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Appendix A. Hazard Identification, Risk, and Vulnerability (HRV)

Appendix A.I – GEMA Worksheets 3a

GEMA Worksheet #3a **Inventory of Assets**
Jurisdiction: Bacon County and City of Alma
Hazard: Flood

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	Number of Structures			Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	$ in Community or State	$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	9,367	9,367	100.000%	216,227,355	216,227,355	100.000%	11,140	11,140	100%
Commercial	677	677	100.000%	53,117,535	53,117,535	100.000%	0	0	0%
Industrial	108	108	100.000%	15,956,942	15,956,942	100.000%	0	0	0%
Agricultural	3,147	3,147	100.000%	65,291,350	65,291,350	100.000%	0	0	0%
Religious/ Non-profit	151	151	100.000%	40,661,740	40,661,740	100.000%	0	0	0%
Government	251	251	100.000%	78,318,919	78,318,919	100.000%	0	0	0%
Education	7	7	100.000%	767,080	767,080	100.000%	0	0	0%
Utilities	35	35	100.000%	7,618,729	7,618,729	100.000%	0	0	0%
Total	13,743	13,743	100.000%	477,959,650	477,959,650	100.000%	11,140	11,140	100%

Task B. Determine whether (and where) you want to collect additional inventory data.

Y N

1. Do you know where the greatest damages may occur in your area?

2. Do you know whether your critical facilities will be operational after a hazard event?

3. Is there enough data to determine which assets are subject to the greatest potential damages?

4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?

5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?

6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?

7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?

GEMA Worksheet #3a Inventory of Assets

Jurisdiction: Bacon County and City of Alma
Hazard: Thunderstorm/Wind

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	Number of Structures			Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	$ in Community or State	$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	9,367	9,367	100.000%	216,227,355	216,227,355	100.000%	11,140	11,140	100%
Commercial	677	677	100.000%	53,117,535	53,117,535	100.000%	0	0	0%
Industrial	108	108	100.000%	15,956,942	15,956,942	100.000%	0	0	0%
Agricultural	3,147	3,147	100.000%	65,291,350	65,291,350	100.000%	0	0	0%
Religious/ Non-profit	151	151	100.000%	40,661,740	40,661,740	100.000%	0	0	0%
Government	251	251	100.000%	78,318,919	78,318,919	100.000%	0	0	0%
Education	7	7	100.000%	767,080	767,080	100.000%	0	0	0%
Utilities	35	35	100.000%	7,618,729	7,618,729	100.000%	0	0	0%
Total	13,743	13,743	100.000%	477,959,650	477,959,650	100.000%	11,140	11,140	100%

Task B. Determine whether (and where) you want to collect additional inventory data.

Y N

1. Do you know where the greatest damages may occur in your area?

2. Do you know whether your critical facilities will be operational after a hazard event?

3. Is there enough data to determine which assets are subject to the greatest potential damages?

4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?

5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?

6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?

7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?

GEMA Worksheet #3a Inventory of Assets

Jurisdiction: Bacon County and City of Alma
Hazard: Thunderstorm/Wind

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	Number of Structures			Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	$ in Community or State	$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	9,367	9,367	100.000%	216,227,355	216,227,355	100.000%	11,140	11,140	100%
Commercial	677	677	100.000%	53,117,535	53,117,535	100.000%	0	0	0%
Industrial	108	108	100.000%	15,956,942	15,956,942	100.000%	0	0	0%
Agricultural	3,147	3,147	100.000%	65,291,350	65,291,350	100.000%	0	0	0%
Religious/ Non-profit	151	151	100.000%	40,661,740	40,661,740	100.000%	0	0	0%
Government	251	251	100.000%	78,318,919	78,318,919	100.000%	0	0	0%
Education	7	7	100.000%	767,080	767,080	100.000%	0	0	0%
Utilities	35	35	100.000%	7,618,729	7,618,729	100.000%	0	0	0%
Total	13,743	13,743	100.000%	477,959,650	477,959,650	100.000%	11,140	11,140	100%

Task B. Determine whether (and where) you want to collect additional inventory data.

Y N

1. Do you know where the greatest damages may occur in your area?

2. Do you know whether your critical facilities will be operational after a hazard event?

3. Is there enough data to determine which assets are subject to the greatest potential damages?

4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?

5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?

6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?

7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?

GEMA Worksheet #3a Inventory of Assets

Jurisdiction: Bacon County and City of Alma
Hazard: Wildfires

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	Number of Structures			Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	$ in Community or State	$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	9,367	9,367	100.000%	216,227,355	216,227,355	100.000%	11,140	11,140	100%
Commercial	677	677	100.000%	53,117,535	53,117,535	100.000%	0	0	0%
Industrial	108	108	100.000%	15,956,942	15,956,942	100.000%	0	0	0%
Agricultural	3,147	3,147	100.000%	65,291,350	65,291,350	100.000%	0	0	0%
Religious/ Non-profit	151	151	100.000%	40,661,740	40,661,740	100.000%	0	0	0%
Government	251	251	100.000%	78,318,919	78,318,919	100.000%	0	0	0%
Education	7	7	100.000%	767,080	767,080	100.000%	0	0	0%
Utilities	35	35	100.000%	7,618,729	7,618,729	100.000%	0	0	0%
Total	13,743	13,743	100.000%	477,959,650	477,959,650	100.000%	11,140	11,140	100%

Task B. Determine whether (and where) you want to collect additional inventory data.

Y N

1. Do you know where the greatest damages may occur in your area?

2. Do you know whether your critical facilities will be operational after a hazard event?

3. Is there enough data to determine which assets are subject to the greatest potential damages?

4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?

5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?

6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?

7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?

GEMA Worksheet #3a Inventory of Assets

Jurisdiction: Bacon County and City of Alma
Hazard: Drought

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	Number of Structures			Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	$ in Community or State	$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	9,367	9,367	100.000%	216,227,355	216,227,355	100.000%	11,140	11,140	100%
Commercial	677	677	100.000%	53,117,535	53,117,535	100.000%	0	0	0%
Industrial	108	108	100.000%	15,956,942	15,956,942	100.000%	0	0	0%
Agricultural	3,147	3,147	100.000%	65,291,350	65,291,350	100.000%	0	0	0%
Religious/ Non-profit	151	151	100.000%	40,661,740	40,661,740	100.000%	0	0	0%
Government	251	251	100.000%	78,318,919	78,318,919	100.000%	0	0	0%
Education	7	7	100.000%	767,080	767,080	100.000%	0	0	0%
Utilities	35	35	100.000%	7,618,729	7,618,729	100.000%	0	0	0%
Total	13,743	13,743	100.000%	477,959,650	477,959,650	100.000%	11,140	11,140	100%

Task B. Determine whether (and where) you want to collect additional inventory data.

	Y	N
1. Do you know where the greatest damages may occur in your area?		
2. Do you know whether your critical facilities will be operational after a hazard event?		
3. Is there enough data to determine which assets are subject to the greatest potential damages?		
4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?		
5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?		
6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?		
7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?		

GEMA Worksheet #3a Inventory of Assets

Jurisdiction: Bacon County and City of Alma
Hazard: Tornado

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	Number of Structures			Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	$ in Community or State	$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	9,367	9,367	100.000%	216,227,355	216,227,355	100.000%	11,140	11,140	100%
Commercial	677	677	100.000%	53,117,535	53,117,535	100.000%	0	0	0%
Industrial	108	108	100.000%	15,956,942	15,956,942	100.000%	0	0	0%
Agricultural	3,147	3,147	100.000%	65,291,350	65,291,350	100.000%	0	0	0%
Religious/ Non-profit	151	151	100.000%	40,661,740	40,661,740	100.000%	0	0	0%
Government	251	251	100.000%	78,318,919	78,318,919	100.000%	0	0	0%
Education	7	7	100.000%	767,080	767,080	100.000%	0	0	0%
Utilities	35	35	100.000%	7,618,729	7,618,729	100.000%	0	0	0%
Total	13,743	13,743	100.000%	477,969,650	477,969,650	100.000%	11,140	11,140	100%

Task B. Determine whether (and where) you want to collect additional inventory data.

Y N

1. Do you know where the greatest damages may occur in your area?

2. Do you know whether your critical facilities will be operational after a hazard event?

3. Is there enough data to determine which assets are subject to the greatest potential damages?

4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?

5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?

6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?

7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?

GEMA Worksheet #3a Inventory of Assets

Jurisdiction: Bacon County and City of Alma
Hazard: Hurricane/Tropical Storm

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	Number of Structures			Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	$ in Community or State	$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	9,367	9,367	100.000%	216,227,355	216,227,355	100.000%	11,140	11,140	100%
Commercial	677	677	100.000%	53,117,535	53,117,535	100.000%	0	0	0%
Industrial	108	108	100.000%	15,956,942	15,956,942	100.000%	0	0	0%
Agricultural	3,147	3,147	100.000%	65,291,350	65,291,350	100.000%	0	0	0%
Religious/ Non-profit	151	151	100.000%	40,661,740	40,661,740	100.000%	0	0	0%
Government	251	251	100.000%	78,318,919	78,318,919	100.000%	0	0	0%
Education	7	7	100.000%	767,080	767,080	100.000%	0	0	0%
Utilities	35	35	100.000%	7,618,729	7,618,729	100.000%	0	0	0%
Total	13,743	13,743	100.000%	477,959,650	477,959,650	100.000%	11,140	11,140	100%

Task B. Determine whether (and where) you want to collect additional inventory data.

Y N

1. Do you know where the greatest damages may occur in your area?

2. Do you know whether your critical facilities will be operational after a hazard event?

3. Is there enough data to determine which assets are subject to the greatest potential damages?

4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?

5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?

6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?

7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?

GEMA Worksheet #3a Inventory of Assets

Jurisdiction: Bacon County and City of Alma
Hazard: Hail

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	Number of Structures			Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	$ in Community or State	$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	9,367	9,367	100.000%	216,227,355	216,227,355	100.000%	11,140	11,140	100%
Commercial	677	677	100.000%	53,117,535	53,117,535	100.000%	0	0	0%
Industrial	108	108	100.000%	15,956,942	15,956,942	100.000%	0	0	0%
Agricultural	3,147	3,147	100.000%	65,291,350	65,291,350	100.000%	0	0	0%
Religious/ Non-profit	151	151	100.000%	40,661,740	40,661,740	100.000%	0	0	0%
Government	251	251	100.000%	78,318,919	78,318,919	100.000%	0	0	0%
Education	7	7	100.000%	767,080	767,080	100.000%	0	0	0%
Utilities	35	35	100.000%	7,618,729	7,618,729	100.000%	0	0	0%
Total	13,743	13,743	100.000%	477,959,650	477,959,650	100.000%	11,140	11,140	100%

Task B. Determine whether (and where) you want to collect additional inventory data.

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2. Do you know whether your critical facilities will be operational after a hazard event?

3. Is there enough data to determine which assets are subject to the greatest potential damages?

4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?

5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?

6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?

7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?

GEMA Worksheet #3a Inventory of Assets

Jurisdiction: Bacon County and City of Alma
Hazard: Severe Winter Storm

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	Number of Structures			Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	$ in Community or State	$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	9,367	9,367	100.000%	216,227,355	216,227,355	100.000%	11,140	11,140	100%
Commercial	677	677	100.000%	53,117,535	53,117,535	100.000%	0	0	0%
Industrial	108	108	100.000%	15,956,942	15,956,942	100.000%	0	0	0%
Agricultural	3,147	3,147	100.000%	65,291,350	65,291,350	100.000%	0	0	0%
Religious/ Non-profit	151	151	100.000%	40,661,740	40,661,740	100.000%	0	0	0%
Government	251	251	100.000%	78,318,919	78,318,919	100.000%	0	0	0%
Education	7	7	100.000%	767,080	767,080	100.000%	0	0	0%
Utilities	35	35	100.000%	7,618,729	7,618,729	100.000%	0	0	0%
Total	13,743	13,743	100.000%	477,959,650	477,959,650	100.000%	11,140	11,140	100%

Task B. Determine whether (and where) you want to collect additional inventory data.

Y N

1. Do you know where the greatest damages may occur in your area?

2. Do you know whether your critical facilities will be operational after a hazard event?

3. Is there enough data to determine which assets are subject to the greatest potential damages?

4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?

5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?

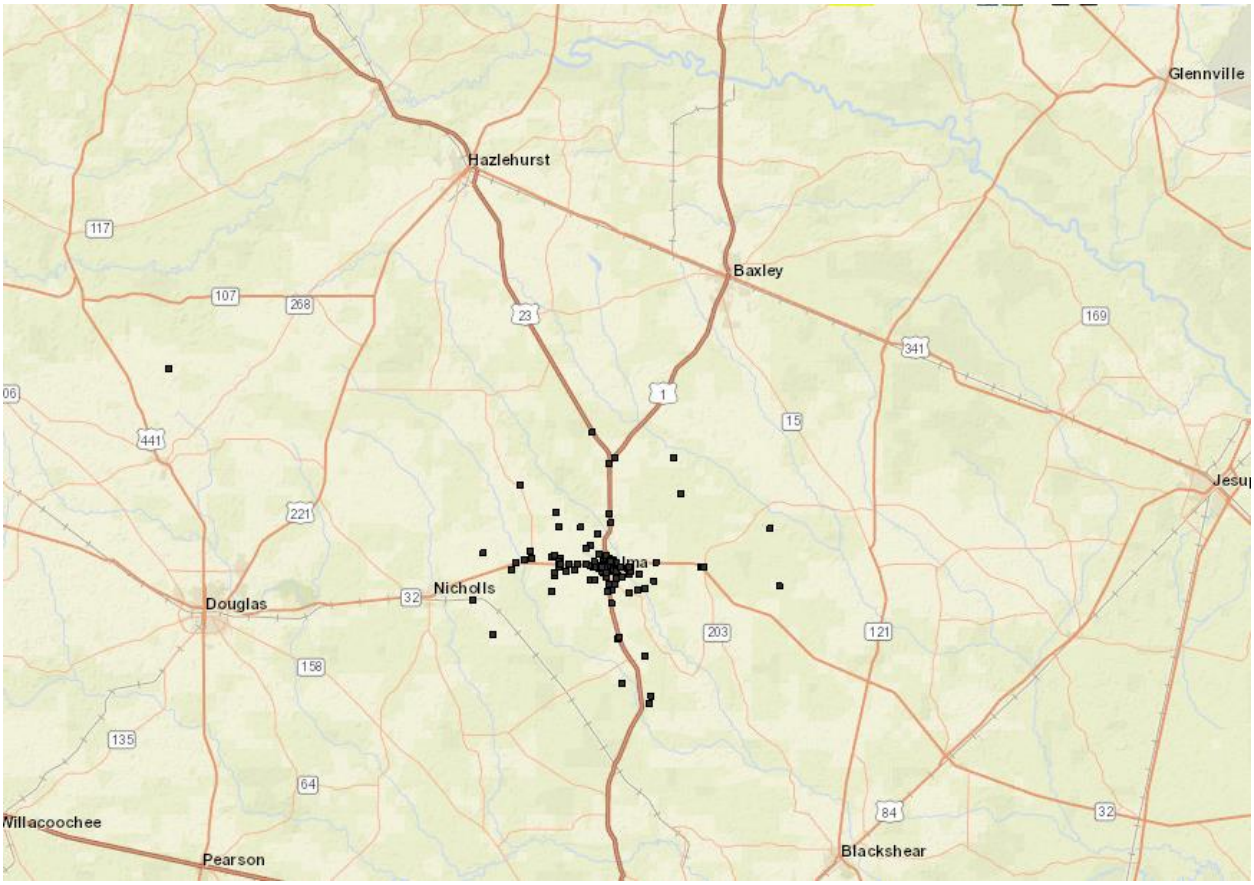
6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?

7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?

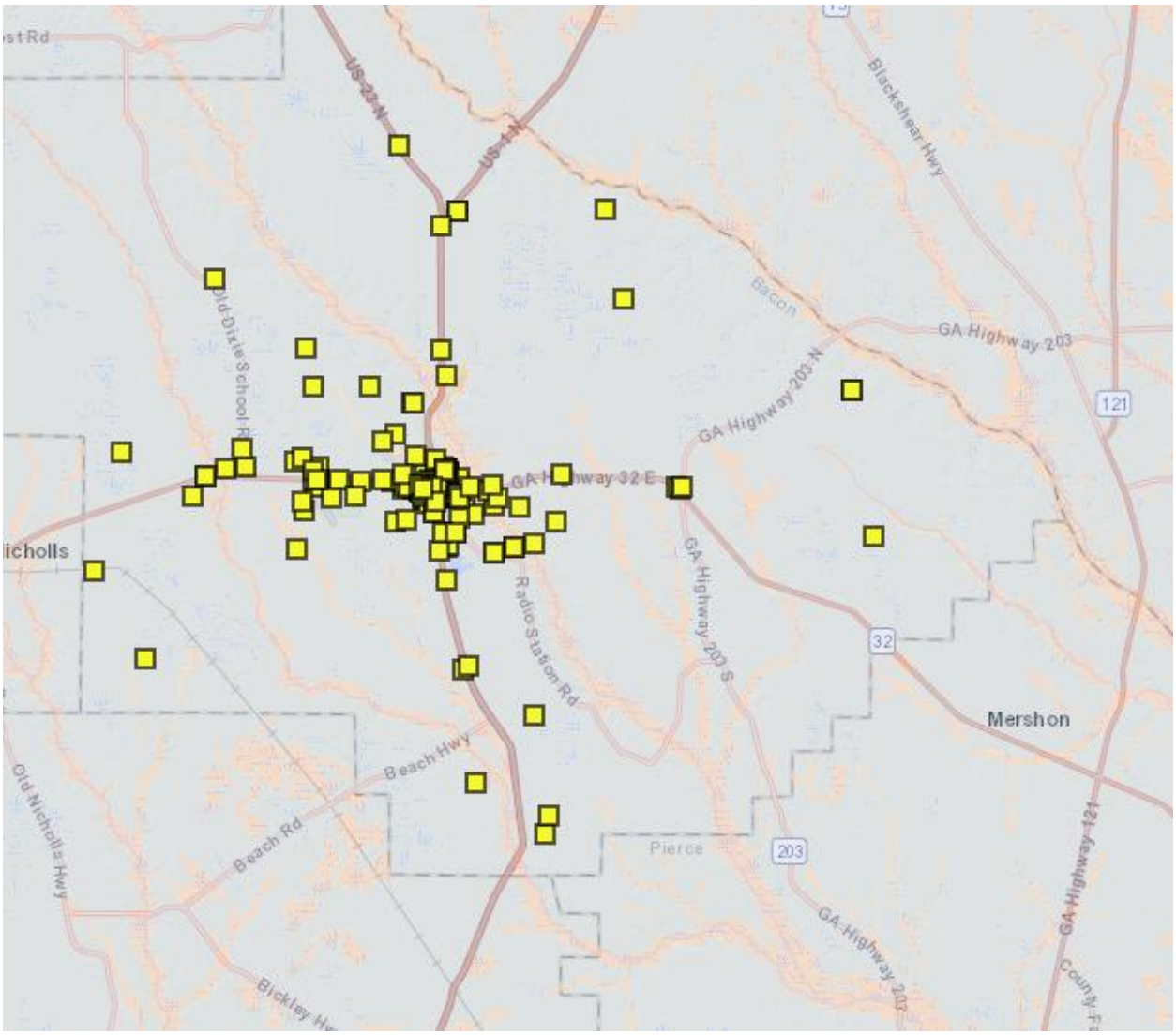
Appendix A.II – GMIS Critical Facilities Maps

Bacon County Critical Facilities

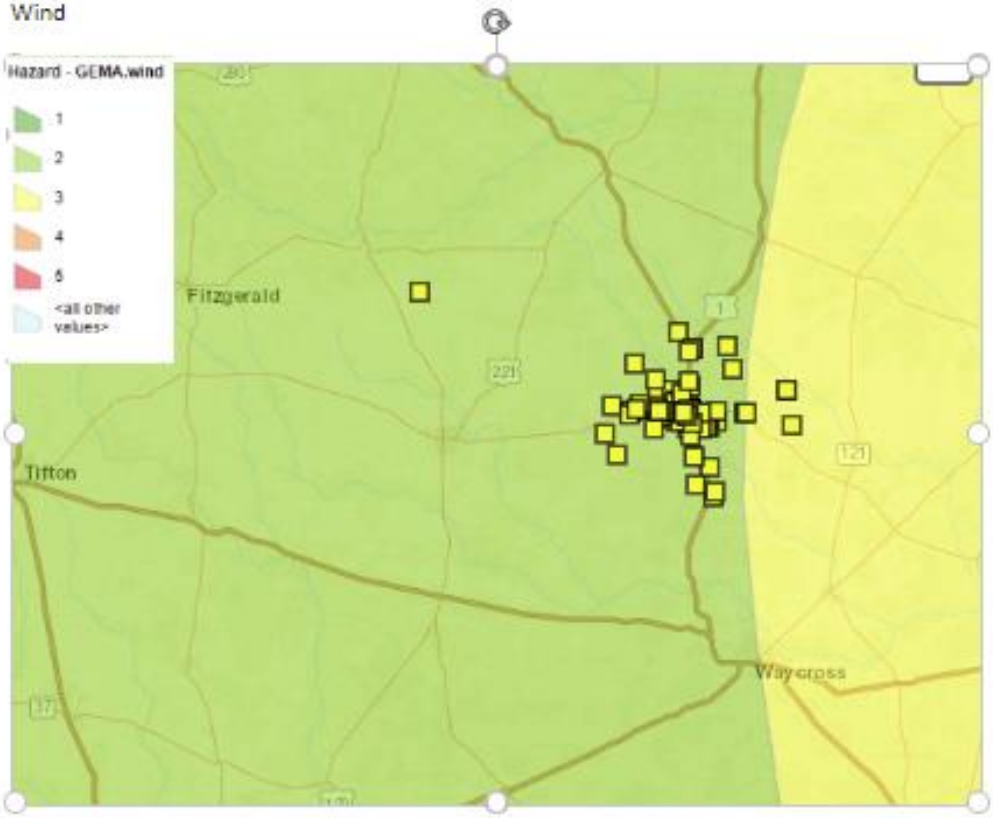
Critical Facilities



Flood


US-23-N
US-441
Blackshear Hwy
Bacon
GA Highway 203
GA Highway 203 N
121
GA Highway 32 E
Radio Station Rd
GA Highway 203 S
32
Mershon
Beach Hwy
Beach Rd
Old Nicholls Hwy
Pierce
203
GA Highway 203
GA Highway 121

Wind


Hazard - GEMA.wind
1
2
3
4
5
<all other values>
Fitzgerald
Tifton
Waycross
221
1
121
17

Appendix A.III – Maximum Envelope of Wind maps

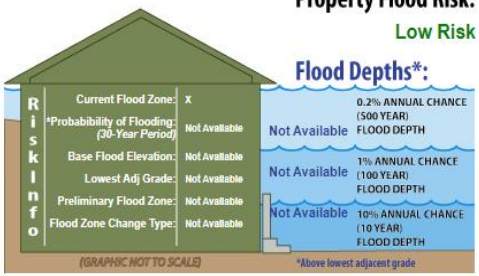
31510, Alma, Georgia

Legend with Flood Zone Designations

- Flood Control Structures
- Base Flood Elevations
- Cross Sections
- Coastal Transects
- FIRM Panel Index
- 1% Flood - Floodway (High Risk)
- 1% Flood - Zone AE (High Risk)
- 1% Flood - Zone A, AH, or AO (HighRisk)
- 0.2% Flood - X-Shaded (Moderate Risk)
- Area of Undertermined Flood Hazard
- 1% Flood - Zone VE (HighRisk)
- Area Not Included
- Letters of Map Revision
- Coastal Barrier Resource Area
- Limit of Moderate Wave Action
- Floodway Decrease
- Floodway Increase
- 100-Year Flood Zone Decrease
- 100-Year Flood Zone Increase
- Zone Change

GEORGIA
FLOOD MAP PROGRAM

Property Flood Risk:
Low Risk



Location Information

Panel:	13005C0150C
Watershed:	Satilla
County:	BACON
Community ID:	13005C
Map Status:	EFFECTIVE

* Flood Depths shown on this report are derived from FEMA RiskMAP products and are rounded to the nearest tenth of a foot. These depths are calculated from HEC-RAS modeling and represent the best available data. Only areas within a RiskMAP studied watershed will have this data available. Please check back if your area is not currently available. For more information, please visit the FEMA Map Service Center at https://msc.fema.gov/portal/resources/faq

Nature Doesn't Read Flood Maps

Many people don't understand just how risky the floodplain can be. There is a greater than 26% chance that a non-elevated home in the SFHA will be flooded during a 30-year mortgage period.

The chance that a major fire will occur during the same period is less than 10%!

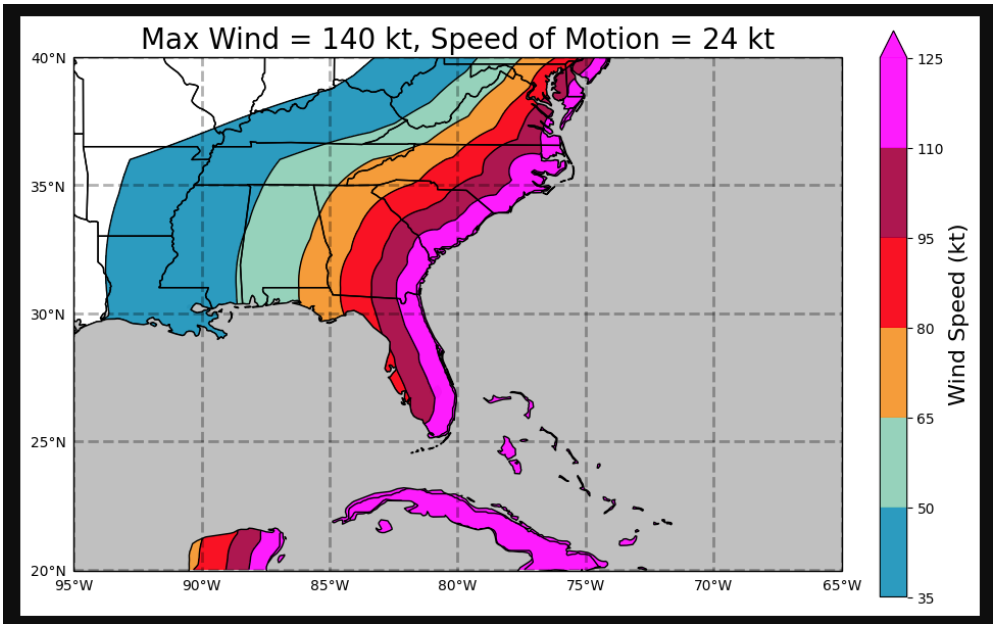
FOR MORE INFORMATION VISIT, PLEASE VISIT: FloodSmart.gov

Examples of the Maximum Envelope of Wind

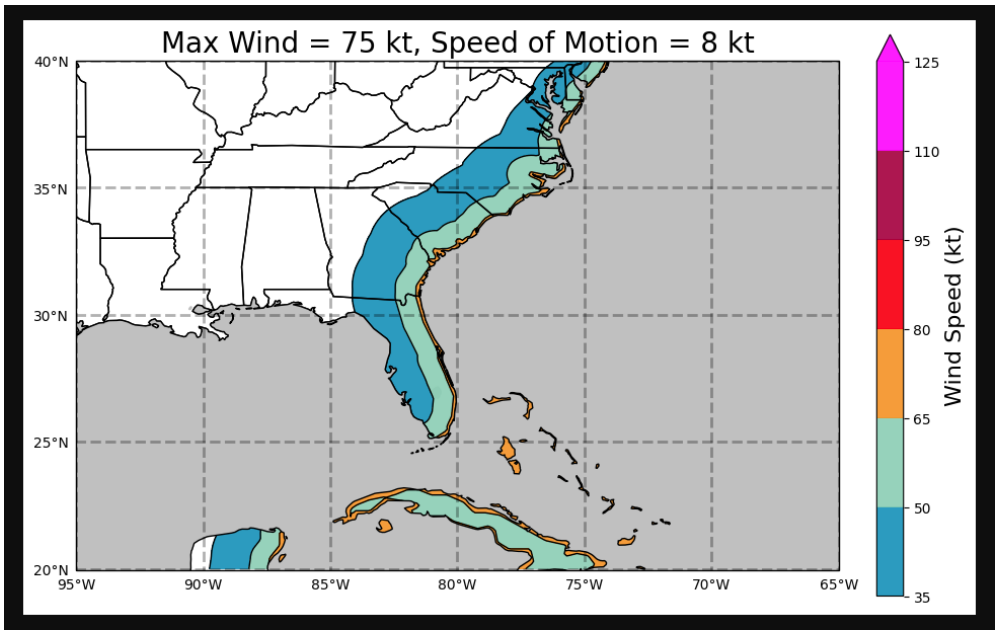
(Source: NOAA. http://www.nhc.noaa.gov/aboutmeow.shtml)

(Category 1, 8 knots forward motion)

Gulf Coast

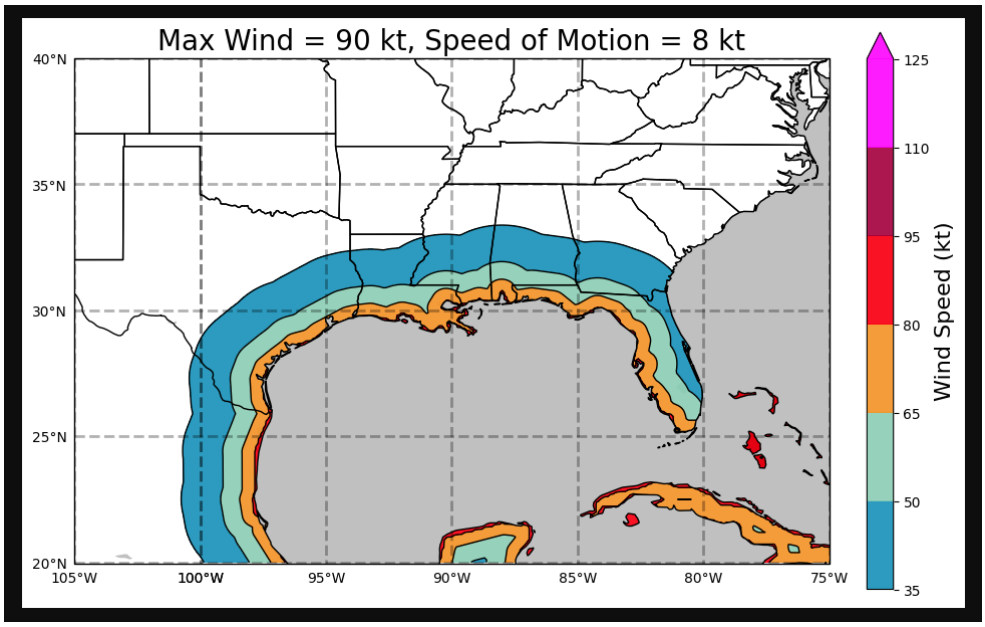


East Coast

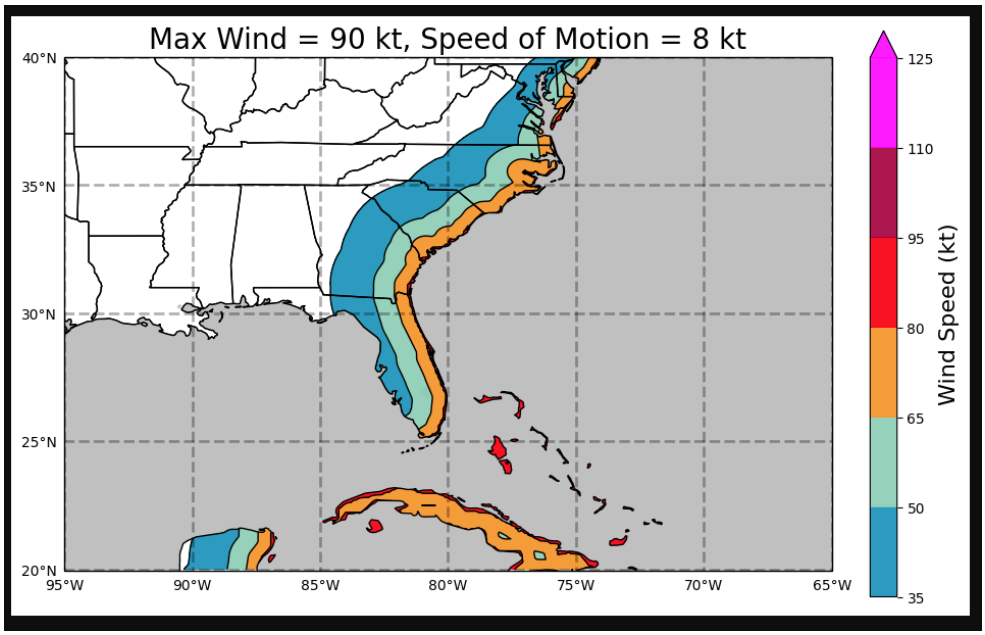


(Category 2, 8 knots forward motion)

Gulf Coast

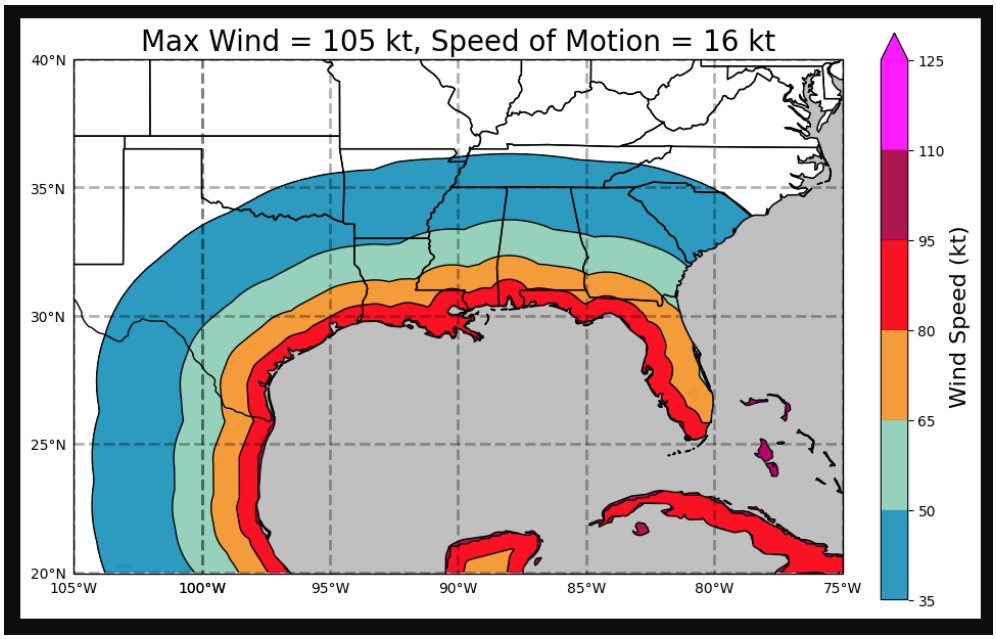


East Coast

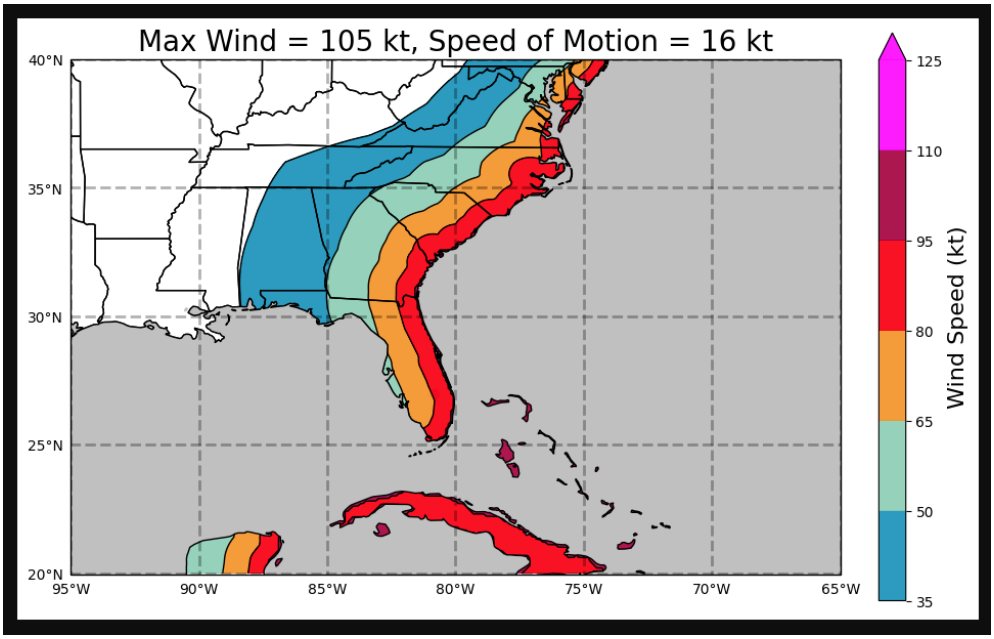


(Category 3, 16 knots forward motion)

Gulf Coast

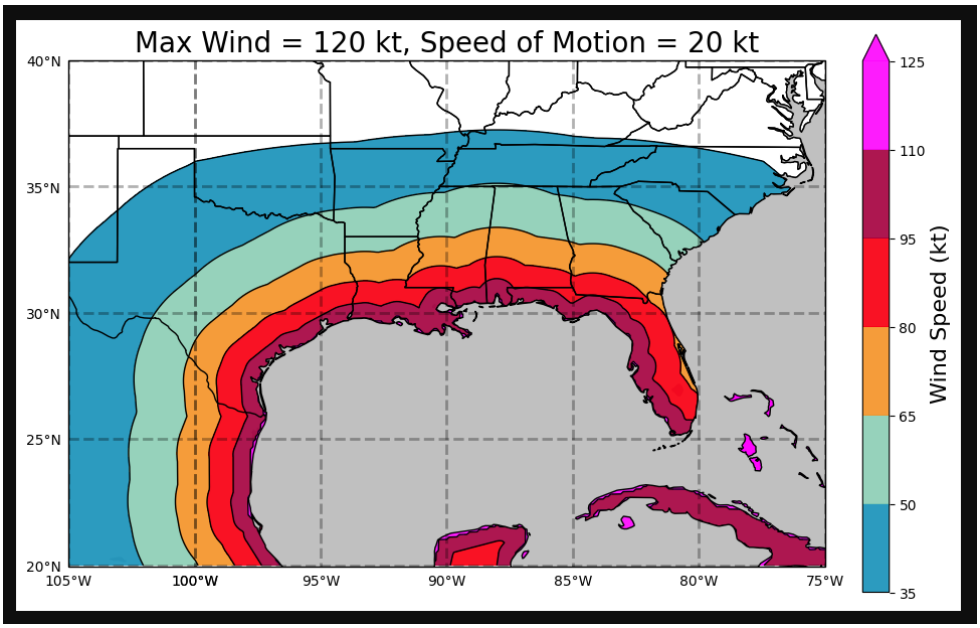


East Coast

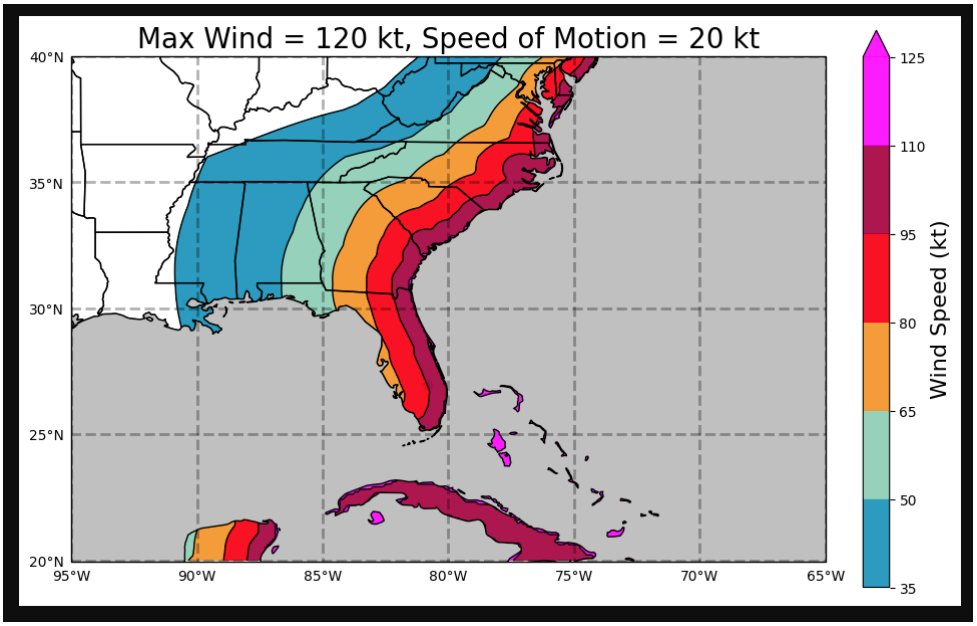


(Category 4, 20 knots, forward motion)

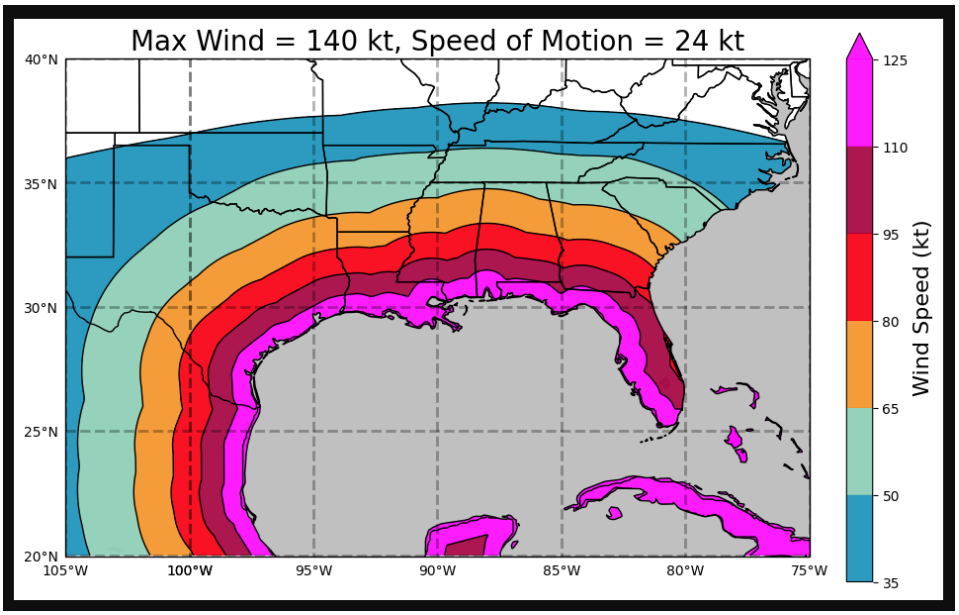
Gulf Coast



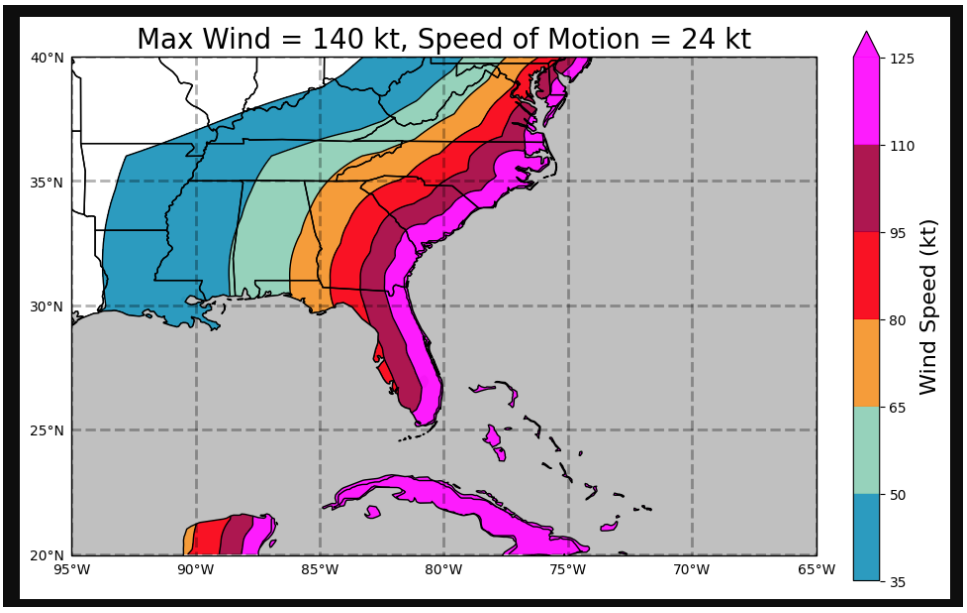
East Coast



(Category 5, 24 knots, forward motion)

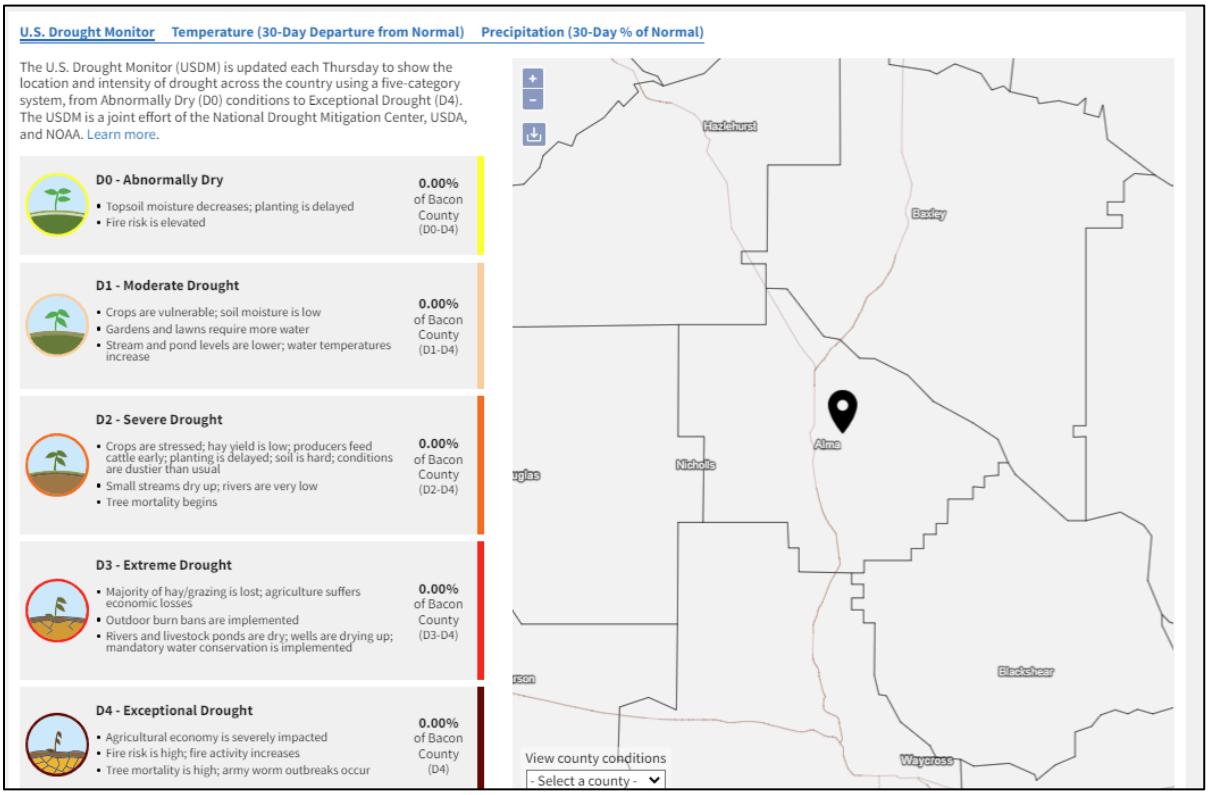


East Coast



Appendix A.IV – Drought Monitor Maps

September 16, 2022



Current U.S. Drought Monitor Conditions for Georgia

Get Alerts When Local Conditions Change

Current | Last Week | Last Month

The U.S. Drought Monitor (USDM) is updated each Thursday to show the location and intensity of drought across the country. This map shows drought conditions across Georgia using a five-category system, from Abnormally Dry (D0) conditions to Exceptional Drought (D4). The USDM is a joint effort of the National Drought Mitigation Center, USDA, and NOAA. Learn more.

The following state-specific drought impacts were compiled by the National Drought Mitigation Center. While these impacts are not exhaustive, they can help provide a clearer picture of drought in Georgia.

D0 - Abnormally Dry
- Topsoil moisture decreases; planting is delayed
- Fire risk is elevated

0.0% of GA (D0–D4)

D1 - Moderate Drought
- Crops are vulnerable; soil moisture is low
- Gardens and lawns require more water
- Stream and pond levels are lower; water temperatures increase

0.0% of GA (D1–D4)

D2 - Severe Drought
- Crops are stressed; hay yield is low; producers feed cattle early; planting is delayed; soil is hard; conditions are dustier than usual
- Small streams dry up; rivers are very low
- Tree mortality begins

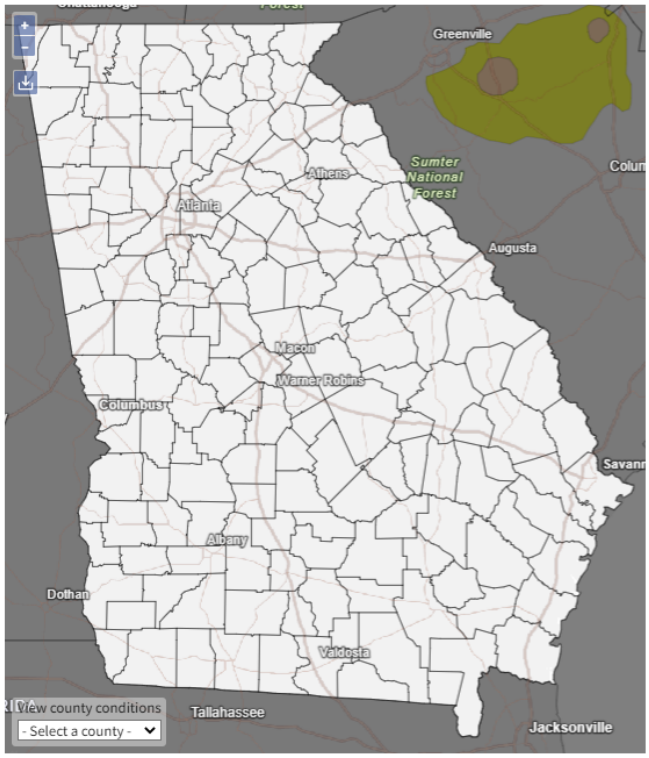
0.0% of GA (D2–D4)

D3 - Extreme Drought
- Majority of hay/grazing is lost; agriculture suffers economic losses
- Outdoor burn bans are implemented
- Rivers and livestock ponds are dry; wells are drying up; mandatory water conservation is implemented

0% of GA (D3–D4)

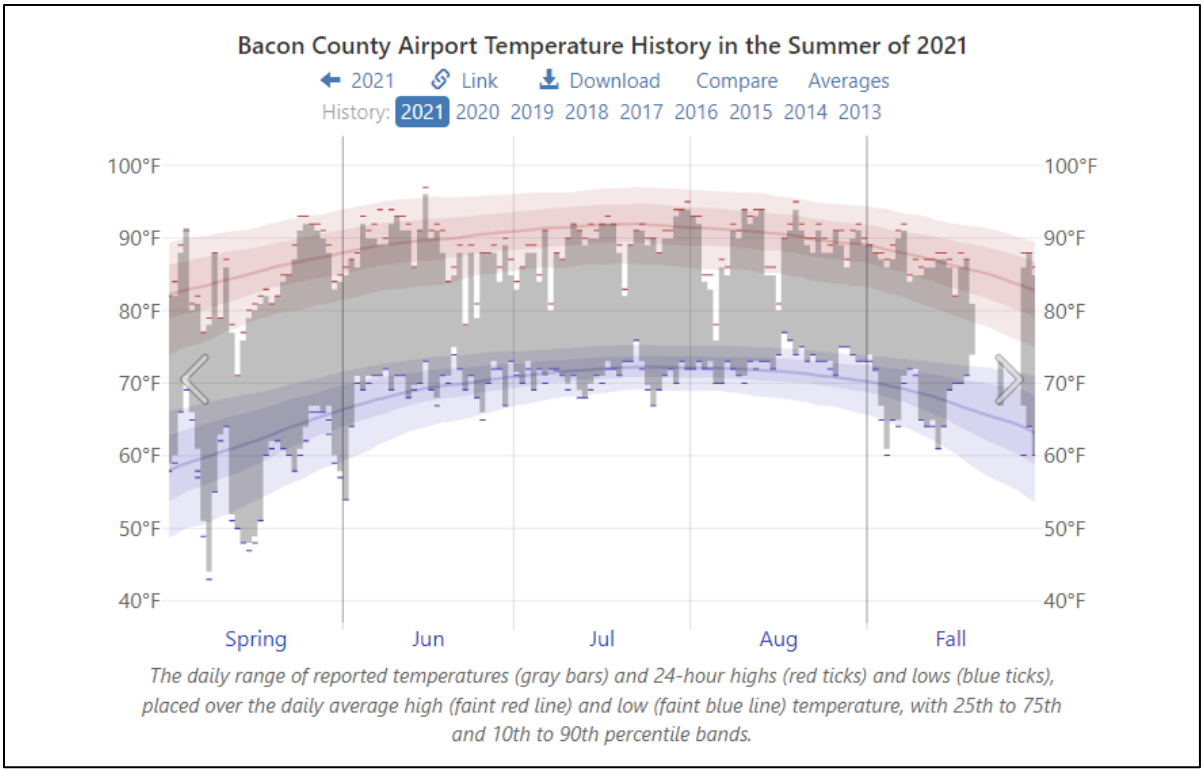
D4 - Exceptional Drought
- Agricultural economy is severely impacted
- Fire risk is high; fire activity increases
- Tree mortality is high; army worm outbreaks occur

0% of GA (D4)



Source(s): NDMC, NOAA, USDA

Updates Weekly - 09/13/22



The daily range of reported temperatures (gray bars) and 24-hour highs (red ticks) and lows (blue ticks), placed over the daily average high (faint red line) and low (faint blue line) temperature, with 25th to 75th and 10th to 90th percentile bands.

Appendix B. Growth and Development

Appendix B.I – Census Demographic Summary

QuickFacts
Bacon County, Georgia; United States

What's New & FAQs >

QuickFacts provides statistics for all states and counties, and for cities and towns with a *population of 5,000 or more.*

Enter state, county, city, town, or zip code | -- Select a fact -- | CLEAR | TABLE | MAP | CHART | DASHBOARD | MORE

Table

All Topics	Bacon County, Georgia	United States
Population Estimates, July 1 2021, (V2021)	**11,079**	**331,893,745**
PEOPLE		
Population		
Population Estimates, July 1 2021, (V2021)	**11,079**	**331,893,745**
Population estimates base, April 1, 2020, (V2021)	11,140	331,449,281
Population, percent change - April 1, 2020 (estimates base) to July 1, 2021, (V2021)	-0.5%	0.1%
Population, Census, April 1, 2020	11,140	331,449,281
Population, Census, April 1, 2010	11,096	308,745,538
Age and Sex		
Persons under 5 years, percent	6.7%	5.7%
Persons under 18 years, percent	25.4%	22.2%
Persons 65 years and over, percent	17.2%	16.8%
Female persons, percent	51.2%	50.5%
Race and Hispanic Origin		
White alone, percent	80.0%	75.8%
Black or African American alone, percent (a)	16.4%	13.6%
American Indian and Alaska Native alone, percent (a)	0.5%	1.3%
Asian alone, percent (a)	0.8%	6.1%
Native Hawaiian and Other Pacific Islander alone, percent (a)	0.1%	0.3%
Two or More Races, percent	2.1%	2.9%
Hispanic or Latino, percent (b)	8.8%	18.9%
White alone, not Hispanic or Latino, percent	72.7%	59.3%
Population Characteristics		
Veterans, 2016-2020	575	17,835,456
Foreign born persons, percent, 2016-2020	2.7%	13.5%
Housing		
Housing units, July 1, 2021, (V2021)	4,821	142,153,010
Owner-occupied housing unit rate, 2016-2020	74.6%	64.4%
Median value of owner-occupied housing units, 2016-2020	$82,300	$229,800
Median selected monthly owner costs -with a mortgage, 2016-2020	$869	$1,621
Median selected monthly owner costs -without a mortgage, 2016-2020	$325	$509
Median gross rent, 2016-2020	$534	$1,096
Building permits, 2021	0	1,736,982
Families & Living Arrangements		
Households, 2016-2020	3,743	122,354,219
Persons per household, 2016-2020	2.76	2.60
Living in same house 1 year ago, percent of persons age 1 year+, 2016-2020	91.3%	86.2%
Language other than English spoken at home, percent of persons age 5 years+, 2016-2020	7.0%	21.5%

Computer and Internet Use		
Households with a computer, percent, 2016-2020	83.3%	91.9%
Households with a broadband Internet subscription, percent, 2016-2020	73.0%	85.2%
Education		
High school graduate or higher, percent of persons age 25 years+, 2016-2020	82.4%	88.5%
Bachelor's degree or higher, percent of persons age 25 years+, 2016-2020	9.3%	32.9%
Health		
With a disability, under age 65 years, percent, 2016-2020	13.2%	8.7%
Persons without health insurance, under age 65 years, percent	⚠ 18.6%	⚠ 9.8%
Economy		
In civilian labor force, total, percent of population age 16 years+, 2016-2020	50.3%	63.0%
In civilian labor force, female, percent of population age 16 years+, 2016-2020	49.3%	58.4%
Total accommodation and food services sales, 2017 ($1,000) (c)	D	938,237,077
Total health care and social assistance receipts/revenue, 2017 ($1,000) (c)	44,662	2,527,903,275
Total transportation and warehousing receipts/revenue, 2017 ($1,000) (c)	14,594	895,225,411
Total retail sales, 2017 ($1,000) (c)	81,214	4,949,601,481
Total retail sales per capita, 2017 (c)	$7,249	$15,224
Transportation		
Mean travel time to work (minutes), workers age 16 years+, 2016-2020	22.0	26.9
Income & Poverty		
Median household income (in 2020 dollars), 2016-2020	$36,692	$64,994
Per capita income in past 12 months (in 2020 dollars), 2016-2020	$19,882	$35,384
Persons in poverty, percent	⚠ 21.1%	⚠ 11.6%

BUSINESSES

Businesses		
Total employer establishments, 2020	232	8,000,178
Total employment, 2020	3,223	134,163,349
Total annual payroll, 2020 ($1,000)	110,484	7,564,809,878
Total employment, percent change, 2019-2020	-1.7%	0.9%
Total nonemployer establishments, 2019	612	27,104,006
All employer firms, Reference year 2017	288	5,744,643
Men-owned employer firms, Reference year 2017	187	3,480,438
Women-owned employer firms, Reference year 2017	S	1,134,549
Minority-owned employer firms, Reference year 2017	S	1,014,958
Nonminority-owned employer firms, Reference year 2017	262	4,371,152
Veteran-owned employer firms, Reference year 2017	S	351,237
Nonveteran-owned employer firms, Reference year 2017	259	4,968,606

GEOGRAPHY

Geography		
Population per square mile, 2020	39.2	93.8
Population per square mile, 2010	42.9	87.4
Land area in square miles, 2020	284.08	3,533,038.28
Land area in square miles, 2010	258.58	3,531,905.43
FIPS Code	13005	1

Appendix B.III – Tax Digest

Year: 2021 | County: BACON | BACON COUNTY | District: | Print Consolidation Sheet

GEORGIA DEPARTMENT OF REVENUE
Local Government Services Division
County Digest Section

2021 TAX DIGEST CONSOLIDATED SUMMARY

County:BACON County #:003 Tax District:BACON COUNTY
Dist #: 00 Assessment %: 040 Tot Parcels:6167

AGRICULTURAL

Code	Count	Acres	40% Value
A1	2,139		19,992,123
A3	1	21.93	30,680
A4	301	2,950.19	2,972,351
A5	605	40,498.26	24,723,394
A6	933		3,502,987
A7			
A9	2	0	11,280
AA	1		2,960
AB	1		1,560
AF	2		51,395
AI			
AZ	1		7,339

BROWNFIELD PROPERTY

Code	Count	Acres	40% Value
B1			
B3			
B4			
B5			
B6			

COMMERCIAL

Code	Count	Acres	40% Value
C1	652		15,392,323
C3	232	230.72	2,988,138
C4	80	514.87	1,335,960
C5	5	250.75	289,920
C7			
C9			
CA	2		33,160
CB	4		2,307
CF	340		16,178,854
CI	135		3,186,460
CP	1		327,488
CZ			

FLPA FAIR MARKET ASSMT

Code	Count	Acres	40% Value
F3			
F4			
F5	46	14,775.49	4,461,979
F9			

CONSERVATION USE

Code	Count	Acres	40% Value
V3			
V4	245	4,385.45	4,183,524
V5	898	98,448.08	69,602,331
V6	14		110,492

ENVIRONMENTALLY SENSITIVE

Code	Count	Acres	40% Value
W3			
W4			
W5			

PROPERTY EXEMPTIONS

Code	Count	M&O	Bond
SA	24	465,410	
SB	0	0	
SF	8	7,493,267	
SH	0	0	
SJ	46	3,132,807	
SP	143	159,497	
SN	124	0	
ST	0	0	
SV	1,143	50,792,194	
SW	0	0	
SX			

STATE HOMESTEAD EXEMPTIONS

S1	1,404	2,808,000	
S3	47	94,000	
S4	340	1,360,000	
S5	37	1,622,475	
S6			
S7			
S8			
S9			
SC	2	4,000	
SD	0	0	
SE	0	0	
SG	0	0	
SS	5	120,475	

LOCAL HOMESTEAD EXEMPTIONS

L1			
L2			

Total	46	14,775.49	4,461,979

HISTORIC

Code	Count	Acres	40% Value
H1			
H3			

INDUSTRIAL

Code	Count	Acres	40% Value
I1	90		5,696,874
I3			
I4	18	144.18	371,200
I5	3	161.09	257,280
I7			
I9	1	0	800
IA			
IB			
IF	12		7,314,304
L3			
L4			
L5			
L6			
L7			
L8			
L9			

TOTAL	3,323	68,052,125	0

EXEMPT PROPERTY

Code	Count	40% Value
E0	1	1,331,316
E1	355	31,805,786
E2	213	5,308,168
E3	18	259,597
E4	21	124,296
E5	46	10,139,036

Year: 2021 | County: BACON | District: ALMA | Print Consolidation Sheet

GEORGIA DEPARTMENT OF REVENUE
Local Government Services Division
County Digest Section

2021 TAX DIGEST CONSOLIDATED SUMMARY

County:BACON County #:003 Tax District:ALMA
Dist #: 05 Assessment %: 040 Tot Parcels:1517

AGRICULTURAL

Code	Count	Acres	40% Value
A1	15		307,985
A3			
A4	8	27.65	51,240
A5	6	99.28	121,360
A6	9		26,992
A7			
A9			
AA			
AB			
AF			
AI			
AZ			

BROWNFIELD PROPERTY

Code	Count	Acres	40% Value
B1			
B3			
B4			
B5			
B6			

COMMERCIAL

Code	Count	Acres	40% Value
C1	493		13,073,006
C3	221	213.48	2,933,418
C4	35	144.78	848,640
C5	2	20.7	59,440
C7			
C9			
CA	1		9,160
CB	2		427
CF	225		7,584,561
CI	107		2,880,117
CP			

CONSERVATION USE

Code	Count	Acres	40% Value
V3			
V4	12	191.53	232,960
V5	5	274.54	248,880
V6			

ENVIRONMENTALLY SENSITIVE

Code	Count	Acres	40% Value
W3			
W4			
W5			

PROPERTY EXEMPTIONS

Code	Count	M&O	Bond
SA	0	0	
SB	0	0	
SF	5	4,621,863	
SH	0	0	
SJ	0	0	
SP	95	99,750	
SN	96	0	
ST	0	0	
SV	17	371,016	
SW	0	0	
SX			

STATE HOMESTEAD EXEMPTIONS

S1			
S3			
S4			
S5	11	546,632	
S6			
S7			
S8			
S9			
SC			

CP			
CZ			

FLPA FAIR MARKET ASSMT

Code	Count	Acres	40% Value
F3			
F4			
F5			
F9			

SC		
SD	0	0
SE	0	0
SG	0	0
SS	4	108,204

LOCAL HOMESTEAD EXEMPTIONS

L1	
L2	
L3	
L4	
L5	
L6	
L7	
L8	
L9	

TOTAL	228	5,747,465	0

Total

HISTORIC

Code	Count	Acres	40% Value
H1			
H3			

INDUSTRIAL

Code	Count	Acres	40% Value
I1	53		2,542,368
I3			
I4	13	111.73	285,320
I5	2	71.91	188,560
I7			
I9	1	0	800
IA			
IB			
IF	6		2,973,707

EXEMPT PROPERTY

Code	Count	40% Value
E0	1	1,331,316
E1	272	18,931,672
E2	85	2,769,790
E3	9	127,178
E4	2	32,520
E5	46	10,139,036

Appendix C.1 – 2023 Comprehensive Plan Community Work Program

Bacon County and the City of Alma Community Work Program (2023 - 2027)

PROJECTS	ESTIMATED COST	RESPONSIBLE PARTY	FUNDING SOURCE	GOAL	FY 23	FY 24	FY 25	FY 26	FY 27
1. ECONOMIC DEVELOPMENT									
Complete streetscape project on West 12th Street (between Church Street to Pierce Street, to help improve the downtown area and continue project in other areas	$750,000	City of Alma, GDOT	City of Alma, grants, GDOT	1	x	x	x		
Develop programs in conjunction with other agencies to market the area to expand the business base for economic development purposes	$10,000	Development Authority	Local, Private	1	x	x	x		
Develop programs in conjunction with other agencies to pursue academic excellence and workforce development (including ESL programs) for economic development purposes	$150,000	Development Authority, Coastal Pines, Board of Education, Family Connection	Federal, State, Local	1		x	x	x	
Develop programs and scholarships for "soft skills" training, family living, and other life skills to prepare students for success in the workforce	$150,000	Development Authority, Coastal Pines, BO Board of Education E, Family Connection	Federal, State, Local	1	x	x	x		
Continue to upgrade industrial park infrastructure to support new and expanding industries to foster job creation and private investment	$2 Million	Development Authority, Bacon County, City of Alma	Federal, State, Local, USDA, other grants/loans	1	x	x	x	x	x
Continue to support the Youth Empowerment Program (including drug prevention) and the construction of a facility to train and encourage area youth to start new businesses as a career option	$500,000	Development Authority, Bacon County, City of Alma	Federal, State, Grants, Local, Private	1	x	x	x	x	
Incorporate a Proactive Growth Plan for the City and County	$10,000	Development Authority, Bacon County, City of Alma, nonprofits	Federal, State, Local, Private	1	x	x			

2. CULTURAL RESOURCES										
Seek funding to prepare a historical resource survey for existing buildings	$5,000	City of Alma	General Fund Grants	2	x	x	x		
Seek funding for rehabilitation of historic buildings, such as the Welcome Center, Old Alma Hotel	$1,000,000	City of Alma	General Fund Grants	2			x	x	x
3. NATURAL RESOURCES										
Continue to advertise, teach and encourage best management practices	$25,000	County Extension Agent	UGA, DCA, Local	3	x	x	x	x	x
4. COMMUNITY FACILITIES & SERVICES										
Continue with efforts to provide adequate infrastructure for industrial and residential development	$1 million	Development Authority Bacon County, City of Alma	Federal, State, Local, Private CDBG	4	x	x	x	x	x
Improve wastewater treatment capacity	$6 million	City of Alma, Bacon County	Federal, State, Local Grants CDBG	4	x	x	x	x	x
Continue to support the construction of a 300-acre fishing lake for economic development purposes	$8 million	Development Authority, Bacon County, DNR	DNR, Local	4	x	x	x	x	x
Acquire land (10 – 14 acres) and construct a youth community center within Bacon County or the City of Alma (including gym, outdoor pool, track, baseball field, etc.).	$5 million	City of Alma, Bacon County	Federal, State, Local Grants	4	x	x	x	x	x
Continue operating, improving, and expanding recreation programs, services, and facilities associated with the countywide recreation department	$1,180,000	Bacon County	DCA, SPLOST, Local	4	x	x	x	x	x
Continue to integrate parents, teachers, principals, and the business community into school curriculum planning and activities	$10,000	Board of Education	GA DOE, Local	4	x	x	x	x	x
Upgrade systems, extend hours of operation, expand programming, upgrade/grow jobs, and purchase computers at Bacon County Library	$50,000	Regional Library System, County Library, Board of Education	Local, Grants, SPLOST	4	x	x	x	x	x
Continue to collect and dispose of yard waste weekly and regularly	$100,000	City of Alma	Local	4	x	x	x	x	x
Continue to contract with a private company to collect the residential solid waste regularly and to collect and/or operate drop-off centers for “brown goods” and “white goods” (furniture, mattresses, appliances, etc.) weekly	$500,000 per year	City of Alma, Bacon County	Local	4	x	x	x	x	x
Create Master Fire Plan	$40,000	Bacon County Fire Department	Local, Grants	4	x	x	x	x	x
Upgrade fire department vehicles, breathing gear, turnout gear, and other firefighting equipment as needed.	$90,000	Bacon County Fire Department	Federal, State, Local Grants, USDA Loans, SPLOST	4	x	x	x	x	x

Provide training for the fire department, and build an additional fire station	$1 million	Bacon County Fire Department	Federal, State, Local Grants	4	x	x	x	x	x
Identify potential gaps in fire services and lower the ISO rating	Staff time	Bacon County Fire Department	Federal, State, Local Grants	4	x	x	x	x	x
Purchase police cars when needed	$100,000	City of Alma, Bacon County	Federal, State, Local Grants USDA Grant	4	x	x	x	x	x
Construct a new airport terminal	$900,000	City of Alma, Bacon County	Federal, State, Local Grants	4, 7	x	x	x	x	x
Expand the cemetery	$250,000	City of Alma, Bacon County	Federal, State, Local Grants	4	x	x	x	x	x
Improve the nursing home	$2.5 million	City of Alma, Bacon County	Federal, State, Local Grants	4, 5	x	x	x	x	x
Renovate the auditorium at the old school	$100,000	City of Alma, Bacon County	Federal, State, Local Grants	4	x	x	x	x	x
Upgrade/replace 4 sewer lift stations	$1,525,500	City of Alma	Grants, CDBG, GEFA, General Fund	4	x	x	x	x	x
Rehabilitate the Old Town Sewer	$750,000/ Phase 1	City of Alma	Grants, CDBG, GEFA, General Fund	4	x	x	x	x	x
Extend water/sewer along the Hwy 32 Bypass area	$250,000	City of Alma	Grants, CDBG, GEFA, General Fund, One Georgia Fund	1, 4	x	x	x	x	x
Complete a major street pavement improvement program	$200,000	City of Alma	Grants, CDBG, GEFA, SPLOST, TIA, General Fund	1, 4	x	x	x	x	x
Develop data and applications for GIS to streamline information sharing and employee tasks	$5,000	City of Alma	Grants, General Fund	4	x	x	x	x	x
5. HOUSING										
Continue to explore and support methods for renters of public housing and other properties to purchase their units through affordable housing programs	$1,000,000	Alma Housing Authority	FHA, DCA, CDBG, USDA, Local, Private	5	x	x	x	x	x
Address neighborhood revitalization of substandard and dilapidated housing	$1,000,000	Alma Housing Authority	Grants, CDBG	5	x	x	x	x	x
6. LAND USE										
Continue to update the existing Zoning Ordinance	$12,000	City of Alma SGRC	General Fund	6	x				
7. TRANSPORTATION										
Support the four-laning of SR 32 from I-75 to I-95	Staff time	GDOT, Bacon County, City of Alma	GDOT, Local TSPLOST	7	x	x	x		
Continue to pave, resurface, and repair roads, bridges, and sidewalks within the City and County	$6,500,000	Bacon County, City of Alma, GDOT	Federal, State, CDBG, Local	7	x	x	x	x	x

Continue with a grant to dispose of vehicle tires	City Staff	City of Alma	Grant	7	x	x	x	x	x
Develop a Comprehensive Safety Action Plan for Safe Streets and Roads for All (SS4A)	$7,000 - $10,000	Bacon County, City of Alma, GDOT, SGRC	SS4A State Grant (Safe Streets & Roads for All)	7	x	x	x		
Implement the Safe Streets and Roads for All Program once the Action Plan is developed	Staff Time	Bacon County, City of Alma	SS4A State Grant (Safe Streets & Roads for All)	7			x	x	x
Adopt a Complete Streets Policy that incorporates improved bicycle and pedestrian safety measures	Staff Time $500/ each community	Bacon County, City of Alma, SGRC	General Funds/Transportation Grants	7	x	x	x		
Revise ordinances to include the following: 1. Integration of pedestrian/bicycle considerations and requirements 2. The Georgia Streetscapes and Pedestrian Design Guide 3. The Georgia Manual on Regulations for Driveway Encroachment Guide 4. Include various requirements of the National Association of City Transportation Officials (NACTO) Guides for improved bicycle and pedestrian safety design	Staff Time $2000/ each community	Bacon County, City of Alma, SGRC	General Funds/Transportation Grants	7	x	x	x		
Apply for Walk Friendly Community Status and the Age-Friendly Community Status	$12,000/ each community	Bacon County, City of Alma, SGRC	General Funds/Transportation Grants	7	x	x			
Complete a sidewalk gap analysis and development a plan to fund sidewalk construction to fill gaps	$2,000-$5000/ each community	Bacon County, City of Alma, SGRC	General Funds/Transportation Grants	7		x	x		
Complete Road Safety Audits along key corridors/intersections as needed, based on crash data analysis and other metrics	$2000	Bacon County, City of Alma, SGRC, GDOT	General Funds Road Safety Audits (RSA) Grants, GDOT	7		x	x	x	
Administer the Georgia Pedestrian Safety Attitudes and Behaviors Survey	$1000/County	Bacon County, City of Alma	General Funds/Transportation Grants	7			x	x	
Encourage police/sheriff patrol officers to participate in the GDOT Pedestrian Safety Task Team	$750/annually	Bacon County, City of Alma, SGRC, GDOT	General Funds	7	x	x	x	x	x
Send elected officials, planning and other staff, and police/sheriff patrol officers to regional training for pedestrian and bicycle safety, education, and enforcement	$1,000 (less if virtual)	Bacon County, City of Alma	General Funds	7	x	x			
Develop a local Bicycle and/or Pedestrian Safety Action Plan	$7500-$10000/ each community	Bacon County, City of Alma, SGRC	General Funds, Grants	7			x	x	
8. INTERGOVERNMENTAL COORDINATION									

Analyze the financial impact of new growth in the community, and evaluate various financing methods for creating new infrastructure	$10,000	Development Authority, Bacon County, City of Alma	Federal, State, Local Grants	8	x	x	x	x	x
9. BROADBAND										
Adopt a Broadband Ordinance	Staff Time	Bacon County	General Fund	9	x	x			
Pursue “Broadband Ready Community” status	Staff Time	City of Alma Bacon County	General Fund	9	x	x	x		
Review local ordinances and amend them as needed to eliminate barriers to broadband deployment and encourage more excellent broadband coverage	Staff Time	City of Alma Bacon County	General Fund	9	x	x	x	x	x

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A Program of the Georgia Forestry Commission with support from the U.S. Forest Service

Community Wildfire Protection Plan

An Action Plan for Wildfire Mitigation and Conservation of Natural Resources

Bacon County

JANUARY 2019

J A N U A R Y 2 0 1 9

Prepared by;
Pete Rewis, Chief Ranger, Bacon County
Will Fell, CWPP Specialist (Initial plan 2009)
Beryl Budd, Wildfire Prevention Specialist (Revised plan 2019)
Georgia Forestry Commission
1238 GA Hwy 32 East
Alma, GA 31510

The following report is a collaborative effort among various entities. The representatives listed below comprise the core decision-making team responsible for this report and mutually agree on the plan's contents:

Andy Hutto
Chairman, Bacon County Board of Commissioners

Brent White
Alma – Bacon County Fire Chief

Pete Rewis
Chief Ranger, Bacon County Forestry Unit

Danny Turner
Bacon County EMA Director

Lonnie Whitley
Bennett Still District Fire Chief

Art Cothern
New Lacy District Fire Chief

Derrick Thornton
Sessoms District Fire Chief

Josh Landis
Taylortown District Fire Chief

Carl Leggett
Ware District Fire Chief

Billy Ray Oyal
Warnock District Fire Chief

PLAN CONTENTS

Attachments:

Bacon County Southern Wildfire Risk Assessment Summary Report

Bacon County Wildfire Pre Suppression Plan

I. Objectives

The mission of the following report is to set clear priorities for the implementation of wildfire mitigation in Bacon County. The plan includes prioritized recommendations for the appropriate types and methods of fuel reduction and structure ignitability reduction that will protect this community and its essential infrastructure. It also includes a plan for wildfire suppression. Specifically, the plan includes community-centered actions that will:

- Educate citizens on wildfire, its risks, and ways to protect lives and properties,
- Support fire rescue and suppression entities,
- Focus on collaborative decision-making and citizen participation,
- Develop and implement effective mitigation strategies, and • Develop and implement effective community ordinances and codes.

II. Community Collaboration

The core team convened in February of 2009 to assess risks and develop the Community Wildfire Protection Plan. The group is comprised of representatives from local government, local fire authorities, and the state agency responsible for forest management. Below are the groups included in the task force:

Bacon County Government
Fire Rescue
Emergency Management
Board of County Commissioners
Georgia Forestry
Commission
GEMA

It was decided to conduct community assessments on the basis of the individual fire districts in the county. The chiefs of the six fire departments in the county assessed their districts and reconvened in March for the purpose of completing the following:

Risk Assessment Assessed wildfire hazard risks and prioritized mitigation actions.

Fuels Reduction Identified strategies for coordinating fuels treatment projects.

Structure Ignitability Identified strategies for reducing the ignitability of structures within the Wildland interface.

Emergency Management Forged relationships among local government and fire districts and developed/refined a pre-suppression plan.

Education and Outreach Developed strategies for increasing citizen awareness and action and to conduct homeowner and community leader workshops.

II. Community & wildfire history

Bacon County, in southeast Georgia, was named for U.S. senator Augustus Octavius Bacon, who served four terms and was president pro tempore of the Senate in 1912. The 285square-mile county was created from portions of Appling, Pierce, and Ware counties in 1914. Because Bacon was the 151st county, an amendment was needed to override a previous limit of 145 counties set by Georgia voters in 1904.

The area, part of the wiregrass region, was first settled by Creek Indians and then by pioneer families from the Carolinas who sought more affordable land. Naval stores and turpentine were the key industries. The county seat, Alma, was incorporated in 1906. The courthouse, built in 1919, still serves residents and was placed on the National Register of Historic Places in 1980. Two stories exist about the origin of Alma's name. One, put forth in 1966 by Bernice McCullar in her book *This Is Your Georgia* and frequently repeated by local residents, is that each letter represents the first letter of four of Georgia's early state capitals, Augusta, Louisville, Milledgeville, and Atlanta. However, another story, recorded by Kenneth Krakow in *Georgia Place-Names* (1975), is that a Macon salesman, traveling through the unnamed town, offered his wife's name, Alma Sheridan. There are no other incorporated towns in the county, but other communities are Rockingham and Sessoms. The community of Rockingham was named for Rockingham, North Carolina, by settlers who hailed from there.

Most employment in Bacon County comes from the manufacturing sector, followed by service jobs and retailing. The county also supports a large blueberry industry. A satellite campus of Okefenokee Technical College opened in Alma in 1998.

In addition to the courthouse, two other Bacon County buildings are listed on the National Register of Historic Places: the Alma Depot and the Rabinowitz Building on West 11th Street. The depot, added to the register in 1983, is privately owned and used as a warehouse. Other buildings and places of interest include the Old Dixon Hotel and the Camp Ground Methodist Church, dating from the early 1800s.

Two wildlife management areas, the Bacon Area and Whitehead Creek Area, allow hunting and, with Bacon County's parks, provide visitors and residents ample opportunity for recreation. Annual events include the Georgia Farm Show in January, the Wild Game Festival in April, the Georgia Blueberry Festival in June, the Guysie Mule Roundup in October, the Lions Club Big Buck Contest in October, and the Christmas Parade.

According to the 2000 U.S. census, the population of Bacon County is 10,103 (81.5 percent white, 15.7 percent black, and 3.4 percent Hispanic).

(Courtesy *New Georgia Encyclopedia*)

Wildfire History

While Bacon County has a significant agricultural presence, about 67% of the land area is still in woodland. With the exception of a few large blocks of industrial timberland in the northeastern portion of the county, there are homes scattered throughout the county. With significant tracts of woodlands intermixed with agriculture in the 285 square miles of land in the county, the risk from the wildland urban interface is fairly substantial and general throughout the county.

Alma and Bacon County are protected by the Alma - Bacon County Fire Department with the central station located in downtown Alma, with six rural departments well-spaced throughout the county. The Georgia Forestry Commission maintains a county protection unit located just east of Alma to respond to wildland fires within the county. The city of Alma is serviced with a modern pressurized water system with hydrants throughout the city and in the industrial area just west of the city. The unincorporated areas have a well-spaced system of 32 dry hydrants installed throughout the county.

Over the past fifty years, Bacon County has averaged 65 reported wildland fires per year and almost 55% of these have occurred during the months of December, January, February, March and April. These fires have burned an average of 403 acres annually. Of this annual acreage burned, 63% was lost during the months of February, March, April and May. Since the creation of the outdoor burning permit law over 30 years ago, the numbers of fires has decreased over the years. During the last ten years, 2008-2018, the average number of wildfires annually has dropped to 34. During these years the average number of acres burned increased to over 2400 acres burned annually. In 2011 there were large wildfires burning over 22,000 acres in the county and this caused the annual acreage burned to increase by about 10 times the typical average.

The leading causes of these fires, was debris burning causing 44% of the fires and 40% of the acres burned. Incendiary or arson was the next leading cause with 21% of the fires and 24% of the acres lost. More detailed records over the past five years show that 50% of these debris fires originated from escapes from household or residential debris burning.

Georgia Forestry Commission wildfire records show that in the past five years, FY2014 – FY2018, 19 homes have been lost or damaged by wildfire in Bacon County resulting in estimated losses of $522,500. According to reports during this period an additional 21 homes have been directly or indirectly threatened by these fires. Additionally 1 vehicle valued at $1500 was lost. This is a substantial loss of non-timber property attributed to wildfires in Bacon County.

County = Bacon	Fires		Acres	Fires 5 Yr Avg	Acres 5 Yr Avg
Campfire	2		4.58	0.60	1.20
Children	0		0.00	0.20	0.29
Debris: Ag Fields, Pastures, Orchards, Etc	3		6.37	1.40	26.75
Debris: Construction Land Clearing	1		0.60	1.60	5.39
Debris: Escaped Prescribed Burn	0		0.00	0.40	0.64
Debris: Residential, Leafpiles, Yard, Etc	1		0.01	1.00	0.39
Debris: Site Prep - Forestry Related	2		1.37	4.00	12.67
Incendiary	0		0.00	3.20	157.28
Lightning	0		0.00	1.20	3.24
Machine Use	1		0.01	0.80	0.09
Miscellaneous: Fireworks/Explosives	0		0.00	0.20	0.49
Miscellaneous: Other	0		0.00	1.80	8.18
Miscellaneous: Power lines/Electric fences	0		0.00	0.20	0.04
Miscellaneous: Structure/Vehicle Fires	0		0.00	0.20	0.05
Undetermined	2		1.23	1.40	7.00
Totals for County: Bacon Year: 2018	12		14.17	18.20	223.68

Acreage Burned /Number of Fires
For Bacon County
For FY 2008-2017

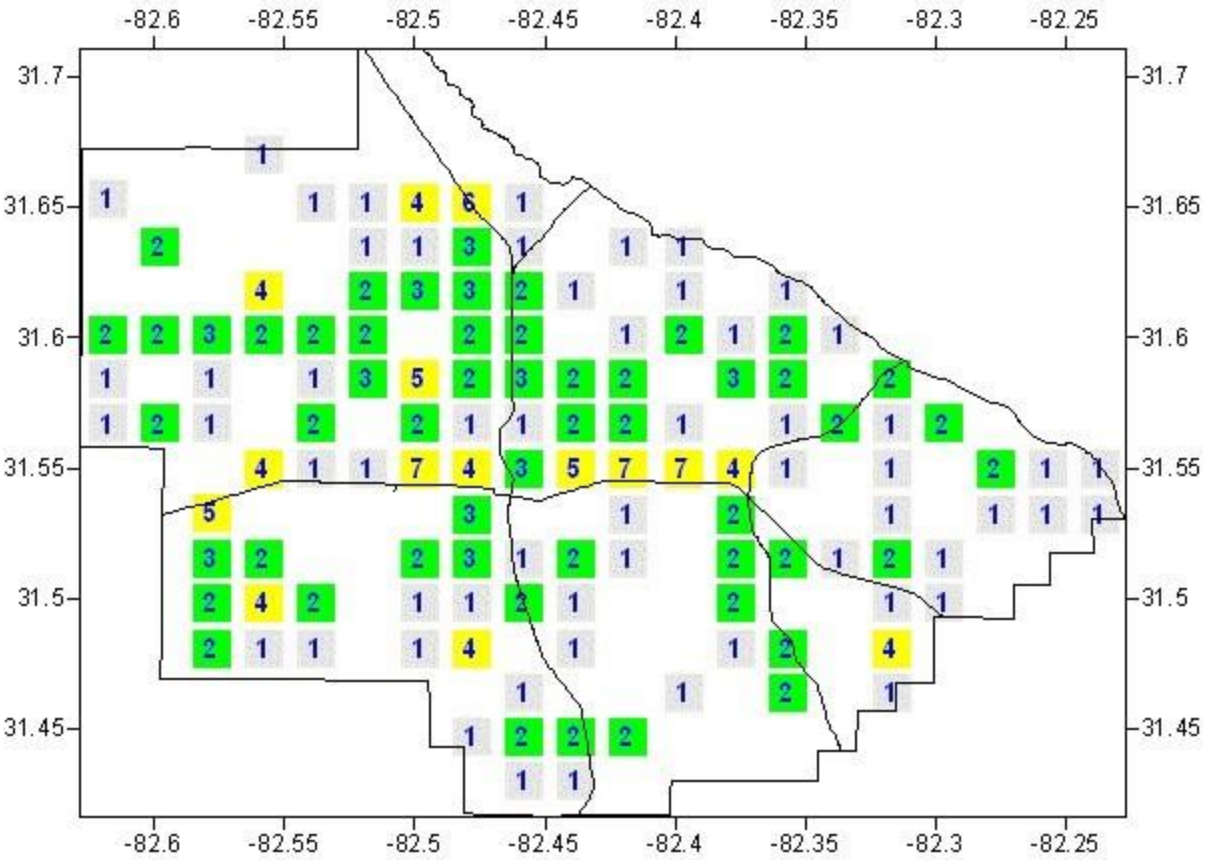
Year	Acreage Burned	Number of Fires
2008	54.09	20
2009	120.88	44
2010	50.76	31
2011	22,485.60	102
2012	159.40	45
2013	105.47	26
2014	24.120	9
2015	803.42	18
2016	133.51	11
2017	143.19	41
Average	**2,408.04**	**34**

Acreage Burned /Number of Fires by Fire Cause
For Bacon County
For FY 2008-2017

Fire Cause	Acreage Burned	Number of Fires

Campfire	13.49	4
Children	7.15	9
Debris Burning	22,785.22	129
Incendiary	904.72	68
Lightning	138.01	38
MachineUse	37.04	58
Miscellaneous	148.11	32
Railroad	0.00	0
Smoking	9.75	2
Undetermined	33.75	5
Total	**24,077.24**	**345**

Fire Occurrence Map for Bacon County for Fiscal Year 2007-2011



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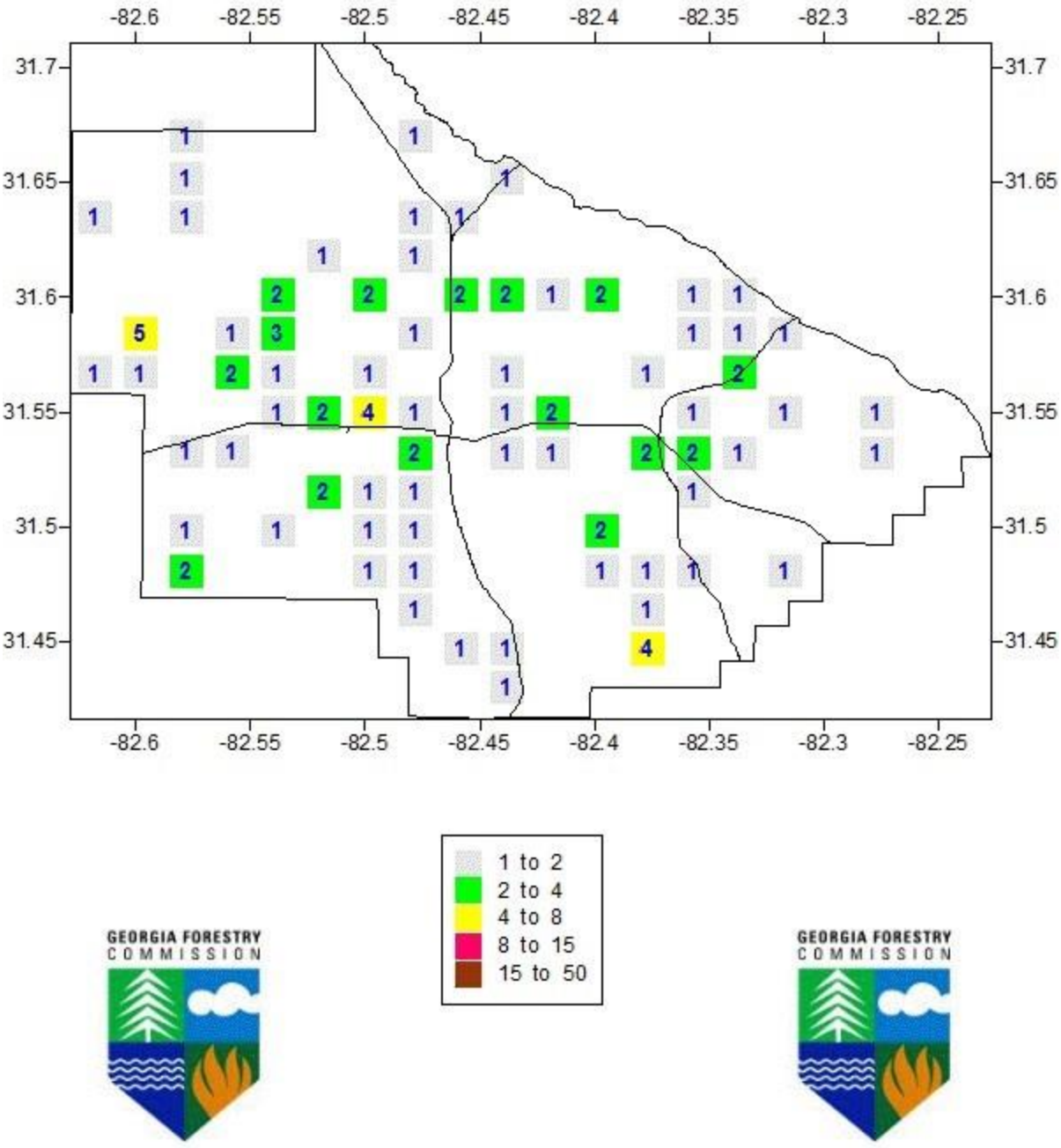
Fire Occurrence Map for Bacon County for Fiscal Year 2012-2016



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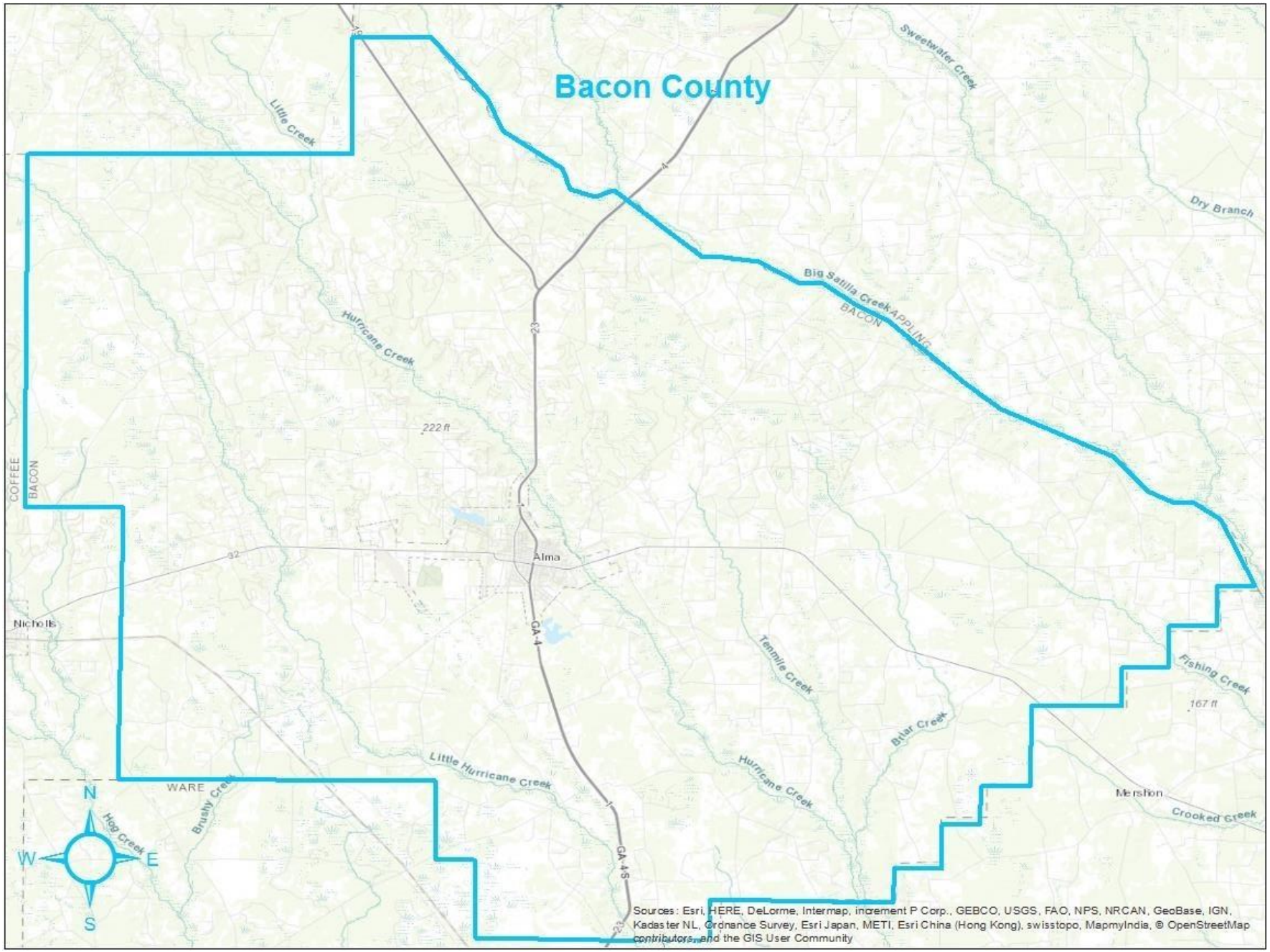
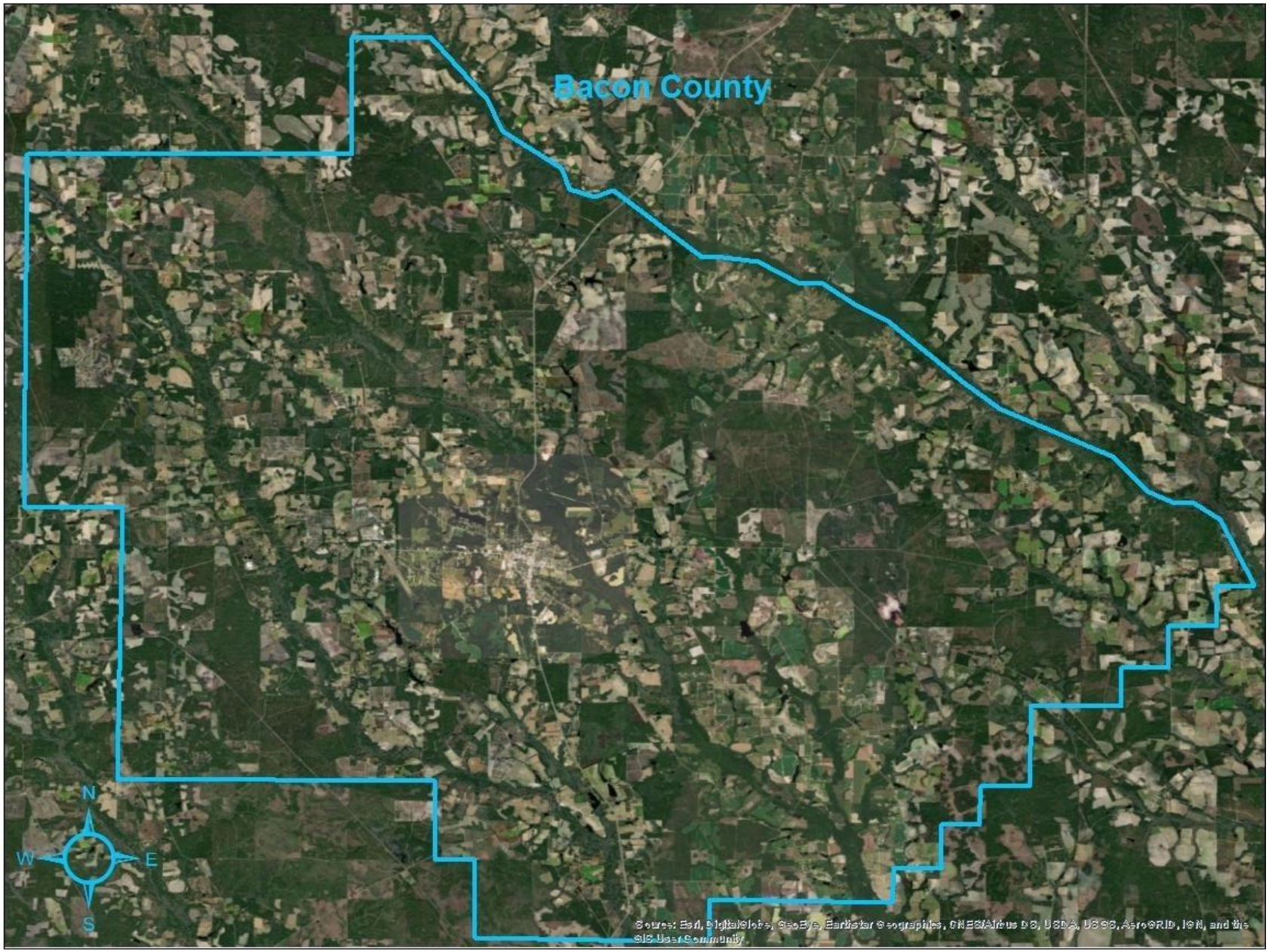
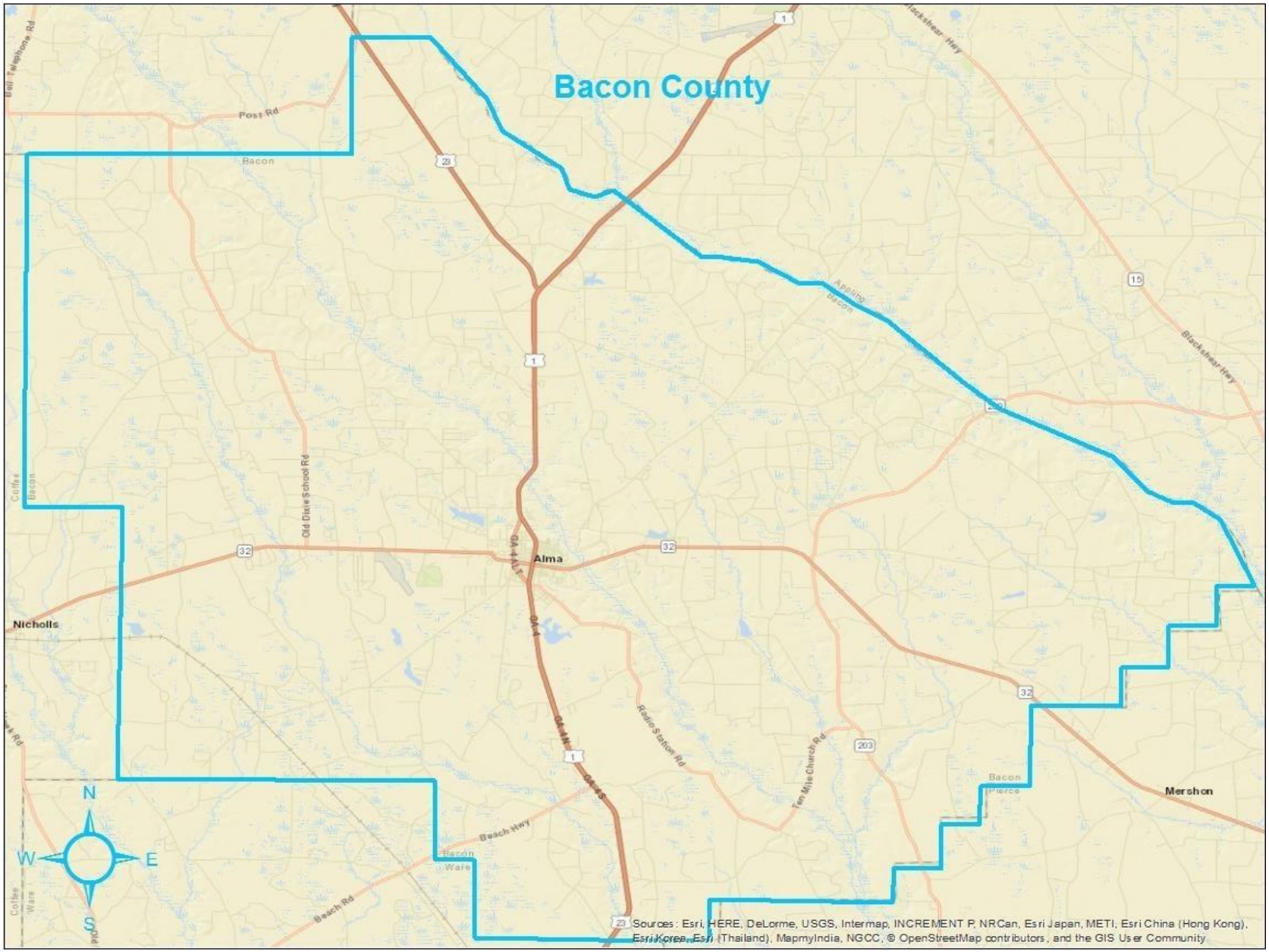
IV. COMMUNITY BASE MAP

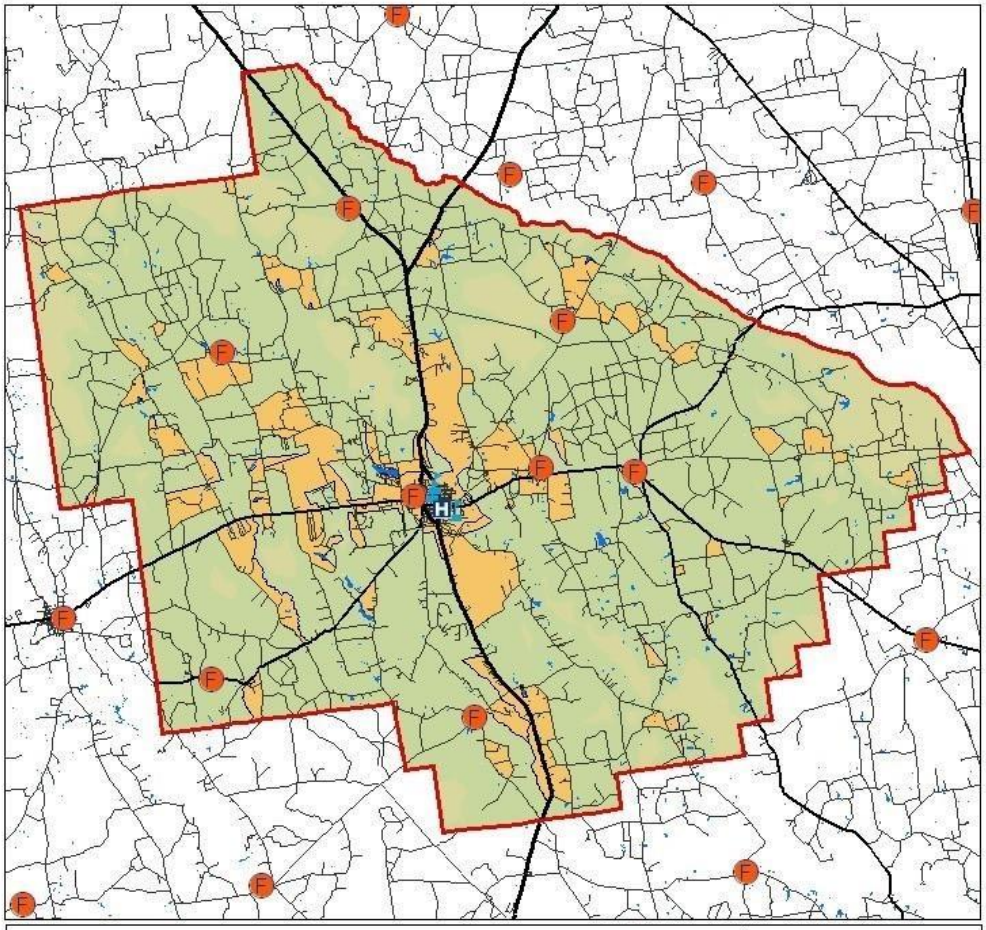

Bacon County
Sweetwater Creek
Little Creek
Dry Branch
Big Satilla Creek
APPLING
BACON
Hurricane Creek
222 ft
COFFEE
BACON
Alma
Nicholls
GA-4
Tennile Creek
Fishing Creek
167 ft
Briar Creek
Little Hurricane Creek
Hurricane Creek
WARE
Brushy Creek
Hog Creek
Meridian
Crooked Creek
GA-4 S
N
W
E
S
Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community


Bacon County
N
W
E
S
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community


Bacon County
Alma
Nicholls
Mershon
Post Rd
Bacon
Old Dixie School Rd
Beach Hwy
Beach Rd
Radio Station Rd
Ten Mile Church Rd
Blackshear Hwy
N
S
E
W
Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

Bacon County Wildland Urban Interface Areas

Bacon County Fire Stations, Schools and Hospital



0 0.35 0.7 1.4 2.1 2.8
Miles

3/30/2009

Disclaimer: The user assumes the entire risk related to their use of the SFRAS application and either the published or derived maps from the application. The Southern Group of State Foresters is providing these data "as is" and disclaims any and all warranties, whether expressed or implied, including (without limitation) any implied warranties of merchantability or fitness for a particular purpose. In no event will the Southern Group of State Foresters be liable to you or to any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit

. COMMUNITY WILDFIRE RISK ASSESSMENT

The Wildland-Urban Interface

There are many definitions of the Wildland-Urban Interface (WUI), however from a fire management perspective it is commonly defined as an area where structures and other human development meet or intermingles with undeveloped wildland or vegetative fuels. As fire is dependent on a certain set of conditions, the National Wildfire Coordinating Group has defined the wildland-urban interface as a set of conditions that exists in or near areas of wildland fuels, regardless of ownership. This set of conditions includes type of vegetation, building construction, accessibility, lot size, topography and other factors such as weather and humidity. When these conditions are present in certain combinations, they make some communities more vulnerable to wildfire damage than others. This "set of conditions" method is perhaps the best way to define wildland-urban interface areas when planning for wildfire prevention, mitigation, and protection activities.

There are three major categories of wildland-urban interface. Depending on the set of conditions present, any of these areas may be at risk from wildfire. A wildfire risk assessment can determine the level of risk.

1. **"Boundary" wildland-urban interface** is characterized by areas of development where homes, especially new subdivisions, press against public and private wildlands, such as private or commercial forest land or public forests or parks. This is the classic type of wildland-urban interface, with a clearly defined boundary between the suburban fringe and the rural countryside.

2. **"Intermix" wildland-urban interface** areas are places where improved property and/or structures are scattered and interspersed in wildland areas. These may be isolated rural homes or an area that is just beginning to go through the transition from rural to urban land use.

3. **"Island" wildland-urban interface**, also called occluded interface, are areas of wildland within predominately urban or suburban areas. As cities or subdivisions grow, islands of undeveloped land may remain, creating remnant forests. Sometimes these remnants exist as parks, or as land that cannot be developed due to site limitations, such as wetlands.

The wildland fire risk assessments conducted in 2009 by the Alma Bacon County Fire
Department returned an average score of 136, placing Bacon County in the "high" hazard range. The risk assessment instrument used to evaluate wildfire hazards to Bacon County's WUI was the Woodland Community Wildfire Hazard Risk Assessment Checklist. The instrument takes into consideration accessibility, vegetation (based on fuel models), topography, roofing assembly,

building construction, and availability of fire protection resources, placement of gas and electric utilities, and additional rating factors. The following factors contributed to the wildfire hazard score for Bacon County:

- Dead end roads with inadequate turn arounds
- Narrow roads without drivable shoulders
- Long, narrow, and poorly labeled driveways
- Limited street signs and homes not clearly marked
- Thick, highly flammable vegetation surrounding many homes
- Minimal defensible space around structures
- Homes with wooden siding and roofs with heavy accumulations of vegetative debris
- No pressurized or non-pressurized water systems available
- Above ground utilities
- Large, adjacent areas of forest or wildlands
- Undeveloped lots comprising half the total lots in many rural communities. • High occurrence of wildfires in the several locations

Summary of Bacon County Assessment Ratings

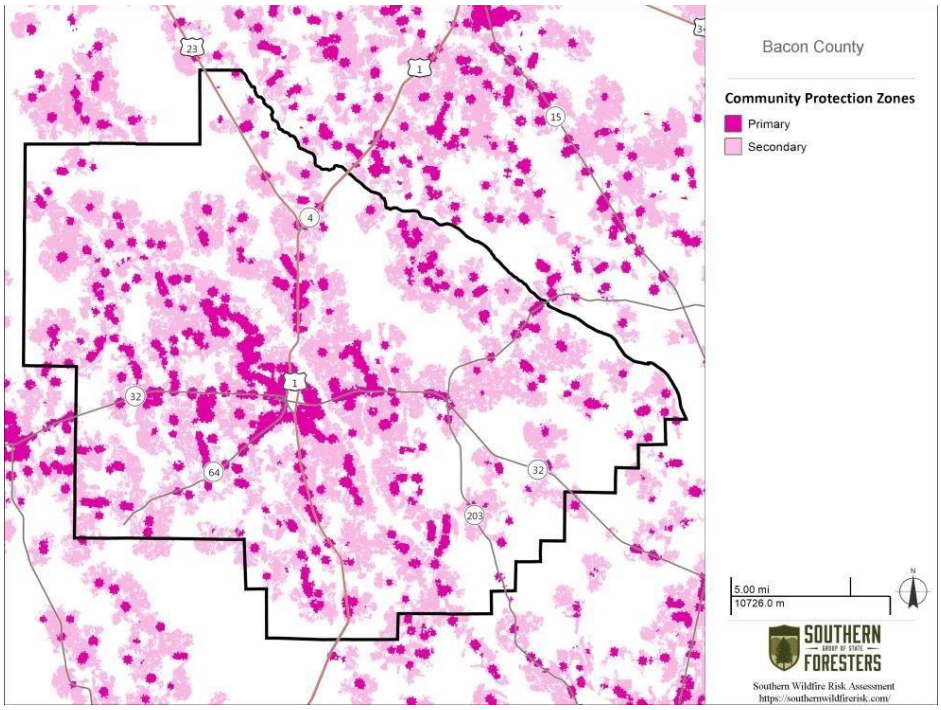
Fire District	Access	Site Hazard	Bldg Hazard	Add Hazards	Total Score	Hazard Rating
City of Alma	5	32	15	21	73	Low Risk
Bennett Still	10	54	20	36	120	Moderate Risk
Taylortown	27	89	15	42	173	Extreme Risk
Ware	17	76	15	44	152	Extreme Risk
New Lacy	22	62	5	46	135	High Risk
Sessoms	19	71	18	48	156	Extreme Risk
Warnock	13	67	10	49	139	High Risk
Average	**16**	**64**	**15**	**41**	**137**	**High Risk**

VI. COMMUNITY HAZARDS MAPS

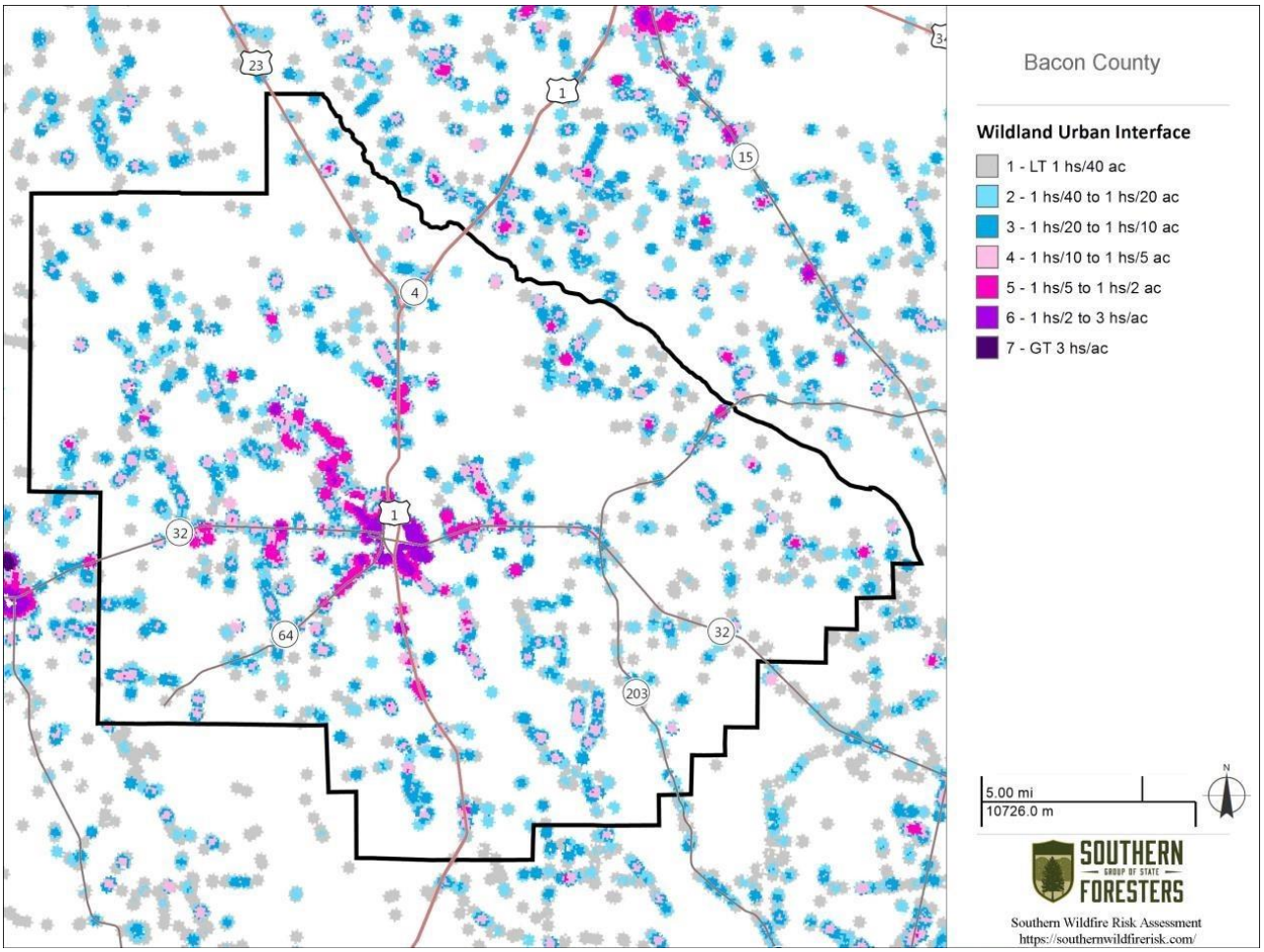
The Southern Wildfire Risk Assessment tool, developed by the Southern Group of State Foresters, was released to the public in July 2014. This tool allows users of the Professional

Viewer application of the Southern Wildfire Risk Assessment (SWRA) web Portal (SouthWRAP) to define a specific project area and summarize wildfire related information for this area. A detailed risk summary report is generated using a set of predefined map products developed by the Southern Wildfire Risk Assessment project which have been summarized explicitly for the user defined project area. A risk assessment summary was generated for Bacon County. The SouthWRAP (SWRA) products included in this report are designed to provide the information needed to support the following key priorities:

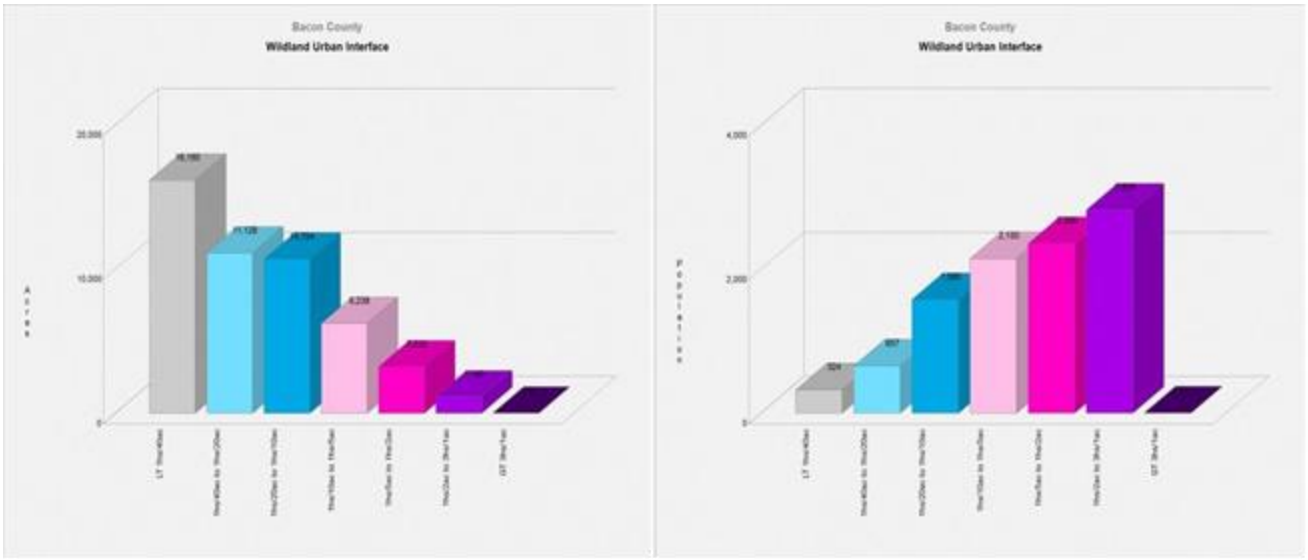
- Identify areas that are most prone to wildfire.
- Identify areas that may require additional tactical planning, specifically related to mitigation projects and Community Wildfire Protection Planning.
- Provide the information necessary to justify resource, budget and funding requests.
- Allow agencies to work together to better define priorities and improve emergency response, particularly across jurisdictional boundaries.
- Define wildland communities and identify the risk to those communities.

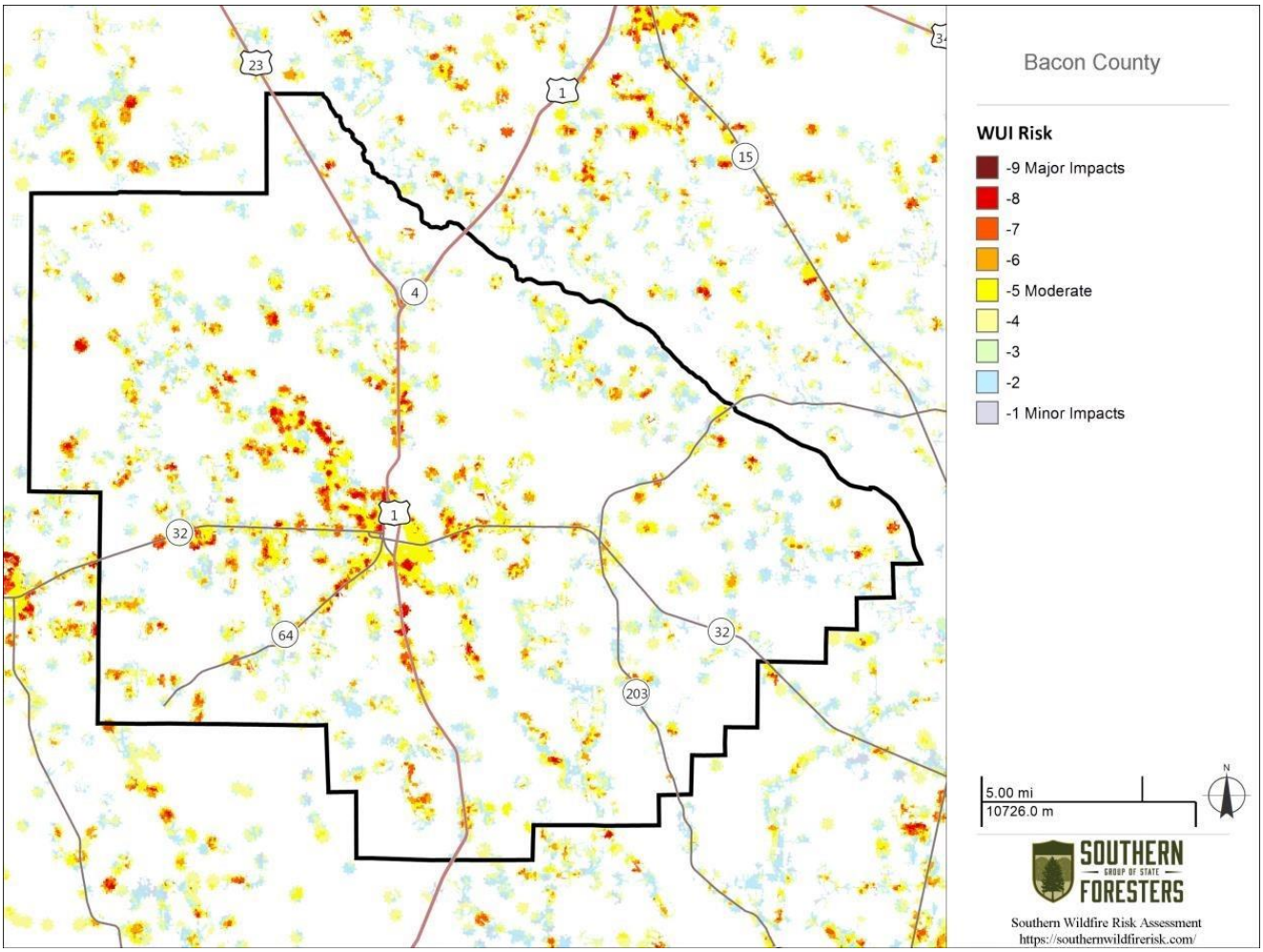


- Increase communication and outreach with local residents and the public to create awareness and address community priorities and needs.
- Plan for response and suppression resource needs.
- Plan and prioritize hazardous fuel treatment.

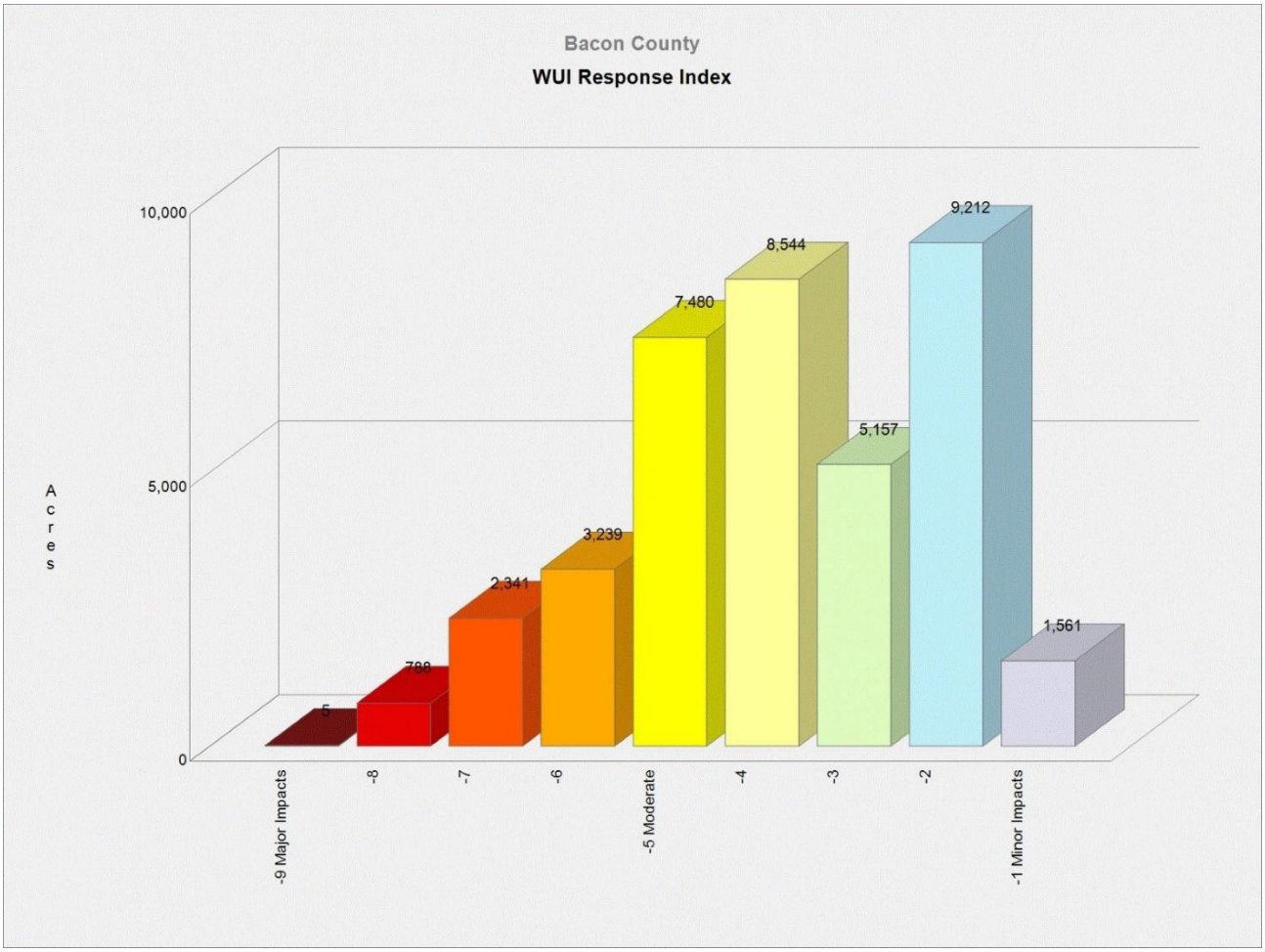


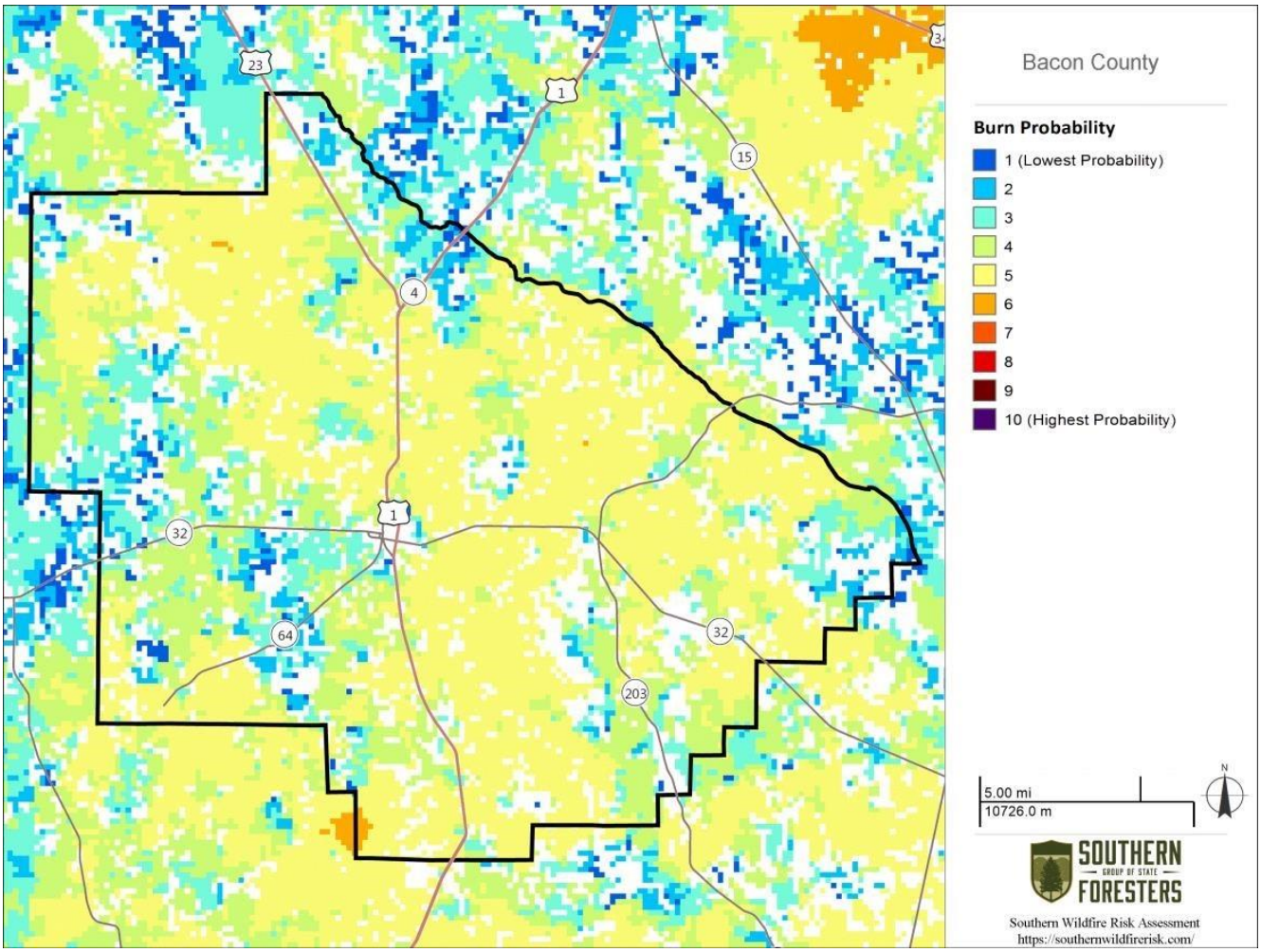
Above: Wildland Urban Interface (WUI) map Below: WUI Population (left) WUI Acres (right)



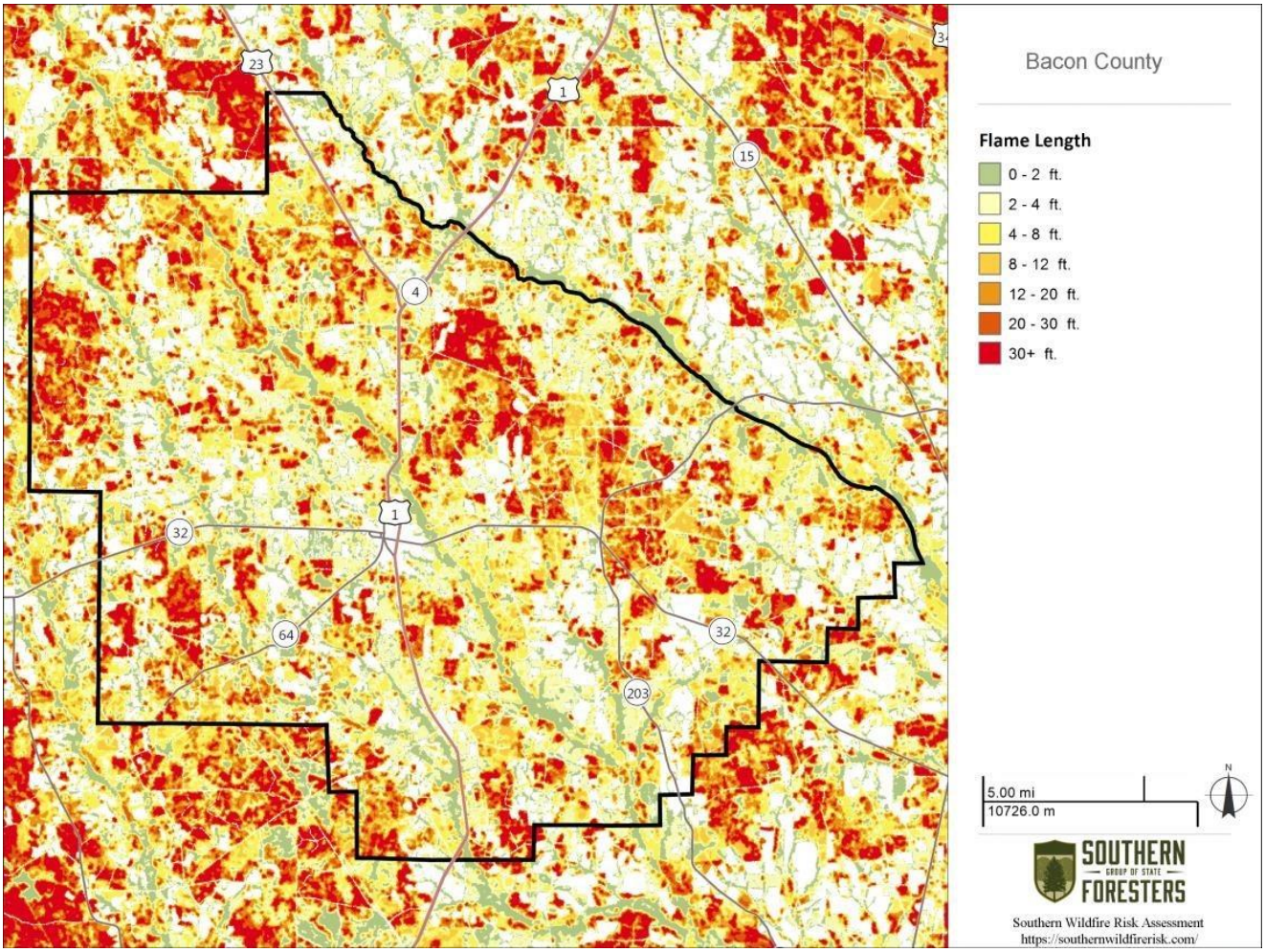


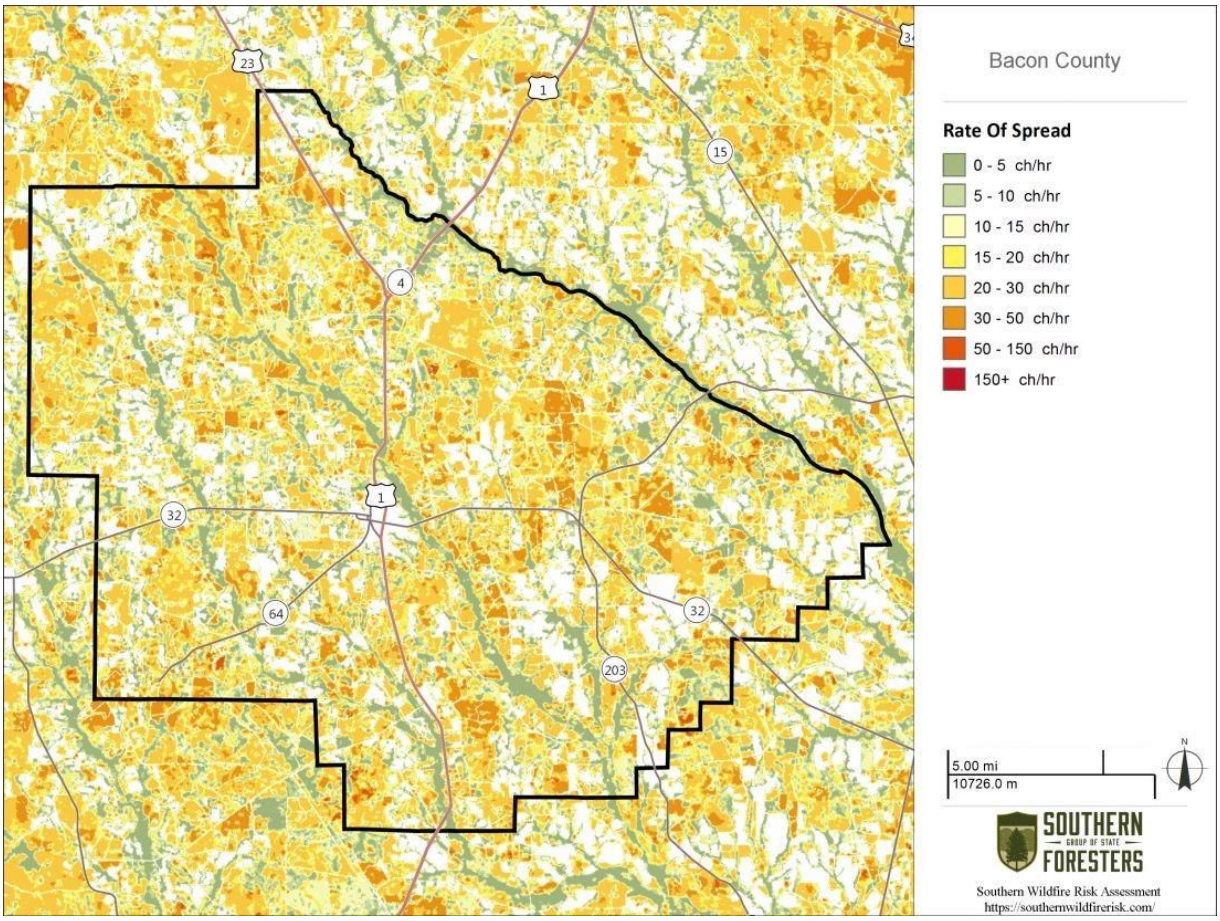
Above: Wildland Urban Interface Risk map Below: WUI Response Index

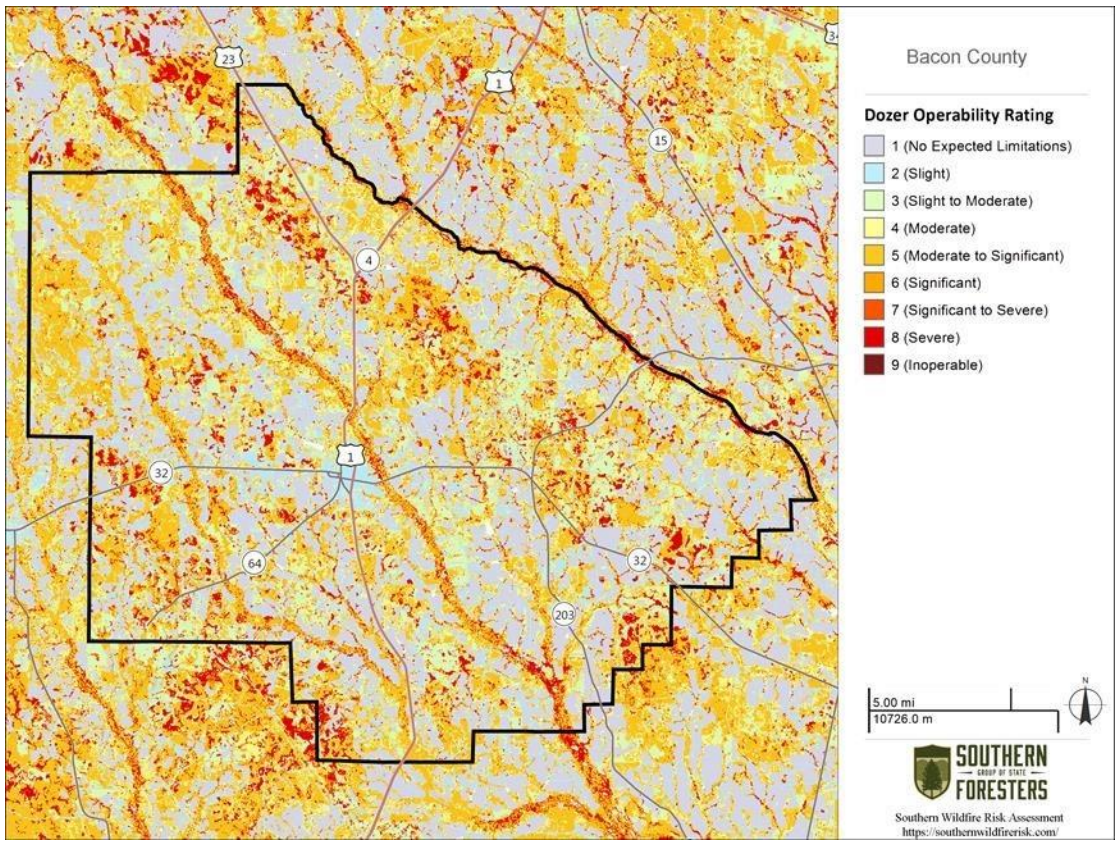

Bacon County
WUI Response Index
Acres
10,000
5,000
0
5
788
2,341
3,239
7,480
8,544
5,157
9,212
1,561
-9 Major Impacts
-8
-7
-6
-5 Moderate
-4
-3
-2
-1 Minor Impacts

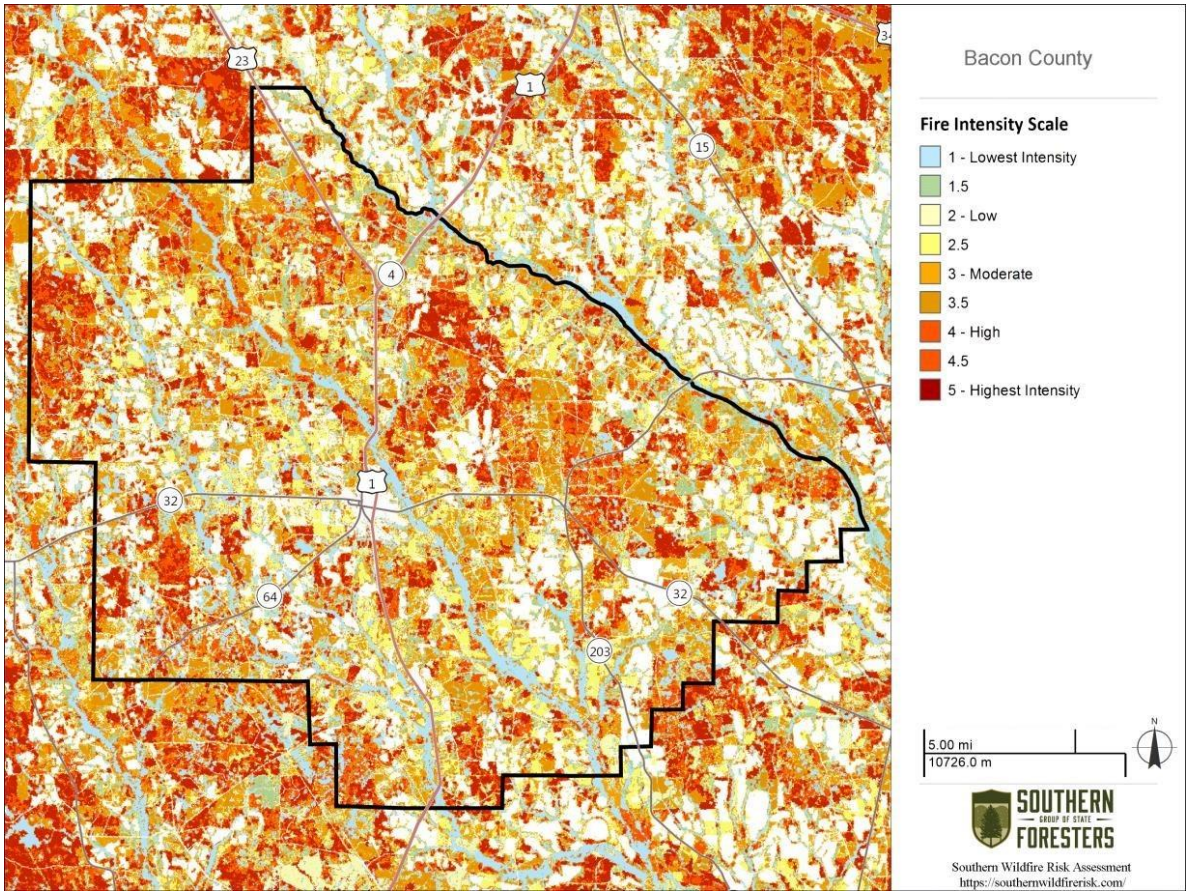


Above: Burn Probability map Below: Flame Length map

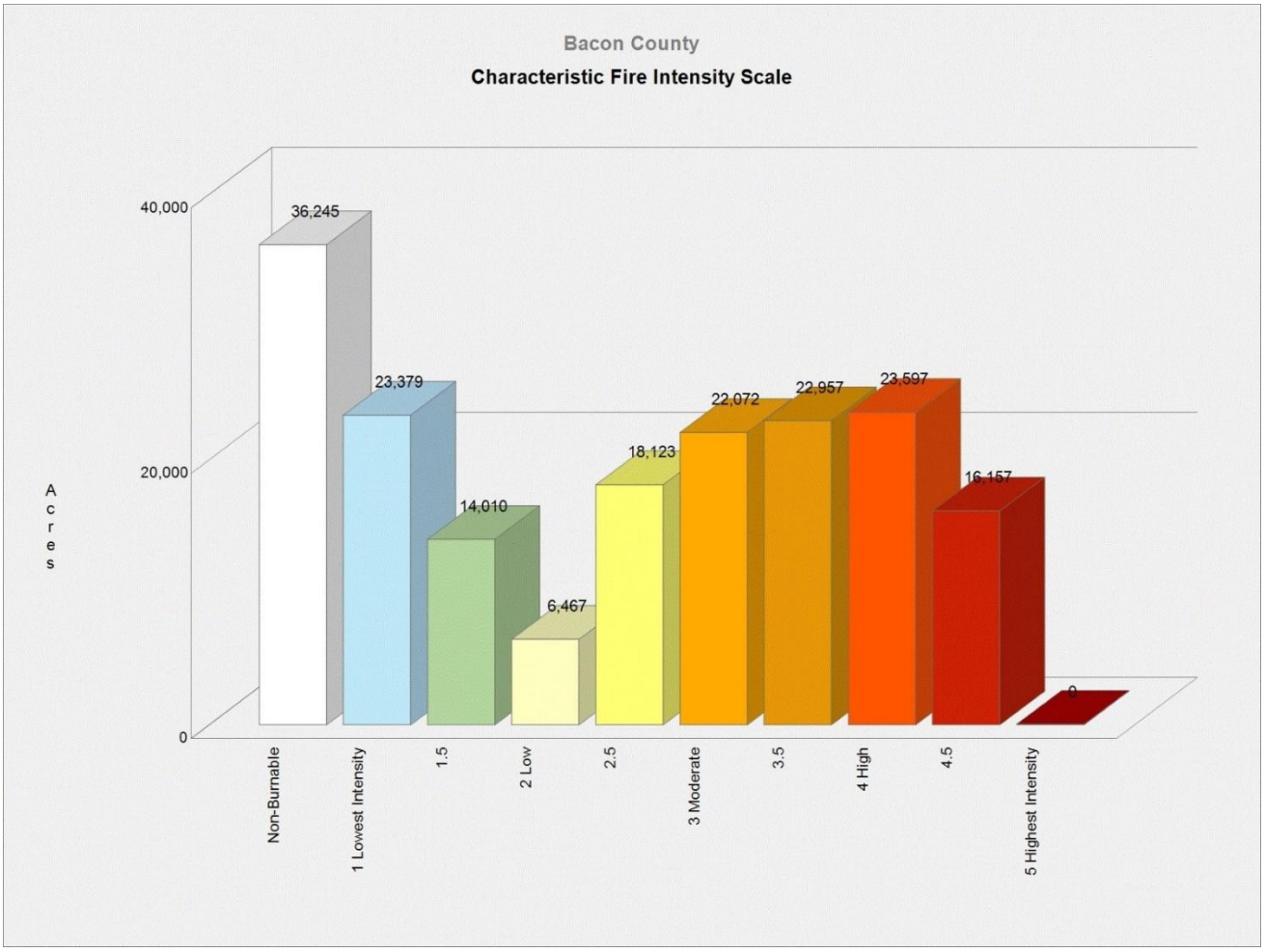

Bacon County
Flame Length
0 - 2 ft.
2 - 4 ft.
4 - 8 ft.
8 - 12 ft.
12 - 20 ft.
20 - 30 ft.
30+ ft.
23
1
15
4
1
32
64
32
203
5.00 mi
10726.0 m
N
SOUTHERN GROUP OF STATE FORESTERS
Southern Wildfire Risk Assessment
https://southernwildfirerisk.com/

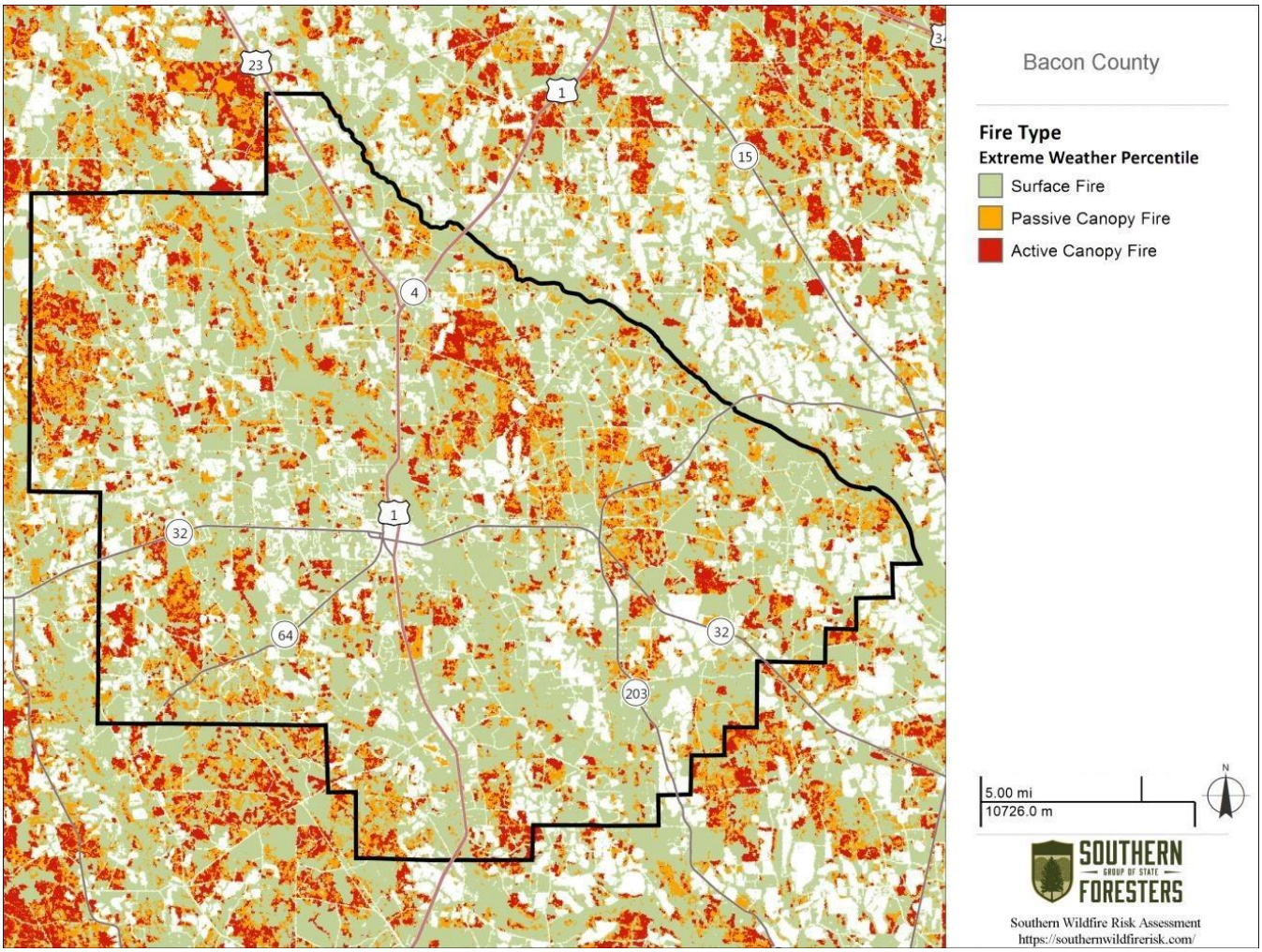

Bacon County
Rate Of Spread
0 - 5 ch/hr
5 - 10 ch/hr
10 - 15 ch/hr
15 - 20 ch/hr
20 - 30 ch/hr
30 - 50 ch/hr
50 - 150 ch/hr
150+ ch/hr
5.00 mi
10726.0 m
N
SOUTHERN GROUP OF STATE FORESTERS
Southern Wildfire Risk Assessment
https://southernwildfirerisk.com/
23
1
15
4
1
32
64
32
203


Bacon County
Dozer Operability Rating
1 (No Expected Limitations)
2 (Slight)
3 (Slight to Moderate)
4 (Moderate)
5 (Moderate to Significant)
6 (Significant)
7 (Significant to Severe)
8 (Severe)
9 (Inoperable)
23
1
15
4
1
32
64
32
203
5.00 mi
10726.0 m
N
SOUTHERN
GROUP OF STATE
FORESTERS
Southern Wildfire Risk Assessment
https://southernwildfirerisk.com/



Above: Fire Intensity Scale map **Below: Fire Intensity Scale Acres**


Bacon County
Characteristic Fire Intensity Scale
Acres
40,000
20,000
0
36,245
23,379
14,010
6,467
18,123
22,072
22,957
23,597
16,157
0
Non-Burnable
1 Lowest Intensity
1.5
2 Low
2.5
3 Moderate
3.5
4 High
4.5
5 Highest Intensity



Above: Fire Type map

Surface FireA fire that spreads through surface fuel without consuming any overlying canopy fuel. Surface fuels include grass, timber litter, shrub/brush, slash and other dead or live vegetation within about 6 feet of the ground.

Passive Canopy Fire

A type of crown fire in which the crowns of individual trees or small groups of trees burn, but solid flaming in the canopy cannot be maintained except for short periods.

Active Canopy Fire

A crown fire in which the entire fuel complex (canopy) is involved in flame, but the crowning phase remains dependent on heat released from surface fuel for continued spread.

VII. PRIORITIZED MITIGATION RECOMMENDATIONS

Executive Summary

The following recommendations were developed by the Bacon County CWPP Core team as a result of surveying and assessing fuels and structures and by conducting meetings and interviews with county and city officials. A priority order was determined based on which mitigation projects would best reduce the hazard of wildfire in the assessment area.

Proposed Community Hazard and Structural Ignitability Reduction Priorities

Primary Protection for Community and Its Essential Infrastructure		
Treatment Area	Treatment Types	Treatment Method(s)
1. All Structures	Create minimum of 30-feet of defensible space**	Trim shrubs and vines to 30 feet from structures, trim overhanging limbs, replace flammable plants near homes with less flammable varieties, remove vegetation around chimneys.
2. Applicable Structures	Reduce structural ignitability**	Clean flammable vegetative material from roofs and gutters, store firewood appropriately, install skirting around raised structures, store water hoses for ready access, replace pine straw and mulch around plantings with less flammable landscaping materials.

3. Community Clean-up Day National Wildfire Preparedness Day	Cutting, mowing, pruning**	Cut, prune, and mow vegetation in shared community spaces.
4. Driveway Access	Culvert installation	See that adequate lengths of culverts are installed to allow emergency vehicle access.
5. Road Access	Identify needed road improvements	As roads are upgraded, widen to minimum standards with at least 50 foot diameter cul de sacs.

6. Codes and Ordinances	Examine existing codes and ordinances. International Wildland Urban Interface Code IWUIC	Amend and enforce existing building codes as they relate to skirting, propane tank locations, public nuisances (trash/debris on property), Property address marking standards and other relevant concerns At such time as the development of zoning, planning and subdivision ordinances become practical include fire department and emergency services input in the design of these.
Proposed Community Wildland Fuel Reduction Priorities		
Treatment Area	Treatment Types	Treatment Method(s)
1. Adjacent WUI Lands	Reduce hazardous fuels	Encourage prescribed burning for private landowners and industrial timberlands particularly adjacent to residential areas
2. Railroad Corridors	Reduce hazardous fuels	Encourage railroads to better maintain their ROW eliminating brush and grass through herbicide and mowing. Maintain firebreaks along ROW adjacent to residential areas.
3. Existing Fire Lines	Reduce hazardous fuels	Clean and re-harrow existing lines.
Proposed Improved Community Wildland Fire Response Priorities		
1. Water Sources	Dry Hydrants	Inspect, maintain and improve access to existing dry hydrants. Add signage along road to mark the hydrants

2. Fire Stations	Water Tanks	Install elevated "drop tanks" with automatic cut-off valves for quick refilling of trucks
3. Fire Stations	Equipment	Wildland hand tools. Lightweight Wildland PPE Gear. Larger capacity hose. Investigate need for "brush" trucks.
4. Emergency infrastructure	Equipment	Obtain mobile generator to provide backup power where needed.
5. Water Sources	Drafting equipment	Investigate need for drafting fittings for area irrigation wells.
6. Personnel	Training	Obtain Wildland Fire Suppression training for Fire Personnel. Ready Set Go training.
**Actions to be taken by homeowners and community stakeholders		

Proposed Education and Outreach Priorities

1. Conduct "How to Have a Firewise Home" Workshop for Bacon County Residents
Set up and conduct a workshop for homeowners that teach the principles of making homes and properties safe from wildfire. Topics for discussion include defensible space, landscaping, building construction, etc. Workshop will be scheduled for evenings or weekends when most homeowners are available and advertised through local media outlets. Distribute materials promoting firewise practices and planning through local community and governmental meetings.
2. Conduct "Firewise" Workshop for Community Leaders
Arrange for GFC Firewise program to work with local community leaders and governmental officials on the importance of "Firewise Planning" in developing ordinances and codes as the county as the need arises. Identify "Communities at Risk" within the county for possible firewise community recognition.
3. Spring Clean-up Event (National Wildfire Preparedness Day – 1st Saturday in May annually)

Conduct clean-up event every spring involving the Georgia Forestry Commission, Alma Bacon County Fire and Rescue and community residents. Set up information table with educational materials and refreshments. Initiate the event with a morning briefing by GFC Firewise coordinator and local fire officials detailing plans for the day and safety precautions. Activities to include the following:

- Clean flammable vegetative material from roofs and gutters
- Trim shrubs and vines to 30 feet away from structures
- Trim overhanging limbs
- Clean hazardous or flammable debris from adjacent properties

Celebrate the work with a community cookout, with Community officials, GFC and Alma Bacon Fire and Rescue discussing and commending the work accomplished.

4. Informational Packets

Develop and distribute informational packets to be distributed by realtors and insurance agents. Included in the packets are the following:

- Be Firewise Around Your Home
- Firewise Guide to Landscape and Construction
- Firewise Communities USA brochures
- Ready Set Go materials
- Fire Adapted Community information

5. Wildfire Protection Display

Create and exhibit a display for the general public at the Georgia Blueberry Festival. The Festival usually runs in June. Display can be independent or combined with the Georgia Forestry Commission display.

6. Media

Invite the Alma Times and the Waycross Journal Herald to community “Firewise” functions for news coverage and regularly submit press releases documenting wildfire risk improvements in Bacon County. Utilize TV, radio, and social media to reach new and diverse audiences.

The Georgia Forestry Commission can assist with developing a prescribed burning plan, installation of firebreaks, and can provide equipment standby and burning assistance when personnel are available. Private forestry contractors can also provide this service.

Forestry mowers and brush cutters, such as pictured here, can be very effective in reducing understory fuels in areas where prescribed fire is not practical. Private contractors can provide this service.

VIII. ACTION PLAN

Roles and Responsibilities

The following roles and responsibilities have been developed to implement the action plan:

Role	Responsibility
Hazardous Fuels and Structural Ignitability Reduction	
Bacon County WUI Fire Council	Create this informal team or council comprised of residents, GFC officials, Alma Bacon Fire and Rescue officials, a representative from the city and county government and the EMA Director for Bacon county. Meet periodically to review progress towards mitigation goals, appoint and delegate special activities, work with federal, state, and local officials to assess progress and develop future goals and action plans. Work with residents to implement projects and firewise activities.
Key Messages to focus on	1. Defensible Space and Firewise Landscaping 2. Debris Burning Safety 3. Firewise information for homeowners 4. Prescribed burning benefits
Communications objectives	1. Create public awareness for fire danger and defensible space issues 2. Identify most significant human cause fire issues 3. Enlist public support to help prevent these causes 4. Encourage people to employ fire prevention and defensible spaces in their communities.
Target Audiences	1. Homeowners 2. Forest Landowners and users 3. Civic Groups 4. School Groups
Methods	1. News Releases, TV, Radio 2. Personal Contacts, Social Media 3. Key messages and prevention tips 4. Visuals such as signs, brochures and posters
Spring Clean-up Day	
Event Coordinator	Coordinate day's events and schedule, catering for cookout, guest attendance, and moderate activities the day of the day of the event.

Event Treasurer	Collect funds from residents to cover food, equipment rentals, and supplies.
Publicity Coordinator	Advertise event through neighborhood newsletter, letters to officials, and public service announcements (PSAs) for local media outlets. Publicize post-event through local paper and radio PSAs.
Work Supervisor	Develop volunteer labor force of community residents, develop labor/advisory force from Georgia Forestry Commission, Alma Bacon Fire and Rescue, and Emergency Management Agency. Procure needed equipment and supplies. In cooperation with local city and county officials, develop safety protocol. Supervise work and monitor activities for safety the day of the event.

Funding Needs

The following funding is needed to implement the action plan:

Project	Estimated Cost	Potential Funding Source(s)
1. Create a minimum of 30 feet of defensible space around structures	Varies	Residents will supply labor and fund required work on their own properties.
2. Reduce structural ignitability by cleaning flammable vegetation from roofs and gutters, appropriately storing firewood, installing skirting around raised structures, storing water hoses for ready access, replacing pine needles and mulch around plantings with less flammable material.	Varies	Residents will supply labor and fund required work on their own properties.
3. Amend codes and ordinances to provide better driveway access, increased visibility of house numbers, properly stored firewood, minimum defensible space brush clearance, required Class A roofing materials and skirting around raised structures, planned maintenance of community lots.	No Cost	To be adopted by city and county government.
4. Spring Cleanup Day	Varies	Community Business Donations.
5. Fuel Reduction Activities	$15 / acre	FEMA & USFS Grants

Assessment Strategy
To accurately assess progress and effectiveness for the action plan, the Alma Bacon WUI Fire Council will implement the following:

- Annual wildfire risk assessment will be conducted to re-assess wildfire hazards and prioritize needed actions.

- Mitigation efforts that are recurring (such as mowing, burning, and clearing of defensible space) will be incorporated into an annual renewal of the original action plan.

- Mitigation efforts that could not be funded in the requested year will be incorporated into the annual renewal of the original action plan.

- Continuing educational and outreach programs will be conducted and assessed for effectiveness. Workshops will be evaluated based on attendance and post surveys that are distributed by mail 1month and 6 months following workshop date.

- The Alma Bacon WUFP Team will publish an annual report detailing mitigation projects in spent, and in-kind services utilized. The report will include a "state of the community" section that critically evaluates mitigation progress and identifies areas for improvement. Recommendations will be incorporated into the annual renewal of the action plan.

- An annual survey will be distributed to residents soliciting information on individual mitigation efforts on their own property (e.g., defensible space). Responses will be tallied and reviewed at the next Alma Bacon WUIFC meeting. Needed actions will be discussed and delegated.

This plan should become a working document that is shared by local, state, and federal agencies that will use it to accomplish common goals. An agreed-upon schedule for meeting to review accomplishments, solve problems, and plan for the future should extend beyond the scope of this plan. Without this follow up this plan will have limited value.

IX. MITIGATION ASSISTANCE & GRANT FUNDING

Community Protection Grant: US Forest Service sponsored prescribed fire program. Communities with "at-risk" properties that lie within ten miles of a National Forest, National Park Service or Bureau of Land Management tracts may apply with the Georgia Forestry Commission to have their land prescribe burned free-of-charge. Forest mastication, where it is practical with Georgia Forestry Commission equipment, is also available under this grant program.

FEMA Mitigation Policy MRR-2-08-01: through GEMA – Hazard Mitigation Grant Program (HMGP) and Pre-Disaster Mitigation Program (PDM).

1. To provide technical and financial assistance to local governments to assist in the implementation of long term, cost effective hazard mitigation accomplishments.

2. This policy addresses wildfire mitigation for the purpose of reducing the threat to all-risk structures through creating defensible space, structural protection through the application of ignition resistant construction and limited hazardous fuel reduction to protect life and property.

3. With a completed registered plan (addendum to the State Plan) counties can apply for pre-mitigation funding. They will also be eligible for HMGP funding if the county is declared under a wildfire disaster.

Georgia Forestry Commission: Plowing and prescribed burning assistance can be obtained from the GFC as a low-cost option for mitigation efforts.

The Georgia Forestry Commission Firewise Community Mitigation Assistance Grants – Nationally recognized Firewise Communities can receive up to $5000 grants to help address potential wildfire risk reduction projects. Grant submission can be made through local Georgia Forestry Commission offices or your Regional Wildfire Prevention Specialist.

The International Association of Fire Chiefs (IAFC) and American International Group, Inc. (AIG) offer grants to assist local fire departments in establishing or enhancing their community fuels mitigation programs while educating members of the community about community wildfire readiness and encouraging personal action.

X. GLOSSARY

Community-At-Risk – *A group of two or more structures whose proximity to forested or wildland areas places homes and residents at some degree of risk.*

Critical Facilities – *Buildings, structures or other parts of the community infrastructure that require special protection from an approaching wildfire.*

CWPP – *The Community Wildfire Protection Plan.*

Defensible Space – *The immediate landscaped area around a structure (usually a minimum of 30 ft.) kept "lean, clean and green" to prevent an approaching wildfire from igniting the structure.*

Dry Hydrant - *A non-pressurized pipe system permanently installed in existing lakes, ponds and streams that provides a suction supply of water to a fire department tank truck.*

FEMA – *The Federal Emergency Management Agency whose mission is to support our citizens and first responders to ensure that as a nation we work together to build, sustain, and improve our capability to prepare for, protect against, respond to, recover from, and mitigate all hazards.*

Fire Adapted Community – *A community fully prepared for its wildfire risk by taking actions to address safety, homes, neighborhoods, businesses and infrastructure, forest, parks, open spaces,*

Firewise Program – *A national initiative with a purpose to reduce structural losses from wildland fires.*

Firewise Community/USA – *A national recognition program for communities that take action to protect themselves from wildland fire. To qualify a community must have a wildfire risk assessment by the Georgia Forestry Commission, develop a mitigation action plan, have an annual firewise mitigation/education event, have dedicated firewise leadership, and complete the certification application.*

Fuels – *All combustible materials within the wildland/urban interface or intermix including, but not limited to, vegetation and structures.*

Fuel Modification – *Any manipulation or removal of fuels to reduce the likelihood of ignition or the resistance to fire control.*

Hazard & Wildfire Risk Assessment – *An evaluation to determine an area's (community's) potential to be impacted by an approaching wildland fire.*

Healthy Forests Initiative - *Launched in August 2002 by President Bush (following passage of the Healthy Forests Restoration Act by Congress) with the intent to reduce the risks severe wildfires pose to people, communities, and the environment.*

Home Ignition Zone (Structure Ignition Zone) - *Treatment area for wildfire protection. The "zone" includes the structure(s) and their immediate surroundings from 0-200 ft.* Mitigation – An a*ction that moderates the severity of a fire hazard or risk.*

National Fire Plan – *National initiative, passed by Congress in the year 2000, following a landmark wildland fire season, with the intent of actively responding to severe wildland fires and their impacts to communities while ensuring sufficient firefighting capacity for the future.*

National Fire Protection Association (NFPA) - *An international nonprofit organization established in 1896, whose mission is to reduce the worldwide burden of fire and other hazards on the quality of life by providing and advocating consensus codes and standards, research, training, and education.*

National Wildfire Preparedness Day – *Started in 2014 by the National Fire Protection Association as a day for communities to work together to prepare for the approaching wildfire season. It is held annually on the first Saturday in May.*

Prescribed Burning (prescribed fire) –*The use of planned fire that is deliberately set under specific fuel and weather condition to accomplish a variety of management objectives and is under control until it burns out or is extinguished.*

Ready, Set, Go - *A program fire services use to help homeowners understand wildfire preparedness, awareness, and planning procedures for evacuation.*

Southern Group of State Foresters – *Organization whose members are the agency heads of the forestry agencies of the 13 southern states, Puerto Rico and the Virgin Islands.*

Stakeholders– *Individuals, groups, organizations, businesses or others who have an interest in wildland fire protection and may wish to review and/or contribute to the CWPP content.*

Wildfire or Wildland Fire – *An unplanned and uncontrolled fire spreading through vegetative fuels.*

Wildland/Urban Interface - *The presence of structures in locations in which the authority having jurisdiction (AHJ) determines that topographical features, vegetation, fuel types, local weather conditions and prevailing winds result in the potential for ignition of the structures within the area from flames and firebrands from a wildland fire* (NFPA 1144, 2008).

XI. SOURCES OF INFORMATION

Publications/Brochures/Websites:

- FIREWISE materials can be ordered at www.firewise.org
- Georgia Forestry Commission www.georgiafirewise.org
- Examples of successful wildfire mitigation programs can be viewed at the website for National Database of State and Local wildfire Hazard Mitigation Programs sponsored by the U.S. Forest Service and the Southern Group of State Foresters www.wildfireprograms.com
- Information about a variety of interface issues (including wildfire) can be found at the USFS website for Interface South: www.interfacesouth.org
- Information on codes and standards for emergency services including wildfire can be found at www.nfpa.org
- Information on FEMA Assistance to Firefighters Grants (AFG) can be found at www.firegrantsupport.com
- Information on National Fire Plan grants can be found at http://www.federalgrantswire.com/national-fire-plan--rural-fire-assistance.html
- Southern Wildfire Risk Assessment website SouthWRAP www.SouthernWildfireRisk.com
- Fire Adapted Communities www.fireadapted.org
- Ready, Set, Go www.wildlandfirersg.org
- National Wildfire Preparedness Day www.wildfireprepday.org

Appended Documents:

Bacon County Southern Wildfire Risk Assessment Summary Report (SWRA)

Bacon County Wildfire assessment scoresheets

All files that make up this plan are available in an electronic format from the Georgia Forestry Commission.

GEORGIA FORESTRY
COMMISSION

Georgia Forestry Commission
5645 Riggins Mill Rd.
Dry Branch, GA 31020

1-800-GA-TREES
www.GaTrees.org

The Georgia Forestry Commission provides leadership, service, and education in the protection and conservation of Georgia's forest resources.

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Appendix D. Hazard Identification, Risk, and Vulnerability (HRV)

Appendix D.I – Hazard Frequency Table

BACON County
HAZARD FREQUENCY TABLE

Hazard	Number of Events in Historic Record	Number of Years in Historic Record	Number of Events in Past 10 Years	Number of Events in Past 20 Years	Number of Events in Past 50 Years	Historic Recurrence Interval (years)	Historic Frequency % chance/year	Past 10 Year Record Frequency Per Year	Past 20 Year Record Frequency Per Year	Past 50 Year Record Frequency Per Year
Floods	15	71	6	8	15	4.73	21.13%	0.6	0.4	0.3
Thunderstorm/Wind	95	64	31	58	91	0.67	148.44%	3.1	2.9	1.82
Wildfire	2875	50	184	766	2875	0.02	5750.00%	18.4	76.6	287.5
Drought	1184	50	557	1080	1080	0.04	2368.00%	55.7	108	108
Tornado	16	66	1	7	12	4.13	24.24%	0.1	0.7	1.2
Hurricane/Tropical Storm	6	71	3	6	6	11.83	8.45%	0.3	0.6	0.12
Hail	38	71	19	20	38	1.87	53.52%	1.9	1	0.76
Severe Winter Storm	10	71	6	10	10	7.10	14.08%	0.6	0.5	0.2

NOTE: The historic frequency of a hazard event over a given period of time determines the historic recurrence interval. For example: If there have been 20 HazMat Releases in the County in the past 5 years, statistically you could expect that there will be 4 releases a year.

Realize that from a statistical standpoint, there are several variables to consider. 1) Accurate hazard history data and collection are crucial to an accurate recurrence interval and frequency. 2) Data collection and accuarcy has been much better in the past 10-20 years (NCDC weather records). 3) It is important to include all significant recorded hazard events which will include periodic updates to this table.

By updating and reviewing this table over time, it may be possible to see if certain types of hazard events are increasing in the past 10-20 years.

GEMA Worksheet #1 Identify the Hazard Step 1

Date: 9/13/22 What kinds of natural hazards can affect you?

Task A. List the hazards that may occur.

1. *Research newspapers and other historical records*
2. *Review existing plans and reports.*
3. *Talk to the experts in your community, state, or region.*
4. *Gather information on Internet Websites.*
5. *Next to the hazard list below, put a checkmark in the Task A boxes beside all hazards that may occur in your community or state.*

Task B. Focus on the most prevalent hazard in your community or state.

1. *Go to hazard Websites.*
2. *Locate your community or state on the Wesbite map.*
3. *Determine whether you are in a high-risk area. Get more localized information if necessary.*
4. *Next to the hazard list below, put a checkmark in the Task B boxes beside all hazards that post a significant threat.*

	Task A	Task B
Avalanche	___	___
Costal Erosion	___	___
Costal Storm	___	___
Dam Failure	___	___
Drought	x	x
Earthquake	___	___
Expansive Soils	___	___
Extreme Heat	___	___
Flood	**x**	**x**
Hailstorm	x	x
Hurricane	**x**	**x**
Land Slide	___	___
Severe Winter Storm	x	x
Tornado	**x**	**x**
Tsunami	___	___
Volcano	___	___
Wildfire	**x**	**x**
Windstorm	___	___
Hazard Material	___	___
Radiological	___	___
Other - Thunerstorm	x	x
Other_____	___	___
Other_____	___	___

*Note: **Bolded** hazards are addressed in this How-to Guide.*

Use this space to record information you find for each of the hazards you will be researching. Attach additional pages as necessary.

Hazard or Event Description (Type of hazard, date of event, number of injuries, cost and types of damage, etc.)	**Source of Information**	**Map Available for this Hazard?**	**Scale of Map**

GEMA Worksheet #2 Profile Hazard Events Step 2

County: Bacon Date: 09/22/22

How Bad Can It Get?

Task A. Obtain or create a base map.

GEMA will be providing you with a base map, USGS topos and DOQQ as part of our deliverables to local government for the planning process. Additionally, we will be providing you with detailed hazard layer coverages. These data layers originate from state or nationwide coverage or datasets. Therefore, it is important for local government to assess what you already have at the local level. It is important for you at the local level to have an idea of what existing maps you have available for the planning process. Some important things to think about:

1) What maps do we already have in the county that would be relevant to the planning process?
2) Have other local plans used maps or mapping technology where there is specific data that is also needed in my local plan?
3) What digital maps do we have?
4) Do we have any Geographic Information System (GIS) data, map themes or layers or databases here at the local level (or regional) that we can use?
5) If we do have any GIS data, where is it located at, and who is our local expert?
6) Are there any ongoing GIS or mapping initiatives at the local level in other planning or mapping efforts? If so, what are they, and what are the timetables for completion?
7) Are there mapping needs that have been identified at the local level in the past? If so, what are they and when were they identified?
8) Of the existing maps, GIS data and other digital mapping information, what confidence do we have at the local level that it is accurate data?

Please answer the above questions on a separate sheet of paper and attach to this worksheet.
It is important to realize that those counties that already have GIS and digital mapping, (ie: parcel level data, GPS fire hydrants, etc) higher levels of spatial accuracy and detail will exist for some data layers at the local level. However, for this planning process, that level of detail will not be needed on all layers in the overall mapping and analysis.

Title of Map	Scale	Date

You can use existing maps from:

- Road Maps
- USGS topographic maps or Digital Orthophoto Quarter Quads (DOQQ)
- Topographic and/or planimetric maps from other agencies
- Aerial topographic and/or planimetric maps
- Field Surveys
- GIS software
- CADD software
- Digitized paper map

Task B. Obtain a hazard event profile.	Task C. Record your hazard event profile information.
Avalanche	
Coastal Storm / Coastal Erosion 1. Get a copy of your FIRM. _____ 2. Verify that the FIRM is up-to-date and complete. _____ 3. Determine the annual rate of coastal erosion. _____ 4. Find your design wind speed. _____	1. Transfer the boundaries of your coastal storm hazard areas onto your base map. 2. Transfer the BFEs onto your base map. 3. Record the erosion rates on your base map: _____ 4. Record the design wind speed here and on your base map: _____
Dam Failure	
Drought	
Earthquake 1. Go to the http://geohazards.cr.usgs.gov Website. 2. Locate your planning area on the map. 3. Determine your PGA.	1. Record your PGA: _____ 2. If you have more than one PGA print, download or order your PGA map.
Expansive Soils	
Extreme Heat	
Flood 1. Get a copy of your FIRM. _____ 2. Verify the FIRM is up-to-date and complete. _____	1. Transfer the boundaries from your firm onto your base map (floodway, 100-yr flood, 500-yr flood). 2. Transfer the BFEs onto your base map.
Hailstorm	
Hurricane	
Land Subsidence	
Landslide 1. Map location of previous landslides. _____ 2. Map the topography. _____ 3. Map the geology. _____ 4. Identify thee high-hazard areas on your map. _____	1. Mark the areas susceptible to landslides onto your base map.
Severe Winter Storm	
Tornado 1. Find your design wind speed. _____	1. Record your design wind speed: _____ 2. If you have more than one design wind speed, print, download or copy your design wind speed zones, copy the boundary of your design wind speed zones on your base map, then record the design wind speed zones on your base map.
Tsunami	
Wildfire 1. Map the fuel models located within the urban-wildland interface areas. _____ 2. Map the topography. _____ 3. Determine your critical fire weather frequency. _____ 4. Determine your fire hazard severity. _____	1. Draw the boundaries of your wildfire hazard areas onto your base map.
Other 1. Map the hazard. _____	1. Record hazard event info on your base map.

Worksheet #4 Evaluate Alternative Mitigation Actions

1. Fill in the goal and its corresponding objective. Use a separate worksheet for each objective. The considerations under each criterion are suggested ones to use; you can revise these to reflect your own considerations (see Table 2-1).

2. Fill in the alternative actions that address the specific objectives the planning team identified in Worksheet #1.

*3. **Scoring:** For each consideration, indicate a plus (+) for favorable, and a negative (-) for less favorable.*

When you complete the scoring; negatives will indicate gaps or shortcomings in the particular action, which can be noted in the Comments section. For considerations that do not apply, fill in N/A for not applicable. Only leave a blank if you do not know an answer. In this case, make a note in the Comments section of the "expert" or source to consult to help you evaluate the criterion.

STAPLEE Criteria	**S**		**T**			**A**			**P**			**L**			**E**				**E**				
	(Social)		**(Technical)**			**administrative**			**(Political)**			**(Legal)**			**(Economic)**				**(Environmental)**				
Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
FLOOD																							
Goal #1: Prevent or reduce damage caused by floods in Bacon County and the City of Alma.																							
Objective #1: Minimize losses to existing and future structures, especially Critical Facilities, and Infrastructure, due to floods.																							
Action Step #1: *Conduct storm-water drainage replacement, repair, and cleaning and maintaining*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

canals in Bacon County and the City of Alma.																							
Action Step #2: *Plan flood and drainage projects in Bacon County in high-risk areas and areas lacking curb and gutter and/or adequate drainage structures.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Action Step #3: *Plan flood and drainage projects in the City of Alma in high-risk areas and areas lacking curb and gutter and/or adequate drainage structures, including the GA-32 Bypass east of Dixon St. and 16th St. Intersection. Will also be adding signage and removing some signage that isn't needed.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Action Step #4 (formerly #7): *After flood events or other hazard events in Bacon County and the City of Alma, attempt to analyze affected properties to determine whether events have occurred in the past and attempt to mitigate or purchase, if necessary.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Action Step #5 (formerly #9): *Continue membership in the NFIP by adopting updated ordinances, and FIRM maps as updates are available.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Action Step #6: *Clean drainage pipes throughout Bacon County and the City of Alma, including removing intruding roots and other blockages.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

THUNDERSTORMS AND WIND																							
Goal #1: Prevent or reduce damage caused by thunderstorms and winds in Bacon County and the City of Alma.																							
Objective #1: Minimize losses to existing and future structures, especially Critical Facilities, and Infrastructure, due to thunderstorms and winds.																							
Action Step #1: *Increase public awareness of weather radios, emergency procedures, and a local radio station as the emergency broadcast system station in Bacon County and the City of Alma through public safety announcements, publications, and other means. Continue to use the EMA website to notify the community of hazardous emergencies. An Early Warning System will also be installed to reach 80-85 percent of the community.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A	N/A
Action Step #2: *Disseminate information to the public concerning wind ratings, champion new construction being built to those minimum wind standards, and champion the*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

wind retrofitting of Critical Facilities and existing buildings in Bacon County.																							
Action Step #3: *Work with Red Cross to update approved designated emergency shelter locations annually. Conduct a public information campaign to raise awareness of shelters.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
WILDFIRE																							
Goal #1: Prevent or reduce damage caused by wildfire in Bacon County and the City of Alma.																							
Objective #1: Minimize losses to existing and future structures (especially Critical Facilities and Infrastructure) and woodlands due to wildfire.																							
Action Step #1: *Provide additional first responder training, air units, air unit chargers, Class A Pumper and Fire Knocker trucks, and other equipment to all Bacon County Fire Departments for wildfire use.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

Action Step #2: *Partner with the Georgia Forestry Service and other fire service personnel to train Bacon County Fire Department personnel on wildfire strategy and tactics.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #3: *Support the enforcement of the local governments' burn ordinances and bans and promote hazardous fuel reduction by prescribed burning, mechanical treatment, or chemical treatment carried out and promoted by the GA Forestry Commission in Bacon County and the City of Alma. The agricultural property requires a permit from Georgia Forestry.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Action Step #4: *Acquire property for new Bacon County Volunteer Fire Stations and/or new additions to those existing stations,*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

including the Scuffletown Fire District.																							
Action Step #5 (formerly #6): *Regularly update the fire master plan.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #6 (formerly #7): *In the City of Alma, replace the four-inch and smaller water lines with six-inch water lines and hydrants.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #7 (formerly #8): *Encourage agencies and private property owners during preplanning to trim tree lines and create fire buffers/breaks around Critical Facilities, new and existing homes, businesses, and utilities in Bacon County and the City of Alma.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

Action Step #8 (formerly #9): *Create new ordinances and enforce existing ordinances for new and existing construction to help pre-disaster wildfire mitigation.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	
Action Step #9 (formerly #10): *Code Enforcement to continue to work with developers and homeowners to pre-plan each building site and/or subdivision to help pre-disaster wildfire mitigation.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	
Action Step #10 (formerly #11): *Maintain HazMat and FF 1 Certifications and search outbuilding for FF 2 Training Certification.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #11 (formerly #12: *Apply for and purchase one turbo draft for wildfire usage.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Objective #2: Obtain a FireWise Community Status by educating the Alma-Bacon County Fire Department personnel and the public on wildfire hazards and pre-disaster mitigation.																							

Action Step #1: *Maintain good public relations between the citizens of Bacon County, the City of Alma, and the Fire Department, and plan to increase awareness and resources through education sessions with local schools and daycare centers.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #2: *Need digital copies of NFPA-299 "Protection of Life and Property from Wildfire" and other publications for the use of Bacon County and the City of Alma and public use.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #3: *Continue to educate Bacon County and City of Alma communities and citizens on the pre-disaster mitigation of wildfire and use and develop grade school-based programs to educate children.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

Action Step #4: *Plan RFD meetings in Bacon County and the City of Alma and hold joint mock fire drills for all fire departments.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Objective #3: Implement priorities, projects, and recommendations in GA Forestry Commission's "Community Wildfire Protection Plan."																							
Action Step #1: *Encourage a minimum of 30 feet of defensible space around all governmental structures and recommend to homeowners and community stakeholders that they create the same space through the trimming of shrubs, vines, and overhanging limbs, replacement of flammable plants with less flammable varieties, and removal of vegetation around chimneys.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #2: *Reduce structural ignitability by cleaning flammable vegetative materials from roofs and gutters, store firewood*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

appropriately, install skirting around raised structures, store water hoses for easy access, and replace pine straw and mulch with less flammable landscaping materials around all governmental structures and recommend same to homeowners and community stakeholders.																							
Action Step #3 (formerly #4): *Encourage driveway access/right-of-way clearance by maintaining vertical and horizontal clearance for emergency equipment and installing adequate culvert lengths to allow emergency vehicle access.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #4 (formerly #5): *Ensure road access by identifying needed improvements, and as roads are upgraded, meet*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

current GDOT standards.																							
Action Step #5 (formerly #6): *Examine existing codes and ordinances and amend and enforce existing building codes as they relate to skirting, propane tank locations, public nuisances (trash/debris), property address marking standards, and other relevant concerns; at such time as the development of zoning, planning and subdivision ordinances become practical, include fire department and emergency services input into the design of these.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #6 (formerly #8): *Encourage railroads to maintain their right-of-way better, eliminating brush*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

and grass through herbicide and mowing. Maintain firebreaks along right-of-way adjacent to residential areas.																							
Action Step #7 (formerly #9): *Encourage Georgia Forestry to continue to improve existing fire lines/fire breaks by reducing hazardous fuels by cleaning and re-harrowing existing lines.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #8 (formerly #10): *Inspect, maintain, and improve access to existing dry hydrants; add signage along roads to mark the hydrants.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #9 (former #12): *Ensure all fire stations and firefighters are equipped with wildland hand tools and lightweight PPE gear (45 sets) and investigate the need for brush trucks.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

Action Step #10 (formerly #13): *Maintain mobile generators to provide backup power where needed.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #11 (formerly #14): *Ensure that all personnel is trained in wildfire suppression.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #12 (formerly #15 & #16): *Encourage Georgia Forestry to continue to use their website to provide a video to allow education to the public with a "Firewise" Workshop for Bacon County community leaders.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #13 (formerly #17): *Develop and distribute Firewise informational packets to code enforcement and insurance agents.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

Action Step #14 (formerly #19): *Invite the Alma Times to community "Firewise" functions for news coverage and regularly submit press releases documenting wildfire risk improvements in Bacon County.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
DROUGHT																							
Goal #1 (Formerly Goal #3): Prevent or reduce damage caused by Drought in Bacon County and the City of Alma.																							
Objective #1: Minimize losses to existing and future structures, especially Critical Facilities, and Infrastructure, due to Drought. (Former Objective 3.1)																							
Action Step #1: *Maintain water and sewer lines and equipment prone to failure in unincorporated Bacon County and the City of Alma.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #2: *Work with the County Extension Agent to distribute literature on best management practices in Bacon County and the City of Alma.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
TORNADO																							
Goal #1: Prevent or reduce damage caused by tornadoes in Bacon County and the City of Alma.																							
Objective #1: Minimize losses to existing and future structures, especially Critical Facilities, and Infrastructure, due to tornadoes.																							

Action Step #1: *Continue to use the building inspection program to inspect for adequate tie-downs on manufactured housing in the City of Alma.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #2: *Plan pre-disaster mitigation in the tornado and other hazard seasons by preparing public service announcements and brochures and soliciting business participation in distributing information.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #3 (formerly #4): *Educate the public and market hazardous weather alert systems such as sirens, and weather radios, in the City of Alma and populated areas of Bacon County, and pursue the Community*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

Early Warning System.																						
HURRICANES/TROPICAL STORMS																						
Goal #1(Formerly Goal #8): Prevent or reduce damage caused by hurricanes/tropical storms in Bacon County and the City of Alma.																						
Objective #1: Minimize losses to existing and future structures, especially Critical Facilities, infrastructure, and the public, due to hurricanes/tropical storms. (Formerly Objective 8.1)																						
Action Step #1: *Coordinate with Red Cross to assemble/supply a list of facilities used as public shelters for emergency purposes and test current shelters for safety and effectiveness in Bacon County and the City of Alma.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #2: *Work with GDOT to improve the designated SR-32 evacuation route, including 4-laning throughout Bacon County.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

Action Step #3: *Seek funding for continued EMA updated information online site to educate and inform the public on hazardous weather information, closings, events, etc.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Objective #2: Advise the public of health and safety precautions and procedures necessary during hurricanes/tropical storms and other events, and on pre-disaster mitigation, in general, in Bacon County and the City of Alma.																							
Action Step #1: *Continue to make the webpage available to disseminate literature from state and local agencies regarding disaster health and safety issues in Bacon County and the City of Alma.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #2 (formerly #3): *Distribute information concerning pre-disaster mitigation to area news markets and speak at schools and civic clubs in Bacon*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

County and the City of Alma.																						
Objective #3: Ensure reliable electrical power and communications efficiency at Critical Facilities and agencies during hurricanes/tropical storms and other events in Bacon County and the City of Alma.																						
Action Step #1: *Purchase generators and trailers for use at the school cafeteria and shelter (all 11,096 Bacon County residents) and nursing home (88 patients) in Bacon County and the City of Alma.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #2: *Continue to purchase communications equipment (radios, batteries, and chargers) with multi-channel capabilities. Upgrade existing equipment, including towers, to the best available. Store them at certain Critical*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

Facilities in Bacon County and the City of Alma, including the area schools.																							
HAIL																							
Goal #1: Prevent or reduce damage caused by hail in Bacon County and the City of Alma.																							
Objective #1: Minimize losses to existing and future structures, especially Critical Facilities, and Infrastructure, due to hail.																							
Action Step #1 (formerly #2): *Encourage the public to include hail damage under insurance coverage and store equipment and vehicles under shelters in Bacon County and the City of Alma.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
SEVERE WINTER STORM																							
Goal #1: Prevent or reduce damage caused by severe winter storms in Bacon County and the City of Alma.																							
Objective #1: Minimize losses to existing and future structures, especially Critical Facilities, and Infrastructure, due to severe winter storms.																							
Action Step #1: *Continue the policy of wrapping exposed piping with insulation and installing new insulation layers at Critical Facilities in Bacon County and the City of Alma.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

Action Step #2: *Maintain temperatures above 32 degrees to prevent freezing in government-owned occupied and unoccupied structures in Bacon County and the City of Alma.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #3: *Disseminate information to the public concerning severe winter storms, champion new construction being built to appropriate low-temperature ratings, and champion existing buildings being retrofitted in Bacon County and the City of Alma.*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

Appendix E. Copies of Required Planning Documents

Appendix E.I – Agendas

SOUTHERN GEORGIA REGIONAL COMMISSION

BACON COUNTY AND THE CITY OF ALMA
HAZARD MITIGATION PLAN UPDATE
WORKSHOP #1

HAZARDS AND CRITICAL FACILITIES

Date: 1/25/22
Time 10:00 AM

I. Welcome and introductions

II. Purpose of Workshop

III. Hazards Review

IV. Critical Facilities Review

V. Questions and Comments

VII. Closing Remarks
   a. Labor Match Form
   b. 2nd Workshop – Action Steps, February 28, 2022 – 10:00 AM – 12:00

SOUTHERN GEORGIA REGIONAL COMMISSION

BACON COUNTY AND THE CITY OF ALMA
HAZARD MITIGATION PLAN UPDATE
WORKSHOP #2

ACTION STEPS AND ACCOMPLISHMENTS

Date: 2/22/22
Time 10:00 AM

I. Welcome and introductions

II. Purpose of Workshop

III. Action Steps and Accomplishments

V. Questions and Comments

VII. Closing Remarks
   a. Labor Match Form
   b. 3rd Workshop – Action Steps, March 22, 2022 – 10:00 AM – 12:00

SOUTHERN GEORGIA REGIONAL COMMISSION

BACON COUNTY AND THE CITY OF ALMA
HAZARD MITIGATION PLAN UPDATE
WORKSHOP #3

ACTION STEPS FINAL REVIEW

Date: 3/22/22
Time 10:00 AM

I. Welcome and introductions

II. Purpose of Workshop

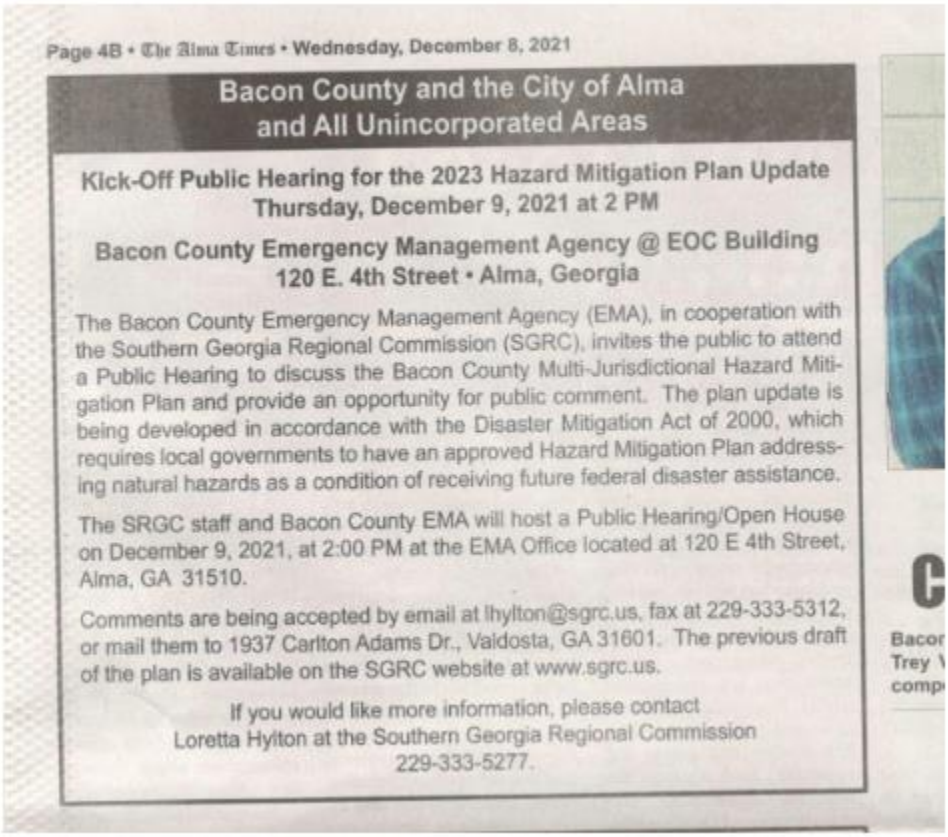
III. Action Steps Final Review and Draft Review

V. Questions and Comments

VII. Closing Remarks
   a. Labor Match Form

Appendix E.II– Public Hearing Notices

1st Public Hearing



Bacon County and the City of Alma and All Unincorporated Areas

Kick-Off Public Hearing for the 2023 Hazard Mitigation Plan Update
Thursday, December 9, 2021 at 2 PM

Bacon County Emergency Management Agency @ EOC Building
120 E. 4th Street • Alma, Georgia

The Bacon County Emergency Management Agency (EMA), in cooperation with the Southern Georgia Regional Commission (SGRC), invites the public to attend a Public Hearing to discuss the Bacon County Multi-Jurisdictional Hazard Mitigation Plan and provide an opportunity for public comment. The plan update is being developed in accordance with the Disaster Mitigation Act of 2000, which requires local governments to have an approved Hazard Mitigation Plan addressing natural hazards as a condition of receiving future federal disaster assistance.

The SRGC staff and Bacon County EMA will host a Public Hearing/Open House on December 9, 2021, at 2:00 PM at the EMA Office located at 120 E 4th Street, Alma, GA 31510.

Comments are being accepted by email at lhylton@sgrc.us, fax at 229-333-5312, or mail them to 1937 Carlton Adams Dr., Valdosta, GA 31601. The previous draft of the plan is available on the SGRC website at www.sgrc.us.

If you would like more information, please contact
Loretta Hylton at the Southern Georgia Regional Commission
229-333-5277.

2nd Public Hearing

PARTNERS SIGN-IN SHEET FOR HAZMIT PLAN MEETING

NAME	AGENCY/TITLE	E-MAIL ADDRESS	INITALS
BATTEN, ANDY	BACON CO SHERIFF OFFICE/ SHERIFF	abatten@baconcounty.org	
BEACH, TYLER	BACON CO FIRE & EMS/ COMPLIANCE OFFICER	tbeach@baconcounty.org	
BENNETT, SHANE	BACOC CO SCHOOL/PUBLIC SAFETY DIR	shane.bennett@bcraiders.com	
BRINSON, ANDRE	CITY OF ALMA POLICE DEPT/ CHIEF	andre.brinson@cityofalmaga.gov	
CRACE, AL	CITY OF ALMA/ CITY MANAGER	al.crace@cityofalmaga.gov	
EDGAR, SAM	CITY OF ALMA/ ATTORNEY	skedgar@atc.cc	
ELLIS, KEVIN	BACON CO DEVELOPMENT AUTHORITY/ DIRECTOR	kevin@baconeda.com	
FOSKEY, RICHARD	BACON CO/ COUNTY COMM CHAIR	rfoskey@baconcounty.org	
HAGANS, LEE	BACON CO COMMISSIONERS/ COMMISSIONER	leehagans@accessatc.net	
HUGHES, LISA	BACON CO SCHOOL BOARD/ CHAIRMAN	shopjuliesboutique@gmail.com	
HYLTON, LORETTA	SGRC/ CHIEF PLANNER	lhylton@sgrc.us	
JINKS, SHANNON	CITY OF ALMA/ COUNCIL MEMBER	shannonajinks@gmail.com	
JOHNSON, BILL	BACON CO /TAX COMMISIONER	bjohnson@baconcounty.org	
JONES, RICHARD	CITY OF ALMA PUBLIC WORKS/ DIRECTOR	richard.jones@cityofalmaga.gov	
LEWIS, BERNITA	CITY OF ALMA/COUNCIL MEMBER	bernita55@me.com	
LOTT, KYLE	BACON CO HOSPITAL	klott@bchsi.org	
LOVETT, WILL	BACON CO EXTENSION AGENT/ ANR AGENT	welovett@uga.edu	
MAXIE, BEN	BACON CO HOSPITAL/EMERGENCY COORDINATOR	bmaxie@bchsi.org	
MEDDERS, CHARLEY	BACON CO ROAD DEPT/SUPER. & EMA DEPUTY DIR	cmedders@baconcounty.org	
MEDDERS, JUNE	BACON CO/ EMS & EMA ADMIN ASSISTANT	jmedders@baconcounty.org	
MEYERS, SHELBY	GEMA/ PROGRAM MANAGER	shelby.meyers@gema.ga.gov	
MILES, DOUG	BACON CO TAX ACCESSOR/CHIEF APPRAISOR	dmiles@baconcounty.org	
MORRISON, MICHAEL	CITY OF ALMA/ COUNCIL MEMBER	mlmorrison@atc.cc	
OUTLER. ARTHUR	CITY OF ALMA/ CODE ENFORCEMENT& BLDG INSPECTOR	arthur.outler@cityofalmaga.gov	
PAGE, TRACY	BACON CO PDC- GA DOC/ WARDEN	tracy.page@gdc.ga.gov	
REWIS, PETE	GA FORESTRY/ CHIEF RANGER	jprewis@gfc.state.ga.us	
ROWLAND, JUDY	BACON CO SCHOOL/SUPERINTENDENT	judy.rowland@bcraiders.com	
SIMMONS, GREG	CITY OF ALMA/ ALMA PLANT MANAGER	gregg.simmons@cityofalmaga.gov	
SMITH, LARRY	BACON CO COMMISSIONERS/ COMMISSIONER		
STATEN, YVONNE	CITY OF ALMA/ CITY CLERK	cityclerk@atc.cc	
SWEAT, JERRY	CITY OF ALMA/COUNCIL MEMBER	jlsweat@atc.cc	
SWEAT, MARY LEE	BACON CO/ COUNTY CLERK	marylee@baconcounty.org	
SWEAT. LONANN	BACON CO COMMISSIONERS/ COMMISSIONER	lonannlsweat@gmail.com	

DATE___12/09/2021 @ 2PM_____

PARTNERS SIGN-IN SHEET FOR HAZMIT PLAN MEETING

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DATE___12/09/2021 @ 2PM_____

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DATE 1-25-2022

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DATE 1-25-2022

PARTNERS SIGN-IN SHEET FOR HAZMIT PLAN MEETING

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DATE_____2/22/2022_____

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DATE___03/22/2022 @ 1:30PM_____

Appendix E.IV. – Adoption Resolutions

Appendix F. Reports and Inventories

Appendix F.I – General Historic Reports

Storm Events Database

Search Results for Bacon County, Georgia

Event Types: Flood

Bacon county contains the following zones:
Bacon

4 events were reported between 01/01/1950 and 06/30/2022 (26479 days)

Summary Info:

Number of County/Zone areas affected:	2
Number of Days with Event:	4
Number of Days with Event and Death:	0
Number of Days with Event and Death or Injury:	0
Number of Days with Event and Property Damage:	3
Number of Days with Event and Crop Damage:	0
Number of Event Types reported:	1

Column Definitions:
'Mag': Magnitude, 'Dth': Deaths, 'Inj': Injuries, 'PrD': Property Damage, 'CrD': Crop Damage

*Click on **Location** below to display details.*
Available Event Types have changed over time. Please refer to the Database Details for more information.

Sort By: Date/Time (Oldest)

Location	County/Zone	St.	Date	Time	T.Z.	Type	Mag	Dth	Inj	PrD	CrD
Totals:								0	0	102.50K	0.00K
BACON (ZONE)	BACON (ZONE)	GA	03/01/1998	00:01	EST	Flood		0	0	100.00K	0.00K
ALMA	BACON CO.	GA	08/27/2002	15:20	EST	Flood		0	0	0.00K	0.00K
ALMA	BACON CO.	GA	08/19/2013	23:30	EST-5	Flood		0	0	2.00K	0.00K
COFFEE	BACON CO.	GA	06/10/2015	18:00	EST-5	Flood		0	0	0.50K	0.00K
Totals:								0	0	102.50K	0.00K

Storm Events Database

Search Results for Bacon County, Georgia

Event Types: Thunderstorm Wind

95 events were reported between 01/01/1950 and 06/30/2022 (26479 days)

Summary Info:

Number of County/Zone areas affected:	1
Number of Days with Event:	79
Number of Days with Event and Death:	0
Number of Days with Event and Death or Injury:	1
Number of Days with Event and Property Damage:	19
Number of Days with Event and Crop Damage:	1
Number of Event Types reported:	1

Column Definitions:
'Mag': Magnitude, 'Dth': Deaths, 'Inj': Injuries, 'PrD': Property Damage, 'CrD': Crop Damage

Wind Magnitude Definitions:
Measured Gust:'MG', Estimated Gust:'EG', Measured Sustained:'MS', Estimated Sustained:'ES'

*Click on **Location** below to display details.*
Available Event Types have changed over time. Please refer to the Database Details for more information.

Select: All Wind Speeds

Sort By: Date/Time (Oldest)

Location	County/Zone	St.	Date	Time	T.Z.	Type	Mag	Dth	Inj	PrD	CrD
Totals:								0	2	104.00K	1.50K
BACON CO.	BACON CO.	GA	08/04/1957	20:00	CST	Thunderstorm Wind	65 kts.	0	0	0.00K	0.00K
BACON CO.	BACON CO.	GA	05/23/1961	11:57	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
BACON CO.	BACON CO.	GA	06/14/1963	16:00	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
BACON CO.	BACON CO.	GA	05/20/1969	18:00	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
BACON CO.	BACON CO.	GA	08/04/1970	16:23	CST	Thunderstorm Wind	52 kts.	0	0	0.00K	0.00K
BACON CO.	BACON CO.	GA	01/15/1971	13:00	CST	Thunderstorm Wind	55 kts.	0	0	0.00K	0.00K
BACON CO.	BACON CO.	GA	06/27/1972	14:22	CST	Thunderstorm Wind	50 kts.	0	0	0.00K	0.00K
BACON CO.	BACON CO.	GA	12/30/1973	13:30	CST	Thunderstorm Wind	55 kts.	0	0	0.00K	0.00K
BACON CO.	BACON CO.	GA	05/03/1978	19:00	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
BACON CO.	BACON CO.	GA	06/29/1978	16:00	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
BACON CO.	BACON CO.	GA	07/06/1980	15:45	CST	Thunderstorm Wind	61 kts.	0	0	0.00K	0.00K
BACON CO.	BACON CO.	GA	07/06/1980	16:15	CST	Thunderstorm Wind	52 kts.	0	0	0.00K	0.00K
BACON CO.	BACON CO.	GA	06/05/1981	18:58	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
BACON CO.	BACON CO.	GA	06/16/1982	14:00	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
BACON CO.	BACON CO.	GA	11/17/1986	12:45	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
BACON CO.	BACON CO.	GA	05/23/1989	13:50	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
BACON CO.	BACON CO.	GA	11/16/1989	00:35	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
BACON CO.	BACON CO.	GA	11/16/1989	00:55	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
BACON CO.	BACON CO.	GA	03/03/1991	05:00	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
BACON CO.	BACON CO.	GA	03/03/1991	05:30	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
BACON CO.	BACON CO.	GA	06/04/1991	19:00	CST	Thunderstorm Wind	0 kts.	0	2	0.00K	0.00K
Alma	BACON CO.	GA	07/25/1995	17:32	EST	Thunderstorm Wind	0 kts.	0	0	0.50K	0.00K
BACON CO.	BACON CO.	GA	11/07/1995	17:15	EST	Thunderstorm Wind	0 kts.	0	0	2.00K	0.00K
ALMA	BACON CO.	GA	03/06/1996	16:00	EST	Thunderstorm Wind	60 kts.	0	0	0.00K	1.50K
ROCKINGHAM	BACON CO.	GA	10/26/1997	16:00	EST	Thunderstorm Wind		0	0	2.50K	0.00K

ALMA	BACON CO.	GA	02/28/1998	02:05	EST	Thunderstorm Wind		0	0	1.50K	0.00K
ALMA	BACON CO.	GA	05/08/1998	13:30	EST	Thunderstorm Wind		0	0	2.00K	0.00K
ALMA	BACON CO.	GA	06/05/1998	20:17	EST	Thunderstorm Wind		0	0	1.50K	0.00K
COFFEE	BACON CO.	GA	06/27/1998	13:55	EST	Thunderstorm Wind		0	0	0.50K	0.00K
ALMA	BACON CO.	GA	07/03/1998	18:49	EST	Thunderstorm Wind		0	0	1.50K	0.00K
ALMA	BACON CO.	GA	08/24/1999	20:30	EST	Thunderstorm Wind		0	0	2.50K	0.00K
ALMA	BACON CO.	GA	03/30/2000	07:28	EST	Thunderstorm Wind		0	0	1.50K	0.00K
ALMA	BACON CO.	GA	06/21/2000	17:45	EST	Thunderstorm Wind		0	0	2.50K	0.00K
ALMA	BACON CO.	GA	08/09/2000	16:30	EST	Thunderstorm Wind		0	0	1.50K	0.00K
ALMA	BACON CO.	GA	08/09/2000	17:15	EST	Thunderstorm Wind		0	0	2.50K	0.00K
ALMA	BACON CO.	GA	06/30/2001	15:45	EST	Thunderstorm Wind		0	0	0.00K	0.00K
ALMA	BACON CO.	GA	07/01/2001	15:00	EST	Thunderstorm Wind		0	0	3.50K	0.00K
COUNTYWIDE	BACON CO.	GA	12/24/2002	10:40	EST	Thunderstorm Wind	58 kts. E	0	0	10.00K	0.00K
ALMA	BACON CO.	GA	12/24/2002	10:50	EST	Thunderstorm Wind		0	0	50.00K	0.00K
ALMA	BACON CO.	GA	12/24/2002	11:00	EST	Thunderstorm Wind		0	0	2.00K	0.00K
ALMA	BACON CO.	GA	02/22/2003	11:30	EST	Thunderstorm Wind		0	0	10.00K	0.00K
ALMA	BACON CO.	GA	05/02/2003	22:55	EST	Thunderstorm Wind	55 kts. EG	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	05/11/2003	19:25	EST	Thunderstorm Wind	60 kts. EG	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	07/29/2003	17:45	EST	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	05/02/2004	16:11	EST	Thunderstorm Wind	60 kts. EG	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	07/15/2004	16:00	EST	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	04/08/2006	15:30	EST	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	05/10/2006	19:45	EST	Thunderstorm Wind	55 kts. EG	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	06/28/2006	16:45	EST	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	06/28/2006	16:49	EST	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ROCKINGHAM	BACON CO.	GA	02/25/2007	16:25	EST-5	Thunderstorm Wind	52 kts. EG	0	0	0.00K	0.00K
ROCKINGHAM	BACON CO.	GA	07/20/2007	17:30	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	08/11/2007	17:10	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	05/21/2008	03:20	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ROCKINGHAM	BACON CO.	GA	07/05/2008	17:00	EST-5	Thunderstorm Wind	61 kts. EG	0	0	1.00K	0.00K
ALMA	BACON CO.	GA	07/28/2008	15:48	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	07/28/2008	16:20	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	06/22/2009	16:46	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
NEW LACY	BACON CO.	GA	12/02/2009	15:25	EST-5	Thunderstorm Wind	52 kts. EG	0	0	0.00K	0.00K
(AMG)BACON CO ARPT A	BACON CO.	GA	06/15/2010	20:10	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
(AMG)BACON CO ARPT A	BACON CO.	GA	03/09/2011	15:53	EST-5	Thunderstorm Wind	50 kts. EG	0	0	1.00K	0.00K
ALMA	BACON CO.	GA	03/09/2011	16:22	EST-5	Thunderstorm Wind	50 kts. EG	0	0	1.00K	0.00K
COFFEE	BACON CO.	GA	05/27/2011	20:15	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
NEW LACY	BACON CO.	GA	05/27/2011	20:15	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	02/24/2012	15:10	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
(AMG)BACON CO ARPT A	BACON CO.	GA	02/24/2012	15:30	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ROCKINGHAM	BACON CO.	GA	05/09/2012	15:50	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ROCKINGHAM	BACON CO.	GA	07/10/2012	19:45	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ROCKINGHAM	BACON CO.	GA	07/30/2012	20:30	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
NEW LACY	BACON CO.	GA	07/30/2012	20:30	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
COFFEE	BACON CO.	GA	06/25/2013	15:05	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	08/17/2013	19:05	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	06/22/2014	12:24	EST-5	Thunderstorm Wind	52 kts. MG	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	06/12/2015	15:55	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	06/12/2015	16:15	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ROCKINGHAM	BACON CO.	GA	06/12/2015	16:15	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	06/17/2015	16:40	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	06/17/2015	16:45	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	07/02/2015	16:46	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
COFFEE	BACON CO.	GA	07/02/2015	16:56	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	07/14/2015	14:55	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	08/28/2015	13:32	EST-5	Thunderstorm Wind	45 kts. EG	0	0	1.00K	0.00K
COFFEE	BACON CO.	GA	02/16/2016	00:54	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
COFFEE	BACON CO.	GA	04/01/2016	17:00	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	06/17/2016	19:28	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ROCKINGHAM	BACON CO.	GA	07/09/2016	18:00	EST-5	Thunderstorm Wind	45 kts. EG	0	0	2.00K	0.00K
COFFEE	BACON CO.	GA	02/07/2017	16:00	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
(AMG)BACON CO ARPT A	BACON CO.	GA	05/04/2017	13:10	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
(AMG)BACON CO ARPT A	BACON CO.	GA	06/09/2018	17:30	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
(AMG)BACON CO ARPT A	BACON CO.	GA	07/21/2018	10:30	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
SESSOMS STATION	BACON CO.	GA	04/06/2019	12:30	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	04/19/2019	09:55	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
SESSOMS STATION	BACON CO.	GA	06/20/2019	18:20	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
GUYSIE	BACON CO.	GA	02/06/2020	20:10	EST-5	Thunderstorm Wind	60 kts. EG	0	0	0.00K	0.00K
SESSOMS STATION	BACON CO.	GA	04/24/2021	11:00	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Totals:								0	2	104.00K	1.50K

Storm Events Database

Search Results for Bacon County, Georgia

Event Types: Wildfire

Bacon county contains the following zones:
Bacon

1 events were reported between 01/01/1950 and 06/30/2022 (26479 days)

Summary Info:

Number of County/Zone areas affected:	1
Number of Days with Event:	1
Number of Days with Event and Death:	0
Number of Days with Event and Death or Injury:	0
Number of Days with Event and Property Damage:	0
Number of Days with Event and Crop Damage:	0
Number of Event Types reported:	1

Column Definitions:
'Mag': Magnitude, 'Dth': Deaths, 'Inj': Injuries, 'PrD': Property Damage, 'CrD': Crop Damage

*Click on **Location** below to display details.*
Available Event Types have changed over time. Please refer to the Database Details for more information.

Sort By: Date/Time (Oldest)

Location	County/Zone	St.	Date	Time	T.Z.	Type	Mag	Dth	Inj	PrD	CrD
Totals:								0	0	0.00K	0.00K
BACON (ZONE)	BACON (ZONE)	GA	07/29/2014	14:00	EST-5	Wildfire		0	0	0.00K	0.00K
Totals:								0	0	0.00K	0.00K

Storm Events Database

Search Results for Bacon County, Georgia

Event Types: Drought

Bacon county contains the following zones:
Bacon

1 events were reported between 01/01/1950 and 06/30/2022 (26479 days)

Summary Info:

Number of County/Zone areas affected:	1
Number of Days with Event:	1
Number of Days with Event and Death:	0
Number of Days with Event and Death or Injury:	0
Number of Days with Event and Property Damage:	0
Number of Days with Event and Crop Damage:	0
Number of Event Types reported:	1

Column Definitions:
'Mag': Magnitude, 'Dth': Deaths, 'Inj': Injuries, 'PrD': Property Damage, 'CrD': Crop Damage

*Click on **Location** below to display details.*
Available Event Types have changed over time. Please refer to the Database Details for more information.

Sort By: Date/Time (Oldest)

Location	County/Zone	St.	Date	Time	T.Z.	Type	Mag	Dth	Inj	PrD	CrD
Totals:								0	0	0.00K	0.00K
BACON (ZONE)	BACON (ZONE)	GA	12/01/2006	00:00	EST-5	Drought		0	0	0.00K	0.00K
Totals:								0	0	0.00K	0.00K

Storm Events Database

Search Results for Bacon County, Georgia

Event Types: Tornado

16 events were reported between 01/01/1950 and 06/30/2022 (26479 days)

Summary Info:

Number of County/Zone areas affected:	1
Number of Days with Event:	14
Number of Days with Event and Death:	0
Number of Days with Event and Death or Injury:	5
Number of Days with Event and Property Damage:	12
Number of Days with Event and Crop Damage:	0
Number of Event Types reported:	1

Column Definitions:
'Mag': Magnitude, 'Dth': Deaths, 'Inj': Injuries, 'PrD': Property Damage, 'CrD': Crop Damage

*Click on **Location** below to display details.*
Available Event Types have changed over time. Please refer to the Database Details for more information.

Select: All Tornadoes

Sort By: Date/Time (Oldest)

Location	County/Zone	St.	Date	Time	T.Z.	Type	Mag	Dth	Inj	PrD	CrD
Totals:								0	14	3.953M	0.00K
BACON CO.	BACON CO.	GA	11/29/1957	13:45	CST	Tornado	F2	0	6	25.00K	0.00K
BACON CO.	BACON CO.	GA	04/12/1961	06:45	CST	Tornado	F2	0	2	25.00K	0.00K
BACON CO.	BACON CO.	GA	01/06/1962	06:20	CST	Tornado	F2	0	0	25.00K	0.00K
BACON CO.	BACON CO.	GA	04/18/1969	10:35	CST	Tornado	F2	0	0	2.50K	0.00K
BACON CO.	BACON CO.	GA	01/15/1971	13:00	CST	Tornado	F2	0	0	25.00K	0.00K
BACON CO.	BACON CO.	GA	02/22/1983	17:05	CST	Tornado	F1	0	0	25.00K	0.00K
BACON CO.	BACON CO.	GA	02/22/1983	17:05	CST	Tornado	F1	0	3	250.00K	0.00K
ALMA	BACON CO.	GA	10/26/1997	16:45	EST	Tornado	F2	0	1	200.00K	0.00K
ALMA	BACON CO.	GA	03/30/2000	07:37	EST	Tornado	F0	0	0	25.00K	0.00K
ALMA	BACON CO.	GA	11/12/2002	08:20	EST	Tornado	F0	0	0	100.00K	0.00K
ALMA	BACON CO.	GA	12/24/2002	10:55	EST	Tornado	F0	0	0	40.00K	0.00K
ALMA	BACON CO.	GA	12/24/2002	10:55	EST	Tornado	F0	0	0	10.00K	0.00K
ALMA	BACON CO.	GA	03/20/2003	13:25	EST	Tornado	F0	0	0	0.00K	0.00K
ALMA BACON CO ARPT	BACON CO.	GA	12/28/2005	19:45	EST	Tornado	F0	0	0	200.00K	0.00K
SESSOMS STATION	BACON CO.	GA	12/02/2009	14:45	EST-5	Tornado	EF1	0	0	3.000M	0.00K
ROCKINGHAM	BACON CO.	GA	01/04/2015	13:03	EST-5	Tornado	EF1	0	2	0.00K	0.00K
Totals:								0	14	3.953M	0.00K

Storm Events Database

Search Results for Bacon County, Georgia

Event Types: Hurricane (Typhoon)

Bacon county contains the following zones:
Bacon

0 events were reported between 01/01/1950 and 06/30/2022 (26479 days)

Summary Info:

Number of County/Zone areas affected:	0
Number of Days with Event:	0
Number of Days with Event and Death:	0
Number of Days with Event and Death or Injury:	0
Number of Days with Event and Property Damage:	0
Number of Days with Event and Crop Damage:	0
Number of Event Types reported:	0

Column Definitions:
'Mag': Magnitude, 'Dth': Deaths, 'Inj': Injuries, 'PrD': Property Damage, 'CrD': Crop Damage

*Click on **Location** below to display details.*
Available Event Types have changed over time. Please refer to the Database Details for more information.

Sort By: Date/Time (Oldest)

Location	County/Zone	St.	Date	Time	T.Z.	Type	Mag	Dth	Inj	PrD	CrD
Totals:								0	0	0.00K	0.00K

Storm Events Database

Search Results for Bacon County, Georgia

Event Types: Tropical Storm

Bacon county contains the following zones:
Bacon

5 events were reported between 01/01/1950 and 06/30/2022 (26479 days)

Summary Info:

Number of County/Zone areas affected:	1
Number of Days with Event:	5
Number of Days with Event and Death:	0
Number of Days with Event and Death or Injury:	0
Number of Days with Event and Property Damage:	0
Number of Days with Event and Crop Damage:	0
Number of Event Types reported:	1

Column Definitions:
'Mag': Magnitude, 'Dth': Deaths, 'Inj': Injuries, 'PrD': Property Damage, 'CrD': Crop Damage

*Click on **Location** below to display details.*
Available Event Types have changed over time. Please refer to the Database Details for more information.

Sort By: Date/Time (Oldest)

Location	County/Zone	St.	Date	Time	T.Z.	Type	Mag	Dth	Inj	PrD	CrD
Totals:								0	0	0.00K	0.00K
BACON (ZONE)	BACON (ZONE)	GA	09/05/2004	00:01	EST	Tropical Storm		0	0	0.00K	0.00K
BACON (ZONE)	BACON (ZONE)	GA	09/25/2004	12:00	EST	Tropical Storm		0	0	0.00K	0.00K
BACON (ZONE)	BACON (ZONE)	GA	09/01/2016	07:00	EST-5	Tropical Storm		0	0	0.00K	0.00K
BACON (ZONE)	BACON (ZONE)	GA	10/08/2016	07:00	EST-5	Tropical Storm		0	0	0.00K	0.00K
BACON (ZONE)	BACON (ZONE)	GA	10/10/2018	21:00	EST-5	Tropical Storm		0	0	0.00K	0.00K
Totals:								0	0	0.00K	0.00K

Storm Events Database

Search Results for Bacon County, Georgia

Event Types: Hail

28 events were reported between 01/01/1950 and 06/30/2022 (26479 days)

Summary Info:

Number of County/Zone areas affected:	1
Number of Days with Event:	19
Number of Days with Event and Death:	0
Number of Days with Event and Death or Injury:	0
Number of Days with Event and Property Damage:	1
Number of Days with Event and Crop Damage:	0
Number of Event Types reported:	1

Column Definitions:
'Mag': Magnitude, 'Dth': Deaths, 'Inj': Injuries, 'PrD': Property Damage, 'CrD': Crop Damage

*Click on **Location** below to display details.*
Available Event Types have changed over time. Please refer to the Database Details for more information.

Select: All Hail

Sort By: Date/Time (Oldest)

Location	County/Zone	St.	Date	Time	T.Z.	Type	Mag	Dth	Inj	PrD	CrD
Totals:								0	0	1.00K	0.00K
ALMA	BACON CO.	GA	03/06/1996	16:05	EST	Hail	0.75 in.	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	05/27/1997	13:20	EST	Hail	0.88 in.	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	05/03/1998	12:30	EST	Hail	0.75 in.	0	0	0.00K	0.00K
SESSOMS STATION	BACON CO.	GA	05/04/1998	16:00	EST	Hail	1.00 in.	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	05/04/1998	16:35	EST	Hail	1.00 in.	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	03/30/2000	08:30	EST	Hail	0.75 in.	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	08/10/2001	14:41	EST	Hail	0.75 in.	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	03/20/2003	13:30	EST	Hail	2.75 in.	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	03/20/2003	14:30	EST	Hail	1.00 in.	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	05/11/2003	19:25	EST	Hail	0.75 in.	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	05/18/2003	14:50	EST	Hail	0.75 in.	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	07/29/2003	17:45	EST	Hail	0.75 in.	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	07/15/2004	14:00	EST	Hail	0.75 in.	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	03/22/2005	15:10	EST	Hail	0.75 in.	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	03/22/2005	15:16	EST	Hail	1.75 in.	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	03/22/2005	15:24	EST	Hail	1.75 in.	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	03/25/2005	06:20	EST	Hail	1.75 in.	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	04/22/2006	17:45	EST	Hail	1.75 in.	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	04/22/2006	17:55	EST	Hail	0.75 in.	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	04/22/2006	18:15	EST	Hail	0.75 in.	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	05/11/2008	08:45	EST-5	Hail	0.75 in.	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	05/11/2008	12:20	EST-5	Hail	0.75 in.	0	0	1.00K	0.00K
ROCKINGHAM	BACON CO.	GA	07/05/2008	17:00	EST-5	Hail	0.75 in.	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	07/28/2008	15:48	EST-5	Hail	0.75 in.	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	10/09/2008	12:12	EST-5	Hail	0.75 in.	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	10/09/2008	12:15	EST-5	Hail	1.75 in.	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	10/09/2008	12:20	EST-5	Hail	0.75 in.	0	0	0.00K	0.00K
ALMA	BACON CO.	GA	03/23/2013	11:10	EST-5	Hail	1.75 in.	0	0	0.00K	0.00K

Totals:								0	0	1.00K	0.00K

Storm Events Database

Search Results for Bacon County, Georgia

Event Types: Winter Storm

Bacon county contains the following zones:
Bacon

2 events were reported between 01/01/1950 and 06/30/2022 (26479 days)

Summary Info:

Number of County/Zone areas affected:	1
Number of Days with Event:	2
Number of Days with Event and Death:	0
Number of Days with Event and Death or Injury:	0
Number of Days with Event and Property Damage:	0
Number of Days with Event and Crop Damage:	0
Number of Event Types reported:	1

Column Definitions:
'Mag': Magnitude, 'Dth': Deaths, 'Inj': Injuries, 'PrD': Property Damage, 'CrD': Crop Damage

*Click on **Location** below to display details.*
Available Event Types have changed over time. Please refer to the Database Details for more information.

Sort By: Date/Time (Oldest)

Location	County/Zone	St.	Date	Time	T.Z.	Type	Mag	Dth	Inj	PrD	CrD
Totals:								0	0	0.00K	0.00K
BACON (ZONE)	BACON (ZONE)	GA	02/12/2010	18:17	EST-5	Winter Storm		0	0	0.00K	0.00K
BACON (ZONE)	BACON (ZONE)	GA	01/03/2018	05:00	EST-5	Winter Storm		0	0	0.00K	0.00K
Totals:								0	0	0.00K	0.00K

Storm Events Database

Event Details:

Event	**Winter Weather**
State	**GEORGIA**
County/Area	**BACON**
WFO	**JAX**
Report Source	**Emergency Manager**
NCEI Data Source	**CSV**
Begin Date	**2011-01-01 09:00 EST-5**
End Date	**2011-01-01 11:59 EST-5**
Deaths Direct/Indirect	**0/0** (fatality details below, when available...)
Injuries Direct/Indirect	**0/0**
Property Damage	**0.00K**
Crop Damage	**0.00K**
Episode Narrative	**Strong high pressure along the Atlantic coast had wedged cold air east of the Appalachian Mountains with temperatures dipping into the upper 30s near the Altamaha River in southeast Georgia. An upper level short wave travelled east along the upper Gulf Coast with surface low pressure developing south of Louisiana and tracking across north Florida. Overrunning ahead of the low pushed Gulf moisture over the cold air resulting in several hours of sleet and freezing rain over southeast Georgia. For the NWS Weather Forecast Office Jacksonville Area Of Responsibility the freezing rain line ran from Bridgetown Road in SW Coffee County, through Douglas, Georgia to Alma, Georgia and then into Baxley, Georgia with a light glaze on trees and plants north and west of that line.**
Event Narrative	**A citizen reported freezing rain began at his shop about 0900 and continued until near Noon EST. The ice remained on the trees as of 1212 p.m. EST.**

All events for this episode:

Location	County/Zone	St.	Date	Time	T.Z.	Type	Mag	Dth	Inj	PrD	CrD
Totals:								0	0	0.00K	0.00K
COFFEE (ZONE)	COFFEE (ZONE)	GA	01/01/2011	03:30	EST-5	Sleet		0	0	0.00K	0.00K
JEFF DAVIS (ZONE)	JEFF DAVIS (ZONE)	GA	01/01/2011	06:30	EST-5	Winter Weather		0	0	0.00K	0.00K
JEFF DAVIS (ZONE)	JEFF DAVIS (ZONE)	GA	01/01/2011	07:00	EST-5	Winter Weather		0	0	0.00K	0.00K
JEFF DAVIS (ZONE)	JEFF DAVIS (ZONE)	GA	01/01/2011	08:00	EST-5	Winter Weather		0	0	0.00K	0.00K
BACON (ZONE)	BACON (ZONE)	GA	01/01/2011	09:00	EST-5	Winter Weather		0	0	0.00K	0.00K
JEFF DAVIS (ZONE)	JEFF DAVIS (ZONE)	GA	01/01/2011	09:30	EST-5	Winter Weather		0	0	0.00K	0.00K
APPLING (ZONE)	APPLING (ZONE)	GA	01/01/2011	09:40	EST-5	Winter Weather		0	0	0.00K	0.00K
Totals:								0	0	0.00K	0.00K

1	Id	Name	Jurisdiction	Address	City	FacilityTypes	BuildingValue
2	69683	Aer O Lite Optical	Alma city	1811 W. 12th St	Alma	Medical, Clinics	289306.00
3	69684	AT & T Mobility LLC	Bacon County	126 Arabian Rd	Alma	NGO, Communications	92715.00
4	69685	AT & T Mobility LLC	Bacon County	315 Johnson Lake Rd	Alma	NGO, Communications	450394.00
5	69686	AT & T Mobility LLC	Bacon County	116 Meadowlark Rd	Alma	NGO, Communications	92715.00
6	69687	AT & T Mobility LLC	Bacon County	2319 W GA Hwy 32	Alma	NGO, Communications	442435.00
7	69688	Alma Church of God	Alma city	202 W 10th St	Alma	NGO, Non-Profit	3907200.00
8	69689	Alma Discount Pharmacy Inc	Bacon County	442 W 12th St	Alma	Medical, Private	97443.00
9	69690	Alma Family Vision Care	Alma city	131 GA HWY 32 Bypass	Alma	Medical, Private	61600.00
10	69691	Alma Housing Authority Albert Pitts Homes	Alma city	E. 12th Street At S. Baker Street	Alma	Government, Private	1600001.00
11	69692	Alma Housing Authority Offices	Alma city	401 E. 12th Street	Alma	Government, Private	360000.00
12	69693	Alma Housing Authority Queen City Heights #1	Alma city	E. 5th Street At Ware Street	Alma	Government, Private	1321828.00
13	69694	Alma Housing Authority Sun City Courts #1	Alma city	401 E. 12th Street	Alma	Government, Private	1500001.00
14	69695	Alma Housing Authority Sun City Courts #2	Alma city	E. 16th Street At S. Worth Street	Alma	Government, Private	787000.00
15	69696	Alma Housing Authority Sun City Terrace	Alma city	E. 7th Street At N. Baker Street	Alma	Government, Private	502334.00
16	69697	Alma Housing Authority Washington Heights	Alma city	E. 20th Street At S. Bead Street	Alma	Government, Private	787000.00
17	69698	Alma Housing Authority Wilfred B. Smith Terrace	Alma city	E. 16th Street At Mullis Drive	Alma	Government, Private	1331280.00
18	69699	Alma Land Application System Treatment Facility	Alma city	Carnation Road	Alma	Government, Water/Sewer	403389.00
19	69700	Alma Pak International, LLC, Inc	Alma city	230 Pineview Rd	Alma	NGO, Private	1068233.00
20	69701	Alma Telephone Company Inc	Alma city	405 W 11th St	Alma	NGO, Communications	119624.00
21	69702	Alma United Methodist Church	Alma city	603 North Dixon Street	Alma	NGO, Transportation, Non-Profit	900000.00
22	69703	Alma-Bacon County Hist. Soc.	Alma city	406 Mercer Street	Alma	Government, Library	55900.00
23	69704	Alma-Bacon County Public Library	Alma city	201 North Pierce Street	Alma	Government, Library	356981.00
24	69705	Alma-Bacon FD Bennett Still	Bacon County	103 Big Creek Rd	Alma	Emergency Services, EMS, Fire Fighters	432000.00
25	69706	Alma-Bacon FD Coffee	Bacon County	520 Antioch Church Rd	Alma	Emergency Services, EMS, Fire Fighters	75000.00
26	69707	Alma-Bacon FD New Lacy	Bacon County	758 Ga Hwy #32	Alma	Emergency Services, EMS, Fire Fighters	442800.00
27	69708	Alma-Bacon FD Sessoms	Bacon County	271 White Pine Hwy	Alma	Emergency Services, EMS, Fire Fighters	432000.00
28	69709	Alma-Bacon FD Taylor Town	Bacon County	1092 Iowa River Rd	Alma	Emergency Services, EMS, Fire Fighters	675300.00
29	69710	Alma-Bacon FD Ware	Bacon County	203 Elizabeth Chapel	Alma	Emergency Services, EMS, Fire Fighters	360000.00
30	69711	Alma-Bacon FD Warnock	Bacon County	2803 US Hwy #23 North	Alma	Emergency Services, EMS, Fire Fighters	432000.00
31	69712	American Tower Association	Bacon County	708 Sessoms Rd	Alma	NGO, Communications	48088.00
32	69713	American Tower Association	Alma city	397 Townsend Ln	Alma	NGO, Communications	46420.00
33	69714	Bacon County Airport	Alma city	142 Airport Loop	Alma	NGO, Transportation	4012680.00
34	69715	Bacon County Courthouse	Bacon County	502 W 12th St	Alma	Law Enforcement, Government, Police, Court Hou	2569434.00
35	69716	Bacon County DFACS	Bacon County	417 South Dixon Street	Alma	Law Enforcement, Government, Sheriff, Court Hou	2195446.00
36	69717	Bacon County Family Connection	Alma city	202 E 5th St	Alma	Government, NGO, Government Offices, Non-Pro	420000.00
37	69718	Bacon County Farm Bureau	Alma city	422 South Dixon Street	Alma	Government, Government Offices	120988.00
38	69719	Bacon County Health Dept.	Bacon County	101 North Wayne Street	Alma	Government, Government Offices	268340.00

39	69720	Bacon County Probation Detention Center	Alma city	165 Eastside Industrial Blvd.	Alma	Law Enforcement, State Patrol	3149963.00
40	69721	Bacon County Radio Tower & Building	Bacon County	200 Swamp Road	Alma	Emergency Services, Fire Fighters	40630.00
41	69722	Bacon County Senior Center	Bacon County	504 North Pierce Street/St A	Alma	Government, Government Offices	6373200.00
42	69723	Bacon County Sheriff/EMA/Jail/Fire Dept	Bacon County	307 S Dixon St	Alma	Law Enforcement, Sheriff	1850751.00
43	69724	Bacon County Shop	Alma city	150 Carribean Road	Alma	Government, Government Offices, Transportation	198100.00
44	69725	Bacon County Transfer Station	Bacon County	175 Caribbean Rd	Alma	Government, Landfill	300000.00
45	69726	Barber Recycling, Inc	Bacon County	360 Friendship Church Rd.	Alma	NGO, Landfill	358900.00
46	69727	BCHS-ABC Daycare Center	Alma city	305 South Baker Street	Alma	Medical, Day Care	1597541.00
47	69728	BCHS-Bacon County Hospital & Health System	Bacon County	302 South Wayne Street	Alma	Medical, EMS, Hospital	21388959.00
48	69729	BCHS-Bacon County Hospital Respiratory Rehab Bl	Alma city	303 South Wayne Street	Alma	Medical, Clinics	146171.00
49	69730	BCHS-Bacon County Hospital Storage	Alma city	East 14th Street	Alma	Medical, Medical Offices, Clinics	35907.00
50	69731	BCHS-Bacon County Hospital/Bacon County Comm	Alma city	204 East 15th Street	Alma	Medical, Medical Offices, Clinics	553831.00
51	69732	BCHS-Dr. Jason Cox	Alma city	210 E. 16th St	Alma	Medical, Medical Offices, Clinics	368563.00
52	69733	BCHS-Dr. Stan Sinclair BLD	Alma city	143 GA Hwy 32 Bypass	Alma	Medical, Medical Offices, Clinics	789937.00
53	69734	BCHS-Multi-Physcian Office	Alma city	203-5 S. Wayne St	Alma	Medical, Medical Offices, Clinics	459744.00
54	69735	BCHS-PT/OT Rehab BLD	Alma city	207 S. Wayne St	Alma	Medical, Medical Offices, Clinics	168973.00
55	69736	BCHS-Sleep Center	Alma city	113 E. 15th St	Alma	Medical, Medical Offices, Clinics	359275.00
56	69737	BCHS-Twin Oaks Convalescent Home & Addition	Alma city	301 South Baker Street	Alma	Medical, NH	346891.00
57	69738	Beach Timber	Alma city	128 Beach Timber Rd	Alma	NGO, Private	1247705.00
58	69739	Big Creek Church	Alma city	701 Big Creek Church Road	Alma	NGO, Non-Profit	132373.00
59	69740	BOE-Bacon County BOE ANNEX A & B	Alma city	102 E 4th St	Alma	Education, Government Offices	2575800.00
60	69741	BOE-Bacon County BOE Bus Barn	Alma city	102 W 4th Street	Alma	Education, K - 12, Transportation	1776516.00
61	69742	BOE-Bacon County BOE Offices	Alma city	102 E 4th Street	Alma	Education, Government Offices	2334000.00
62	69743	BOE-Bacon County Elementary School	Alma city	523 East 16th Street	Alma	Education, K - 12	5337881.00
63	69744	BOE-Bacon County High School	Bacon County	1190 Hwy 1 South	Alma	Education, K - 12	24189000.00
64	69745	BOE-Bacon County High School Gym	Bacon County	1190 Hwy 1 South	Alma	Education, K - 12	5220000.00
65	69746	BOE-Bacon County Middle School	Alma city	1188 Hwy 1 South	Alma	Education, K - 12	25179455.00
66	69747	BOE-Bacon County Primary School	Alma city	251 Cumberland Road	Alma	Education, K - 12	23804100.00
67	69748	Carver Drug Company & Gifts (Dr. Phil Carver)	Alma city	135 Ga Hwy 32 Bypass	Alma	Medical, Private	374800.00
68	69749	Cellco Partnership DBA Verizon Wireless	Bacon County	126 Arabian Rd	Alma	NGO, Communications	244905.00
69	69750	Cellco Partnership DBA Verizon Wireless	Bacon County	641 Bayberry Rd	Alma	NGO, Communications	299942.00
70	69751	Cellco Partnership DBA Verizon Wireless	Bacon County	774 Damascus Church Rd	Alma	NGO, Communications	163225.00
71	69752	Cellco Partnership DBA Verizon Wireless	Bacon County	224 Flora Ln	Alma	NGO, Communications	682225.00
72	69753	Cellco Partnership DBA Verizon Wireless	Bacon County	111 N GA Hwy 203 N	Alma	NGO, Communications	114334.00
73	69754	Cellco Partnership DBA Verizon Wireless	Bacon County	2319 W GA Hwy 32 W	Alma	NGO, Communications	108596.00
74	69755	City of Alma City Hall	Alma city	308 West 14th Street	Alma	Government, City Hall	37054.00

75	69756	City of Alma City Shop	Alma city	308 West 14th Street	Alma	Government, Government Offices	45000.00
76	69757	City Of Alma Equipment Storage Building	Alma city	208 W. 14th Street	Alma	Emergency Services, Fire Fighters	287500.00
77	69758	City of Alma Police Department	Alma city	102 S. Thomas St.	Alma	Law Enforcement, Police	43882.00
78	69759	City Of Alma Sewer Lift Station-Blueberry Haven	Alma city	122 Briteblue Drive	Alma	Government, Water/Sewer	14898.00
79	69760	City Of Alma Sewer Lift Station-Boatwrights	Alma city	1323 W. 12th Street	Alma	Government, Water/Sewer	23023.00
80	69761	City Of Alma Sewer Lift Station-Church	Alma city	1517 W. 12th Street	Alma	Government, Water/Sewer	23023.00
81	69762	City Of Alma Sewer Lift Station-D.L. Lee	Alma city	927 S.R. 32 East	Alma	Government, Water/Sewer	30086.00
82	69763	City Of Alma Sewer Lift Station-Exchange Club Rd.	Alma city	185 Pineview Road	Alma	Government, Water/Sewer	23023.00
83	69764	City Of Alma Sewer Lift Station-Fleetwood Plant #:	Alma city	146 Business Blvd.	Alma	Government, Water/Sewer	10835.00
84	69765	City Of Alma Sewer Lift Station-Golf Course Bathrc	Bacon County	133 Candlewood Drive	Alma	Government, Water/Sewer	23023.00
85	69766	City Of Alma Sewer Lift Station-Golf Course Maint	Bacon County	176 Ironwood Circle	Alma	Government, Water/Sewer	10000.00
86	69767	City Of Alma Sewer Lift Station-Hall's Club	Alma city	122 N. Bead Street	Alma	Government, Water/Sewer	43023.00
87	69768	City Of Alma Sewer Lift Station-Lake Lure	Alma city	172 Lake Lure Drive	Alma	Government, Water/Sewer	20315.00
88	69769	City Of Alma Sewer Lift Station-Log Cabin	Alma city	1007 W. 12th Street	Alma	Government, Water/Sewer	23023.00
89	69770	City Of Alma Sewer Lift Station-MR Center	Alma city	1903 W. 12th Street	Alma	Government, Water/Sewer	23023.00
90	69771	City Of Alma Sewer Lift Station-S.R. 32 Bypass	Alma city	143 S.R. 32 Bypass	Alma	Government, Water/Sewer	23023.00
91	69772	City Of Alma Sewer Lift Station-Satilla REA	Alma city	928 S.R. 32 East	Alma	Government, Water/Sewer	17000.00
92	69773	City Of Alma Sewer Lift Station-Smallee Street	Alma city	830 Smallee Street	Alma	Government, Water/Sewer	11647.00
93	69774	City Of Alma Sewer Lift Station-U.S. 1 North	Alma city	114 Pine Street	Alma	Government, Water/Sewer	6300.00
94	69775	City Of Alma Sewer Lift Station-U.S. 1 South	Alma city	1177 S. Pierce Street	Alma	Government, Water/Sewer	12866.00
95	69776	City of Alma Sewerline System	Bacon County	884 Radio Station Road	Alma	Government, Water/Sewer	25000000.00
96	69777	City of Alma Wasterwater System	Alma city	265 Carnation Rd	Alma	Government, Water/Sewer	6000.00
97	69778	City of Alma Water System #2	Alma city	601 N. Church Street	Alma	Government, Water/Sewer	26735.00
98	69779	City Of Alma Water System #3	Alma city	1107 W. 12th Street	Alma	Government, Water/Sewer	1500000.00
99	69780	City of Alma Water System Main Well #1	Alma city	306 W. 14th Street	Alma	Government, Water/Sewer	1000000.00
100	69781	City of Alma Waterline System Distribtuion	Alma city	West 14th Street	Alma	Government, Water/Sewer	25000000.00
101	69782	City of Alma WPCP (Wastewater System)	Alma city	884 Radio Station Rd.	Alma	Government, Water/Sewer	107000.00
102	69783	City of Alma - Bacon Theater	Alma city	332 W 12th St	Alma	Government, Government Offices	81854.00
103	69784	Coastal Pines Technical College	Alma city	101 W 17th ST	Alma	Education, VoTech	2331000.00
104	69785	Concerted Services Inc. Action Pact	Alma city	202 E 5th St	Alma	Education, Medical, Clinics	300000.00
105	69786	Crosby Funeral Home	Alma city	207 W 12th St	Alma	NGO, Private	573728.00
106	69787	D.L. Lee Meats	Alma city	927 Hwy 32 East	Alma	NGO, Private	4718139.00
107	69788	Diamond Towers IV, LLC	Bacon County	222 Baltic Rd	Alma	NGO, Communications	183883.00
108	69789	Dixie Pipeline	Bacon County	151 Old Dixie School Road	Alma	NGO, Private	147300.00
109	69790	EOC Building	Alma city	120 E 4th St	Alma	Government, EMS, Fire Fighters	118534.00
110	69791	FAA Perpheral Facility	Bacon County	165 James Lee Road	Alma	Government, Government Offices, Transportation	180000.00

111	69792	Farmer John LLC	Alma city	190 Industrial Drive	Alma	NGO, Private	539661.00
112	69793	First Baptist Church	Alma city	201 North Church Street	Alma	NGO, Transportation, Non-Profit	1837134.00
113	69794	First Church of the Nazarene	Alma city	305 West 20th Street	Alma	NGO, Transportation, Non-Profit	344700.00
114	69795	FNB South Bank	Alma city	423 W 12th St	Alma	NGO, Private	1717627.00
115	69796	FNB South Bank ATM	Alma city	927 S Pierce St	Alma	NGO, Private	22195.00
116	69797	Food Lion Grocery	Alma city	1108 S Pierce St	Alma	NGO, Private	1359587.00
117	69798	Fresenius Kindney Care/Dialysis od Alma	Alma city	415 S. Dixon St.	Alma	Medical, Medical Offices	439915.00
118	69799	GA Forestry Commission	Bacon County	1238 Hwy #32 East	Alma	Government, Government Offices	1008000.00
119	69800	GA Motor Vehicle Safety	Alma city	502 W 12th St	Alma	Government, Government Offices	1786251.00
120	69801	GA Power Radio Tower	Bacon County	Swamp Road	Alma	NGO, Private, Communications	125000.00
121	69802	Harmoni Towers	Bacon County	116 Meadowlark Rd	Alma	NGO, Communications	270130.00
122	69803	Horvath Towers V, LLC	Bacon County	774 Damascus Church Hwy	Alma	NGO, Communications	270771.00
123	69804	Industrial Forge	Alma city	1725 US-1	Alma	NGO, Private	307453.00
124	69805	Jay's IGA Grocery	Alma city	1022 S Pierce St	Alma	NGO, Private	480356.00
125	69806	Jone's Welding	Alma city	814 Radio Station Rd	Alma	NGO, Private	863223.00
126	69807	Lamar's Pharmacy	Alma city	905 S Pierce St	Alma	NGO, Private	480356.00
127	69808	La-Regina Atlantica	Alma city	135 Industrial Blvd.	Alma	NGO, Private	1895000.00
128	69809	Lee's Chapel Church	Bacon County	264 Lee's Chapel Rd	Alma	NGO, Non-Profit	651193.00
129	69810	Mid-South Feed, Inc.	Alma city	403 S Market St.	Alma	NGO, Private	830323.00
130	69811	Milliken	Bacon County	2410 W. GA #32	Alma	NGO, Transportation	2702627.00
131	69812	Nature Ripe / Michigan Blueberry Growers	Bacon County	1326 S US Hwy 1	Alma	NGO, Private	3615568.00
132	69813	New Vision Learning Center	Alma city	189 GA Hwy #64	Alma	NGO, Day Care	4500000.00
133	69814	Padgett Veterinary Service	Alma city	1799 US 1 North	Alma	NGO, Medical Offices	233247.00
134	69815	Physicians Office (Dr. Deen's Office)	Alma city	143 GA HWY 32 Bypass	Alma	Medical, Medical Offices, Clinics	789937.00
135	69816	Pineland Bank Drive Through	Alma city	505 S. Pierce Street	Alma	NGO, Private	29651.00
136	69817	Pineland Bank Main Branch	Alma city	501 W. 12th Street	Alma	NGO, Private	936096.00
137	69818	Recovered Materials Inc	Bacon County	129 RMI Drive	Alma	NGO, Private	280800.00
138	69819	Satilla REMC	Alma city	928 GA Highway #32 East	Alma	NGO, Private	35363700.00
139	69820	SBA Towers VII LLC	Bacon County	650 Corinth Church Rd	Alma	NGO, Communications	31200.00
140	69821	SBA Towers VII LLC (Alltel)	Bacon County	2313 US 1 N	Alma	NGO, Communications	49322.00
141	69822	South Georgia Potter's House for Women	Bacon County	129 Morris Dr	Alma	Government, Non-Profit	680400.00
142	69823	T-Mobile South, LLC	Alma city	397 Townsend Ln	Alma	NGO, Communications	77161.00
143	69824	UGA Blueberry Research Facility	Bacon County	244 Pineview Rd.	Alma	Education, Private	210959.00
144	69825	UGA Post Harvest/Vegetable	Bacon County	244 Pineview Rd.	Alma	Education, Private	485816.00
145	69826	Unison-Bacon County Developmental Services	Alma city	1835 W 12th St	Alma	Medical, Private	174706.00
146	69827	Unison-Behavioral Health	Alma city	108 E 5th St	Alma	Medical, Clinics	137351.00

147	69828	Unison-Cypress Hill Group Home	Bacon County	123 Quart Douglas Rd	Alma	NGO, Private	207100.00
148	69829	Unti Fiber Holdings	Bacon County	115 Scuffletown	Alma	NGO, Communications	199863.00
149	69830	USDA Farm Svc. Center/Soil	Alma city	203 S. Dixon Street	Alma	Government, Government Offices	427632.00
150	69831	USPO-Alma	Alma city	523 W 12th Street	Alma	Government, Government Offices	1255500.00
151	69832	Voter Registration Office	Alma city	232 W 12th St	Alma	Government, Government Offices	1230582.00
152	69833	Walgreens Pharmacy	Alma city	701 S Pierce St	Alma	Medical, Private	431351.00
153	69834	We Care Family Practice	Alma city	204 S Dixon St	Alma	Medical, Clinics	102843.00

Appendix G. – HAZUS Report

Hazard Risk Analyses
Supplement to the Bacon County Joint Hazard Mitigation Plan

SOUTHERN GEORGIA REGIONAL COMMISSION

List of Figures

Introduction

The Federal Disaster Mitigation Act of 2000 (DMA2K) requires state, local, and tribal governments to develop and maintain a mitigation plan to be eligible for certain federal disaster assistance and hazard mitigation funding programs.

Mitigation seeks to reduce a hazard's impacts, which may include loss of life, property damage, disruption to local and regional economies, and the expenditure of public and private funds for recovery. Sound mitigation must be based on a sound risk assessment that quantifies the potential losses of a disaster by assessing the vulnerability of buildings, infrastructure, and people.

In recognition of the importance of planning in mitigation activities, FEMA Hazus-MH, a powerful disaster risk assessment tool based on geographic information systems (GIS). This tool enables communities of all sizes to predict estimated losses from floods, hurricanes, earthquakes, and other related phenomena and to measure the impact of various mitigation practices that might help reduce those losses.

In 2022, the Georgia Department of Emergency Management partnered with The Southern Georgia Regional Commission (SGRC) to develop a detailed risk assessment focused on defining hurricane, riverine flood and tornado impacts for Georgia. This assessment identifies the characteristics and potential consequences of the disaster, how much of the community could be affected by the disaster, and the impact on community assets. In the following years, the Georgia Association of Regional Commissions (GARC) are utilizing this workflow to define impacts in other counties in Georgia. This document provides the results for Bacon County.

Risk Assessment Process Overview

Hazus-MH Version 2.2 SP1 was used to perform the analyses for Bacon County. The Hazus-MH application includes default data for every county in the US. This Hazus-MH data was derived from a variety of national sources and in some cases the data are also several years old. Whenever possible, using local provided data is preferred. Bacon County provided building inventory information from the county's property tax assessment system. This section describes the changes made to the default Hazus-MH inventory and the modeling parameters used for each scenario.

County Inventory Changes

The default Hazus-MH site-specific point inventory was updated using data compiled from the Georgia Emergency Management Agency (GEMA). The default Hazus-MH aggregate inventory (General Building Stock) was also updated prior to running the scenarios. Reported losses reflect the updated data sets.

General Building Stock Updates

General Building Stock (GBS) is an inventory category that consists of aggregated data (grouped by census geography — tract or block). Hazus-MH generates a combination of site-specific and aggregated loss estimates based on the given analysis and user input.

The GBS records for Bacon County were replaced with data derived from parcel and property assessment data obtained from Bacon County. The county provided property assessment data was current as of May 2022 and the parcel data current as of May 2022. Records without improvements were deleted. The parcel boundaries were converted to parcel points located in the centroids of each parcel boundary; then, each parcel point was linked to an assessor record based upon matching parcel numbers. The parcel assessor match-rate for Bacon County is 98.9%. The generated building inventory represents the approximate locations (within a parcel) of structures. The building inventory was aggregated by census block. Both the tract and block tables were updated. Table 1 shows the results of the changes to the GBS tables by occupancy class.

Table 1: GBS Building Exposure Updates by Occupancy Class*

Occupancy Classification	Default Hazus-MH Count	Updated Count	Default Hazus-MH Exposure	Updated Exposure
Agricultural	48	0	$ 10,240,000	$ -
Commercial	265	304	$ 164,321,000	$ 347,260,000
Education	13	19	$ 8,266,000	$ 53,724,000
Government	7	18	$ 2,313,000	$ 27,414,000
Industrial	48	103	$ 62,049,000	$ 326,403,000
Religious	27	54	$ 22,177,000	$ 60,965,000
Residential	4641	5061	$ 657,997,000	$ 603,358,000
Total	**5049**	**5559**	**$ 927,363,000**	**$ 1,419,124,000**

*The exposure values represent the total number and replacement cost for all Bacon County Buildings

For Bacon County, the updated GBS was used to calculate hurricane wind losses. The flood losses and tornado losses were calculated from building inventory modeled in Hazus-MH as User-Defined Facility (UDF)[1], or site-specific points. Figure 1 shows the distribution of buildings as points based on the county provided data.

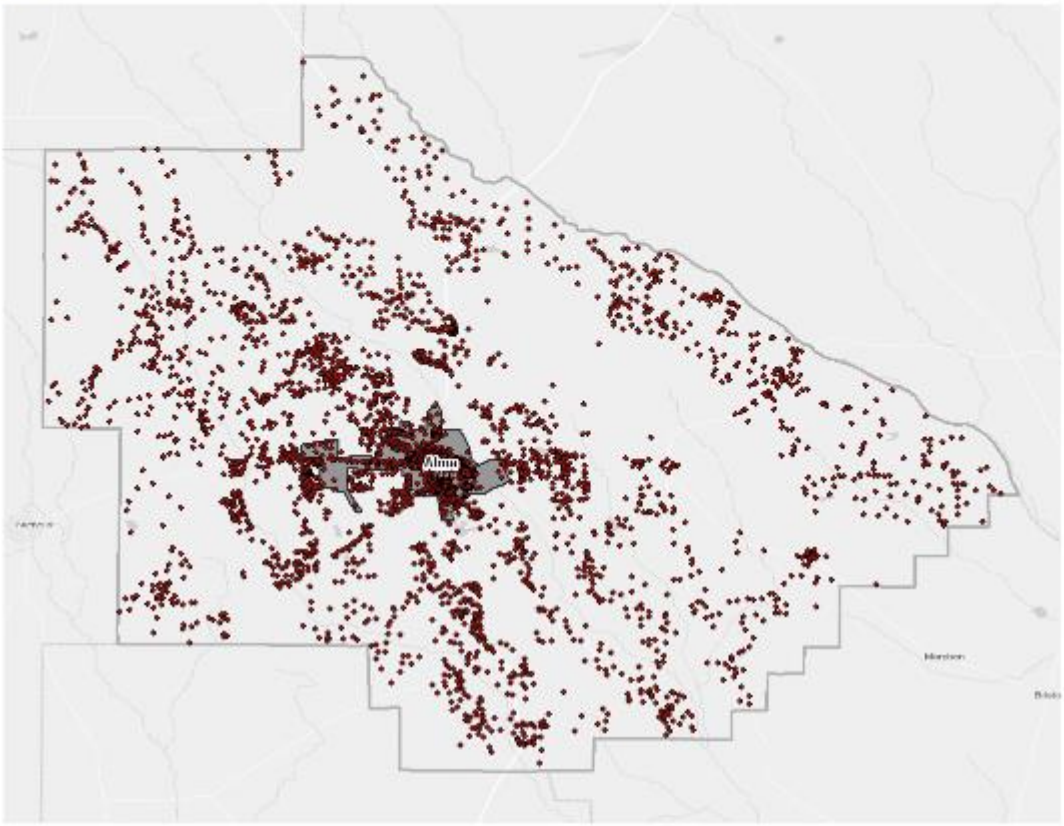

Figure 1: Bacon County Overview

[1] The UDF inventory category in Hazus-MH allows the user to enter site-specific data in place of GBS data.

Essential Facility Updates

The default Hazus-MH essential facility data was updated to reflect improved information available in the Georgia Mitigation Information System (GMIS). For these risk analyses, only GMIS data for buildings that Hazus-MH classified as Essential Facilities was integrated into Hazus-MH because the application provides specialized reports for these five types of facilities. Essential Facility inventory was updated for the analysis conducted for this report. The following table summarizes the counts and exposures, where available, by Essential Facility classification of the updated data for the county.

Essential facilities include:

- Care facilities
- EOCs
- Fire stations
- Police stations
- Schools

Table 2: Updated Essential Facilities

Classification	Updated Count	Updated Exposure
Bacon County		
EOC	1	$ 880,000
Care	1	$ 25,205,000
Fire	9	$ 12,182,000
Police	2	$ 2,604,000
School	5	$ 2,909,509
Total	**18**	**$ 43,780,509**

Classification	Updated Count	Updated Exposure
Alma		
EOC	1	$ 880,000
Care	1	$ 25,205,000
Fire	1	$ 8,041,000
Police	2	$ 2,604,000
School	5	$ 2,909,509
Total	**10**	**$ 39,639,509**

Assumptions and Exceptions

Hazus-MH loss estimates may be impacted by certain assumptions and process variances made in this risk assessment.

- The Bacon County analysis used Hazus-MH Version 2.2 SP1, which was released by FEMA in May 2015.
- County provided parcel and property assessment data may not fully reflect all buildings in the county. For example, some counties do not report not-for-profit buildings such as government buildings, schools and churches in their property assessment data. This data was used to update the General Building Stock as well as the User Defined Facilities applied in this risk assessment.
- GBS updates from assessor data will skew loss calculations. The following attributes were defaulted or calculated:
    - Foundation Type was set from Occupancy Class
    - First Floor Height was set from Foundation Type
    - Content Cost was calculated from Replacement Cost
- It is assumed that the buildings are located at the centroid of the parcel unless building footprints are used. For this analysis of Bacon County, **parcel centroids** were used.
- The essential facilities extracted from the GMIS were only used in the portion of the analysis designated as essential facility damage. They were not used in the update of the General Building Stock or the User Defined Facility inventory.

The hazard models included in this risk assessment included:

- Hurricane assessment which was comprised of a wind only damage assessment
- Flood assessment based on the 1% annual chance event that includes riverine assessments
- Tornado assessment based on GIS modeling

Hurricane Risk Assessment

Hazard Definition

The National Hurricane Center describes a hurricane as a tropical cyclone in which the maximum sustained wind is, at minimum, 74 miles per hour (mph)[2]. The term hurricane is used for Northern Hemisphere tropical cyclones east of the International Dateline to the Greenwich Meridian. The term typhoon is used for Pacific tropical cyclones north of the Equator west of the International Dateline. Hurricanes in the Atlantic Ocean, Gulf of Mexico, and Caribbean form between June and November with the peak of hurricane season occurring in the middle of September. Figure 2 shows that many hurricanes have impacted the Atlantic and Gulf coasts of the United States.

Figure 2: Continental United States Hurricane Strikes: 1950 to 2018[3]
Hurricane intensities are measured using the Saffir-Simpson Hurricane Wind Scale (Table 3). This scale is a 1 to 5 categorization based on the hurricane's intensity at the indicated time.

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[2] National Hurricane Center (2011). "Glossary of NHC Terms." National Oceanic and Atmospheric Administration. http://www.nhc.noaa.gov/aboutgloss.shtml#h. Retrieved 2-23-2012.

[3] Source: NOAA National Climatic Data Center

Table 3: Saffir-Simpson Hurricane Wind Scale

Category	Wind Speed (mph)	Damage
1	74 – 95	Very dangerous winds will produce some damage
2	96 – 110	Extremely dangerous winds will cause extensive damage
3	111 - 130	Devastating damage will occur
4	131 -155	Catastrophic damage will occur
5	> 155	Catastrophic damage will occur

Hurricanes bring a complex set of impacts. The winds from a hurricane produce a rise in the water level at landfall called storm surge. Storm surges produce coastal flooding effects that can be as damaging as the hurricane's winds. Hurricanes bring very intense inland riverine flooding. Hurricanes can also produce tornadoes that can add to the wind damages inland. In this risk assessment, only hurricane winds, and coastal storm surge are considered.

The National Oceanic and Atmospheric Administration's National Hurricane Center created the HURDAT database, which contains all of the tracks of tropical systems since the mid-1800s. This database was used to document the number of tropical systems that have affected Bacon County by creating a 20-mile buffer around the county to include storms that didn't make direct landfall in Bacon County but impacted the county. Since 1851, Bacon County has had 62 tropical systems within 20 miles of its county borders (Table 4).

Table 4: Tropical Systems affecting Bacon County

Year	Month	Day	Name	Wind (Knots)	Category
1852	October	10	NOTNAMED	80	H1
1852	October	10	NOTNAMED	60	TS
1860	August	13	NOTNAMED	40	TS
1860	August	13	NOTNAMED	40	TS
1871	August	23	NOTNAMED	60	TS
1871	August	23	NOTNAMED	50	TS
1871	October	6	NOTNAMED	40	TS
1871	October	6	NOTNAMED	40	TS
1871	October	6	NOTNAMED	40	TS
1873	June	2	NOTNAMED	40	TS
1873	September	19	NOTNAMED	60	TS
1881	August	28	NOTNAMED	70	H1
1885	October	12	NOTNAMED	50	TS
1885	October	12	NOTNAMED	50	TS
1886	July	1	NOTNAMED	70	H1
1886	July	1	NOTNAMED	55	TS
1888	September	9	NOTNAMED	45	TS
1888	September	9	NOTNAMED	40	TS
1894	October	9	NOTNAMED	70	H1
1898	October	2	NOTNAMED	90	H2
1902	June	15	NOTNAMED	40	TS
1902	June	15	NOTNAMED	35	TS
1907	June	29	NOTNAMED	45	TS
1907	September	29	NOTNAMED	40	TS
1911	August	5	NOTNAMED	20	TD
1911	August	5	NOTNAMED	20	TD
1912	July	15	NOTNAMED	40	TS
1912	September	6	NOTNAMED	30	TD
1912	September	6	NOTNAMED	25	TD
1915	August	2	NOTNAMED	40	TS
1915	August	3	NOTNAMED	40	TS
1916	October	4	NOTNAMED	50	TS
1917	September	30	NOTNAMED	35	TS
1919	October	1	NOTNAMED	40	TS
1919	October	1	NOTNAMED	35	TS
1923	June	27	NOTNAMED	30	TD
1924	September	16	NOTNAMED	40	TS
1924	September	30	NOTNAMED	55	E
1935	September	5	NOTNAMED	60	TS
1935	September	5	NOTNAMED	60	TS
1946	October	8	NOTNAMED	35	TS
1947	September	24	NOTNAMED	45	TS
1947	October	8	NOTNAMED	25	TD
1947	October	15	NOTNAMED	75	H1
1947	October	15	NOTNAMED	65	H1
1949	August	28	NOTNAMED	50	TS
1949	August	28	NOTNAMED	45	TS
1953	September	27	FLORENCE	50	E
1953	September	27	FLORENCE	40	E
1957	June	9	NOTNAMED	35	TS
1957	June	9	NOTNAMED	35	TS
1966	June	10	ALMA	55	TS
1985	November	22	KATE	65	H1
1987	August	17	NOTNAMED	10	TD
1995	June	5	ALLISON	45	TS
1995	June	6	ALLISON	30	TD
2000	September	18	GORDON	30	TD
2004	August	12	BONNIE	30	TD
2005	October	6	TAMMY	45	TS
2005	October	6	TAMMY	35	TS
2006	June	13	ALBERTO	35	TS
2006	June	14	ALBERTO	35	TS

Category Definitions:
TS – Tropical storm
TD – Tropical depression
CAT_1 – Category 1 (same format for 2, 3, 4 and 5)
E – Extra-tropical cyclone

Probabilistic Hurricane Scenario

The following probabilistic wind damage risk assessment modeled a Category 1 storm with maximum winds of 81 mph.

Wind Damage Assessment

Wind losses were determined from probabilistic models run for the Category 1 storm which equates to the 1% chance storm event. Figure 3 shows wind speeds for the modeled hurricane.

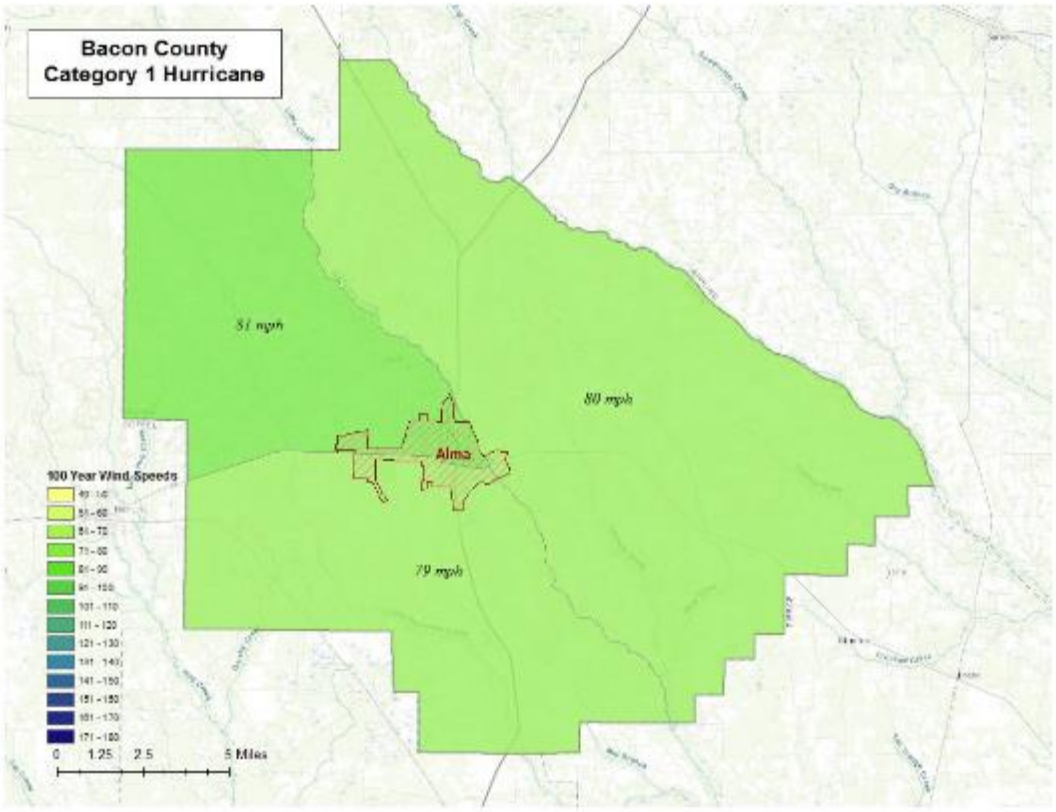

Figure 3: Wind Speeds by Storm Category

Wind-Related Building Damages

Buildings in Bacon County are vulnerable to storm events, and the cost to rebuild may have significant consequences to the community. The following table shows a summary of the results of wind-related building damage in Bacon County for the Category 1 (100 Year Event) storm. The loss ratio expresses building losses as a percentage of total building replacement cost in the county. Figure 4 illustrates the building loss ratios of the modeled Category 1 storm.

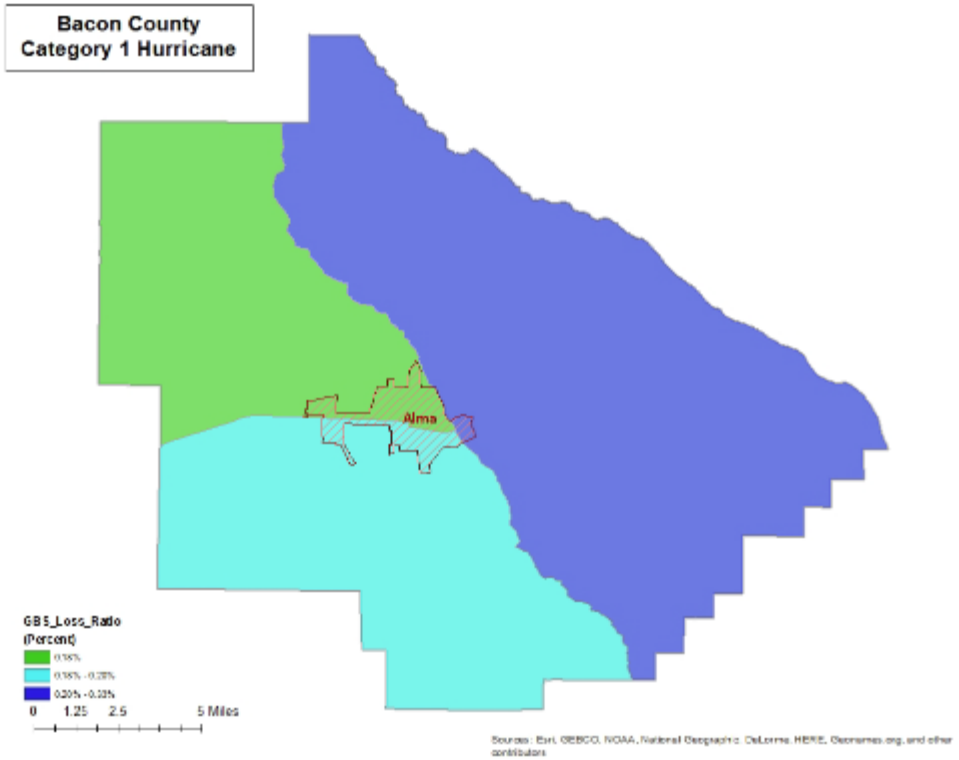

Figure 4: Hurricane Wind GBS Loss Ratios

Table 5 shows the Hurricane Wind Building Damage results including the number of buildings damaged, total building damage, and economic loss.

Table 5: Hurricane Wind Building Damage

Storm Classification	Number of Damaged Buildings	Building Damages	Total Economic Loss	Loss Ratio
Category 1	80	$ 3,097,640	$ 4,394,800	0.22%

Essential Facility Losses

Essential facilities are also vulnerable to storm events, and the potential loss of functionality may have significant consequences to the community. Hazus-MH identified the essential facilities that may be moderately or severely damaged by winds. The results are compiled in Table 6.

There are 18 essential facilities in Bacon County.

Classification	Number
EOC	1
Care	1
Fire	9
Police	2
School	5
Total	**18**

Table 6: Wind-Damaged Essential Facility Losses

Storm Classification	Facilities Moderately Damaged (>50%)	Facilities Completely Damaged (>50%)	Facilities with expected loss (<1day)
Category 1	0	0	18

Shelter Requirements

Hazus-MH estimates the number of households evacuated from buildings with severe damage from high velocity winds as well as the number of people who will require short-term sheltering. The results are listed in Table 7 and mapped in Figure 5.

Table 7: Displaced Households and People

Storm Classification	# of Displaced Households	# of People Needing Short-Term Shelter
Category 1	0	0

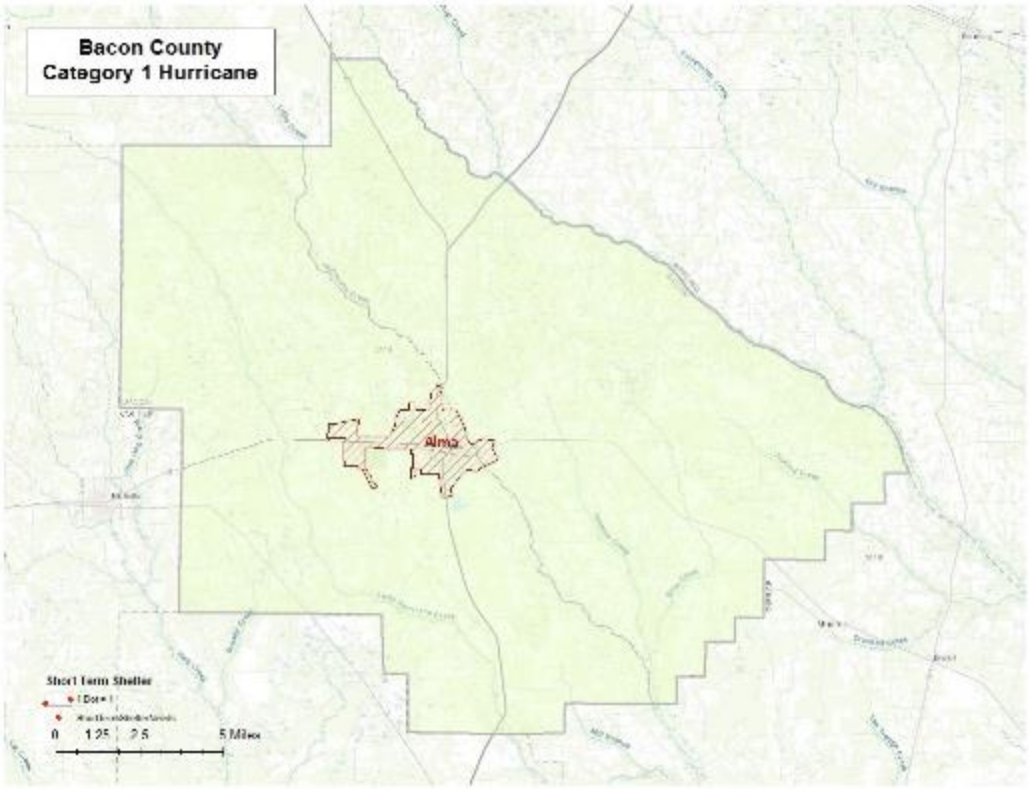

Figure 5: Hurricane Wind Shelter Requirements

Debris Generated from Hurricane Wind

Hazus-MH estimates the amount of debris that will be generated by high velocity hurricane winds and quantifies it into three broad categories to determine the material handling equipment needed:

- Reinforced Concrete and Steel Debris
- Brick and Wood and Other Building Debris
- Tree Debris

Different material handling equipment is required for each category of debris. The estimates of debris for this scenario are listed in Table 8. The amount of hurricane wind related tree debris that is estimated to require pick up at the public's expense is listed in the eligible tree debris column.

Table 8: Wind-Related Debris Weight (Tons)

Storm Classification	Brick, Wood, and Other	Reinforced Concrete/Steel	Tree Debris	Other Tree Debris	Total
Category 1	317	-	2,816	51,690	54,823

Figure 6 shows the distribution of all wind related debris resulting from a Category 1 hurricane. Each dot represents 20 tons of debris within the census tract in which it is located. The dots are randomly distributed within each census tract and therefore do not represent the specific location of debris sites.

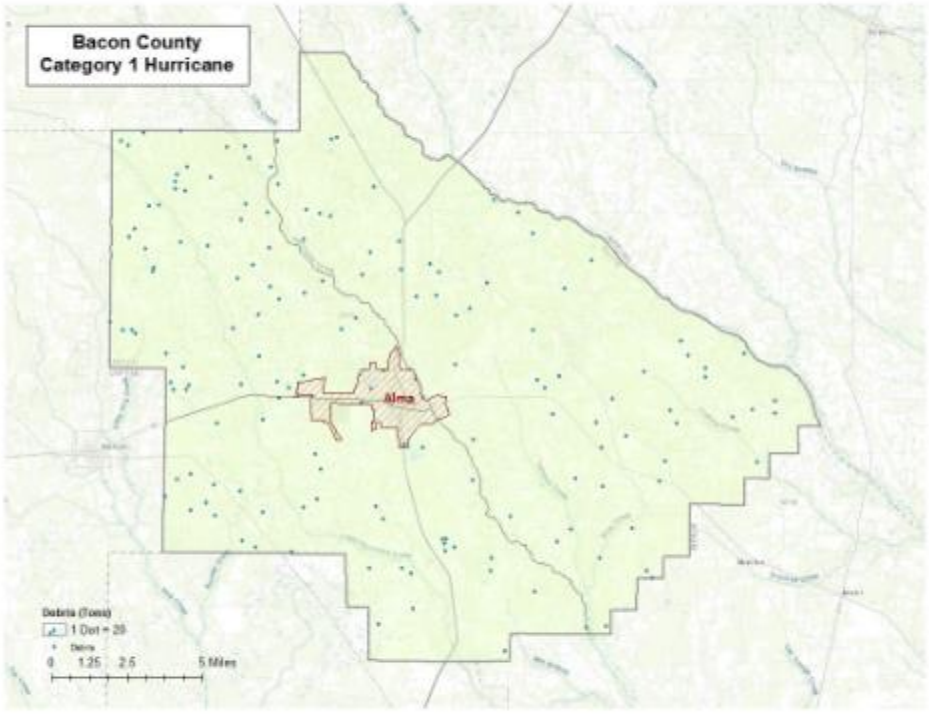

Figure 6: Wind-Related Debris Weight (Tons)

Flood Risk Assessment

Hazard Definition

Flooding is a significant natural hazard throughout the United States. The type, magnitude, and severity of flooding are functions of the amount and distribution of precipitation over a given area, the rate at which precipitation infiltrates the ground, the geometry and hydrology of the catchment, and flow dynamics and conditions in and along the river channel. Floods can be classified as one of three types: upstream floods, downstream floods, or coastal floods.

Upstream floods, also called flash floods, occur in the upper parts of drainage basins and are generally characterized by periods of intense rainfall over a short duration. These floods arise with very little warning and often result in locally intense damage, and sometimes loss of life, due to the high energy of the flowing water. Flood waters can snap trees, topple buildings, and easily move large boulders or other structures. Six inches of rushing water can upend a person; another 18 inches might carry off a car. Generally, upstream floods cause damage over relatively localized areas, but they can be quite severe in the local areas in which they occur. Urban flooding is a type of upstream flood. Urban flooding involves the overflow of storm drain systems and can be the result of inadequate drainage combined with heavy rainfall or rapid snowmelt. Upstream or flash floods can occur at any time of the year in Georgia, but they are most common in the spring and summer months.

Downstream floods, also called riverine floods, refer to floods on large rivers at locations with large upstream catchments. Downstream floods are typically associated with precipitation events that are of relatively long duration and occur over large areas. Flooding on small tributary streams may be limited, but the contribution of increased runoff may result in a large flood downstream. The lag time between precipitation and time of the flood peak is much longer for downstream floods than for upstream floods, generally providing ample warning for people to move to safe locations and, to some extent, secure some property against damage.

Coastal floods occurring on the Atlantic and Gulf coasts may be related to hurricanes or other combined offshore, nearshore, and shoreline processes. The effects of these complex interrelationships vary significantly across coastal settings, leading to challenges in the determination of the base (1-percent-annual-chance) flood for hazard mapping purposes. Land area covered by floodwaters of the base flood is identified as a Special Flood Hazard Area (SFHA). The Bacon County flood risk assessment analyzed at risk structures in the SFHA.

The SFHA is the area where the National Flood Insurance Program's (NFIP) floodplain management regulations must be enforced and the area where the mandatory purchase of flood insurance applies. The owner of a structure in a high-risk area must carry flood insurance, if the owner carries a mortgage from a federally regulated or insured lender or servicer.

The following probabilistic risk assessment involves an analysis of a 1% annual chance riverine flood event.

Riverine 1% Flood Scenario

Riverine losses were determined from the 1% flood boundaries downloaded from the FEMA Flood Map Service Center in May 2022. The flood boundaries were overlaid with the USGS 10 meter DEM using the Hazus-MH Enhanced Quick Look tool to generate riverine depth grids. The riverine flood depth grid was then imported into Hazus-MH to calculate the riverine flood loss estimates. Figure 7 illustrates the riverine inundation boundary associated with the 1% annual chance. Please note that the riverine flooding may not take into account elevated housing or raised Base Flood Elevation.

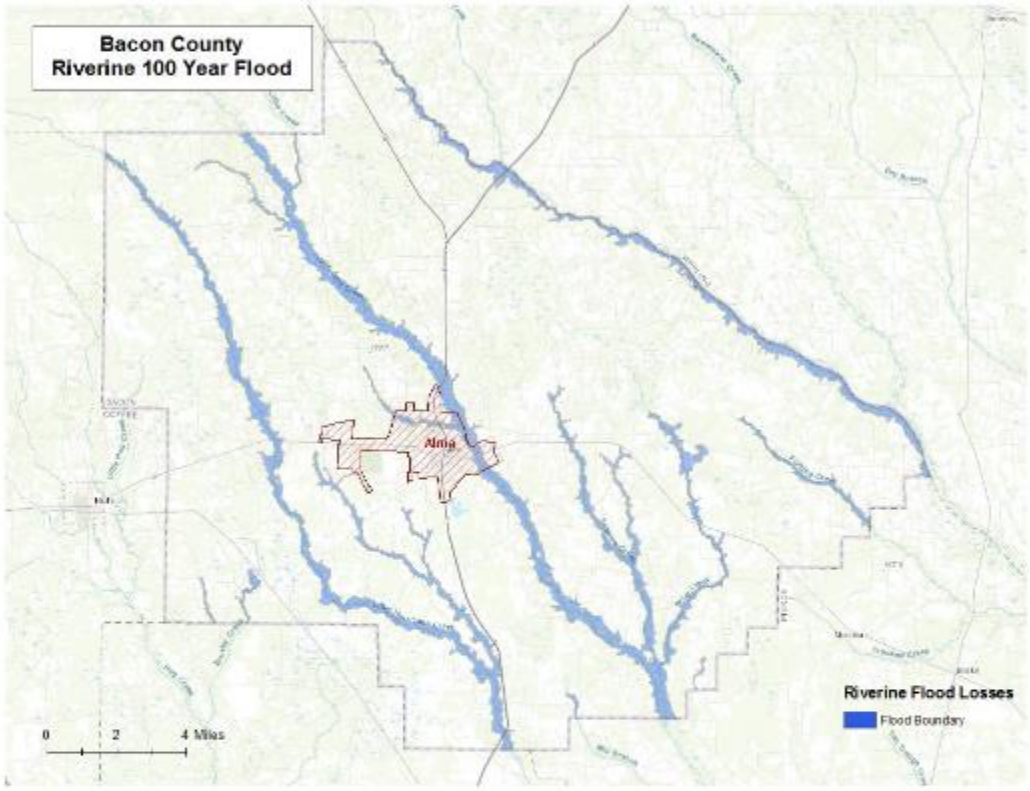

Figure 7: Riverine 1% Flood Inundation

Riverine 1% Flood Building Damages

Buildings in Bacon County are vulnerable to flooding from events equivalent to the 1% riverine flood. The economic and social impacts from a flood of this magnitude can be significant. Table 9 provides a summary of the potential flood-related building damage in Bacon County by jurisdiction that might be experienced from the 1% flood. Figure 8 maps the potential loss ratios of total building exposure to losses sustained to buildings from the 1% flood by 2010 census block and Figure 9 illustrates the relationship of building locations to the 1% flood inundation boundary.

Table 9: Bacon County Riverine 1% Building Losses

Occupancy Classification	Total Buildings	Total Buildings Damaged	Total Building Exposure	Total Losses to Buildings	Loss Ratio of Exposed to Damaged
			Alma		
Residential	1,201	2	$ 216,643,410	$ 55,938	0.03%
			Unincorporated		
Residential	3,765	28	$ 377,044,205	$ 916,079	0.24%
Commercial	55	1	$ 40,501,506	$ 75,743	0.19%
			County Total		
Total	5,021	31	$ 634,189,121	$ 1,047,760	

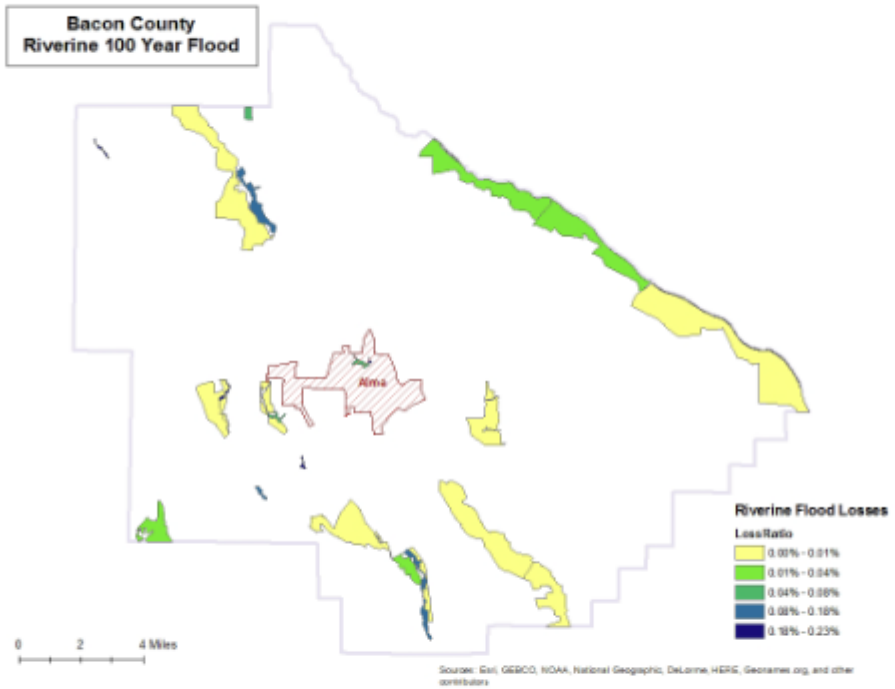

Figure 8: Potential UDF Loss Ratios from the 1% Riverine Flood

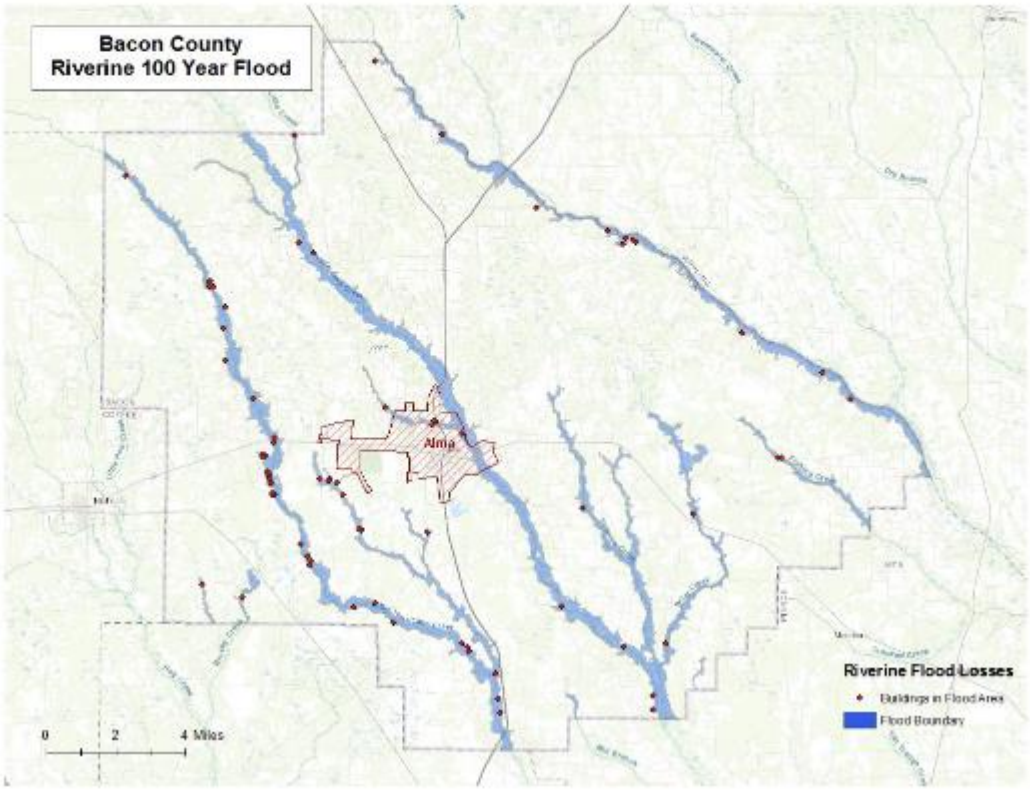

Figure 9: Damaged Buildings in 1% Riverine Flood

Riverine 1% Flood Essential Facility Losses

An essential facility may encounter many of the same impacts as other buildings within the flood boundary. These impacts can include structural failure, extensive water damage to the facility and loss of facility functionality (e.g. a damaged police station will no longer be able to serve the community). The analysis has identified that were **0** Essential Facilities subject to damage in the Bacon County riverine 1% probability floodplain.

Table 10: Expected Damage to Essential Facilities in 1% Riverine Flood

Classification	Total	Moderate	Substantial	Loss of Use
Fire Station	9	0	0	0
Hospitals	1	0	0	0
Police Stations	2	0	0	0
Schools	5	0	0	0
EOCs	1	0	0	0

Riverine 1% Flood Shelter Requirements

Hazus-MH estimates that the number of households that are expected to be displaced from their homes due to riverine flooding and the associated potential evacuation. The model estimates 129 households might be displaced due to the flood. Displacement includes households evacuated within or very near to the inundated area. Displaced households represent 388 individuals, of which 91 may require short term publicly provided shelter. The results are mapped in Figure 10. These numbers may be overestimated for two reasons: elevated housing not taken into account and parcel centroids (not aligned exactly with actual structures).

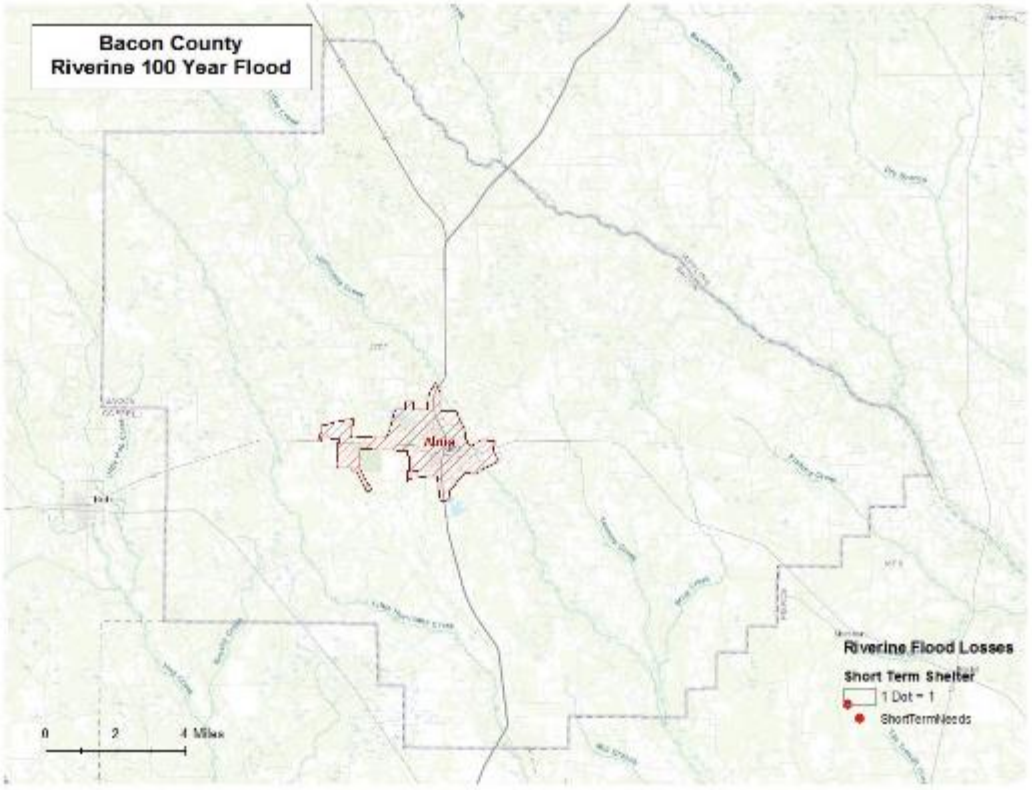

Figure 10: Estimated Flood Shelter Requirements in 1% Riverine Flood

Riverine 1% Flood Debris

Hazus-MH estimates the amount of debris that will be generated by the flood. The model breaks debris into three general categories:

- Finishes (dry wall, insulation, etc.)
- Structural (wood, brick, etc.)
- Foundations (concrete slab, concrete block, rebar, etc.)

Different types of material handling equipment will be required for each category. Debris definitions applied in Hazus-MH are unique to the Hazus-MH model and so do not necessarily conform to other definitions that may be employed in other models or guidelines.

The analysis estimates that an approximate total of 1,904 tons of debris might be generated: 1) Finishes – 947 tons; 2) Structural - 298 tons; and 3) Foundations- 660 tons. The results are mapped in Figure 11.

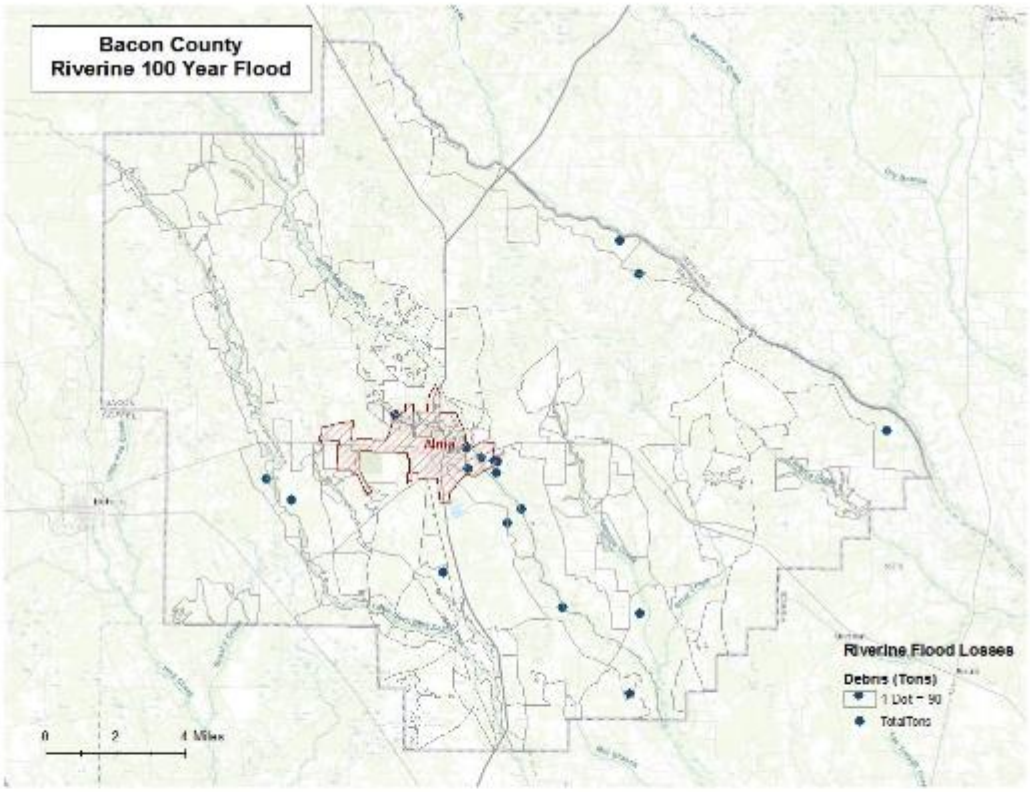

Figure 11: Flood Debris Weight (Tons) in 1% Riverine Flood

Tornado Risk Assessment

Hazard Definition

Tornadoes pose a great risk to the state of Georgia and its citizens. Tornadoes can occur at any time during the day or night. They can also happen during any month of the year. The unpredictability of tornadoes makes them one of Georgia's most dangerous hazards. Their extreme winds are violently destructive when they touch down in the region's developed and populated areas. Current estimates place the maximum velocity at about 300 miles per hour, but higher and lower values can occur. A wind velocity of 200 miles per hour will result in a wind pressure of 102.4 pounds per square foot of surface area—a load that exceeds the tolerance limits of most buildings. Considering these factors, it is easy to understand why tornadoes can be so devastating for the communities they hit.

Tornadoes are defined as violently-rotating columns of air extending from thunderstorms and cyclonic events. Funnel clouds are rotating columns of air not in contact with the ground; however, the violently-rotating column of air can reach the ground very quickly and become a tornado. If the funnel cloud picks up and blows debris, it has reached the ground and is a tornado.

Tornadoes are classified according to the Fujita tornado intensity scale. Originally introduced in 1971, the scale was modified in 2006 to better define the damage and estimated wind scale. The Enhanced Fujita Scale ranges from low intensity EF0 with effective wind speeds of 65 to 85 miles per hour, to EF5 tornadoes with effective wind speeds of over 200 miles per hour. The Enhanced Fujita intensity scale is included in Table 11.

Table 11: Enhanced Fujita Tornado Rating

Fujita Number	Estimated Wind Speed	Path Width	Path Length	Description of Destruction
EF0 *Gale*	65-85 mph	6-17 yards	0.3-0.9 miles	Light damage, some damage to chimneys, branches broken, sign boards damaged, shallow-rooted trees blown over.
EF1 *Moderate*	86-110 mph	18-55 yards	1.0-3.1 miles	Moderate damage, roof surfaces peeled off, mobile homes pushed off foundations, attached garages damaged.
EF2 *Significant*	111-135 mph	56-175 yards	3.2-9.9 miles	Considerable damage, entire roofs torn from frame houses, mobile homes demolished, boxcars pushed over, large trees snapped or uprooted.
EF3 *Severe*	136-165 mph	176-566 yards	10-31 miles	Severe damage, walls torn from well-constructed houses, trains overturned, most trees in forests uprooted, heavy cars thrown about.
EF4 *Devastating*	166-200 mph	0.3-0.9 miles	32-99 miles	Complete damage, well-constructed houses leveled, structures with weak foundations blown off for some distance, large missiles generated.
EF5 *Incredible*	Over 200 mph	1.0-3.1 miles	100-315 miles	Foundations swept clean, automobiles become missiles and thrown for 100 yards or more, steel-reinforced concrete structures badly damaged.

Source: http://www.srh.noaa.gov

Hypothetical Tornado Scenario

For this report, an EF3 tornado was modeled to illustrate the potential impacts of tornadoes of this magnitude in the county. The analysis used a hypothetical path based upon an EF3 tornado event running along the predominant direction of historical tornados (southeast to northwest). The tornado path was placed to travel through Alma. The selected widths were modeled after a re-creation of the Fujita-Scale guidelines based on conceptual wind speeds, path widths, and path lengths. There is no guarantee that every tornado will fit exactly into one of these categories. Table 12 depicts tornado path widths and expected damage.

Table 12: Tornado Path Widths and Damage Curves

Enhanced Fujita Scale	Path Width (feet)	Maximum Expected Damage
EF5	2,400	100%
EF4	1,800	100%
EF3	1,200	80%
EF2	600	50%
EF1	300	10%

Within any given tornado path there are degrees of damage. The most intense damage occurs within the center of the damage path, with decreasing amounts of damage away from the center. After the hypothetical path is digitized on a map, the process is modeled in GIS by adding buffers (damage zones) around the tornado path. Figure 12 describes the zone analysis.

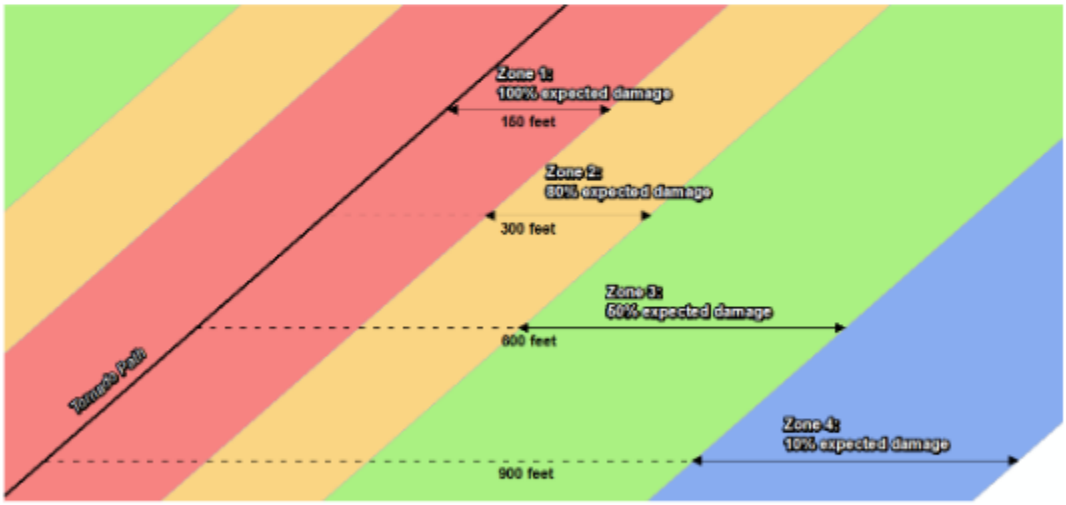

Figure 12: EF Scale Tornado Zones

An EF3 tornado has four damage zones, depicted in Table 13. Major damage is estimated within 150 feet of the tornado path. The outer buffer is 900 feet from the tornado path, within which buildings will not experience any damage. The selected hypothetical tornado path is depicted in Figure 13 and the damage curve buffer zones are shown in Figure 14.

Table 13: EF3 Tornado Zones and Damage Curves

Zone	Buffer (feet)	Damage Curve
1	0-150	80%
2	150-300	50%
3	300-600	10%
4	600-900	0%

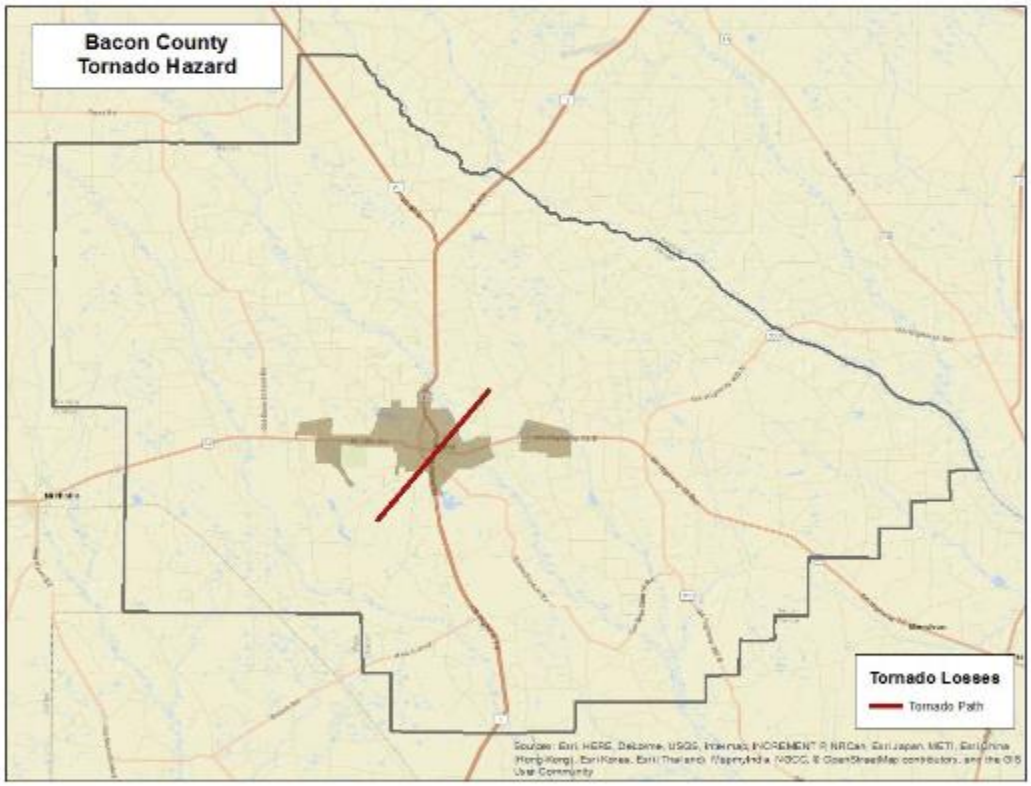

Figure 13: Hypothetical EF3 Tornado Path

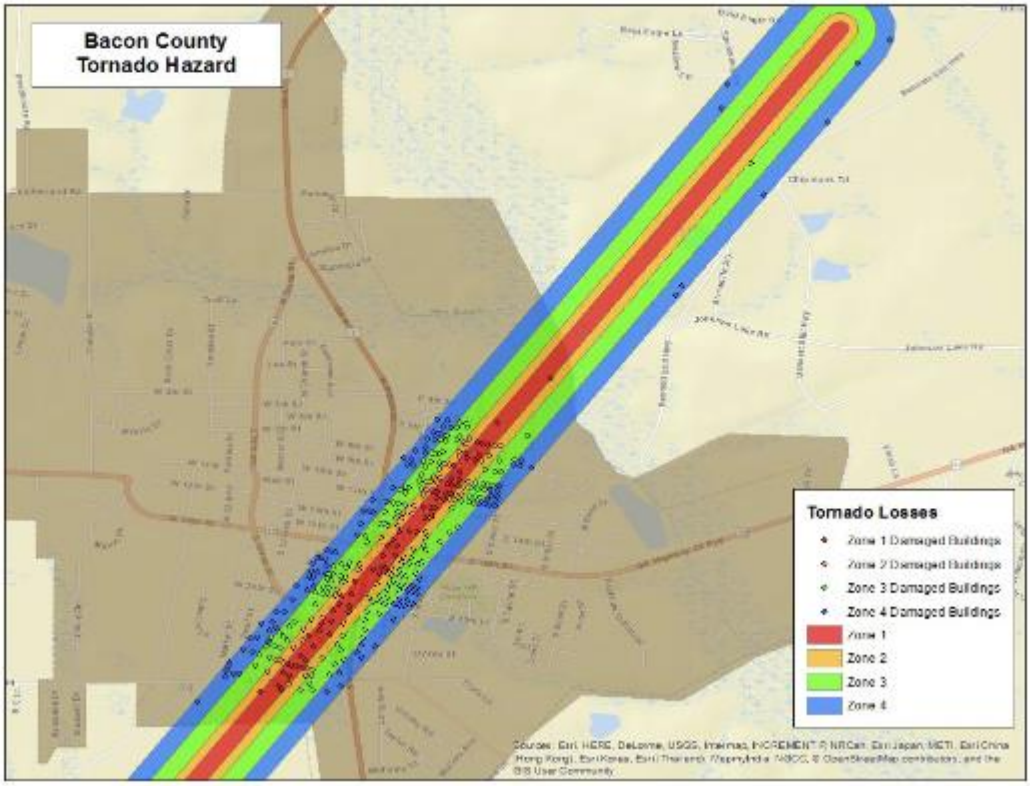

Figure 14: Modeled EF3 Tornado Damage Buffers

EF3 Tornado Building Damages

The analysis estimated that approximately 428 buildings could be damaged, with estimated building losses of approximately $33.5 million. The building losses are an estimate of building replacement costs multiplied by the percentages of damage. The overlay was performed against parcels provided by Bacon County that were joined with Assessor records showing estimated property replacement costs. The Assessor records often do not distinguish parcels by occupancy class if the parcels are not taxable and thus the number of buildings and replacement costs may be underestimated. The results of the analysis are depicted in Table 14.

Table 14: Estimated Building Losses by Occupancy Type

Occupancy Classification	Buildings Damaged		Building Losses
Commerical	72	$	20,788,379
Educational	2	$	1,712,435
Religious	4	$	171,033
Industrial	2	$	38,535
Residential	348	$	10,788,293
Total	**428**	**$**	**33,498,675**

EF3 Tornado Essential Facility Damage

There were 1 essential facilities located in the tornado path according to the modeling, this 1 facilities would suffer minor to major damage should such a tornado strike occur.

The location of the damaged Essential Facilities is mapped in Figure 15.

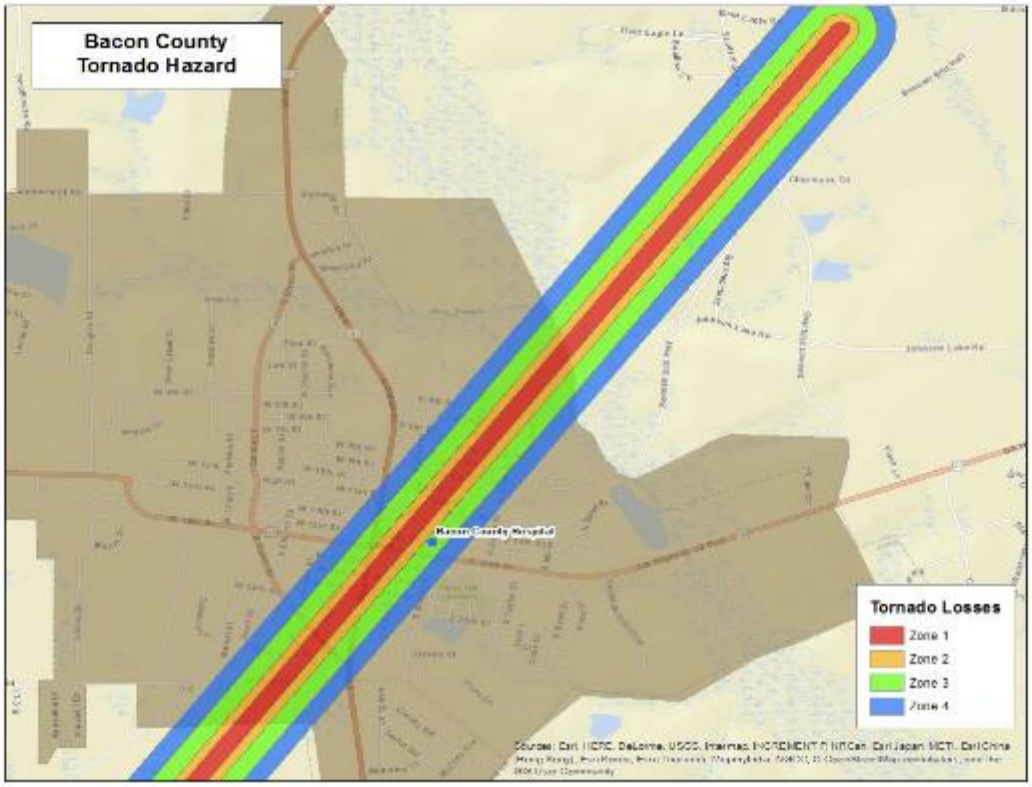

Figure 15: Modeled Essential Facility Damage in Bacon County

Exceptions Report

Hazus Version 2.2 SP1 was used to perform the loss estimates for Bacon County, Georgia. Changes made to the default Hazus-MH inventory and the modeling parameters used to setup the hazard scenarios are described within this document.

Reported losses reflect the updated data sets. Steps, algorithms and assumptions used during the data update process are documented in the project workflow developed by the Polis Center.

Statewide Inventory Changes

The default Hazus-MH Essential Facility inventory was updated for the entire state prior to running the hazard scenarios for Bacon County.

Statewide facility data were supplied by GEMA through the GMIS in May 2022. The Regional Commission updated the essential facilities in 2022. The updated data was used for this analysis. Table 15 summarizes the difference between the original Hazus-MH default data and the updated data for Bacon County.

Table 15: Essential Facility Updates

Occupancy Classification	Default Replacement Cost	Default Count	Updated Replacement Cost	Updated Count
Care	$ 41,996,000	14	$ 25,205,000	1
EOC	$ 880,000	1	$ 880,000	1
Fire	$ 14,423,000	10	$ 12,182,000	9
Police	$ 21,263,000	7	$ 5,122,000	2
School	$ 91,042,000	12	$ 2,909,509,000	5

County Inventory Changes

The GBS records for Bacon County were replaced with data derived from parcel and property assessment data obtained from Bacon County. The county provided property assessment data was current as of May 2022 and the parcel data current as of May 2022.

General Building Stock Updates

The parcel boundaries and assessor records were obtained from Bacon County. Records without improvements were deleted. The parcel boundaries were converted to parcel points located in the centroids of each parcel boundary unless there were building footprints. Each parcel point was linked to an assessor record based upon matching parcel numbers. The generated Building Inventory represents the approximate locations (within a parcel) of building exposure. The Building Inventory was aggregated by Census Block and imported into Hazus-MH using the Hazus-MH Comprehensive Data Management System (CDMS). Both the 2010 Census Tract and Census Block tables were updated.

The match between parcel records and assessor records was based upon a common Parcel ID. For this type of project, unless the hit rate is better than 85%, the records are not used to update the default aggregate inventory in Hazus-MH. The Parcel-Assessor hit rate for Bacon County was 98.9%.

Adjustments were made to records when primary fields did not have a value. In these cases, default values were applied to the fields. Table 16 outlines the adjustments made to Bacon County records.

Table 16: Building Inventory Default Adjustment Rates

Type of Adjustment	Building Count	Percentage
Area Unknown	389	7%
Construction Unknown	551	10%
Condition Unknown	299	5%
Foundation Unknown	551	10%
Year Built Unknown	280	5%

Portions of the CAMA values were either missing (<Null> or '0'), did not match CAMA domains or were unusable ('Unknown', 'Other', 'Pending'). These were replaced with 'best available' values. Missing YearBuilt values were populated from average values per Census Block. Missing Condition, Construction and Foundation values were populated with the highest-frequency CAMA values per Occupancy Class. Missing Area values were populated with the average CAMA values per Occupancy Class.

The resulting Building Inventory was used to populate the Hazus-MH General Building Stock and User Defined Facility tables. The updated General Building Stock was used to calculate flood and tornado losses. Changes to the building counts and exposure that were modeled in Bacon County are sorted by General Occupancy in Table 1 at the beginning of this report. If replacements cost or building value were not present for a given record in the Assessor data, replacement costs were calculated from the Building Area (sqft) multiplied by the Hazus-MH RS Means ($/sqft) values for each Occupancy Class.

Differences between the default and updated data are due to various factors. The Assessor records often do not distinguish parcels by occupancy class when the parcels are not taxable; therefore, the total number of buildings and the building replacement costs for government, religious/non-profit, and education may be underestimated.

User Defined Facilities

Local parcel and CAMA data were used to develop points representing the locations of buildings in the county, referred to as User Defined Facilities (UDF) in the Hazus model. For the flood model, this includes only buildings located in the 1% Annual Chance Riverine Flood Area. Table 17 identifies the total building count & exposure for the county and the total building count & exposure for buildings located in the 1% Annual Chance Riverine Flood Area.

Table 17: Building Count and Exposure for County and Riverine Flood Area

Feature	Counts	Exposure
Total buildings in the County	5,559	$1,419,147,570
Total buildings inside the 1% Annual Chance Riverine Flood Area	105	$11,285,210

It should be noted that UDFs are only used in the flood modeling process, due to the fact that it is important to identify if individual buildings are located within the flood area to obtain the depth of flood.

Assumptions

- Flood analysis was performed on UDF. The point locations are parcel centroid accuracy.
- The analysis is restricted to the county boundary within the flood area. Events that occur near the county boundary do not contain loss estimates from adjacent counties.
- The following attributes were defaulted or calculated:
  - First Floor Height was set from Foundation Type
  - Content Cost was calculated from Building Cost