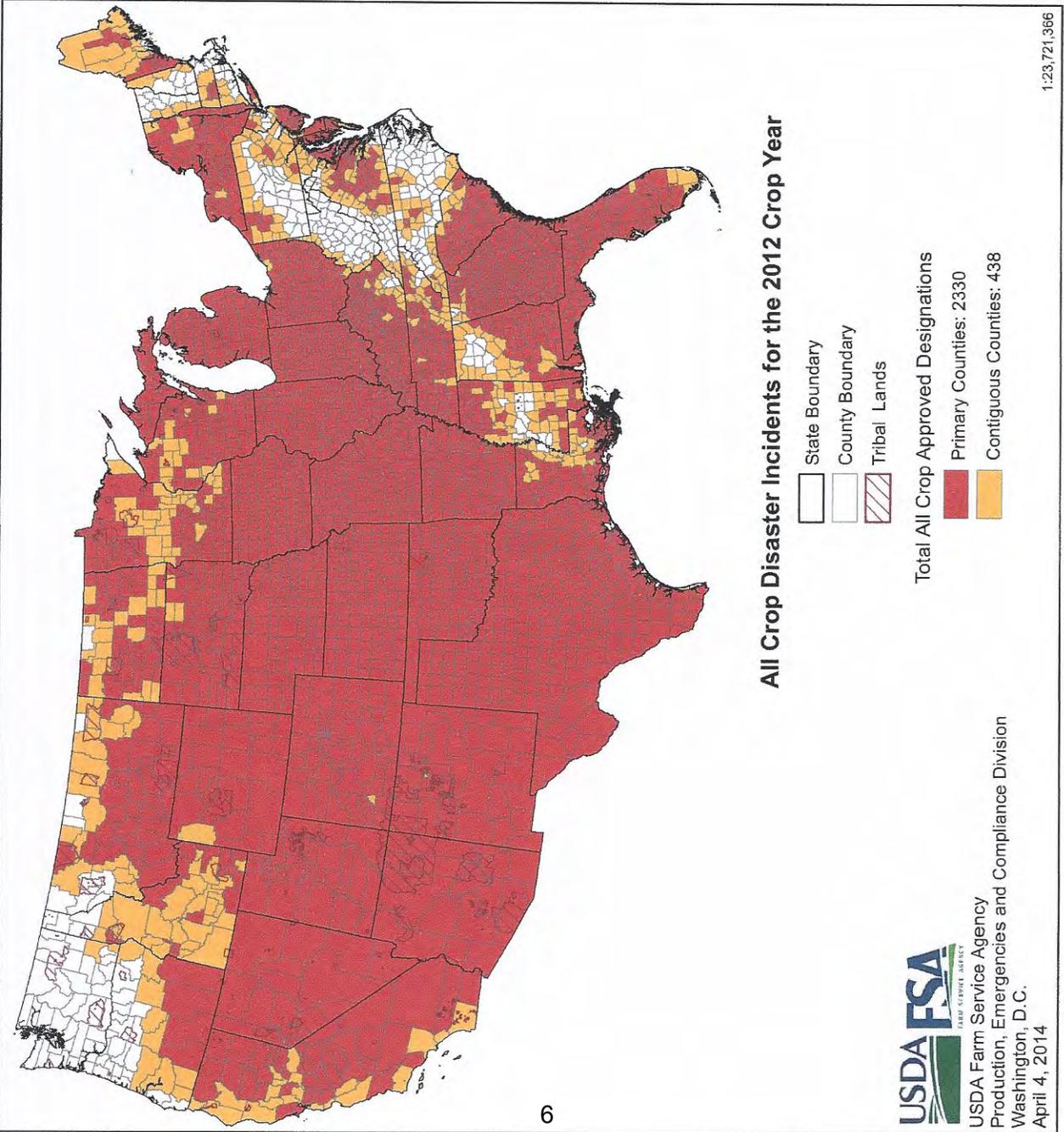
Number	Date	State/Tribal Government	Incident Description	Declaration Type
3007	1/18/1975	Alabama	Tornadoes	Emergency Declaration
422	4/4/1974	Alabama	TORNADOES	Major Disaster Declaration
388	5/29/1973	Alabama	SEVERE STORMS, FLOODING	Major Disaster Declaration
369	3/27/1973	Alabama	TORNADOES, FLOODING	Major Disaster Declaration
285	4/9/1970	Alabama	Heavy Rains, Tornadoes, Flooding	Major Disaster Declaration
280	11/7/1969	Alabama	HURRICANE CAMILLE	Major Disaster Declaration
109	2/27/1961	Alabama	FLOODS	Major Disaster Declaration

2012 Secretarial Drought Designations - All Drought



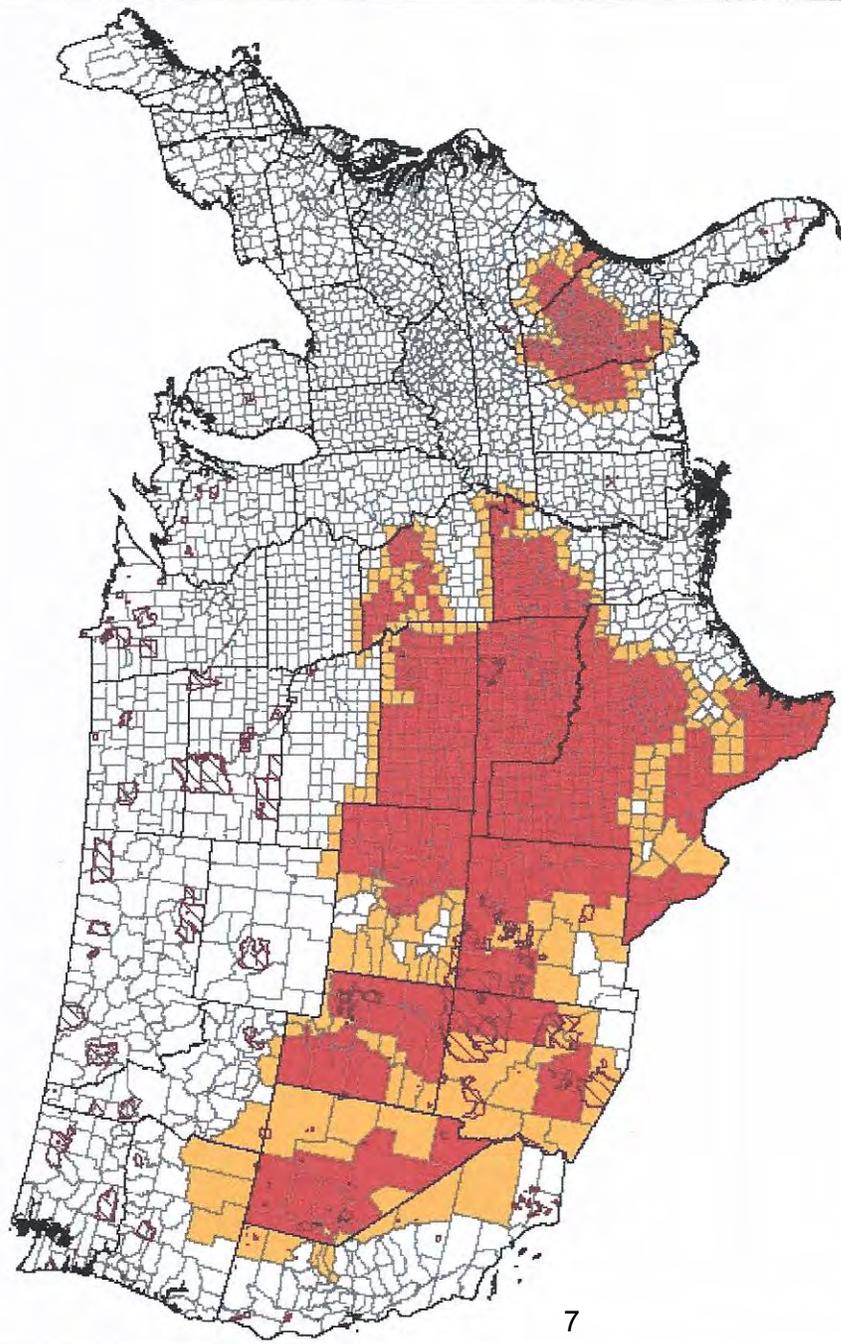
Secretarial Disaster Designations - CY 2012

Primary and Contiguous Counties Designated for 2012 All Crop Disaster Losses



USDA Farm Service Agency
 Production, Emergencies and Compliance Division
 Washington, D.C.
 April 4, 2014

2013 Secretarial Drought Designations - All Drought



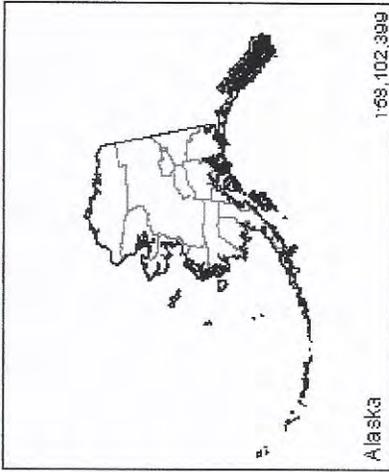
All Drought Disaster Incidents as of 1/09/2013

- State Boundary
- County Boundary
- Tribal Lands
- Primary Counties: 597
- Contiguous Counties: 285



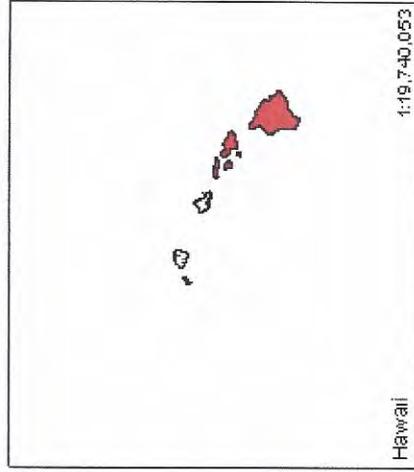
USDA Farm Service Agency
 Production, Emergencies and Compliance Division
 Washington, D.C.
 January 9, 2013

1:23,520,203



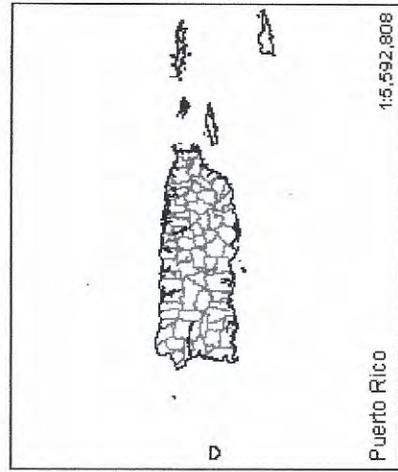
Alaska

1:68,102,389



Hawaii

1:19,740,053

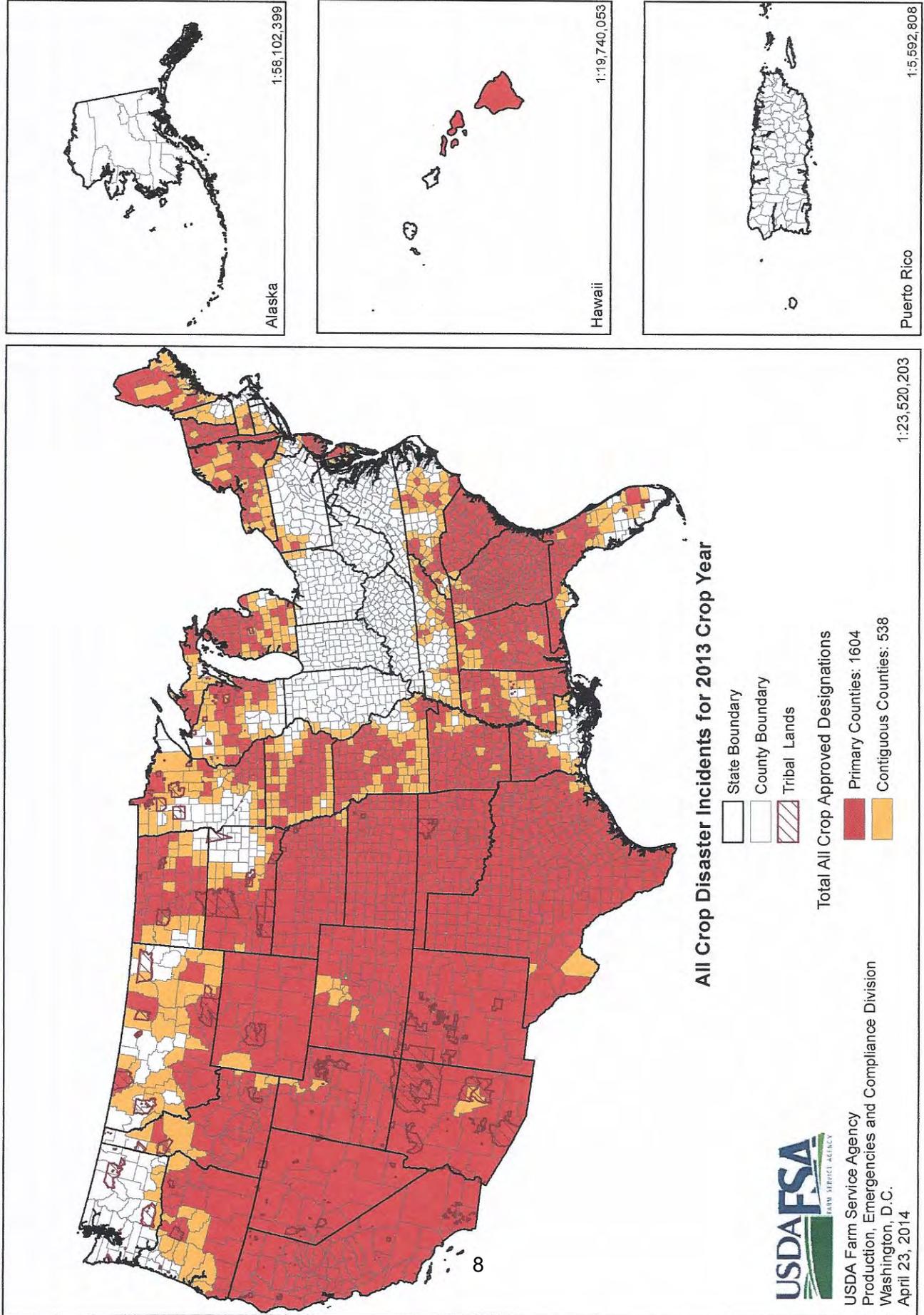


Puerto Rico

1:5,592,808

Secretarial Disaster Designations - CY 2013

Primary and Contiguous Counties Designated for 2013 Crop Disaster Losses



USDA Farm Service Agency
 Production, Emergencies and Compliance Division
 Washington, D.C.
 April 23, 2014

Federal Emergency Management Agency Community Status Book Report ALABAMA

Note: Pages without
Russell County
communities have been
omitted.

Communities Participating in the National Flood Program

CID	Community Name	County	InitFHB Identified	Init FIRM Identified	Curr Eff Map Date	Reg-Emer Date	Tribal
010097#	HEADLAND, CITY OF	HENRY COUNTY	06/28/74	08/19/86	09/28/07	08/19/86	No
010043#	HEFLIN, CITY OF	CLEBURNE COUNTY	11/01/74	07/05/82	08/16/11	07/05/82	No
010294#	HELENA, CITY OF	SHELBY COUNTY	01/10/75	01/06/82	02/20/13	01/06/82	No
010357#	HENAGAR, TOWN OF	DEKALB COUNTY	03/12/76	02/20/08	09/29/11(M)	02/20/08	No
010261#	HENRY COUNTY*	HENRY COUNTY	01/17/75	08/01/87	09/28/07	08/01/87	No
010019#	HIGHLAND LAKE, TOWN OF	BLOUNT COUNTY		08/03/09	08/03/09(M)	02/11/10	No
010305#	HILLSBORO, TOWN OF	LAWRENCE COUNTY	10/01/76	04/02/86	09/11/09(M)	04/02/86	No
010021#	HOBSON CITY, TOWN OF	CALHOUN COUNTY	05/17/74	09/30/83	09/28/07	09/30/83	No
010426#	HODGES, TOWN OF	FRANKLIN COUNTY		09/29/10	09/29/10(M)	09/29/10	No
010254#	HOKES BLUFF, TOWN OF	ETOWAH COUNTY	12/10/76	03/28/80	09/26/08(M)	03/28/80	No
010440#	HOLLY POND, TOWN OF	CULLMAN COUNTY		12/02/04	05/24/11(M)	06/26/06	No
010111#	HOLLYWOOD, TOWN OF	JACKSON COUNTY	03/08/74	09/29/86	12/16/08	09/29/86	No
015006#	HOMEWOOD, CITY OF	JEFFERSON COUNTY		03/30/73	09/03/10	03/30/73	No
010123#	HOOVER, CITY OF	SHELBY COUNTY/JEFFERSON COUNTY	11/29/74	02/04/81	02/20/13	02/04/81	No
010098#	HOUSTON COUNTY*	HOUSTON COUNTY	02/14/75	09/29/89	09/03/14	09/29/89	No
010337#	HUEYTOWN, CITY OF	JEFFERSON COUNTY	10/01/76	01/02/81	09/03/10	01/02/81	No
010153#	HUNTSVILLE, CITY OF	MADISON COUNTY	05/24/74	11/01/79	10/02/14	11/01/79	No
010185#	HURTSBORO, TOWN OF	RUSSELL COUNTY	07/18/75	01/06/82	07/22/10	01/06/82	No
010389#	IDER, TOWN OF	DEKALB COUNTY		02/20/08	09/29/11(M)	02/02/11	No
010430#	INDIAN SPRINGS VILLAGE, TOWN OF	SHELBY COUNTY	11/29/74	09/16/82	02/20/13	08/10/89	No
	ADOPTED SHELBY COUNTY FIRM DATED 9-16-82.						
010124#	IRONDALE, CITY OF	JEFFERSON COUNTY	06/07/74	02/04/81	09/29/06	02/04/81	No
010110#	JACKSON COUNTY*	JACKSON COUNTY	04/28/78	05/03/90	12/16/08	05/03/90	No
010499#	JACKSON'S GAP, TOWN OF	TALLAPOOSA COUNTY		06/17/91	07/18/11(M)	09/11/07	No
	Use Tallapoosa County FIRM panels 010326 0075 B and 0100 B dated June 17, 1991.						
010040#	JACKSON, CITY OF	CLARKE COUNTY	06/27/75	12/17/87	07/17/12	12/17/87	No
010022#	JACKSONVILLE, CITY OF	CALHOUN COUNTY	05/17/74	07/05/82	09/28/07	07/05/82	No
010206#	JASPER, CITY OF	WALKER COUNTY	01/23/74	06/15/81	10/02/14	06/15/81	No
010217#	JEFFERSON COUNTY*	JEFFERSON COUNTY	07/07/78	02/17/82	09/03/10	02/17/82	No
010501#	JEMISON, TOWN OF	CHILTON COUNTY		03/16/09	03/16/09(M)	09/09/10	No
010390#	KANSAS, TOWN OF	WALKER COUNTY	03/16/79	08/02/07	10/02/14	09/09/10	No
010136#	KENNEDY, TOWN OF	LAMAR COUNTY	11/01/74	05/03/10	05/03/10(M)	08/05/86	No
010338#	KILLEN, TOWN OF	LAUDERDALE COUNTY	06/18/76	07/18/85	09/11/09(M)	07/18/85	No
010265#	KIMBERLY, TOWN OF	JEFFERSON COUNTY	07/11/75	08/29/80	09/29/06	06/18/81	No
010106#	KINSEY, TOWN OF	HOUSTON COUNTY	09/13/74	09/29/86	09/03/14	09/29/86	No
010237#	KINSTON, TOWN OF	COFFEE COUNTY	01/10/75	12/30/77	08/19/10(M)	12/30/77	No
010028#	LAFAYETTE, CITY OF	CHAMBERS COUNTY	12/06/74	09/18/85	02/18/11(M)	09/18/85	No
010483#	LAKE VIEW, TOWN OF	JEFFERSON COUNTY/JUSCALOOSA COUNTY		09/28/07	01/16/14	05/08/08	No
010271#	LAMAR COUNTY*	LAMAR COUNTY	12/06/74	05/03/10	05/03/10	06/04/90	No
010029#	LANETT, CITY OF	CHAMBERS COUNTY	05/03/74	07/04/88	02/18/11	07/04/88	No
010502#	LANGSTON, TOWN OF	JACKSON COUNTY		12/16/08	12/16/08	09/09/10	No
010323#	LAUDERDALE COUNTY*	LAUDERDALE COUNTY	03/13/78	02/04/81	09/11/09	02/04/81	No
010324#	LAWRENCE COUNTY*	LAWRENCE COUNTY	05/13/77	06/15/81	09/11/09	03/14/91	No
010250#	LEE COUNTY*	LEE COUNTY	03/3/78	09/16/81	11/02/11	12/29/05	No
010125#	LEEDS, CITY OF	ST. CLAIR COUNTY/JEFFERSON COUNTY	06/07/74	01/02/81	(NSFHA)	01/02/81	No
010235	LEESBURG, CITY OF	CHEROKEE COUNTY	10/15/76	01/19/11	01/19/11(M)	01/19/11	No

Federal Emergency Management Agency Community Status Book Report ALABAMA

Communities Participating in the National Flood Program

CID	Community Name	County	InitFHB Identified	InitFIRM Identified	Curr Eff Map Date	Reg-Emer Date	Tribal
010129#	MULGA, TOWN OF	JEFFERSON COUNTY	09/20/14	09/19/80	09/29/06	09/19/80	No
010047#	MUSCLE SHOALS, CITY OF	COLBERT COUNTY	03/08/14	12/15/17	02/17/10	12/11/10	No
010238#	NEWBROCKTON, TOWN OF	COFFEE COUNTY	01/17/15	07/22/17	08/19/10(M)	07/22/17	No
010154#	NEWHOPE, TOWN OF	MADISON COUNTY	10/08/16	11/24/78	10/02/14	11/24/18	No
010395#	NEW SITE, TOWN OF	TALLAPOOSA COUNTY	10/27/18	07/18/11	07/18/11(M)	07/18/11	No
010419#	NEWTON, TOWN OF	DALE COUNTY		07/05/93	08/16/07	07/05/93	No
010260#	NEWVILLE, TOWN OF	HENRY COUNTY	01/10/15	09/29/86	09/28/07	09/29/86	No
010444#	NORTHCOURTLAND, TOWN OF USE BOTH THE LAWRENCE COUNTY (CID 010324) FIRM PANEL# SO. AND THE TOWN OF COURTLAND (CID 010141) FIRM PANEL 001.	LAWRENCE COUNTY		09/11/09	09/11/09	01/28/03	No
010202#	NORTHPORT, CITY OF	TUSCALOOSA COUNTY	12/28/13	09/05/19	01/16/14	09/05/19	No
010149#	NOTASULGA, TOWN OF	MACON COUNTY	10/25/14	11/24/18	11/18/09(M)	11/24/18	No
010299#	OAKMAN, TOWN OF	WALKER COUNTY	02/21/15	03/14/80	10/02/14	03/14/80	No
010188#	ODENVILLE, CITY OF Includes the Town of Branchville.	ST. CLAIR COUNTY	05/24/14	08/05/86	06/19/12	08/05/86	No
010232#	OHATCHEE, TOWN OF USE CALHOUN COUNTY (CID 010013) FIRM DATED FEB. 3, 1993, PANELS 25 & 125.	CALHOUN COUNTY	01/31/15	09/28/07	09/28/07	08/18/04	No
010015#	ONEONTA, CITY OF	BLOUNT COUNTY	09/13/14	08/19/86	08/03/09	08/19/86	No
010145#	OPELIKA, CITY OF	LEE COUNTY	07/26/14	09/16/81	11/02/11	09/16/81	No
010241#	OPP, CITY OF	COVINGTON COUNTY	07/11/15	07/18/85	11/04/09(M)	07/18/85	No
015011#	ORANGE BEACH, CITY OF USE THE BALDWIN COUNTY [015000] FIRM.	BALDWIN COUNTY		09/03/92	07/17/07	01/12/73	No
010064#	ORRVILLE, TOWN OF	DALLAS COUNTY	08/30/14	02/17/10	(NSFHA)	03/18/85	No
010218#	OWENS CROSS ROADS, TOWN OF	MADISON COUNTY	06/25/16	03/02/81	10/02/14	03/02/81	No
010023#	OXFORD, CITY OF	TALLADEGA COUNTY/CALHOUN COUNTY	05/17/14	01/18/84	09/28/07	01/18/84	No
010062#	OZARK, CITY OF	DALE COUNTY	05/24/14	08/05/85	08/16/07(M)	08/05/85	No
010298#	PARRISH, TOWN OF	WALKER COUNTY	01/10/15	05/30/80	10/02/14	05/30/80	No
010193#	PELHAM, CITY OF	SHELBY COUNTY	06/21/14	06/15/81	02/20/13	06/15/81	No
010189#	PELL CITY, CITY OF	ST. CLAIR COUNTY	06/21/14	07/04/89	06/19/12	07/04/89	No
010035#	PENNINGTON, TOWN OF	CHOCTAW COUNTY	03/03/18	09/18/85	09/03/10(M)	09/18/85	No
010523#	PERDIDO BEACH, TOWN OF Town of Perdido Beach adopted Baldwin County FIRM panels 01003C0980 L, 0960 L, and 0959 L, dated July 17, 2007.	BALDWIN COUNTY		07/17/07	07/17/07	04/22/10	No
010184#	PHENIX CITY, CITY OF	LEE COUNTY/RUSSELL COUNTY	11/26/16	09/16/81	01/08/14	09/16/81	No
010333#	PHIL CAMPBELL, TOWN OF	FRANKLIN COUNTY	10/29/16	09/29/10	09/29/10(M)	09/29/10	No
010283#	PICKENS COUNTY *	PICKENS COUNTY	01/17/15	06/04/90	09/17/10	06/04/90	No
010423#	PICKENSVILLE, TOWN OF USE THE PICKENS COUNTY [010283] FIRM	PICKENS COUNTY		06/04/90	09/17/10	06/06/96	No
010024#	PIEDMONT, CITY OF	CALHOUN COUNTY	06/10/14	06/15/84	09/28/07	06/15/84	No
010286#	PIKE COUNTY *	PIKE COUNTY	06/18/16	08/01/87	12/02/11(M)	08/01/87	No
010433#	PIKE ROAD, TOWN OF	MONTGOMERY COUNTY	01/17/15	01/06/82	01/07/15	08/04/03	No
010249#	PINCKARD, TOWN OF	DALE COUNTY	01/24/15	09/04/85	08/16/07(M)	09/04/85	No
010397#	PINE HILL, TOWN OF Annexed areas on Wilcox County FHB, Panel 010327 0005A, dated 5/1/87	WILCOX COUNTY	11/17/18	04/19/10	04/19/10	04/19/10	No
010447#	PINSON, CITY OF	JEFFERSON COUNTY		09/29/06	09/03/10	11/10/04	No

Federal Emergency Management Agency Community Status Book Report ALABAMA Communities Participating in the National Flood Program

CID	Community Name	County	Init FHBM	Init FIRM	Curr Eff	Reg-Emer	Tribal
			Identified	Identified	Map Date	Date	
010268#	PLEASANT GROVE,CITY OF	JEFFERSON COUNTY	12/20/74	12/19/80	09/29/06	12/19/80	No
010075#	POLLARD,TOWN OF	ESCAMBIA COUNTY	01/31/75	09/28/07	06/05/12(M)	09/28/07	No
010398#	POWELL, TOWN OF	DEKALB COUNTY	10/28/79	02/20/08	09/29/11(M)	02/20/08	No
010002#	PRATTVILLE, CITY OF	ELMORE COUNTY/AUTAUGA COUNTY	05/03/74	08/15/78	09/03/14	08/15/78	No
	The effective FRM for Autauga County is dated 10/23/1981 panel number 0100020005C.						
010448#	PRICEVILLE, TOWN OF	MORGAN COUNTY		12/16/05	(NSFHA)	11/02/10	No
010170#	PRICHARD,CITY OF	MOBILE COUNTY	06/28/74	03/17/10	03/17/10	02/04/81	No
010159#	PROVIDENCE, TOWN OF	MARENGO COUNTY	11/01/74	11/17/78	11/02/11(M)	01/30/08	No
010190#	RAGLAND, TOWN OF	ST. CLAIR COUNTY	05/24/74	06/03/86	06/19/12	06/03/86	No
010351#	RAINBOW CITY,CITY OF	ETOWAH COUNTY	02/18/77	01/06/82	09/26/08	01/06/82	No
010368#	RAINSVILLE, CITY OF	DEKALB COUNTY	03/12/76	05/01/80	09/29/11	05/01/80	No
010182#	RANDOLPH COUNTY*	RANDOLPH COUNTY	09/13/74	07/05/82	04/18/11	11/05/03	No
010334#	RED BAY,CITY OF	FRANKLIN COUNTY	12/10/76	01/20/82	09/29/10	03/01/06	No
010243#	RED LEVEL, TOWN OF	COVINGTON COUNTY	01/10/75	11/04/09	11/04/09(M)	11/04/09	No
010253#	REECE CITY,TOWN OF	ETOWAH COUNTY	02/21/75	02/01/91	09/26/08(M)	02/01/91	No
010221#	REFORM,TOWN OF	PICKENS COUNTY	12/27/74	07/03/78	09/17/10	07/03/78	No
010392#	REHOBETH,TOWN OF	HOUSTON COUNTY		11/21/02	09/03/14	07/17/03	No
010427#	REPTON,TOWN OF	CONECUH COUNTY		11/04/09	(NSFHA)	11/04/09	No
010054#	RIVER FALLS, TOWN OF	COVINGTON COUNTY	09/20/74	07/08/77	11/04/09(M)	01/06/06	No
010288#	RIVERSIDE, CITY OF	ST.CLAIR COUNTY	04/04/75	08/19/86	06/19/12	08/19/86	No
010076#	RIVERVIEW,TOWN OF	ESCAMBIA COUNTY	08/30/74	09/04/86	06/05/12	09/04/86	No
010348#	ROANOKE, CITY OF	RANDOLPH COUNTY	06/10/77	07/05/82	04/18/11	05/03/95	No
010222#	ROBERTSDALE, CITY OF	BALDWIN COUNTY	01/28/77	12/01/81	07/17/07	12/01/81	No
010339#	ROGERSVILLE,TOWN OF	LAUDERDALE COUNTY	03/10/78	09/11/09	09/11/09(M)	09/11/09	No
010044#	ROSA, TOWN OF	BLOUNT COUNTY		08/03/09	08/03/09(M)	03/08/13	No
010287#	RUSSELL COUNTY*	RUSSELL COUNTY	01/17/75	09/16/81	01/08/14	09/16/81	No
010216#	RUSSELLVILLE, CITY OF	FRANKLIN COUNTY	06/25/76	08/01/79	09/29/10	08/01/79	No
010505#	SAINT FLORIAN, TOWN OF	LAUDERDALE COUNTY		02/04/81	09/11/09(M)	10/21/08	No
010088#	SAMSON, CITY OF	GENEVA COUNTY	06/07/74	02/24/78	02/20/08	06/17/77	No
010485#	SAND ROCK,TOWN OF	CHEROKEE COUNTY		01/19/11	01/19/11(M)	10/13/11	No
010171#	SARALAND, CITY OF	MOBILE COUNTY	05/24/74	12/18/79	03/17/10	12/18/79	No
010361#	SARDIS CITY, TOWN OF	ETOWAH COUNTY	09/17/76	01/01/87	09/26/08(M)	01/01/87	No
010172#	SATSUMA, CITY OF	MOBILE COUNTY	05/03/74	03/11/10	03/17/10	09/29/78	No
010112#	SCOTTSBORO, CITY OF	JACKSON COUNTY	06/10/77	09/18/85	12/16/08	09/18/85	No
010065#	SELMA,CITY OF	DALLAS COUNTY	05/21/76	03/04/86	09/03/14	03/04/86	No
010048#	SHEFFIELD, CITY OF	COLBERT COUNTY	03/22/74	12/15/77	02/17/10	12/15/77	No
010191#	SHELBY COUNTY*	SHELBY COUNTY	11/29/74	09/16/82	02/20/13	12/15/86	No
010512#	SHORTER, TOWN OF	MACON COUNTY		11/18/09	11/18/09(M)	03/02/11	No
010036#	SILAS,TOWN OF	CHOCTAW COUNTY	09/30/88	09/30/88	09/03/10(M)	02/27/06	No
010010#	SILVERHILL, TOWN OF	BALDWIN COUNTY	06/28/74	12/14/79	07/17/07	12/14/79	No
010089#	SLOCOMB,CITY OF	GENEVA COUNTY	05/24/74	12/16/77	02/20/08(M)	12/16/77	No
010491#	SMITHS STATION,CITY OF	LEE COUNTY		11/02/11	11/02/11	08/24/09	No
	SMITHS STATION HAS ADOPTED THE LEE COUNTY FRM DATED 09/16/1981.						
010227#	SNEAD, TOWN OF	BLOUNT COUNTY	06/27/75	08/03/09	08/03/09(M)	08/03/09	No
010363#	SOMERVILLE, TOWN OF	MORGAN COUNTY	06/04/76	05/02/99	12/16/05	06/28/06	No
010365#	SOUTH VINEMONT, TOWN OF	CULLMAN COUNTY	10/01/76	12/02/04	(NSFHA)	09/04/05	No
010082#	SOUTHSIDE, CITY OF	ETOWAH COUNTY	12/07/73	07/02/87	09/26/08(M)	07/02/87	No
010429#	SPANISH FORT,CITY OF	BALDWIN COUNTY		06/17/02	07/17/07	06/17/02	No

Federal Emergency Management Agency Community Status Book Report ALABAMA

Note: No Russell County communities are listed on this report.

Communities Not in the National Flood Program

CID	Community Name	County	Init FHBM Identified	Init FIRM Identified	Curr Eff Map Date	Sanction Date	Tribal
010095#	AKRON, TOWN OF	HALE COUNTY	07/18{75	01/06/10	01/06/10	07/18{76	No
010435#	BAILEYTON, TOWN OF	CULLMAN COUNTY		12/02/04	05/24/11	12/02/05	No
010352#	BEAR CREEK, TOWN OF	MARION COUNTY	06/18{76	10/19/10	10/19/10	06/18/77	No
010460#	BEATRICE CITY, CITY OF	MONROE COUNTY		02/04/09	02/04/09	02/04/10	No
010500#	BILLINGSLEY, TOWN OF	AUTAUGA COUNTY		06/16/09	09/03/14	06/16/10	No
010342#	BRILLIANT, TOWN OF	MARION COUNTY	07/15{77	10/19/10	10/19/10	07/15{78	No
010240#	CAROLINA, TOWN OF	COVINGTON COUNTY	01/10{75	11/04/09	11/04/09	01/10{76	No
010317#	CLAY COUNTY*	CLAY COUNTY		03/17/10	03/17/10	03/17/11	No
010042#	CLEBURNE COUNTY*	CLEBURNE COUNTY		08/16/07	08/16/11	08/16/08	No
010456#	DAYTON, TOWN OF	MARENGO COUNTY		09/19/07	11/02/11	09/19/08	No
010488#	DEATSVILLE, TOWN OF	ELMORE COUNTY		11/19/08	09/03/14	11/19/09	No
010459#	DOUGLAS, TOWN OF	MARSHALL COUNTY		03/18/08	09/16/11	03/18/09	No
010280#	EDWARDSVILLE, TOWN OF	CLEBURNE COUNTY	12/27{74	08/16/11	08/16/11	12/27{75	No
010382#	ELDRIDGE, TOWN OF	WALKER COUNTY		08/02/07	10/02/14	08/09/07(S)	No
010434#	FAIRVIEW, TOWN OF	CULLMAN COUNTY		12/02/04	05/24/11	12/02/05	No
010027#	FIVE POINTS, TOWN OF	CHAMBERS COUNTY	11/15{74	02/18/11	02/18/11	11/15{75	No
010514#	FORKLAND, TOWN OF	GREENE COUNTY		08/05/10	08/05/10	08/05/11	No
010474#	FORT RUCKER, CITY OF	DALE COUNTY		08/16/07	08/16/07	08/16/08	No
010385#	FRANKLIN, TOWN OF	MACON COUNTY		11/18/09	11/18/09	11/18/10	No
010295#	GAINESVILLE, TOWN OF	SUMTER COUNTY	10/15{76	04/03/12	04/03/12	10/15/77	No
010508#	GORDONVILLE, TOWN OF	LOWNDES COUNTY		11/04/09	11/04/09	11/04/10	No
010458#	GU-WIN, TOWN OF	MARION COUNTY		10/19/10	10/19/10	10/19/11	No
010274#	HACKLEBURG, TOWN OF	MARION COUNTY		10/19/10	10/19/10	10/19/11	No
010413#	HALEBURG, TOWN OF	HENRY COUNTY		09/28/07	09/28/07	09/28/08	No
010343#	HEATH, TOWN OF	COVINGTON COUNTY		11/04/09	11/04/09	11/04/10	No
015044#	HORN HILL, TOWN OF	COVINGTON COUNTY		11/04/09	11/04/09	11/04/10	No
010391#	LAKEVIEW, TOWN OF	DEKALB COUNTY	09/07{79	02/20/08	09/29/11	09/07/80	No
010378#	LIBERTYVILLE, TOWN OF	COVINGTON COUNTY		11/04/09	11/04/09	11/04/10	No
010417#	LISMAN, TOWN OF	CHOCTAW COUNTY		08/03/89	09/03/10	08/03/90	No
010519#	LOCKHART, TOWN OF	COVINGTON COUNTY		11/04/09	11/04/09	11/04/10	No
010003#	LOCUST FORK, TOWN OF	BLOUNT COUNTY		08/03/09	08/03/09	08/03/10	No
010473#	LYNN, TOWN OF	WINSTON COUNTY		08/18/09	08/18/09	08/18/10	No
010421#	MAYTOWN, TOWN OF	JEFFERSON COUNTY		01/20/99	09/29/06	01/20/00	No
010525#	MCINTOSH, TOWN OF	WASHINGTON COUNTY		08/01/87	10/16/12	08/01/88	No
010521#	MCMULLEN, TOWN OF	PICKENS COUNTY		09/17/10	09/17/10	09/17/11	No
010520#	MEMPHIS, TOWN OF	PICKENS COUNTY		09/17/10	09/17/10	09/17/11	No
010468#	MYRTLEWOOD, TOWN OF	MARENGO COUNTY		09/19/07	11/02/11	09/19/08	No
010394#	NAUVOO, TOWN OF	WALKER COUNTY	12/28{79	08/02/07	10/02/14	12/28/80	No
010147#	NECTAR, TOWN OF	BLOUNT COUNTY		08/03/09	08/03/09	08/03/10	No
010167#	NEEDHAM, TOWN OF	CHOCTAW COUNTY		09/03/10	09/03/10	09/03/11	No
010412#	NEWBERN, TOWN OF	HALE COUNTY		01/06/10	01/06/10	01/06/11	No
010396#	NORTH JOHNS, TOWN OF	JEFFERSON COUNTY		01/20/99	09/29/06	01/20/00	No
010469#	OAK GROVE, TOWN OF	TALLADEGA COUNTY		09/28/07	09/28/07	09/28/08	No
010214#	PAINT ROCK, TOWN OF	JACKSON COUNTY	12/10{76	06/17/86	12/16/08	01/10/09(S)	No
010179#	PERRY COUNTY*	PERRY COUNTY		12/16/05	09/02/11	12/16/06	No
010245#	PETREY, TOWN OF	CRENSHAW COUNTY	02/25{77	10/16/09	10/16/09	02/25/78	No
010478#	PINE RIDGE, CITY OF	DEKALB COUNTY		02/20/08	09/29/11	02/20/09	No
010360#	PISGAH, TOWN OF	JACKSON COUNTY	09/26{75	12/16/08	12/16/08	09/26/76	No
010321#	RANBURN, TOWN OF	CLEBURNE COUNTY		08/16/07	08/16/11	08/16/08	No
010443#	ROCKFORD, TOWN OF	COOSA COUNTY		11/26/10	11/26/10	11/26/11	No
010513#	RUTLEDGE, TOWN OF	CRENSHAW COUNTY		10/16/09	10/16/09	10/16/10	No
010362#	SECTION, TOWN OF	JACKSON COUNTY	06/25{76	12/16/08	12/16/08	06/25/77	No

Federal Emergency Management Agency Community Status Book Report ALABAMA

Communities Not in the National Flood Program

CID	Community Name	County	InitFHB Identified	InitFIRM Identified	Curr Eff Map Date	Sanction Date	Tribal
010399#	SHILOH, TOWN OF	DEKALB COUNTY	09/14/79	02120/08	09/29/11	09/14/80	No
010300#	SIPSEY, TOWN OF	WALKER COUNTY		08/02/07	10/02/14	08/02/08	No
010400#	SUMITON, TOWN OF	WALKER COUNTY, JEFFERSON COUNTY	01/19/79	08/02/07	10/02/14	01/19/80	No
010160#	SWEETWATER, TOWN OF	MARENGO COUNTY	07/18/75	09/19/07	11/02/11	07/18/76	No
010037#	TOXEY, TOWN OF	CHOCTAW COUNTY	02/11/77	09/03/10	09/03/10	02/11/78	No
010262#	TRAFFORD, TOWN OF	JEFFERSON COUNTY		01/20/99	09/29/06	01/20/00	No
010515#	UNION, TOWN OF	GREENE COUNTY		08/05/10	08/05/10	08/05/11	No
010279#	UNIONTOWN, CITY OF	PERRY COUNTY	09/12/75	12/02/05	09/02/11	09/12/76	No
010402#	WEST JEFFERSON, TOWN OF	JEFFERSON COUNTY	02/12/80	01/20/99	09/29/06	02/12/81	No
010405#	WILTON, TOWN OF	SHELBY COUNTY	11/02/79	09/29/06	02/12/13	11/02/80	No

Summary:

Total Not in Flood Program	62
Total Suspended from Emergency Program	0
Total Suspended from Regular Program	2
Total Withdrawn Communities Not In Program	0
Total Not In Program With Hazard Area Identified	62
Total Not In Program With Hazard Area Identified < 1 Year	0

Legend:

- (E) Indicates Entry In Emergency Program
- NSFHA No Special Flood Hazard Area - All Zone C
- (>) Date of Current Effective Map is after the Date of This Report
- N/A Not Applicable At This Time
- (S) Suspended Community
- (W) Withdrawn Community
- (M) No Elevation Determined - All Zone A, C and X
- (L) Original FIRM by Letter- All Zone A, C and X



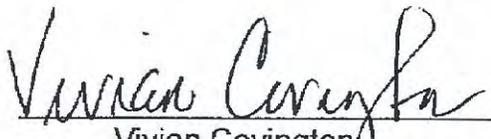
TOWN OF HURTSBORO 2015 STATEMENT OF PARTICIPATION IN NFIP

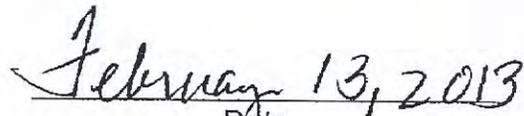
Over the past five years the Town of Hurtsboro has undertaken the following activities to mitigate the threat of flood in the community:

- Performed maintenance on roads, drainage culverts, creeks, and streams to mitigate the threat of flood.
- Facilitated buyouts of properties located in flood zones.
- Worked collaboratively with the Russell County Floodplain Manager and the Russell County EMA to inform citizens of flood threats and NFIP

Over the next five years the Town of Hurtsboro intends to complete the following activities to mitigate the threat of flood in the community:

- Perform maintenance roads, drainage culverts, creeks, and streams to mitigate the threat of flood.
- Assist the Russell County EMA in identifying properties which may be candidates for future buyouts due to repetitive flooding.
- Work collaboratively with the Russell County Floodplain Manager and Russell County EMA to inform citizens of flood threats and NFIP.


Vivian Covington
Mayor, Town of Hurtsboro


Date



CITY OF PHENIX CITY 2015 STATEMENT OF PARTICIPATION IN NFIP

Over the past five years the City of Phenix City has undertaken the following activities to mitigate the threat of flood in the community:

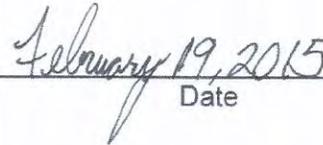
- Passed Ordinance No. 2010-17 to keep people from building or developing within the flood zone.
- Facilitated buyouts of 2 homes that had been flooded.
- Mapped major storm water drainage outfall lines and structures and retention ponds.
- Performed ongoing rehabilitation and maintenance on detention ponds and other storm water infrastructure.
- Worked with Auburn University Department of Crop, Soil, and Environmental sciences to restore Mill Creek and stabilize the banks of Cochgalechee Creek.
- Placed erosion and sediment control information on the City Website and placed NFIP pamphlets in the Engineering Department, the Building Department, and the Chamber of Commerce.

Over the next five years the City of Phenix City intends to complete the following activities to mitigate the threat of flood in the community:

- Continue enforcement of ordinance 2010-17 to prevent development in flood zones.
- Work with Russell County EMA to identify properties that are good candidates for buyouts to avoid repetitive flooding.
- Maintain digital mapping of stormwater infrastructure and detention ponds.
- Perform maintenance along creeks and streams to reduce erosion and flood.
- Work collaboratively with Russell County EMA to inform citizens of flood threats and NFIP.



Wallace B. Hunter
City Manager


Date



The Russell County Commission

1000 Broad Street
P.O. Box 969
Phenix City, Alabama 36868-0969

ADMINISTRATORS:

LeAnn Horne
Administrator

Vickie Perry
Assistant
Administrator

COMMISSIONERS:

Gentry Lee
District 1

Tillman Pugh
District 2

Peggy Martin
District 3

Ronnie Reed
District 4

Cattie J. Epps
District 5

Chance Corbett
District 6

Larry Screws
District 7

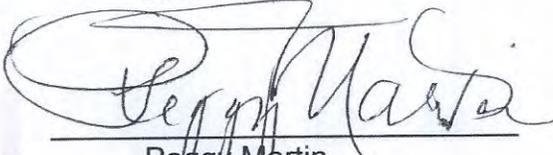
RUSSELL COUNTY COMMISSION 2015 STATEMENT OF PARTICIPATION IN NFIP

Over the past five years the Russell County Commission has undertaken the following activities to mitigate the threat of flood in the community:

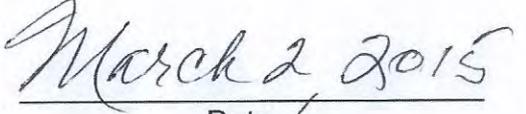
- Maintained a repository of flood hazard data and floodplain management at the County Engineer office
- Revised Subdivision Regulations.
- Installed GIS mapping systems.
- Performed maintenance on creeks, streams, and storm water infrastructure.
- Worked collaboratively with Russell County EMA to inform citizens of flood threats and NFIP

Over the next five years the Russell County Commission intends to complete the following activities to mitigate the threat of flood in the community:

- Maintain a repository of flood hazard data and floodplain management at the County Engineer office
- Continue enforcement of building and subdivision codes to prevent development in flood zones.
- Maintain digital mapping of stormwater infrastructure and detention ponds
- Perform maintenance along creeks and streams to reduce erosion and flood
- Work collaboratively with Russell County EMA to inform citizens of flood threats and NFIP



 Peggy Martin
 Chair, Russell County Commission



 Date