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

Section I. GEMA Worksheet 3A

Item I.

GEMA Worksheet #3a Inventory of Assets

Jurisdiction: Turner County

Hazard: Hurricane/Tropical Storms

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.

	N	umber of Struct	ures		Value of Structures		1	Number of People		
Type of Structure	#in						#in			
(Occupancy Class)	Community of State	# in Hazard Area	% in Hazard Area	\$ in Community or State	\$ in Hazard Area	% in Hazard Area	Community or State	# in Hazard Area	% in Hazard Area	
Residential	2,716	2,716	100.000%	133,386,535	133,386,535	100.000%	14,185	14,185	100%	
Commercial	944	944	100.000%	38,697,820	38,697,820	100.000%	0	0	#DIV/0!	
Industrial	134	134	100.000%	12,173,270	12,173,270	100.000%	0	0	#DIV/0!	
Agricultural	3,738	3,738	100.000%	34,554,185	34,554,185	100.000%	0	0	#DIV/0!	
Religious/ Non-										
profit	16	16	100.000%	396,075	396,075	100.000%	0	0	#DIV/0!	
Government	229	229	100.000%	17,446,180	17,446,180	100.000%	0	0	#DIV/0!	
Education	14	14	100.000%	7,655,228	7,655,228	100.000%	0	0	#DIV/0!	
Utilities	51	51	100.000%	61,371,325	61,371,325	100.000%	0	0	#DIV/0!	
Total	7,842	7,842	100.000%	305,680,618	305,680,618	100.000%	14,185	14,185	100%	

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

- 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 Jurisdiction: Turner County

### **Inventory of Assets**

Hazard: Tornadoes

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.

	Nu	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	2,716	2,716	100.000%	133,386,535	133,386,535	100.000%	14,185	14,185	100%		
Commercial	944	944	100.000%	38,697,820	38,697,820	100.000%	0	0	#DIV/0!		
Industrial	134	134	100.000%	12,173,270	12,173,270	100.000%	0	0	#DIV/0!		
Agricultural	3,738	3,738	100.000%	34,554,185	34,554,185	100.000%	0	0	#DIV/0!		
Religious/ Non-											
profit	16	16	100.000%	396,075	396,075	100.000%	0	0	#DIV/0!		
Government	229	229	100.000%	17,446,180	17,446,180	100.000%	0	0	#DIV/0!		
Education	14	14	100.000%	7,655,228	7,655,228	100.000%	0	0	#DIV/0!		
Utilities	51	51	100.000%	61,371,325	61,371,325	100.000%	0	0	#DIV/0!		
Total	7,842	7,842	100.000%	305,680,618	305,680,618	100.000%	14,185	14,185	100%		

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

- 1. Do you know where the greatest damages may occur in your area?
- 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: Turner County

Hazard: Flood Check this in HAZUS Report and change in Item C/D

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.

	N	umber of Struct	ures		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	2,716	2,716	100.000%	133,386,535	133,386,535	100.000%	14,185	14,185	100%	
Commercial	944	944	100.000%	38,697,820	38,697,820	100.000%	0	0	#DIV/0!	
Industrial	134	134	100.000%	12,173,270	12,173,270	100.000%	0	0	#DIV/0!	
Agricultural	3,738	3,738	100.000%	34,554,185	34,554,185	100.000%	0	0	#DIV/0!	
Religious/ Non- profit	16	16	100.000%	396,075	396.075	100.000%	0	0	#DIV/0!	
Government	229	229		17,446,180	17,446,180	100.000%	0	0	#DIV/0!	
Education	14	14	100.000%	7,655,228	7,655,228	100.000%	0	0	#DIV/0!	
Utilities	51	51	100.000%	61,371,325	61,371,325	100.000%	0	0	#DIV/0!	
Total	7,842	7,842	100.000%	305,680,618	305,680,618	100.000%	14,185	14,185	100%	

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

- 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: Turner County** 

Hazard: Lightning/Thunderstorms/Wind/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.

	N	umber of Struct	ures		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	2,716	2,716	100.000%	133,386,535	133,386,535	100.000%	14,185	14,185	100%
Commercial	944	944	100.000%	38,697,820	38,697,820	100.000%	0	0	#DIV/0!
Industrial	134	134	100.000%	12,173,270	12,173,270	100.000%	0	0	#DIV/0!
Agricultural	3,738	3,738	100.000%	34,554,185	34,554,185	100.000%	0	0	#DIV/0!
Religious/ Non- profit	16	16	100.000%	396,075	396,075	100.000%	0	0	#DIV/0!
Government	229	229	100.000%	17,446,180	17,446,180	100.000%	0	0	#DIV/0!
Education	14	14	100.000%	7,655,228	7,655,228	100.000%	0	0	#DIV/0!
Utilities	51	51	100.000%	61,371,325	61,371,325	100.000%	0	0	#DIV/0!
Total	7,842	7,842	100.000%	305,680,618	305,680,618	100.000%	14,185	14,185	100%

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

- 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 Jurisdiction: Turner County Hazard: Extreme Heat

### **Inventory of Assets**

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.

	N	umber of Struct	ures			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	2,716	2,716	100.000%	133,386,535	133,386,535	100.000%	14,185	14,185	100%
Commercial	944	944	100.000%	38,697,820	38,697,820	100.000%	0	0	#DIV/0!
Industrial	134	134	100.000%	12,173,270	12,173,270	100.000%	0	0	#DIV/0!
Agricultural	3,738	3,738	100.000%	34,554,185	34,554,185	100.000%	0	0	#DIV/0!
Religious/ Non-									
profit	16	16	100.000%	396,075	396,075	100.000%	0	0	#DIV/0!
Government	229	229	100.000%	17,446,180	17,446,180	100.000%	0	0	#DIV/0!
Education	14	14	100.000%	7,655,228	7,655,228	100.000%	0	0	#DIV/0!
Utilities	51	51	100.000%	61,371,325	61,371,325	100.000%	0	0	#DIV/0!
Total	7,842	7,842	100.000%	305,680,618	305,680,618	100.000%	14,185	14,185	100%

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

- 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 Jurisdiction: Turner County

### Inventory of Assets

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.

	N	umber of Struct	ures		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	2,716	2,716	100.000%	133,386,535	133,386,535	100.000%	14,185	14,185	100%
Commercial	944	944	100.000%	38,697,820	38,697,820	100.000%	0	0	#DIV/0!
Industrial	134	134	100.000%	12,173,270	12,173,270	100.000%	0	0	#DIV/0!
Agricultural	3,738	3,738	100.000%	34,554,185	34,554,185	100.000%	0	0	#DIV/0!
Religious/ Non- profit	16	16	100.000%	396,075	396,075	100.000%	0	0	#DIV/0!
Government	229	229	100.000%	17,446,180	17,446,180	100.000%	0	0	#DIV/0!
Education	14	14	100.000%	7,655,228	7,655,228	100.000%	0	0	#DIV/0!
Utilities	51	51	100.000%	61,371,325	61,371,325	100.000%	0	0	#DIV/0!
Total	7,842	7,842	100.000%	305,680,618	305,680,618	100.000%	14,185	14,185	100%

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

- 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 Jurisdiction: Turner County

### Inventory of Assets

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.

	N	umber of Struct	ures		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	2,716	2,716	100.000%	133,386,535	133,386,535	100.000%	14,185	14,185	100%
Commercial	944	944	100.000%	38,697,820	38,697,820	100.000%	0	0	#DIV/0!
Industrial	134	134	100.000%	12,173,270	12,173,270	100.000%	0	0	#DIV/0!
Agricultural	3,738	3,738	100.000%	34,554,185	34,554,185	100.000%	0	0	#DIV/0!
Religious/ Non- profit	16	16	100.000%	396,075	396,075	100.000%	0	0	#DIV/0!
Government	229	229	100.000%	17,446,180	17,446,180	100.000%	0	0	#DIV/0!
Education	14	14		7,655,228	7,655,228	100.000%	0	0	#DIV/0!
Utilities	51	51	100.000%	61,371,325	61,371,325	100.000%	0	0	#DIV/0!
Total	7,842	7,842	100.000%	305,680,618	305,680,618	100.000%	14,185	14,185	100%

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

- 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: Turner County** 

**Hazard: Public Health Emergency** 

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.

	N	umber of Struct	ures		Value of Structures			Number of Peop	e
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	2,716	2,716	100.000%	133,386,535	133,386,535	100.000%	14,185	14,185	100%
Commercial	944	944	100.000%	38,697,820	38,697,820	100.000%	0	0	#DIV/0!
Industrial	134	134	100.000%	12,173,270	12,173,270	100.000%	0	0	#DIV/0!
Agricultural	3,738	3,738	100.000%	34,554,185	34,554,185	100.000%	0	0	#DIV/0!
Religious/ Non- profit	16	16	100.000%	396,075	396,075	100.000%	0	0	#DIV/0!
Government	229	229	100.000%	17,446,180	17,446,180	100.000%	0	0	#DIV/0!
Education	14	14	100.000%	7,655,228	7,655,228	100.000%	0	0	#DIV/0!
Utilities	51	51	100.000%	61,371,325	61,371,325	100.000%	0	0	#DIV/0!
Total	7,842	7,842	100.000%	305,680,618	305,680,618	100.000%	14,185	14,185	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?
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- 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?

### Section II. GMIS Critical Facilities Maps

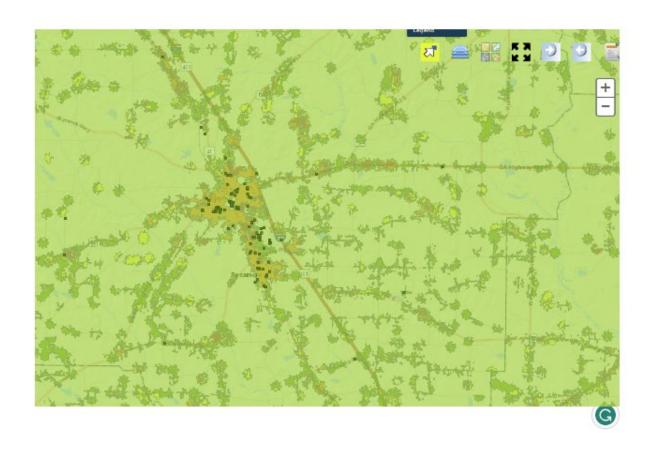
1. Critical Facilities and Hazard Potential for Hazards Affecting the Entire Community (Hurricanes/Tropical Storms, Tornadoes, Lightning/Thunderstorms/Windstorms/Hail, Extreme Heat, and Drought)

### Critical Facilities Map - All Hazards



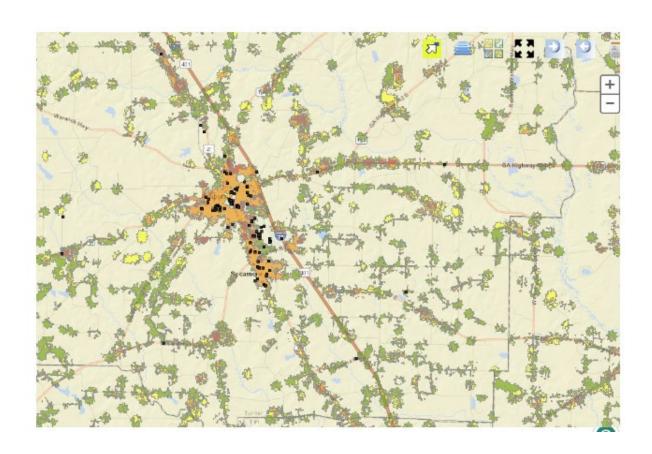
### Section II. GMIS Critical Facilities Maps

### 2. Critical Facilities and Wind Zones

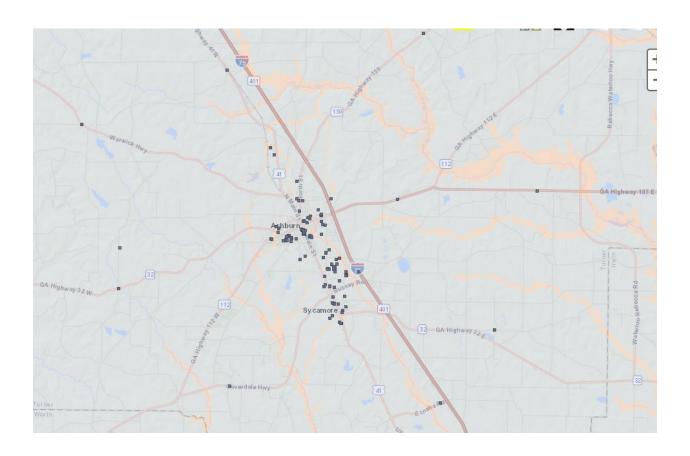


### Section II. GMIS Critical Facilities Maps

3. Critical Facilities and Wildfire Hazard Areas (GMIS data)



### 4. Critical Facilities and Flood Zones



### Section III. Other Maps

### Hurricane MEOW maps

### National Hurricane Center Storm Surge Maps

### Examples of the Maximum Envelope of Wind

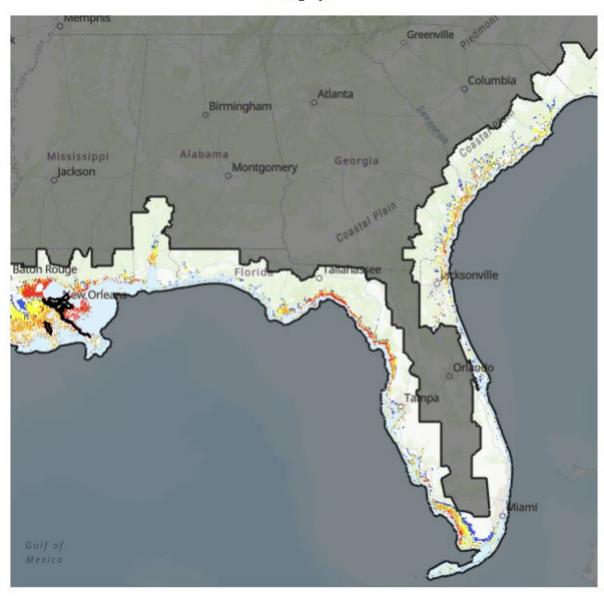
### **Gulf Coast Region**

Strength		Forward Motion (knots)						
Category 1	8	12	16	20	24			
Category 2	8	12	16	20	24			
Category 3	8	12	16	20	24			
Category 4	8	12	16	20	24			
Category 5	8	12	16	20	24			

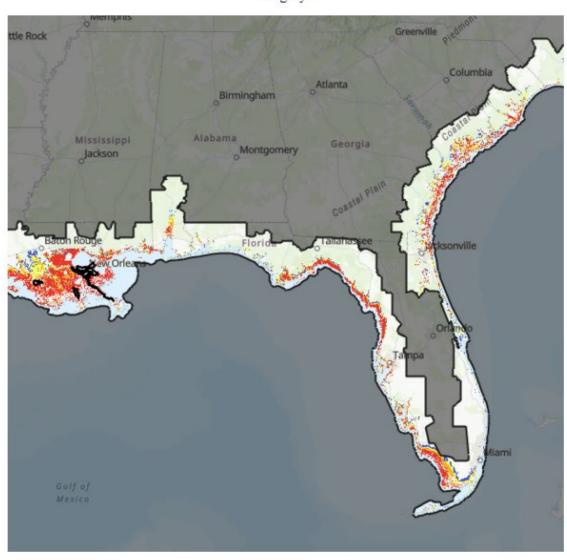
### East Coast Region

		East Coast Reg	jion					
Strength		Forward Motion (knots)						
Category 1	8	12	16	20	24			
Category 2	8	12	16	20	24			
Category 3	8	12	16	20	24			
Category 4	8	12	16	20	24			
Category 5	8	12	16	20	24			

Category 1

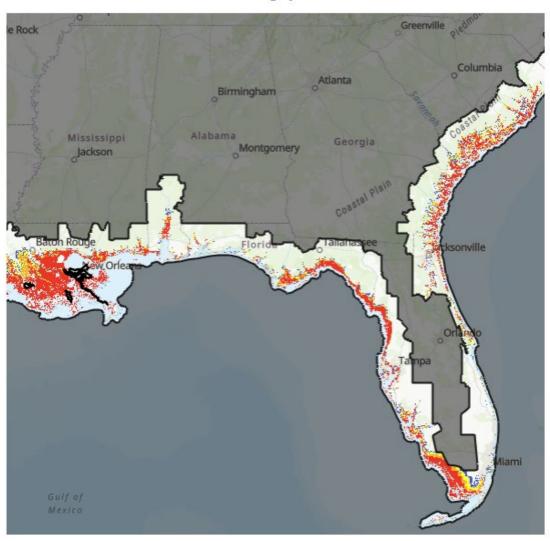


Category 2



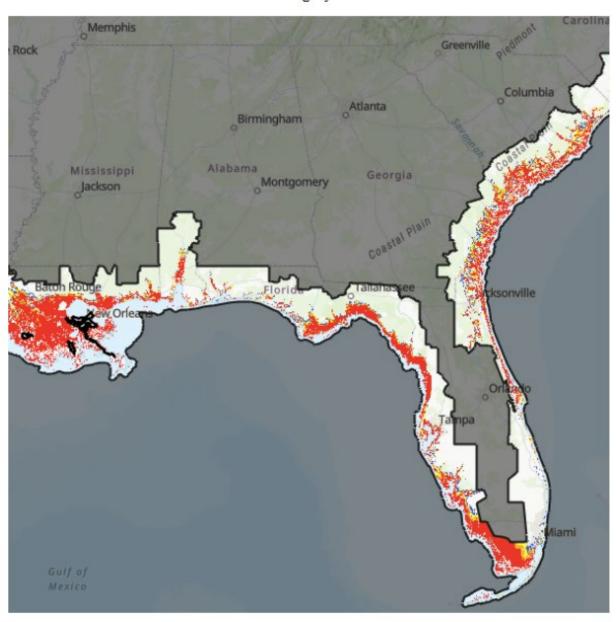


Category 3

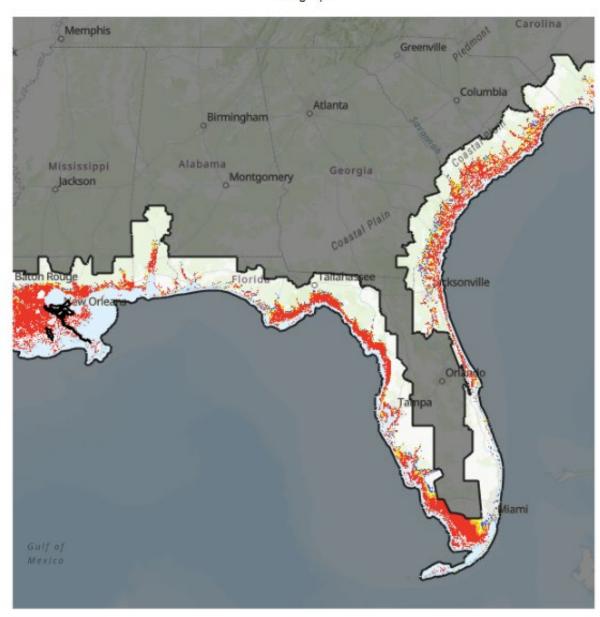




Category 4









Tornado Track Map



### EF1: Apr. 07, 2022 04:50 AM EDT

A slow moving cold front brought multiple rounds of severe weather to the tri-state region from April 5-7. Several tornadoes occurred along with numerous reports of wind damage and a few reports of large hail. None of the tornadoes were rated stronger than EF1.

A tornado briefly touched down just along S. Washington Street southeast of Rebecca in Turner County. The tornado caused significant damage to several chicken houses before quickly dissipating. This tornado was rated an EF1 with max winds estimated at 90 mph.

# Turner County, Georgia





## Property Flood Risk: Low Risk

Flood Depths\*:

G.Ph. RWAJAL CHANG (1900 YLAR) FLOCO CHATM	THE ANNUAL CHANCE (100 YEAR)	VPS ANNUAL CHARGE (10 VEAR) FLOOD DEPEN
Not Available	Not Available	NOT AVAILABLE
.1		1
Committee Town	Lower Plant Charles Lower And Charles Submany Plant Zone	of Stee Change Spin

### Location Information

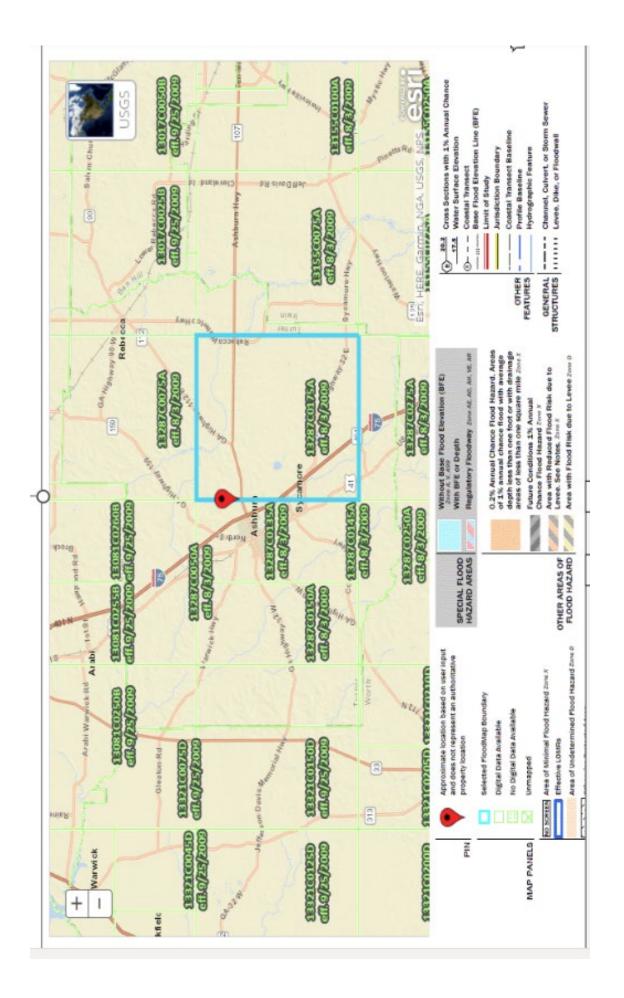
Panel: 13287C0175A	Alapaha	TURNER	13287C	PRELIMINARY
Panel:	Watershed: Alapaha	County:	Community ID: 132870	Map Status:

\*Thou Chipties whose no his record are observed in the TATA ANALY products and a verying to the reserved intent of a feat. These depths are obtained from IEA (EC. MS, models and represent the loved residide mins. Only areas within a ThatMAP auxiliar and reserved in the bett for a secondary. Demonstrated in the areas in our decreedy assistance of the best file side and secondary. Journal will the TDAMA due Services Center at available To many referenties, please will the TDAMA due Services Center at

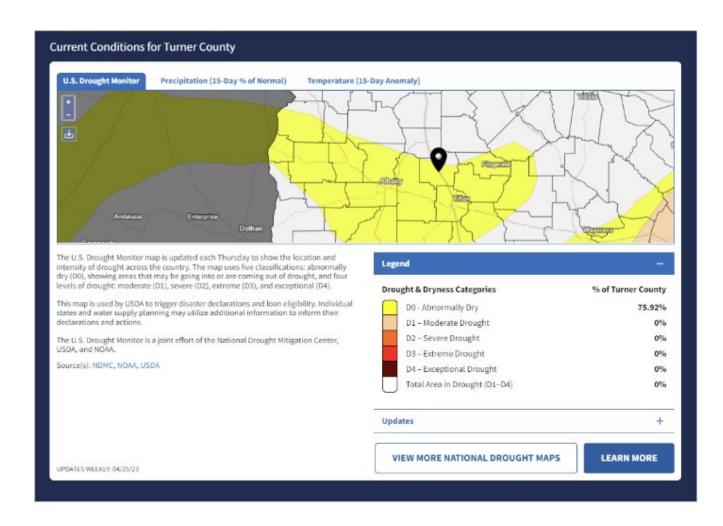
## Nature Doesn't Read Flood Maps

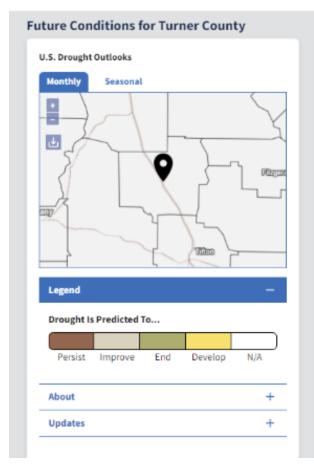
Many pecase don't understand just how niky the fixuption can be. There is a greater then 20% chance that a non-occorded forms in the SPTA will be flooded during a 20 year mantyage period.

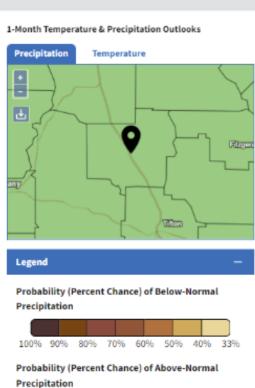
FOR MORE INFORMATION VISIT, PLEASE VISIT.

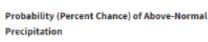


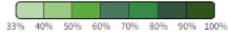
### **Drought Monitor**











### **Appendix B. Growth and Development Trends**

### Census Demographic Summary

All Topics	Q. Turner County, Georgia
Population Estimates, July 1, 2022, (V2022)	₾ 8,842
▲ PEOPLE	
Population	
1 Population Estimates, July 1, 2022, (V2022)	△ 8,842
Population estimates base, April 1, 2020, (V2022)	△ 9,001
Population, percent change - April 1, 2020 (estimates base) to July 1, 2022, (V2022)	△ -1.8%
Population, Census, April 1, 2020	9,006
Population, Census, April 1, 2010	8,930
Age and Sex	
Persons under 5 years, percent	△ 6.7%
Persons under 18 years, percent	△ 24.9%
Persons 65 years and over, percent	△ 18.8%
Female persons, percent	△ 51.5%
Race and Hispanic Origin	
1 White alone, percent	△ 56.7%
Black or African American alone, percent (a)	△ 40.5%
American Indian and Alaska Native alone, percent (a)	△ 0.6%
Asian alone, percent (a)	△ 0.9%
Native Hawaiian and Other Pacific Islander alone, percent (a)	△ 0.1%
1 Two or More Races, percent	△ 1.0%
Hispanic or Latino, percent (b)	△ 4.9%
White alone, not Hispanic or Latino, percent	△ 53.3%
Population Characteristics	
(1) Veterans, 2017-2021	667
Foreign born persons, percent, 2017-2021	3.1%
Housing	
1 Housing units, July 1, 2022, (V2022)	3,928
① Owner-occupied housing unit rate, 2017-2021	66.8%
Median value of owner-occupied housing units, 2017-2021	\$76,700
Median selected monthly owner costs -with a mortgage, 2017-2021	\$998
Median selected monthly owner costs -without a mortgage, 2017-2021	\$363
Median gross rent, 2017-2021	\$590
Building permits, 2022	13
Families & Living Arrangements	
① Households, 2017-2021	3,269
Persons per household, 2017-2021	2.61
1 Living in same house 1 year ago, percent of persons age 1 year+, 2017-2021	85.6%
1 Language other than English spoken at home, percent of persons age 5 years+, 2017-2021	8.4%
Computer and Internet Use	
1 Households with a computer, percent, 2017-2021	82.4%
1 Households with a broadband Internet subscription, percent, 2017-2021	71.2%

Education	
High school graduate or higher, percent of persons age 25 years+, 2017-2021	79.7%
Bachelor's degree or higher, percent of persons age 25 years+, 2017-2021	10.9%
Health	
(1) With a disability, under age 65 years, percent, 2017-2021	13.8%
Persons without health insurance, under age 65 years, percent	▲ 18.1%
Economy	
(i) In civilian labor force, total, percent of population age 16 years+, 2017-2021	56.0%
In civilian labor force, female, percent of population age 16 years+, 2017-2021	50.7%
Total accommodation and food services sales, 2017 (\$1,000) (c)	9,524
Total health care and social assistance receipts/revenue, 2017 (\$1,000) (c)	8,439
Total transportation and warehousing receipts revenue, 2017 (\$1,000) (c)	D
(i) Total retail sales, 2017 (\$1,000) (c)	91,885
Total retail sales per capita, 2017 (c)	\$11,628
Transportation	
Mean travel time to work (minutes), workers age 16 years+, 2017-2021	23.7
Income & Poverty	
Median household income (in 2021 dollars), 2017-2021	\$35,828
Per capita income in past 12 months (in 2021 dollars), 2017-2021	\$20,299
Persons in poverty, percent	△ 26.2%
M BUSINESSES	
Businesses	
Total employer establishments, 2021	154
Total employment, 2021	1,461
Total annual payroll, 2021 (\$1,000)	53,784
Total employment, percent change, 2020-2021	-7.9%
Total nonemployer establishments, 2019	721
All employer firms, Reference year 2017	137
Men-owned employer firms, Reference year 2017	63
⊕ Women-owned employer firms, Reference year 2017	S
Minority-owned employer firms, Reference year 2017	s
Nonminority-owned employer firms, Reference year 2017	94
⊕ Veteran-owned employer firms, Reference year 2017	s
Nonveteran-owned employer firms, Reference year 2017	10.1
	114
⊕ GEOCRAPHY	114
<b>©</b> СЕОСПАРНУ	114
<b>©</b> СЕОСПАРНУ	
© CEOCRAPHY  Geography	31.6
© Population per square mile, 2020	
© CEOGRAPHY  Geography  Population per square mile, 2020 Population per square mile, 2010	

### Comprehensive Plan Short-Term Work Program

2021 Joint Comprehensive Plan Update for Turner County and the Cities of Ashburn, Rebecca, and Sycamore

### 7.2. 2021-2025 Community Work Program

### **Turner County**

PROJECTS	ESTIMATED COST	RESPONSIBLE PARTY	FUNDING SOURCE	RELATED POLICY	FY 21	FY 22	FY 23	FY 24	
CULTURAL RESOURCES									
Continue to restore the old Turner County Jail	\$65,000	Tumer County	General funds, grants	1.1b			٠	٠	
Erect signage for the Desoto Trail Encounter and Civil War sites	\$5,000	Historic Committee	General funds, grants	1.1d			•	٠	•
ECONOMIC DEVELOPMENT									
Construct Galeways into the County	\$150,000	Turner County Development Authority	General funds, grants	2.3e					
Promote economic development through programs conducted jointly with the Development Authority and Chamber of Commerce	Staff time	Turner County, Cities of Ashburn, Rebecca, and Sycamore	General funds	2.1b					
LAND USE									
Construct new parks and recreational facilities	\$500,000	Turner County	General funds, grants, LWCF	6.4a					
COMMUNITY FACILITIES & SERVICES									
Expand Airport Hangar and Fuel Facility	\$250,000	Turner County/Airport Authority	General funds, grants, Airport Authority	6.5b					
Purchase personal protective equipment for 35 firefighters	\$100,000	Turner County	General funds, FEMA	6.11a	•	•	•	٠	•
Add small gym to the Recreation center	\$100,000	Turner County	General funds, grants	6.4a, 6.4b	•	•	•	•	•
Provide broadband access on school buses	\$200,000	Turner County Board of Education	General funds, grants	6.8a					
Purchase land and install a repeater tower for communication between public safety agencies	\$500,000	Turner County	General funds, grants	7.1a					

PROJECTS	ESTIMATED COST	RESPONSIBLE PARTY	FUNDING SOURCE	RELATED POLICY	FY 21	FY 22	FY 23	FY 24	FY 25
Resurface/pave/repair approximately 20 miles of County roads, and improve drainage, including but not limited to the following:  1. Raines Road 2. Mobile Home Park (MLK JR and SR 112) 3. Mobile Home Park (Cannon Road and Joe Lawrence) 4. Freeman Road, 5. Brady Road, 6. Brody Road 7. John Pate Road 8. Lloyd Road 9. Watson Circle 10. Zorn Road 11. Stanford Road (This is a LMIG and CDBG combination as to length) 12. Alberson Road (This is a LMIG and CDBG combination as to length)	\$2,000,000	Turner County	General funds, CDBG, LMIG, other grants	6.1a, 6.2a, 6.2b					
Devise and implement a strategy to pass another five-year SPLOST	Staff time	Turner County	General funds	6.5a	٠	•	•	٠	٠
Establish a College & Career Academy	Staff time	Turner County Board of Education	General funds, grants	2.6a	٠		٠		
Work with broadband providers to encourage expansion of broadband services	Staff time	Turner County	General funds	6.7a			•		
Upgrade and interconnect Public Safety and Road Department radio systems	\$200,000	Turner County	General funds	7.3a	•				

L2

ount /	Acres	40% Value	L6	0	0	
			L7	0	0	
			L8	44	246,133	
INDUS	TRIAL		L9	244	939,482	
ount /	Acres	40% Value				
134		4,869,308	TOTAL	3,536	62,764,837	0
7 :	16.77	68,972	E	XEMPT PROPERTY		
22 20	06.15	912,729	Code	Count	40% Value	
			EO			
			E1	229	6,978,472	
			E2	214	3,835,632	
			E3	7	326,332	
			E4	16	158,430	
10		3,625,264	E5	5	299,214	
7		233,431	E6	14	3,062,091	
7		4,133,568	E7			
			E8			
LAND CO	NSERV	ATION USE	E9	49	3,035,092	
ount /	Acres	40% Value				
			TOTAL	534	17,695,263	
7 9	93.31	46,739		SUMMARY		
151 28,05	54.84	12,417,967	Code	Count	Acres	40% Value
			Agricultural	3,738	11,097.75	25,025,455



### GEORGIA DEPARTMENT OF REVENUE **Local Government Services Division County Digest Section**

HISTORIC

### 2022 TAX DIGEST CONSOLIDATED SUMMARY

				County:TURNER County #:142 Tax District:ASHBURN		
				Dist #: 05 Assessment %: 040 Tot Parcels:1812		
	AGR	ICULTUR	AL	CONSERVATION USE		
Code	Count	Acres	40% Value	Code Count	Acres	40% Value
A1	4		108,788	V3		
A3				V4 9	105.5	97,046
A4	8	82.26	77,351	V5 10	516.59	398,500
A5	7	257.51	161,992	V6		
A6	6		5,010	ENVIRONMENTALLY SENS	TIVE	
A7				Code Count	Acres	40% Value
A9				W3		
AA				W4		
AB				W5		
AF				PROPERTY EXEMPTION		
AI				Code Count	M&O	Bond
AZ		D. D. C.	NA PARTY	SA 0	0	
		IELD PRO		SB 0	0	
	Count	Acres	40% Value	SF 3	2,874,401	
B1 B3				SH 0	0	
B4				SJ 0 SP 52	_	
				-	75,391	
B5 B6				SN 66 ST 0	0	
00	cor	MERCI		SV 19	271,585	
Code			40% Value	sw 0	271,585	
C1	572	Acres	9,920,266	sx	•	
C3		199.13	3,021,399	STATE HOMESTEAD EXEMP	TIONS	
C4		95.59	685,551	51 380	0	
C5		33.33	000,002	53 28	0	
C7				54		
C9				55 18	578,877	
CA				56		
СВ				57		
CF	171		6,697,378	58		
CI	79		2,869,695	59		
CP	2		1,909,063	5C 10	0	
cz				SD 0	0	
FL	PA FAIR	MARKET	ASSMT	5E 1	37,172	
Code	Count	Acres	40% Value	5G 0	0	
F3				55 0	0	
F4				LOCAL HOMESTEAD EXEMP	TIONS	
F5				u		
F9				L2		
				L3		
Total				L4		

L5

Code	Count	A	40% Value	L6	0	0	
	Count	Acres	40% value		_	_	
H1				17	0	0	
Н3				L8	28	218,075	
	IND	USTRIA	L	L9	129	1,008,093	
Code	Count	Acres	40% Value				
11	15		421,393	TOTAL	. 734	5,063,594	0
13	2	6.08	32,660	EX	KEMPT PROPERTY		
14	2	23.02	68,023	Code	Count	40% Value	
15				EO			
17				E1	138	4,713,298	
19				E2	95	1,766,496	
IA				E3		146,332	
IB				E4		124,800	
IF	2		555,604	E5	_	299,214	
-							
	2		8,445	E6	11	3,039,910	
IP	1		965,338	E7			
IZ				E8			
FORES	T LAND	CONSER	VATION USE	E9	49	3,035,092	
Code	Count	Acres	40% Value				
J3				TOTAL	309	13,125,142	
14					SUMMARY		
15				Code	Count	Acres	40% Value
19				Agricultural			

Year:		County:			District:	Print Consolidation Sheet
2022	~	TURNER	~	REBECCA	~	Print Consolidation Sheet

### GEORGIA DEPARTMENT OF REVENUE Local Government Services Division County Digest Section

### 2022 TAX DIGEST CONSOLIDATED SUMMARY

### County:TURNER County #:142 Tax District:REBECCA Dist #: 10 Assessment %: 040 Tot Parcels:158

				Dist #: 10 Assessment %: 040 Tot Pa	rcels:158		
	AGRI	CULTURA	AL		CONSERVATION USE		
Code	Count	Acres	40% Value	Code	Count	Acres 4	10% Value
A1	3		83,566	V3			
A3				V4	7	72.93	51,366
<b>A4</b>	6	34	35,043	VS	3	85.13	96,097
A5	2	12	8,239	V6			
A6	16		32,740		ENVIRONMENTALLY SENSIT	IVE	
A7				Code	Count	Acres 4	10% Value
A9				W3			
AA				W4			
AB				W5			
AF					PROPERTY EXEMPTIONS		
AI				Code	Count	M&0	Bond
AZ				SA	0	0	
	ROWNFI			SB	0	0	
	Count	Acres	40% Value	SF	1	0	
B1				SH	0	0	
83				SJ	0	0	
84				SP	1	102	
B5				SN	3	0	
B6				ST	0	0	
		IMERCIA		SV	10	86,267	
		Acres	40% Value	sw	0	0	
C1	37		358,376	SX			
C3	18	19.14	46,737		STATE HOMESTEAD EXEMPTI	ONS	
C4	1	2.95	11,800	51			
C5				53			
C7				54		34.045	
C9				\$5	1	31,945	
CA				56			
CB CF	14		232,853	57 58			
CI	3		54,619	59			
CP	1		367,388	SC SC			
cz			307,308	SD	0	0	
	PA FAIR I	MARKET	ASSMT	SE SE	0	0	
			40% Value	SG	0	0	
F3	Coom		TOTAL TOTAL	ss	0	0	
F4					LOCAL HOMESTEAD EXEMPT	_	
FS				u	TO A HOME SIEND EXEMPT		
F9				12			
				13			
Total				14			
	ш	STORIC		LS			
	n	STORIC		G			

Code Count Acres 40% Value	L6			
H1	L7			
нз	LB			
INDUSTRIAL	L9			
Code Count Acres 40% Value				
11	TOTAL	16	118,314	0
13	EXEMPT	PROPERTY		
14	Code	Count 4	40% Value	
15	EO			
17	E1	13	57,024	
19	E2	10	115,755	
IA	E3			
IB	E4			
IF.	ES			
	E6			
IP	E7			
Z .	E8			
FOREST LAND CONSERVATION USE	E9			
Code Count Acres 40% Value	_			
13	TOTAL	23	172,779	
14	SUN	MARY		
15	Code	Count	Acres	40% Value
19	Agricultural	27	46	159,588

2022 TAX DIGEST CONSOLIDATED SUMMARY

### County:TURNER County #:142 Tax District:SYCAMORE

**Local Government Services Division** 

**County Digest Section** 

				Dist #: 15 Assessment %: 040 Tot Parcels:319			
		CULTUR		CONSERVATIO			
		Acres	40% Value		Count	Acres	40% Value
A1	6		34,592	V3	_		
A3				V4	4	50.6	42,132
A4		13.51	19,856	V5	2	73.71	63,640
A5		28.55	27,289	V6			
A6	2		1,600	ENVIRONMENTALL			
A7					Count	Acres	40% Value
A9				W3			
AA				W4			
AB				W5			
AF				PROPERTY EXEN			
AI				Code	Count	M&0	Bond
AZ			DEPT.	SA	0	0	
	ROWNFI			SB	0	0	
	Count	Acres	40% Value	SF	2	0	
B1.				SH	0	0	
B3				SJ	0	0	
B4				SP	8	9,639	
B5				SN	14	0	
B6				ST	0	0	
		MERCIA		sv	6	59,906	
		Acres	40% Value	SW SX	0	0	
C1 C3	107	47.70	1,508,246		CUELADTU	naic.	
C4		47.28 35.81		STATE HOMESTEAD I	AEMPTR	UNS	
C5	10	33.81	201,527	53			
				54			
C7 C9				54 55	2	68,003	
CA				56	2	68,003	
СВ				56 57			
CF	35		1,696,632	58			
CI	16		2,891,612	58 59			
CP	2		2,749,377	59 5C			
cz	•		-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	SD SD	0	0	
	PA FAIR I	MARKET	ASSMT	SE	0	0	
			40% Value	SG SG	0	0	
F3	Sount	Acres	-5/4 40100	SS	0	0	
F4				LOCAL HOMESTEAD	-		
FS				LI LI			
F9				12			
				L3			
Total				14			
iotal	м	STORIC		L5			
	140	J. OKIC					

Code	Count	Acres	40% Value	L6			
H1				L7			
H3				L8			
	IND	USTRIAL		L9			
Code	Count	Acres	40% Value	_			
11	19		328,674	TOTAL	32	137,548	0
13	1	2	7,000	EXEM	IPT PROPERTY		
14	2	2.74	10,960	Code	Count	40% Value	
15				EO			
17				E1	30	168,383	
19				E2	22	391,962	
IA				E3			
IB				E4			
IF	1		40,000	ES			
11				E6	2	11,693	
IP				E7			
IZ				E8			
OREST	LAND (	ONSERV	ATION USE	E9			
Code	Count	Acres	40% Value				
13				TOTAL	54	572,038	
34				s	UMMARY		
JS.				Code	Count	Acres	40% Value
19				Agricultural	15	42.06	83,337



Community Wildfire Protection Plan An Action Plan for Wildfire Mitigation and Conservation of Natural Resources

**Turner County, Georgia** 



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I.	Wildland/Urban Interface Disasters
II.	The CWPP Core Committee
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IV.	History of Turner County & Wildfire History
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VI.	What Are " Communities At-Risk"?
VII.	Southern Wildfire Risk Assessment & Risk Hazard Maps
VIII.	Mitigation Plan
IX.	Action Plan
X.	Grant Funding and Mitigation Assistance
XI.	Glossary
XII.	Sources of Information
	nded Documents: or County Southern Wildfire Risk Assessment Summary Report (SWRA)

# Executive Summary

The extreme weather conditions that are conducive to wildfire disasters (usually a combination of extended drought, low humidity and high winds) occur in this area of Georgia every 10-15 years. This is not a regular event, but, the number of homes that have been built in or adjacent to forested or wildland areas, can turn a wildfire under these weather conditions into a major disaster. Wildfires move fast and can quickly overwhelm the resources of even the best equipped fire department. Advance planning can save lives, homes and businesses.

This Community Wildfire Protection Plan includes an evaluation of the wildland fire susceptibility of wildland/urban interface "communities-at-risk", an analysis of fire service resources and training and an Action Plan to address the increasing threat of wildfire. The CWPP does not obligate the county financially in any way, but instead, lays a foundation for improved emergency response if and when grant funding is available to the County.

The plan is provided at no cost to the County and can be very important for County applications for hazard mitigation grants through the National Fire Plan, FEMA mitigation grants, and others. Under the Healthy Forest Restoration Act (HFRA) of 2003, communities (counties) that seek grants from the federal government for hazardous fuels reduction work are required to prepare a Community Wildfire Protection Plan.

# The plan will:

- Enhance public safety
- Improve community sustainability
- Protect ecosystem health
- Raise public awareness of wildfire hazards and wildfire risk
- Educate landowners on how to reduce home ignitability
- Build and improve collaboration at multiple levels

The public does not have to fall victim to this type of disaster. Homes (and communities) can be designed, built and maintained to withstand a wildfire even in the absence of fire engines and firefighters on the scene. It takes planning and commitment at the community level BEFORE the wildfire disaster occurs --- and that is what the Community Wildfire Protection Plan is all about.

#### I. WILDLAND/URBAN INTERFACE FIRE DISASTERS

Fire influenced and defined the landscape we call the United States, well before the arrival of the first Europeans. Scientists, in fact, think that fires started by lightning or Native Americans occurred over most of the Southeast every 3 to 7 years. These were typically low intensity fires (because of their frequency) which kept the forests open and "park-like" in appearance and prevented heavy accumulations of dense underbrush. When communities became well established across the South, wildfires began to impact public safety and had to be controlled. State forestry agencies became established between 1915 and 1928 and the landscape was generally segregated into communities (or human habitations) and natural or wildland areas.

In the mid 1980's, following a new wave of development in what was previously forest or wildland areas, agencies across the country became aware of an increasingly common phenomenon - wildfires were more and more frequently impacting communities. In 1985, a milestone year, over 1400 homes nationwide were lost to wildfire. The catastrophes became known as wildland/urban interface fires and occur when the fuel feeding the fire changes from natural vegetation (trees, shrubs and grasses) and begins to include manmade structures (homes, outbuildings and vehicles). Wildland/urban interface fires can occur anywhere in the United States and can become major disasters when associated with extremes in weather (extended droughts, high winds and low relative humidity)

The public does not have to fall victim to this type of disaster. Homes (and communities) can be designed, built and maintained to withstand a wildfire even in the absence of fire engines and firefighters on the scene. But, it takes planning and commitment at the community level BEFORE a wildfire disaster occurs.

## II. CWPP CORE COMMITTEE

The development of this plan was a collaborative effort for the people of Turner County. The individuals listed below made up the "CWPP Core Committee" and are responsible for much of the plan content.

# **CWPP Core Committee**

Chief Randall Whiddon, Turner County Fire/Rescue

Chief Terry Peavy, Sycamore Volunteer Fire Department

Chief Brian Meadows, Ashburn Fire & Emergency Services

Brad Gregory, Chief Ranger, Georgia Forestry Commission

# Georgia Forestry Commission Representatives

Brad Gregory, Chief Ranger

Jim Harrell, CWPP Program Specialist (Initial plan 2010)

Mark Wiles, Wildfire Mitigation Specialist (Revised plan 2023)

## Meeting Dates

Initial Core Committee Meeting: August 18, 2009

Follow -Up Meeting #l: January 21, 2010

Follow -Up Meeting #2: May 27, 2010

The CWPP Core Committee contributed to the CWPP development by:

Initiation Agreed on the need to develop a Community Wildfire Protection Plan.

Risk Assessment Assesses Wildfire hazard risk and prioritized mitigation actions.

Fuels Reduction Identified need for conducting fuel treatment projects.

Structure Ignitability Identified strategies for reducing the ignitability of structures within

the wildland/urban interface.

Emergency Response Updated and improved strategies for coordinated wildland fire

response.

Education and Outlined a public education initiative to increase citizen awareness of

Outreach residential wildfire protection (Firewise)

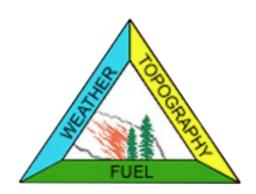
# OTHER STAKEHOLDERS

It is important that a collaborative approach be taken in the development of a successful Community

Wildfire Protection Plan. This means allowing for the involvement of interested parties in the CWPP Core Committee that develops the CWPP and providing the opportunity for other interested stakeholders in the community (county) to review and contribute to the CWPP. Collaboration is a requirement of the Healthy Forests Restoration Act. During development of the Turner County CWPP, opportunities for collaboration were provided by:

Major stakeholders were invited to participate as members of the CWPP Core Committee.

A news release was placed in the local paper (*Wiregrass Farmer*) explaining the objectives of the Turner County CWPP, the planning process and the procedure for obtaining a draft copy for review and/or comment.



#### III. OBJECTIVE OF THE CWPP

The Wildland/Urban Interface is 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 edition).

The objective of this Community Wildfire Protection Plan (CWPP) is to improve public safety and reduce structural losses from wildfire in wildland/urban interface areas of Turner County.

There are three generally accepted types of interface areas:

- "Boundary" wildland/urban interface areas are characterized by development where groups of homes, subdivisions or other structures create a distinct and easily identified border with public or private wildlands, forests or parks.
- "Intermix" wildland/urban interface areas are places where parcels of improved property and/or structures are scattered and interspersed within wildlands, forests or parks.
   Frequently, this is a subdivision that is not yet "built-out" with many undeveloped lots interspersed among occupied homes.
- "Island" wildland/urban interface (also called "occluded interface") are typically very small pockets of wildland or natural areas surrounded by development or even situated within an incorporated area. A park or greenspace within a city is an example of an island interface area.

This CWPP will provide Turner County with an evaluation of the wildland fire susceptibility of wildland/urban interface "communities-at -risk" and can be a valuable guide and action plan to address the increasing threat of wildfire. The plan will:

- Enhance public safety
- Improve community sustainability
- Protect ecosystem health
- Raise public awareness of wildfire hazards and wildfire risk
- Educate landowners on how to reduce home ignitability
- Build and improve collaboration at multiple levels

A Community Wildfire Protection Plan can be very important to County applications for hazard mitigation grants through the National Fire Plan, FEMA mitigation grants, and others. Under the Healthy Forest Restoration Act (HFRA) of 2003, communities (counties) that seek grants from the federal government for hazardous fuels reduction work are required to prepare a Community Wildfire Protection Plan.

The minimum requirements for a Community Wildfire Protection Plan as described in the HFRA are:

- Collaboration: A Community Wildfire Protection Plan must be collaboratively developed by local and state government representatives, in consultation with federal agencies and other interested parties.
- Prioritized Fuel Reduction: A Community Wildfire Protection Plan must identify and prioritize areas for hazardous fuel reduction treatments and recommend the types and methods of treatment that will protect one or more at -risk communities and essential infrastructure.
- Treatment of Structural ignitability: A Community Wildfire Protection Plan must recommend measures that homeowners and communities can take to reduce the ignitability of structures throughout the area addressed by the plan.

This plan should be looked at as a working document/guide for local, state and federal agencies to reach common wildfire protection goals. A CWPP committee should meet on a continuing basis from year to year to review accomplishments, discuss impediments, revise outdated portions of the CWPP and develop new, meaningful wildfire protection goals for Turner County.



Wildland Urban Interface (WUI) is described as the area where structures and other human improvements meet and intermingle with undeveloped wildland or vegetative fuels.

#### IV. HISTORY OF TURNER COUNTY & WILDFIRE HISTORY



Turner County, in central Georgia, is the state's 145th county and comprises 286 square miles. It was created in 1905 from Dooly, Irwin, Wilcox, and Worth counties, and named for Henry Gray Turner, a Confederate veteran, U.S. congressman, and justice on the Supreme Court of Georgia. The original inhabitants were Creek and Seminole Indians, who lost their land in the Seminole Wars. Many of the first

white settlers in the area were of Irish or German heritage. The county seat is Ashburn, incorporated in 1890, when it was part of Worth County. First named Troupville Crossroads and then called Marion, Ashburn acquired its current name when the Georgia Southern and Florida Railroad surveyed the area in 1889. At the time, the railroad's just-finished line from Florida to Macon had generated interest in the area. A local landowner and bank president, W. W. Ashburn, facilitated a large number of real estate transactions, and it was deemed appropriate to name the town in his honor.



The current courthouse, built in 1907, is the county's only courthouse on the historical record. Other towns include Amboy, Rebecca, Sycamore, and Worth. Amboy, unincorporated, was named for the New Jersey City of that name, which in turn comes from an Algonquin word meaning "valley."

Turner County Courthouse

Sycamore, incorporated in 1891, was named for the trees in the area. Rebecca was incorporated in 1904, and Worth was incorporated from 1910 to 1943.



Turner County's economy has always revolved around agriculture, and the most important crops are cotton, peanuts, and pecans. A satellite campus of Moultrie Technical College (later Southern Regional Technical College) is located in the county.

Shingler Home Among the places of interest in the county are the Ashburn Commercial Historic District, which includes the courthouse and county jail; the Ashburn Heights and Shingler Heights historic neighborhoods; the Big Peanut monument, which symbolizes Ashburn's status as

the home of the world's largest peanut-processing plant; and Wesleyan Methodist Campground and Tabernacle. Ashburn also hosts the annual Fire Ant Festival each March.

According to the 2010 U.S. census, the population was 8,930, a decrease from the 2000 population of 9,504.

#### WILDFIRE HISTORY

The Georgia Forestry Commission (GFC) is the state agency responsible for providing leadership, service, and education in the protection and conservation of Georgia's forest resources. Commission professionals provide a wide variety of services including fire detection, issuing burn permits, wildfire suppression and prevention services, emergency and incident command system expertise, rural fire department assistance, forest management assistance to landowners and communities, the marketing and utilization of forest resources and nature services, and growing and selling quality tree seedlings for planting.

Forestry is a \$28.7 billion a year industry in the State of Georgia creating 128,000 jobs statewide. 69,421 acres or 37 .91% of the total land area in Turner County is devoted to growing timber. Forestry is a valuable component of the local economy in Turner County.

#### Personnel

The Georgia Forestry Commission office serving Turner County is located at 2990 GA Highway 112 East, Ashburn, Georgia. Personnel assigned to this office include:

- Al Potts, Chief Ranger
- Bruce Free, Ranger
- Jacob Elliott, Ranger
- Justin Coleman, Ranger

## Wildland Firefighting Equipment

- 2 Tractor/Transports with Crawler Tractors and fire plows
- 1 Pick-Up Truck with 150-gallon water tank

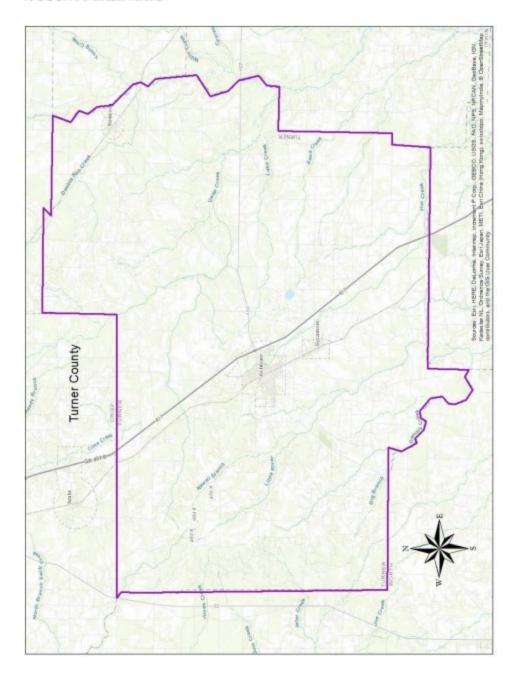
The number of wildfires and acres burned by cause for the last complete Fiscal Year (FY 2022) and the 5-Year Averages are in the table on the following page. Fire data for the previous 10-year period (FY2012 – FY2022) is located below. During these years the leading cause of wildfires was from Debris Burning, which accounted for 50% of these fires and 53% of the acreage burned. The 2<sup>nd</sup> leading cause was from Machine Use causing 29% of the fires and 17% of the acreage burned. During the ten-year period the County averaged 25 wildfires annually and averaged 82.28 acres burned annually.

County:   Turner  Year: 2022   Generate List  Generate List					
Cause	Fires		Acres	Fires 5 Yr Avg	Acres 5 Yr Avg
Debris: Ag Fields, Pastures, Orchards, Etc	3	Г	33.57	2.00	17.25
Debris: Construction Land Clearing	0		0.00	0.20	0.00
Debris: Escaped Prescribed Burn	3		71.38	4.80	29.15
Debris: Household Garbage	2		8.01	1.00	2.59
Debris: Other	1	Г	0.79	1.20	1.46
Debris: Residential, Leafpiles, Yard, Etc	6	Π	38.59	3.60	11.49
Debris: Site Prep - Forestry Related	0	Г	0.00	3.00	5.26
Incendiary	4	Π	4.72	1.20	1.28
Lightning	1	Г	2.94	0.60	3.79
Machine Use	4	Г	66.50	3.40	26.47
Miscellaneous: Other	0	Г	0.00	0.20	0.08
Miscellaneous: Power lines/Electric fences	1		1.80	1.20	1.24
Miscellaneous: Structure/Vehicle Fires	2		0.84	0.60	0.62
Smoking	1		0.02	0.20	0.00
Undetermined	1	Г	1.95	2.00	1.17
Totals for County: Turner Year: 2022	29	Γ	231.11	25.20	101.86

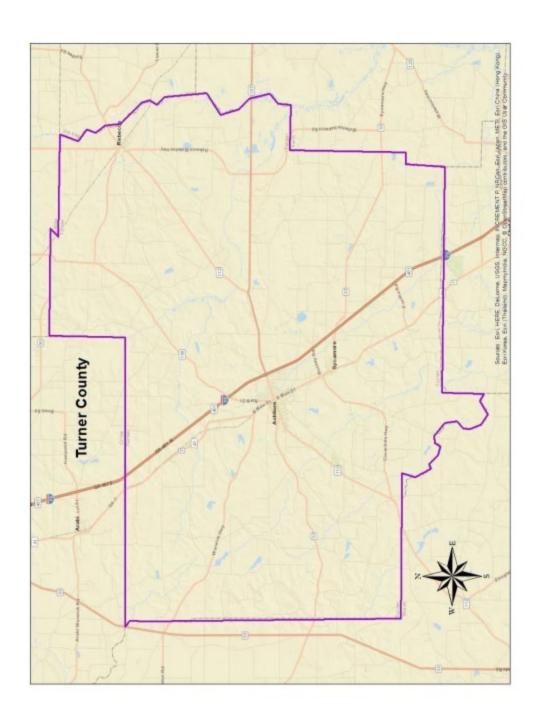
Acreage Burned /Number of Fires For Turner County For FY 2012-2022		
For Turner County		
For FV 2012-2022		

Year	Acreage Burned	Number of Fires
2012	81.36	45
2013	139.81	24
2014	29.91	14
2015	32.04	21
2016	35.37	11
2017	94.25	37
2018	131.27	43
2019	21.66	20
2020	74.26	23
2021	56.96	23
2022	219.19	22
Average	83.28	25

# V. COUNTY BASE MAPS







## VI. WHAT ARE COMMUNITIES AT RISK?

Communities-at-risk are locations where a group of two or more structures in close proximity to a forested or wildland area places homes and residents at some degree of risk from wildfire. Other characteristics of the "community" such as the closeness of structures, building materials, accumulated debris near the structures, access in and out and the distance from the nearest fire station or a permanent water source (pond or dry hydrant) for fire suppression may contribute to the risk.

In Turner County, there are many individual (isolated) homes and outbuildings on farms and small properties that could be damaged or destroyed in the event of a major wildfire. On these properties, the owner(s) must assume be educated so they can assume a greater responsibility for wildfire protection - - - by making improvements to the landscape and structures that will provide some wildfire protection until the fire services can arrive. This can only be accomplished is rural residents know how to make their homes and properties "Firewise".

Improvements to the community infrastructure (roads, utilities, etc.) may be beyond the capabilities of the homeowners. However, widening the entrance right-of way(s), creating "Hammerhead-T's" or other ways for fire trucks to turn around and operate safely and clearly identifying residences with reflective "911 addresses" will improve response time by emergency services and enhance wildfire protection.

Modifications in and around individual residences may need to be budgeted by the residents over time (for example, making a roof more fire resistant may have to wait until it is time to replace the existing roof covering). Moving firewood away from the home, skirting raised decks and keeping roofs free of accumulated flammable debris are improvements that are within most family budgets.

In most instances, communities-at-risk will benefit from (vegetative) fuel reduction within 100 feet of homes and outbuildings through prescribed burning or by mechanical means. Fuel management with the home ignition zone (within 100 feet of the home) either by removing highly flammable vegetation or by replacing the vegetation with fire resistant plant species will significantly improve wildfire safety.

## Communities at Risk

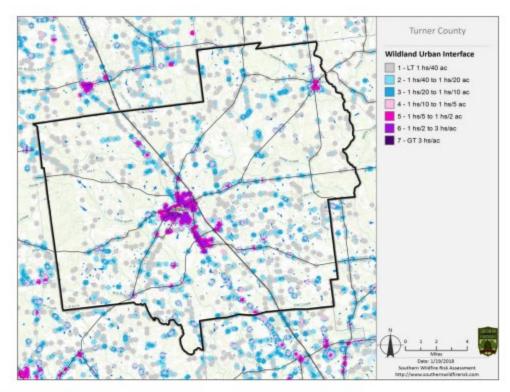
Unincorporated Areas	Score	Hazard Rating
1. Shiver Road	128	Extreme Hazard
Wanee Lake Subdivision	114	Very High Hazard
3. Freeman Rd . & Brady Rd.	102	Very High Hazard
4. Ellerbee Whiddon Rd. & Hobby Rd.	97	High Hazard
<ol><li>Jeanette Ave. &amp; Mason Dixon Line</li></ol>	86	High Hazard
6. Legg Road	84	High Hazard
7.Sugar Hill	64	Moderate Hazard
City of Ashburn		•
8. Byrd & Brown St.	89	High Hazard
9. Old North Main St . N. End Ave.	87	High Hazard
10. Josella Road	87	High Hazard
11. 2nd Street & Taylor	82	High Hazard
12. Goss Drive	77	High Hazard
13. Hodge King Drive	75	High Hazard
14. Pine Knot Road	74	Moderate Hazard
15. Hudson Ave. From Evans St.	71	Moderate Hazard
16. Industrial Dr. (From Whittle Cir .)	70	Moderate Hazard
17. Cedar Drive (from M£Clendon)	69	Moderate Hazard
18. Jefferson & Story Street Area	67	Moderate Hazard
19. North Main (Hill to Interstate 75)	63	Moderate Hazard
20. Gorday Dr. to Cedar	62	Moderate Hazard
21. Sylvia Dr. {from Whittle Cir .)	60	Moderate Hazard
22. Jackson Avenue (from Gordon East)	46	Low Hazard
23. Pine Hill	36	Low Hazard

These hazard ratings were completed by Fire Chief Brian Meadows, Ashburn Fire & Emergency Services and Turner County volunteer firefighters during the months of December, 2009 and January, 2010. The Georgia Forestry Commission's Hazard and Wildfire Risk Assessment Scoresheet was used. This assessment procedure evaluates communities (groups of homes) based upon four criteria: community access, surrounding vegetation, fire protection, utilities and additional rating factors. The quantitative wildfire hazard ratings range from a low wildfire hazard rating of 50 total points to an extreme hazard rating if over 120 points.

#### VII. SOUTHERN WILDFIRE RISK ASSESSMENT & RISK HAZARD MAPS

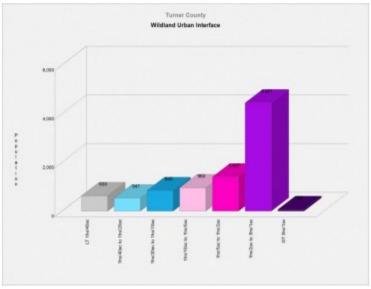
The Southern Wildfire Risk Assessment tool, developed by the Southern Group of State Foresters, was released to the public in July 2014. This tool allows users of the Professional Viewer application of the Southern Wildfire Risk Assessment (SWRA) web Portal (SouthWRAP) to define a specific project area 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 Turner County. The SouthWRAP (SWRA) products included in this report are designed to provide the information needed to support the following key priorities:

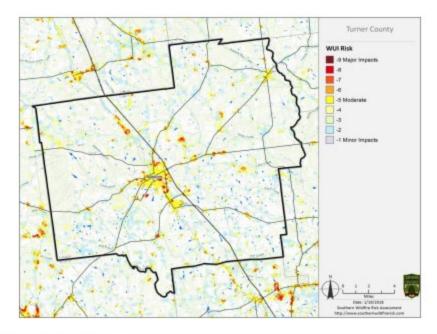
- · Identify areas that are most prone to wildfire.
- Identify areas that may require additional tactical planning, specifically related to mitigation projects and Community Wildfire Protection Planning.
- Provide the information necessary to justify resource, budget and funding requests.
- Allow agencies 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 programs.



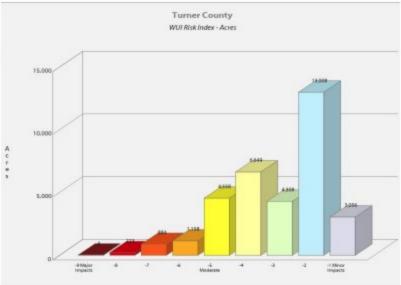
The WUI is described as the area where structures and other human improvements meet and intermingle with undeveloped wildland or vegetative fuels. Population growth within the WUI substantially increases the risk from wildfire.

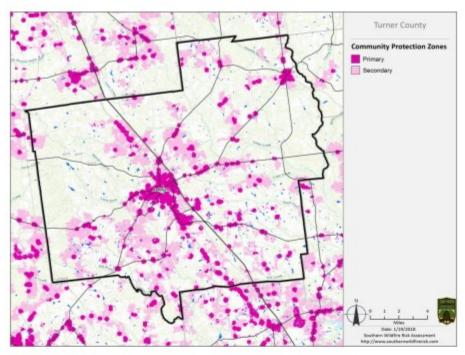
For the Turner County project area, it is estimated that 8,908 people or 97.8 % percent of the total project area population (9,113) live within the WUI.



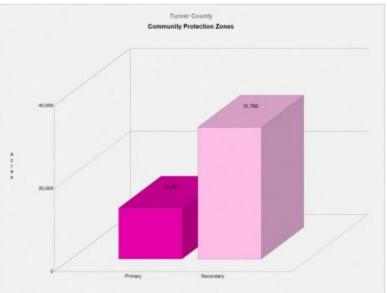


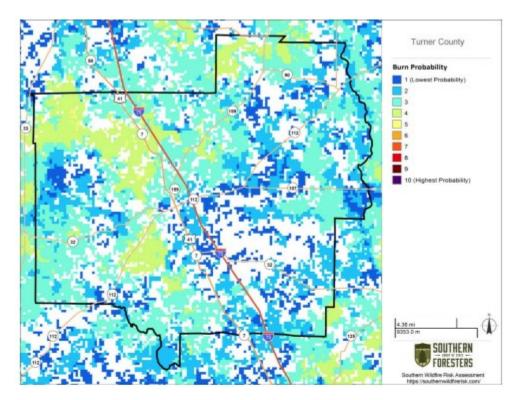
The Wildland Urban Interface (WUI) Risk Index layer is a rating of the potential impact of a wildfire on people and their homes. The key input, WUI, reflects housing density (houses per acre) consistent with Federal Register National standards. The location of people living in the Wildland Urban Interface and rural areas is key information for defining potential wildfire impacts to people and homes.



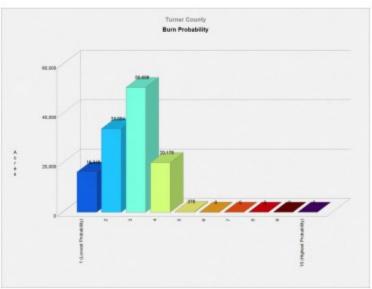


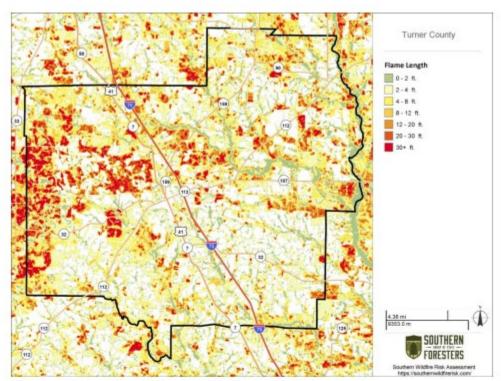
Community Protection Zones (CPZ) represent those areas considered highest priority for mitigation planning activities. CPZs are based on an analysis of the Where People Live housing density data and surrounding fire behavior potential. Rate of Spread data is used to determine the areas of concern around populated areas that are within a 2-hour fire spread distance. This is referred to as the Secondary CPZ.



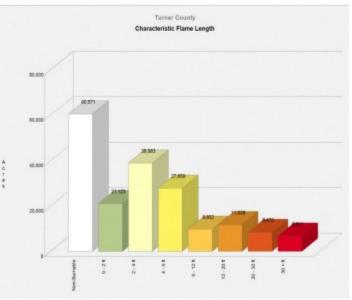


The Burn Probability (BP) layer depicts the probability of an area burning given current landscape conditions, percentile weather, historical ignition patterns and historical fire prevention and suppression efforts.





Characteristic Flame Length is the typical or representative flame length of a potential fire based on a weighted average of four percentile weather categories. Flame Length is defined as the distance between the flame tip and the midpoint of the flame depth at the base of the flame, which is generally the ground surface. It is an indicator of fire intensity and is often used to estimate how much heat the fire is generating. Flame length is typically measured in feet (ft). Flame length is the measure of fire intensity used to generate the response index outputs for the SWRA.



#### VIII. MITIGATION PLAN

## **Protecting Existing Structures**

#### Critical Facilities

Critical facilities are unique structures which require special consideration in the event of an emergency such as a wildland/urban interface fire. Every county will have some critical facilities and some more urbanized counties will have many. Critical facilities include: a nursing home that may need special consideration because the smoke accompanying a wildfire may be hazardous to the health of elderly residents, a law enforcement dispatch center is a critical facility that will need special consideration to insure there is no disruption of emergency communications in the event of a disastrous wildfire. Other examples of critical facilities are ethanol plants, auto salvage yards and facilities that produce chemicals that could be hazardous to the local population if released into the atmosphere.

Owner/operators of critical facilities need to be aware of the hazards that an approaching wildfire could present. There may be immediate action that could be taken by owner/operators to lessen the impact of a wildfire in the immediate area (such as the elimination of encroaching wildland vegetation in and around the critical facility.

## Critical Facilities

- Interstate Highway75 (smoke)
- Sycamore Pre-Release Center
- Personal Care Facilities
- Recreation Department
- Propane Storage Facilities (3)
- Auto Salvage Yards
- FAA Radar Site (Oak Grove Road)

RECOMMENDATION: Contact owner/operators of Critical Facilities in person or by letter to evaluate any wildfire hazard and suggest what owner/operators might do to mitigate any observed hazards and improve wildfire protection.

## Public Education Needs

"Firewise" structures are homes and other buildings in the wildland/urban interface that have been built, designed or maintained to survive a wildfire event even in the absence of firefighters on the scene. Over the past fifty years, many Georgia residents have left the city or the suburbs to build homes in or adjacent to forested areas with a desire to be "close to nature". Unfortunately, this has resulted in neighborhoods or single-family dwellings with one way in and out, with long narrow driveways, no pressurized hydrants or draft source for water and so close to wildland fuel that even the best equipped fire department could not be successful in a severe wildfire event. Most of these homeowners don't understand the risk associated with living in the wildland/urban interface and expect to be rescued by the fire department in the event of a wildfire emergency.

The key to the reduction of structural losses in the wildland/urban interface cannot rest solely with improved response by the local fire services. There will never be enough fire trucks and firefighters to adequately protect homes in the wildland/urban interface. A major part of the solution to this problem lies with the homeowner - homeowners in the wildland/urban interface must become "partners" with the fire services and assume some responsibility for maintaining their home (structure) and landscape yard) so that ignitions in and around the home are less likely should a wildfire occur in the immediate area. This means a home with no debris on the roof and in the gutters, wood decks that are skirted underneath, chunky bark or lava rock mulch near the house instead of pine straw or cypress mulch and a 'lean, clean and green" landscape of less-flammable plants within 30 feet of the structure.

# RECOMMENDATIONS: Initiate a community public education program for Turner County residents

- Host a wildfire prevention/Firewise Workshop each year at a centrally-located facility with
  a meal and refreshments for those who attend. Ashburn would be a good location for the
  workshop as ignitions along Interstate Highway 75 and SR 107 immediately east of that
  community are 3X higher than most other areas of the county. The workshop focus should
  include prevention of machine use fires and escaped prescribed fires.
- Make Firewise Communities brochures available to the public at central locations such as:
   Farm Services Agency, Chamber of Commerce and the County Courthouse.
- Encourage neighborhoods/communities that qualify to apply for recognition as a Firewise Community/ USA.

#### Reduction of Hazardous Fuels

The accumulation of brush and other (mostly ground) vegetation can create conditions over extensive areas that could fuel a disastrous wildfire. Treatment of forested areas with prescribed fire can significantly reduce this hazard while improving pulpwood and sawtimber production and enhancing wildlife habitat. Prescribed burning, however, must be conducted by experienced personnel when weather conditions are conducive to a safe burn and when an authorization has been obtained from the local office of the Georgia Forestry Commission.

The Georgia Forestry Commission closely monitors the authorization of prescribed burns near Interstate Highway 75 to prevent a smoke issue that would create a hazard for motorists on that highway. A large wildfire close to 1-75 could be a serious issue and there are large tracts of timber adjacent to 1-75. Other ways to reduce wildland fuel (vegetation) include:

- Mechanical treatment
- Chemical treatment (herbicides) Livestock grazing

The above alternatives to prescribed burning are more intensive and hence, costlier and generally suitable only for smaller acreages.

The goal for structural protection should be a "Firewise" landscape. A Firewise landscape is characterized by trees, shrubs and grasses that are carefully managed within 100 feet of structures - an area called the Home Ignition Zone (HIZ). Most critical is the space within 30 feet of a structure which is usually referred to as the area of Defensible Space. The Defensible Space should include a landscape of less flammable plants, coarse bark or lava rock as mulch adjacent the structure, tree limbs trimmed away from the structure and any decks skirted so leaves and other debris cannot accumulate underneath. The idea is to create a landscape that will prevent flames or fire brands (aerial borne embers) from igniting the structure.

# RECOMMENDATION: Promote the use of prescribed burning in Turner County for wildland fuel reduction.

- · Help landowners understand how to prescribe burn legally and safely.
- Educate the general public on the benefits of prescribed burning.
- Work with the Georgia State Patrol and local law enforcement to ensure motorists are alerted to smoke hazards on local roadways.

#### NEW DEVELOPMENT IN THE WILDLAND/URBAN INTERFACE

#### Site Plan Review

Growth pressure will undoubtedly increase new home starts in Turner County over the next 20 years. If farm and ranch land is conserved as a mainstay of the County's economy, new development will, by necessity, occur more frequently on forest and wildland areas. The County will have an opportunity to significantly influence the wildland fire safety of new developments. It is important that new development be planned and constructed to provide for public safety in the event of a wildland fire emergency.

Over the past 20 years, much has been learned about how and why homes burn during wildland fire emergencies. Perhaps most importantly, case histories and research have shown that even in the most severe circumstances, wildland fire disasters can be avoided. Homes can be designed, built and maintained to withstand a wildfire even in the absence of fire services on the scene. The national Firewise Communities program is a national awareness initiative to help people understand that they don't have to be victims in a wildfire emergency. The National Fire Protection Association has produced two standards for reference: NFPA 1144 Standard for Reducing Structure Ignition Hazards from Wildland Fire. 2008 Edition and NFPA 1141Standard for Fire Protection Infrastructure for Land Development in Suburban and Rural Areas.

In 2012 the International Code Council developed the International Wildland Urban Interface Code (IWUIC). This code was adopted in 2014 by the Georgia Legislature for counties to use in their development guidelines for building and zoning codes in rural areas. When new multi-unit subdivisions are built in rural areas (sometimes referred to as the Wildland/Urban Interface), a number of public safety challenges may be created for the local fire services: (1) the water supply in the immediate areas may be inadequate for fire suppression; (2) if the Development is in an outlying area, there may be a longer response time for emergency services; (3) in a wildfire emergency, the access road{s} may need to simultaneously support evacuation of residents and the arrival of emergency vehicles; and (4) when wildland fire disasters strike, many structures may be involved simultaneously, quickly exceeding the capability of even the best equipped fire departments.

## RECOMMENDATION:

Strengthen the site plan review process for multi-unit residential development in rural areas subject to wildfires.

- Evaluate the wildfire hazard of proposed new development in rural areas as part of the site plan review process (utilize the GFC assessment scoresheet)
- · Consider the "adoption by reference" of NFPA 1144 Standard for
- Reducing Structure Ignition Hazards from Wildland Fire. 2008 Edition and NFPA 1141Standard for Fire Protection Infrastructure for Land Development in Suburban and Rural Areas.
- Utilize the International Wildland Urban Interface Code (IWUIC) in the development of building codes and zoning ordinances.

#### FIRE SERVICES CAPABILITY

Structural fire protection in the County is provided by Turner County Fire Department. The Department has a Chief, Captain, 2 Lieutenant's, and 4 full time firefighters. Additionally, there are 55 volunteer firefighters, however, numbers may vary from year to year. Ashburn Fire & Emergency Services, the only municipal fire department in Turner County, may respond to a wildfire in support of the County and Georgia Forestry Commission. Ashburn Fire & Emergency Services, has 5 fulltime staff, 2 part -time staff and 26 volunteers.

# Firefighting Equipment

- · Turner County Fire Department:
  - o 9 Fire Knockers
  - o 8 Engines
  - o Tankers
- Ashburn Fire & Emergency Services:
  - engines
- Sycamore Volunteer Fire Department:
  - o engine

# Status of Equipment and Training

- Countywide, a limited number (10 sets) of wildland personal protective equipment exist for use by volunteer firefighters, however, no fire shelters are available.
- Volunteer firefighters have completed the incident Management Training Courses (1-100 & 1-700), however, none (or very few) of the county's firefighters have had the basic wildfire training courses (S- 130, Standards for Survival and S-190, Basic Wildfire Behavior).

#### Fire Hydrants

- Pressurized fire hydrants exist throughout the incorporated area of Ashburn and there are
   49 located in unincorporated Turner County.
- There is one dry hydrant and 43 draft points in the unincorporated areas of county.

Recommendation: Equipping the county's volunteer firefighters with personal protective equipment designed for use on forest and brush fires along with fire shelters should be a priority. The use of structural fire bunker gear on grass and brush fires increases the risk of overheating, exhaustion and heart attack. Another high priority should be providing basic wildland fire training for the firefighters to prepare them to safely function in and around brush and forest fires. Increasing the availability of water in remote areas of the county, either by adding dry hydrants or acquisition of a 2,000 - 3,000-gallon water tanker is crucial to the protection of homes and outbuildings in rural Turner County.

# IX. 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				
Turner County WUI Fire Council	Create this informal team or council comprised of residents, GFC officials, Turner County Fire department officials, a representative from the city and county government and the EMA Director for Turner 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	Defensible Space and Firewise Landscaping Debris Burning Safety Firewise information for homeowners Prescribed burning benefits Fuel reduction practices			
Communications objectives	Create public awareness for fire danger and defensible space issues Identify most significant human cause fire issues Enlist public support to help prevent these causes Encourage people to employ fire prevention and defensible spaces in their communities.			
Target Audiences	Homeowners & Homeowner Associations Forest Landowners and users Civic Groups School Groups Hunting Clubs Forest industry			
Methods	News Releases Radio and TV PSAs Personal Contacts Key messages and prevention tips Visuals such as signs, brochures and posters 6 Social media			

Spring Clean-up Day (National Wildfire Preparedness Day)			
Event Coordinator	Coordinate day's events and schedule, catering for cookout, guest attendance, and moderate activities 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 and post- event through local paper and radio.		
Work Supervisor	Develop volunteer labor force of community residents; develop labor/advisory force from Georgia Forestry Commission, Turner County Fire Departments, 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)
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.		Residents will supply labor and fund required work on their own properties.
<ol> <li>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.</li> </ol>	No Cost	To be adopted by city and county government. International Wildland Urban Interface Code (IWUIC)
Spring Cleanup Day     (National Wildfire Preparedness Day)		Community Business Donations. State Farm grant
5. Fuel Reduction Activities	\$100 /	FEMA & USFS Grants

#### X. GRANT FUNDING & MITIGATION ASSISTANCE

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

- To provide technical and financial assistance to local governments to assist in the implementation of long term, cost effective hazard mitigation accomplishments.
- 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.
- With a completed registered plan (addendum to the State Plan) counties can apply for premitigation 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, as well as forest mastication, 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.

## XI. 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, and other community assets.

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 action 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 (WUI) - 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).

# XII. 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 <a href="https://www.wildfireprograms.com">www.wildfireprograms.com</a>

Information about a variety of interface issues (including wildfire) can be found at the USFS website for Interface South: <a href="www.interfacesouth.org">www.interfacesouth.org</a>

Information on codes and standards for emergency services including wildfire can be found at <a href="https://www.nfpa.org">www.nfpa.org</a>

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:**

Turner County Southern Wildfire Risk Assessment Summary Report (SWRA)

Turner 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 5645 Riggins Mill Rd.

Dry Branch, GA 31020

**1-800-GA-TREES** 

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. Worksheets Used in the Planning Process**

Hazard Frequency Table - Turner County and Cities of Ashburn, Rebecca, and Sycamore

TURNER COUNTY					
HAZARD FREQUENCY TABLE					

								Past 10	Past 20	Past 50
	Number of	Historic	Historic	Year	Year	Year				
	Events in	Years in	Events in	Events in	Events in	Recurrence	Frequency	Record	Record	Record
	Historic	Historic	Past 10	Past 20	Past 50	Interval	% chance/	Frequency	Frequency	Frequency
	Record	Record	Years	Years	Years	(years)	year	Per Year	Per Year	Per Year
Hazard										
Hurricanes/Tropical Storms	5	72	3	5	5	14.40	6.94	0.3	0.25	0.1
Tornadoes	9	72	2	5	9	8.00	12.50	0.2	0.25	0.18
Floods	4	72	4	4	4	18.00	5.56	0.4	0.2	0.08
Lightning/Thunderstorms/Wind/Hail	123	72	58	88	102	0.59	170.83	5.8	4.4	2.04
Wildifres	2992	72	283	1401	2992	0.02	4155.56	28.3	70.05	59.84
Extreme Heat	57	72	42	57	57	1.26	79.17	4.2	2.85	1.14
Drought	88	72	68	75	88	0.82	122.22	6.8	3.75	1.76
Hazardous Materials Release	10	50	1	2	10	5.00	20.00	0.1	0.1	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 accuracy 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.

#### **Appendix D. Worksheets Used in the Planning Process**

GEMA Worksheet #1

# GEMA Worksheet #1 Identify the Hazard Step 1

Date: June 7, 2023 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.
- Next to the hazard list below, put a check mark 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.
- Determine whether you are in a high-risk area. Get more localized information if necessary.
- Next to the hazard list below, put a check mark in the Task B boxes beside all hazards that post a significant threat.

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

Avalanche						
Costal Erosion			Hazard or Event Description	Source of	Map	Scale of
Costal Storm			(Type of hazard, date of event,	Information	Available	Map
Dam Failure			number of injuries, cost and		for this	
Drought	X	X	types of damage, etc.)		Hazard?	
Earthquake			(SEE PLAN)			
Expansive Soils			1			
Extreme Heat	X	X				
Flood	X	X				
Hailstorm			(CEE DI AND			
Hurricane	X	X	(SEE PLAN)			
Land Slide						
Severe Winter Storm						
Tornado	$\bar{\mathbf{x}}$	X				
Tsunami						
Volcano			(SEE PLAN)			
Wildfire	$\bar{\mathbf{x}}$	X				
Windstorm						
Hazard Material						
Radiological			(SEE PLAN)			
Other Lightning	X	X	(SEE PEAN)			
Other						
Other						
Note: Bolded hazards	are ada	lressed				
in this How-to Guide.						

#### Appendix D. Worksheets Used in the Planning Process

#### GEMA Worksheet #2

#### GEMA Worksheet #2 Profile Hazard Events Step 2

County: Turner Date: June 7, 2023

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.

4			
	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 Survey.
- 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. Transfer the boundaries of your coastal storm 1. Get a copy of your FIRM. hazard areas onto your base map. 2. Verify that the FIRM is up-to-date and complete. 2. Transfer the BFEs onto your base map. 3. Record the erosion rates on your base map: 3. Determine the annual rate of coastal erosion. 4. Record the design wind speed here and on your 4. Find your design wind speed. base map: Dom Failure Drought Record your PGA: \_\_\_\_ If you have more than one PGA print, download Earthquake Go to the <a href="http://geohazards.cr.usgs.gov">http://geohazards.cr.usgs.gov</a> Website. or order your PGA map. Locate your planning area on the map. 3. Determine your PGA. Expansive Soils Extreme Heat Flood Transfer the boundaries from your firm onto your Get a copy of your FIRM. base map (floodway, 100-yr flood, 500-yr flood). 2. Verify the FIRM is up-to-date and complete. Transfer the BFEs onto your base map. Hailstorm Hurricane Land Subsidence Landslide 1. Mark the areas susceptible to landslides onto your 1. Map location of previous landslides. base map. 2. Map the topography. 3. Map the geology. 4. Identify thee high-hazard areas on your map. Severe Winter Storm Tomado Record your design wind speed: \_\_ 1. Find 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. Draw the boundaries of your wildfire hazard areas 1. Map the fuel models located within the urbanonto your base map. wildland interface areas. 2. Map the topography. \_\_\_ 3. Determine your critical fire weather frequency. Determine your fire hazard severity. Other 1. Record hazard event info on your base map.

Map the hazard.

## **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.

#### **HURRICANE/TROPICAL STORMS**

STAPLEE	S			Т			Α			Р			L			E					Е		
Criteria	(Soc	ial)	(Te I)	chn	ica	Adr	ninist	rativ	(P	oliti	ical	(L	.ega	l)	(E	con	omi	c)	(	Env	ironr	nenta	l)
Consideration s → for  Alternative Actions  ↓	Community Acceptand	Effect on Segment of Population	Technical Feasibil	Long-term Solutid	Secondary Impac	Staffing	Funding Allocate	Maintenance / Operation	Political Suppo	Local Champio	Public Suppo	State Authorit	Existing Local Author	Potential Legal Challeng	Benefit of Actio	Cost of Actio	Contributes to Economic Go	Outside Funding Requir	Effect on Land / Wate	Effect on Endangered Speci	Effect on HAZMAT / Waste Site	Consistent with Communi Environmental Goals	Consistent With Federal Lav
Goal 1.1:	En						mm		•			•		to		sue		ear	•		arni	ings	of
Hurricanes/	_										_			_		_	oid	ma	nn	er			
Objective 1.1	l.1: l	Ens	ure	e th	at :	staf	f are	edı	ıca	ted	to	use	e C	od€	R	ed.							
Action Step 1: Continue to train staff on the use of Code Red		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

ıd e	effe	ecti	vel	y	and																	
+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	+ + +	+ + + + + + + + + + + + + + + + + + +	+ + + + + + + + + + + + + + + + + + +	+ + + +   +   +   +   +   +   +   +	d effectively a   al Storm event	d effectively and al Storm event.  +	d effectively and effi   al Storm event.		d effectively and efficiently al Storm event.	d effectively and efficiently to al Storm event.	d effectively and efficiently to eal Storm event.		deffectively and efficiently to emergial Storm event.		deffectively and efficiently to emergency all Storm event.	deffectively and efficiently to emergency negative all Storm event.	deffectively and efficiently to emergency needs	deffectively and efficiently to emergency needs dual Storm event.	defectively and efficiently to emergency needs durial Storm event.	defectively and efficiently to emergency needs during all Storm event.	de effectively and efficiently to emergency needs during and all Storm event.  + + + + + + + + + + + + + + + + + + +	

from Hurricanes/Tropica Objective 1.2.1: Protect					on t	٠,	];4	<u>``</u>	hos	141		an	d ,	nr	ma	nt.	K7 4	fra	m	<b>≠</b> h	Δ .	forc	0 04
Hurricanes/Tropical Sto			16	SIU	ent	.5	111	e,	пеа	แน	,	am	u j	þι	phe	יו ול	y 1	H O	111	UII		OIC	e oi
murricanes/ Propicar Stor	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Action Step 6: Educate homeowners and builders on individual safe rooms	ı L																						
Action Step 7: Distribute programs on personal emergency preparedness, i.e., emergency survival kits.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Action Step 8: Encourage businesses to develop emergency plans.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Action Step 9: Increase public awareness of the Early Warning Communication/Notification System, NOAA weather radios, and available community-safe shelters by publishing articles in the local newspaper, holding town hall meetings, and providing bulletins to local churches and schools.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Action Step 10:		-	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	- +		+	+	+

				1	1	1		1	1								1	1				1	
County community)																							
and community																							
water systems,																							
including 2 for the																							
wells in Sycamore																							
(serving the total																							
population).																							
Action Step 11:	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Trim tree lines																							
around roads,																							
homes, utilities, and																							
businesses.																							
Action Step 12:	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Initiate an		ľ	ľ	ľ	ľ	ľ	ľ		ľ	ľ		ľ	ľ	ľ	-	-	-	ľ		ľ		-	
inspection program																							
at Critical Facilities																							
to identify																							
construction																							
weaknesses subject																							
to high wind																							
damage and seek																							
funding to retrofit																							
public buildings to																							
reinforce windows,																							
roofs, doors, etc.																							
	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		<u> </u>
1 -		_	_	_	+	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	+	+
Obtain 2 generators																							
for sewage pump																							
stations and 1																							
generator for City																							
Hall in Sycamore to																							
serve all residents.																							

# Section II. Tornadoes

STAPLEE	5	3		Т			Α			Р			L			E					Ε		
Criteria	(So )	cial	(Te )	chn	ical	Adn	ninis	trativ	(P	oliti	cal	(L	.ega	ıl)	(E	con	omi	c)	(	Env	ironr	nental	)
Consideration s → for Alternative Actions	Community Acceptand	Effect on Segment of Population	Technical Feasibil	Long-term Solutid	Secondary Impac	Staffing	Funding Allocate	Maintenance / Operatio	Political Suppo	Local Champio	Public Suppo	State Authorit	Existing Local Author	Potential Legal Challeng	Benefit of Actio	Cost of Actio	Contributes to Economic Go	Outside Funding Requir	Effect on Land / Wate	Effect on Endangered Speci	Effect on HAZMAT / Waste Site	Consistent with Communi Environmental Goals	Consistent With Federal La
Goal 2.1: En							•			y to	o is	suc	e ea	arly	W	arr	iing	gs	of t	orn	ado	es in	an
effective, dep	eno	dab	le,	and	l ra	ıpid	ma	nner	•														
Objective 2.1	.1:	En	sur	e tł	ıat	staf	ff ar	e ed	uca	ted	l to	us	e C	ode	e R	ed.							
Action Step 1: Continue to train staff on the use of Code Red.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Objective 2.	1.2:	Eı	ı 1ha	nce	e tl	ne a	bili	tv o	f tl	ie '	Tu	rne	r (	Cou	ıntv	y E	me	rge	enc	v N	/Ian:	agem	ent
Agency to re																							
tornado even	-					-				•				_	•								
Action Step 2: Maintain "StormReady" status.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Action Step 3:+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Implement the																						
"Community																						
Emergency																						
Response																						
Team"																						
(CERT)																						
Program																						

			1		_			1				1	1	1	1		1				1		ı
Action Step 4:	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Expand radio																							
capabilities to be																							
compatible with the																							
narrow band for																							
Turner County Fire																							
Dept., EMA/EMS,																							
Board of Education	,																						
Turner County																							
Sheriff's																							
Department, the																							
City of Ashburn,																							
the City of																							
Rebecca, and the																							
City of Sycamore.																							
Action Step 5:	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Update the study to																							
install repeaters																							
and radio towers,																							
as needed,																							
including between																							
Rebecca and the																							
86-mile marker,																							
Board of																							
Education,																							
Sycamore Police																							
Department, and																							
Department, and																							

Goal 2.2: Reduce the risks and vulnerability of citizens and critical facilities to damage resulting from tornadoes.

Objective 2.2.1: Protect the residents' life, health, and property from the force of

tornadoes.

Action Step 6: Educate homeowners and builders on individual safe rooms	+	+	+	+	+	H	-	+	+	+	+	-	+	+	+	+	+	+	+	-	+	+	+	+	+	•	+	
Action Step 7: Distribute programs on personal emergency preparedness, i.e., emergency survival kits.		+	+	+	+	4	÷ -	+	+	+	+	-	+	+	+	+	+	+	+		+	+	+	+	+		+	
			+	-	+	+	+	+	+	+	+	+	-  -	+	+	+	+	+	+	+	+	+	+	+	+	+	-	+
Action Step 8: Enco businesses to develo emergency plans.		ige																										
Action Step 9: Increpublic awareness of Early Warning Communication/No System, NOAA weradios, and availabl community-safe she publishing articles i local newspaper, ho town hall meetings, providing bulletins churches and school	tificathe e elten n the oldinance to le	eations or by ne ng	7	- •	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	-	+
Action Step 10: Instauxiliary portable at generators (including transfer switches) at start systems for all designated evacuation emergency shelters critical facilities (see entire Turner Count community) and convater systems included for the wells in Syconomy (serving total popular).	nd fing nd son and and rving y mm dingame	soft and l ng th unit g 2 ore	ne		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+		+

Action Step 11: Trin lines around roads, h utilities, and busines	on	ies,	+	- +	+	+	+	+	+	+	+	+	+	- +	+	+	+	+	+	+	+ -	+ +	<b>+</b>	+	+
	+	+	+	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	-	F	+
Initiate an																									
inspection program																									
at Critical Facilities																									
to identify																									
construction																									
weaknesses subject to high wind																									
damage and seek																									
funding to retrofit																									
public buildings to																									
reinforce windows,																									
roofs, doors, etc.																									
	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	-	F	+
Obtain 2 generators																									
for sewage pump																									
stations and 1																									
generator for City																									
Hall in Sycamore to																									
serve all residents.																									

# Section III. Floods

Cusiderations    Consideration   Contributes to Economic   Contributes to Effect on Landing Action   Contributes to Economic   Contributes to Effect on Land / Waste Site   Contributes to Economic   Contributes to Economic   Contributes to Economic   Contributes to Effect on Land / Waste Site   Contributes to Effect on Endangered Specification   Contributes to Effect on Endangered Specification   Contributes to Effect on Land / Waste Site   Contributes to Effect on Endangered Specification   Contributes	STAPLEE	S		/T-	T		A also	A		<b>/D</b>	P	!\	/1	L	1\	/=	E		-\	<b>(</b> -		E	
Community Acceptand ston Segment of Popular Technical Feasil Long-term Solu Secondary Imp Secondary	Criteria	(500	ciai)	(Te	CHIII	icai	Adii	IIIIIS	ıratıv	(P	OIILI	cai)	(L	.ega	11)	(=	CON	OIIII	C)	(=	iviro	mine	ntai)
	→ for Alternative	Acceptand	on Segment of	ical F	-term		Staffing	_	do / eo					ng Local	Legal (	Benefit of Actio	ō	\$	Funding	on Land /	on Endangered	HAZMAT / Waste	with

Goal 3.1: Minimize flood damage in Turner County and the Cities of Ashburn, Rebecca, and Sycamore.

Objective 3.1.1: Minimize losses to existing and future structures, especially community critical facilities, due to flooding caused by excessive rainfall.

Action Step 1:	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Identify areas																							
within Turner																							
County that																							
experience																							
repetitive localized																							
flooding and																							
evaluate potential																							
increases in																							
minimum building																							
floor elevations.																							
Action Step 2:	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Continue																							
compliance with																							
NFIP through																							
review, adoption,																							
and updates to																							
flood protection																							
ordinances and																							
maps, and work																							
towards a database																							
to record the depth																							
of flood to																							
determine the																							

extent and possible																							
damage.																							
	1						l	l				!				- 1							
Action Step 3:	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Review data on																							
storm events to																							
determine where																							
repetitive Flooding																							
occurs due to																							
inadequate drainage																							
infrastructure and																							
identify & pursue																							
grant funds to																							
upgrade deficient																							
drainage systems.																							
Action Step 4:	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Monitor																							
comprehensive land																							
use plans to ensure																							
the mapping of																							
lands to be																							
permanently																							
protected.																							
Action Step 5:	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Monitor existing																							
subdivision																							
regulations to																							
promote the																							
conservation of																							
floodplains,																							
wetlands, and																							
groundwater																							
recharge areas.	<u> </u>	<del> </del>	ļ	١.	<del> </del>	<u> </u>	<u> </u>	ļ		ļ	l		ļ. —					١.	+-	ļ	<u> </u>	ļ	<u>.                                    </u>
Action Step 6: Seek	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
funding from																							
private foundations,																							
individuals, federal	ı																						
and state grants, and local communities	L																						
to leverage																							
$\mathbf{c}$																							
available green space grant funds.																							
space grain runus.		<u> </u>		1				1		<u> </u>	<u> </u>		<u> </u>					<u> </u>		1	1	1	

Action Step 7:	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Educate public and																							
private																							
organizations on																							
methods for																							
preserving parks																							
and recreation																							
areas.																							

# Section IV. Lightning/Thunderstorms/Wind/Hail

STAPLEE	S			Т			Α				Р			L			E					Ε		
Criteria	(Soci	al)	(Te )	chni	ical	Adr	nini	strati	iv	(Pc	litic	al)	(L	.ega	I)	(E	con	omi	c)	(Er	nvir	onm	ent	tal)
Consideration s → for  Alternative Actions  ↓	Community Acceptand	Effect on Segment of Population	Technical Feasibil	Long-term Solutid	Secondary Impac	Staffing	Funding Allocate	Maintenance / Operatio		Political Suppo	Local Champio	Public Suppo	State Authorit	Existing Local Author	Potential Legal Challeng	Benefit of Actio	Cost of Actio	Contributes to Economic Go	Outside Funding Requir	Effect on Land / Wate	Effect on Endangered Speci	Effect on HAZMAT / Waste Site		Consistent with Communi Environmental Goals
Goal 4.1: Pr							Tı	urne	er (	Co	un	y	fro	m 1	the	th	rea	t o	f liş	ght	nin	g s	tri	kes,
thunderstorn																								
Objective 4.1	.1: P	rov	∕ide	e too	ols	nec	ess	ary i	for	W	arn	ing	g of	f Li	ght	nin	g s	tril	kes.	•				
Action Step 1: Provide every poutdoor recreat facility and ever public school outdoor recreat facility with an automatic warr device, if feasil	cion ery cion ning		+	+	+			+ +		+	+				+	+	+	+	+	+	+	+	+	+
Action Step 2: Educate the pul on the risks of lightning, thunderstorms, and hail.		+	+	+	+	+	+	+  +	_	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

# Section V. Wildfires

STAPLEE Criteria	(So		(Te	T chni	ical	Adm	A inist	rativ	(P	P oliti	cal)	(L	L .ega	ıl)	(E	con	E omi	c)	(Eı	nviro	E onme	ntal)
Considerations  → for  Alternative Actions  ↓	Community Acceptand	Effect on Segment of Populati	Technical Feasibil	Long-term Solutid	Secondary Impac	Staffing	Funding Allocate	Maintenance / Operation	Political Suppo	Local Champio	Public Suppo	State Authorit	Existing Local Author	Potential Legal Challeng	Benefit of Actio	Cost of Actio	Contributes to Economic Go	Outside Funding Requir	Effect on Land / Wate	Effect on Endangered Speci	Effect on HAZMAT / Waste Site	Consistent with Communi Environmental Goals

Goal 5.1: Prevent damage resulting from wildfires, reduce the threat of wildfires, and protect the life and property of residents from wildfires in Turner County and the Cities of Ashburn, Rebecca, and Sycamore.

Objective 5.1.1: Minimize the threat of wildfires to persons and properties in the community.

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

government units.																											
units.																											
Action Step 3: + Train all firefighters to FF1 & FF2 standards and ensure that emergency vehicle drivers are adequately trained. +	+		+	+	+		+	+		+	-	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+
Action Step 4: Ensure all firefighters have the latest NFPA- compliant PPE turnout gear sets and SCBAs.	+	+	+	+		F	+	+	+	+	F	+	+	+	+	-	+	+	+	+	+	+	+	+		+	+
Action Step 5: Purchase 2 class A pumpers.	+	+	+	+		+	+	+	+	1	F	+	+	+	+	-	+	+	+	+	+	+	+	+		+	+
Action Step 6: Contact owners/operators of Critical Facilities in person or by letter to evaluate any Wildfire hazard and suggest what owners/operators might do to mitigate any observed hazards and improve Wildfire protection.		+	+	+		+	+	+	+	Ŧ	F	+	+	+	+		+	+	+	+	+	+	+	+	-	+	+
Action Step 7 (formerly 10): Promote the use of prescribed burning for wildland fuel reduction, including helping landowners understand how to	+	+	+	+		+	+	+	+		t	+	+	+	+	-	+	+	+	+	+	+	+	+	-	+	+

	_	1	1		1		_		1		1 1												
burn legally and																							
safely and educating																							
the public on the																							
benefits of																							
prescribed burning.																							
Action Step 8	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
(formerly 11): Work																							
with the Georgia																							
State Patrol and																							
local law																							
enforcement to																							
ensure that motorists																							
are alerted to smoke	ľ																						
hazards on local																							
roadways.	+	+	+	+	+	+	+	ļ	+	+	H.		١.	+			  -		+	+	+	  .	ī.
	+	_	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
(formerly 12):																							
Evaluate the																							
Wildfire hazard of																							
proposed new																							
developments in																							
rural areas as part of																							
the site plan review																							
process using GFC																							
Hazard & Wildfire																							
Risk Assessment																							
Scoresheet.																							
Action Step 10	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
(formerly 13):																							
Consider the																							
"adoption by																							
reference" of NFPA																							
1144 Standard for																							
Reducing Structure																							
Ignition Hazards																							
from Wildland Fire																							
2008 Edition and																							
NFPA 1141																							
Standard for Fire																							
Protection																							
Infrastructure for																							
Land Development																							
in Suburban and																							
Rural Areas.																							
ixuiai Aicas.		<u> </u>		<u> </u>	1	<u> </u>	1	1	<u> </u>	1	<u> </u>	<u> </u>	1	1	<u> </u>	<u> </u>							

			1			1	1	1			1		1		1				1	1		1	
retion step 11	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
(formerly 14):																							
Assist in providing																							
fuel reduction																							
mitigation for the																							
twelve high to																							
extreme hazard																							
Communities-At-																							
Risk and implement																							
a community fuel																							
reduction initiative.																							
Action Step 12	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
(formerly 15):																							
Purchase tankers to																							
replace hydrant																							
needs.																							
Action Step 13	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
(formerly 17):																							
Continue Turner																							
County Joint CWPP																							
Core Committee																							
and annually assess																							
(if possible) the																							
effectiveness of the																							
CWPP.																							
progress and effectiveness of the																							

# Section VI. Extreme Heat

STAPLEE	9	3		Т			Α			Р			L			E					E		
Criteria	(So )	cial	(Te )	chn	ical	Adm	inis	trativ	(Pol	litica	al)	(L	.ega	l)	(E	con	omi	c)	(E	nvi	ror	ıme	ntal)
Consideration s → for  Alternative Actions  ↓	Community Acceptand	Effect on Segment of Population	Technical Feasibil	Long-term Solutid	Secondary Impac	Staffing	Funding Allocate	Maintenance / Operatio	Political Suppo	Local Champio	Public Suppo	State Authorit	Existing Local Author	Potential Legal Challeng	Benefit of Actio	Cost of Actio	Contributes to Economic Go	Outside Funding Requir	Effect on Land / Wate	Effect on Endangered Speci	500	Effect on HAZMAT / Waste Site	Consistent with Communi Environmental Goals
Goal 6.1: Ens	ur	e th	e ci	tize	ens	of 7	urı	ier C	Coun	tv a	ıre	wa	rne	d o	f e	xtre	eme	h	eat	co	nd	itio	ons.
Objective 6.1										_													
Action Step 1: Designate emergency shelters in consultation wi appropriate organizations (Senior Citizen Centers, hospitals, churches, healtl departments, etc.)		+ 4	- +	4		+ -	+	+ +		+	+	+	+	+	+	+	+	+	+	+	+	+	+ +

# Section VII. Drought

STAPLEE	S	Т	Α	Р	L	E	E
Criteria	(Social	(Technical	Administrativ	(Political)	(Legal)	(Economic)	(Environmental)

Consideration s → for  Alternative Actions ↓	Community Acceptand	Effect on Segment of Population	Technical Feasibil	Long-term Solutid	Secondary Impact	Staffing	Funding Allocate	Maintenance / Operation	Political Suppo	Local Champio	Public Suppo	State Authorit	Existing Local Author	Potential Legal Challeng	Benefit of Actio	Cost of Actio	Contributes to Economic Go	Outside Funding Requir	Effect on Land / Wate	Effect on Endangered Speci	Effect on HAZMAT / Waste Site		Consistent with Communi Environmental Goals
Goal 7.1: Pro	tec	t Tı	urn	er (	Coı	ınty	fro	m tl	he eff	ect	s of	f dr	ouş	ght	col	ndi	tior	ıs.					
Objective 7.1	.1:	Er	isui	re a	ade	qua	te d	lrinl	king	wa	ter	su	ppl	y i	s a	vai	lab	le (	dur	ing	g di	rou	ght
conditions.																							
Action Step 1:	7	+ +	+	·		+ -	+	+	+	+	+	+	+	+	+	+	+	+	+ -	+ -	+ +	+	+
Develop a																							
comprehensive																							
study that will																							
allow communi	ity																						
leaders to																							
understand whe	en																						
public and																							
domestic																							
underground																							
water systems'																							
water levels are	•																						
threatened.																							

# Section VIII. Public Health Emergency

STAPLEE	S	Т	Α	Р	L	E	E
Criteria	(Social)	(Technical	Administrative	(Political)	(Legal)	(Economic)	(Environmental)

Consideration s → for  Alternative Actions ↓	Community Acceptand	the Effect on Segment of Population	Technical Feasibil	doo Long-term Solutid	Secondary Impac	Staffing	Funding Alocate	Maintenance / Operation	Political S	Cocal Champid	Public Suppol	State Authorit	Existing Local Author	Potential Legal Challeng	Benefit of Actio		cts	Outside Funding Requir	Effecto	Effect on HAZMAT / Waste Site	Consistent with Communi Environmental Goals
emergency.	1															1					
1: Increase Immunizatio n education, prevention, and pre- planning efforts in the community, and host flu shot and other immunizatio n clinics.	+						+	+	+					+		+	+				
Action Step 2: Identify vulnerable populations (homeless, migrants, low-income, deaf, blind, etc.) and identify community groups to work with to reach and educate these populations effectively regarding health issues.	+						+	+	+					+	+	+	+				

	1	1	 					1		ı —	1		1 1	1	1	1		
Action Step 3:	+			+	+	-	+			+	+	+	+					
Develop a plan to																		
identify																		
community																		
locations to																		
distribute medical																		
countermeasures																		
and other public																		
health resources.																		
Action Step 4:	+			+	+	-	+			+	+	+	+					
Involve local																		
businesses in																		
developing public																		
health emergency																		
plans.																		
Action Step 5:	+			+	+	-	+			+	+	+	+					
Explore creating a																		
volunteer database																		
that would be																		
available to assist																		
in a public health																		
emergency.																		
Action Step 6:	+			+	+	-	+			+	+	+	+					
Provide education																		
to businesses and																		
local governments																		
on the																		
development of																		
continuity of																		
operation plans.																		

#### Appendix E. Copies of Required Planning Documentation

#### I. Public Notices

#### Kick-Off

#### Turner County and the Cities of Ashburn, Rebecca, and Sycamore, and all Unincorporated Areas

Kick-Off Public Hearing for the 2023 Hazard Mitigation Plan Update Wednesday, January 18, 2023

2 PM

Turner County Emergency Management Agency (EMA) Office 625 East Washington Ave. Ashburn, Georgia

The Turner 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 Turner 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 Turner County EMA will host a Public Hearing/Open House on January 18, 2023, at 2:00 PM at the EMA Office located at 625 East Washington Ave, Ashburn, Georgia 31714.

Comments are being accepted by email at <a href="mailto:lhylton@sgrc.us">hylton@sgrc.us</a>, 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 at (229)333-5277.

494 E. Washington ot. Ashburn

#### PUBLIC HEARING NOTICE

Turner County and the Cities of Ashburn, Rebecca, and Sycamore, and all Unincorporated Areas Kick-Off Public Hearing for the 2023 Hazard Mitigation Plan Update Wednesday, January 18, 2023 2 PM

Turner County Emergency Management Agency (EMA) Office 625 East Washington Ave. Ashburn, Georgia

The Turner 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 Turner 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 ap-proved Hazard Mitigation Plan addressing natural hazards as a condition of receiving future federal disaster assis-

The SRGC staff and Turner County EMA will host a Pub lic Hearing/Open House on January 18, 2023, at 2:00 PM at the EMA Office located at 625 East Washington Ave,

# **Appendix E. Copies of Required Planning Documentation**

II. Sign-in Sheets

		es of Ashburn	mission n, Rebecca, and	
		more		
20	24 Hazard Mitig		pdate	
		Meeting		
	Wednesday, Ja			
Name	Organization	<u>Title</u>	Email	
Move Robbson	Twee GMA	EMadertor	turner fire resour	
Richard Punis	Ashburn PD	Chief of Police	(puris @ cityofashburn polit	e. com
Charles Tordan	Ashburn Fire	Fire fighter Dep. Director Em	Charlesiordom a city of ashbur	.nct
Herri Calhoun	Tulner EMS	Paramedi C	Mcalnorn7379eyahes.	Com
Bruse Brass	Torner Fire	Fire Chief Lieutenant	brucebwass 314@gmail-1	on
Bruse Bragess 131Ad CALLOUR	TC Boardfrom.	ChRITMAN	bradcalhour + casa	4, L. am
Robby Royal	Tuner 6.EMS	EMS Director	tune consecuindal	cam.net
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# Southern Georgia Regional Commission Turner County and the Cities of Ashburn, Rebecca, and Sycamore

# 2024 Hazard Mitigation Plan Update 1st Workshop

Wednesday, February 15, 2023

Name	Organization	Title	Email
		Assistant	
MANK PATE	Turrer Courty Fire	Chief	pate 29264 eychw. com
Al K. Potts		Chief Roger	apotts@gac. state.go.us
Mark Dotron	Turner EAA	EMB Wheder	Learlie resuc Permit
Lauren Robinson	Gutakeath Dist	of Dixdor	Lauren, poinson@
Brad Gregory			bgregory @ gkc. state. ga. us
	Ashburn Housing		ragerjonesaha@amil.com
Charles Joidan	Ashbern Fire	Firefiglior	Charles vorden 1002 agnist.com
Jerome Troutman		Assistat chief	r+routman@city.pade. *
Dustin Beaty	Turner Co Public World	Director Director	kealhour 7379 e yaras.
Kerri Calhoun	Triner Co. EMS	Admin Paramo	lic kealhour 1814 egu corr
Mary J. Wynn		)	city of reboxe & windstream. net
Tony Yerbroyl	Pruit Health	MaintenaseDi	. transviough privithenth com
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	. v		

# Southern Georgia Regional Commission Turner County and the Cities of Ashburn, Rebecca, and Sycamore

2024 Hazard Mitigation Plan Update 2<sup>nd</sup> Workshop Wednesday, March 15, 2023

Man Robinson Turave Conferment MA Grand Francis Com  Sources Turner Conferment MA Grand Com  Sources Turner Conferment Chief Sturmencocity Studdent Com  Fred Gregory GA. Forestry AFMO barregory & affective as the gar  Every Pear y Turner Co. Fire Lt top 4) 800@ gmail Co.  Charle Puns Ashbum PD Chief sources Society of as thomps  Turan Robinson South Real Robinson Breiter Courses October as thomps  Fraig Mathaes TOBOE Sept. Oxigant House of the construction of th		wednesday, i	warch 15, 202	3
Somes Turner Addown Find Emyong Sinin Chief Sturner Octy Stathment and bregary & AFMO barregary & after gar Every Feary Turner Co. Fire Lt two 41800@ gmail Co. Chief Funis Ashbum PD Chief Fouris Octy of ashbum PD uran Polarison South Health and Breath and Lauren rosinism & Lauren Polarison South Health Dep Dir kealthour TOEMA Dep Dir kealthour 7379eya Sony Yarbrough Pruit Health Mindowince Direct Tyarbrough Quin Show Willey Chamber Director Hemer Creentey Chamber	Name	The second secon		Email
Early Early Turner Co. Fire Lt two 41800@ gmail Co. Charle Punis Ashbum PD Chief sources Daily of ashbum po uran Polarison South Health alle ashbum & Birecture Lauren. Propries on e April gargor Diri Calhour TCEMA Dep Dir kealhour 7379eyo and Varbrough Pruit Heath Mindayine Direct Tyorbrough Que and Subject of Manual Propries Direct Lementer Direct Super Super Direct Direct Super Direct Dire	Man Robberson	Turan los deta	1 EMA	Grait .com
Erry Peary Turrer Co. Fire Lt two 4)800@gmcil. Co. Charle Puns Ashbum PD Chief sources Dechy of ashbumpe turan Robinson Southelease ashours Esweign lauren. robinson & wray Mathaus TCBOE Sept. croignothers after the erri Calhorn TCEMA Dep Dir kealhoun 7379eya sony Yarbrough Pruit Heath Mindagines Direct Tyarbrough Que Salvey Miller Chamber Directer flumer createy Chamber	James Turna	Ashburn Fired Emergency S	win Chief	"turner city of whomen int
erry Peary Turrer Co. Fire Lt twp4/800@gmcil-Co Charle Puns Ashburn PD Chief Cours Society of ashburn po when Robinson Southerable ashing Birecture Coursen. robinson @ Praint Mathrus TCBOE Supt. assignothers @turr. I erri Calhorn TCEMA Dep Dir kealhoun7379eya sony Yardrough Pruitt Heath Mindanine Director Tyarbrough @ Pru Sheey Miller Chamber Director Humer Creentey Chambant	Brad Gregory	6A. Forestry	AFMO	bgregory & gfe. state. ga
Chart Punis Ashbum PD Chief Gover: Socity of ashbumpe turan Robinson South Kealle ashbum Birecton lauren. Positism @ Lauren. Positism & Production & Production & Production & Director & Lune Create Chamber & Director & Lune Create Chamber	Terry Peavy	/	H	tw041800@gmail.Co
erri Calhon TCEMA Dep Dir kcalhoun 7379eya  Marbrough Pruitt Heath Minderince Direct Transported Dep Dir  Sheey Willer Chamber Directer flumer Creentey Chamber	Richard Punis	Ashbum PD	Chief	Spurvis Ocity of ashbum po
erri Calhor TCEMA Dep Dir kcalhar 379eya smy Yarbrough Prv. H Heath Mirtanince Direct TYarbrough Que Sheey Miller Chamber Directer Humer Creates Chamber	auran Robinson		Bircom	Lauren robinsme
erri Calhon TCEMA Dep Dir kcalhon 7379eya ony Yardrough Prvitt Heath Mindonince Director Transprough Q Prv Shaley Miller Chamber Director flumer Chenter Chamber	Crain Mathras	TOBOE	Supt.	
Sheer Miller Chamber Director Jumer Creates Chambre	- / .	A Committee of the Comm	DepDir	
Sheer Miller Chamber Director tumercreates Chambre	Tony Yarbroud	Prvitt Heath	Mindenince Direc	TYarbrough @ Pru
				Levner Creates Chambre
	Robby Royal	Ture Co. EMS	EM5 Direlor	

# SIGN – IN SHEET SOUTHERN GEORGIA REGIONAL COMMISSION TURNER COUNTY 2023 HAZARD MITIGATION PLAN UPDATE 3rd WORKSHOP WEDNESDAY, APRIL 19, 2023 2:00 PM

				~	224-427-6862	Kerri Beaton TCEMS/EHA (229)222-1011 Kralhounti	Chair Mathews Tobot 129-402-879 Crained	City of Rebecca	Mark tobisor Tano County EMA 27567-292 Sure has	ONGANIZATION FROME E-MAIL
					(PUNIS @ City of ashburapalice, 10in	kralhounts 790 yahoo, com	229-402-8PA Cresinother Otuno Messis	City of rebour @ windstream. net	27567-292 Luver la volundo gunt con	E-MAIL

#### Appendix E. Copies of Required Planning Documentation

#### III. Adoption Resolutions

#### **Turner County Resolutions**

Resolution # 2023-12-01

# A RESOLUTION OF THE TURNER COUNTY COMMISSION PURSUANT TO THE DISASTER MITIGATION ACT OF 2000 AUTHORIZING ADOPTION OF THE TURNER COUNTY HAZARD MITIGATION PLAN

WHEREAS, Turner County and the Cities of Ashburn, Rebecca, and Sycamore are required to complete a Hazard Mitigation Plan by the Disaster Mitigation Act of 2000; and

WHEREAS, under the provisions of the Disaster Mitigation Act of 2000, local governments that complete Hazard Mitigation Plans will remain eligible for Federal mitigation funding; and

WHEREAS, Turner County and its municipal governments have completed an updated Hazard Mitigation Plan that fulfills the Federal requirements of the Disaster Mitigation Act of 2000.

NOW THEREFORE LET IT BE RESOLVED THAT TURNER COUNTY COMMISSION FORMALLY ADOPTS THIS UPDATED HAZARD MITIGATION PLAN.

RESOLVED THIS 28 DAY OF \_\_\_\_\_, 2023

Signad: Commission Chairman

(County Seal)

## A RESOLUTION OF THE CITY OF ASHBURN

#### PURSUANT TO THE DISASTER MITIGATION ACT OF 2000 AUTHORIZING ADOPTION OF THE TURNER COUNTY HAZARD MITIGATION PLAN

WHEREAS, Turner County and the Cities of Ashburn, Rebecca, and Sycamore are required to complete a Hazard Mitigation Plan by the Disaster Mitigation Act of 2000; and

WHEREAS, under the provisions of the Disaster Mitigation Act of 2000, local governments that complete Hazard Mitigation Plans will remain eligible for Federal mitigation funding; and

WHEREAS, Turner County and its municipal governments have completed an updated Hazard Mitigation Plan that fulfills the Federal requirements of the Disaster Mitigation Act of 2000.

NOW THEREFORE LET IT BE RESOLVED THAT THE CITY OF ASHBURN CITY COUNCIL FORMALLY ADOPTS THIS UPDATED HAZARD MITIGATION PLAN.

RESOLVED THIS 7th DAY OF Dec, 2023

Signed Mayor

Attest: City Clerk

City Seal

#### A RESOLUTION OF THE CITY OF REBECCA

#### PURSUANT TO THE DISASTER MITIGATION ACT OF 2000 AUTHORIZING ADOPTION OF THE TURNER COUNTY HAZARD MITIGATION PLAN

WHEREAS, Turner County and the Cities of Ashburn, Rebecca, and Sycamore are required to complete a Hazard Mitigation Plan by the Disaster Mitigation Act of 2000; and

WHEREAS, under the provisions of the Disaster Mitigation Act of 2000, local governments that complete Hazard Mitigation Plans will remain eligible for Federal mitigation funding; and

WHEREAS, Turner County and its municipal governments have completed an updated Hazard Mitigation Plan that fulfills the Federal requirements of the Disaster Mitigation Act of 2000.

NOW THEREFORE LET IT BE RESOLVED THAT THE CITY OF REBECCA CITY COUNCIL FORMALLY ADOPTS THIS UPDATED HAZARD MITIGATION PLAN.

RESOLVED THIS 13 DAY OF My, 2023

Signed: Mayor

Attest City Clerk

#### A RESOLUTION OF THE CITY OF SYCAMORE

#### PURSUANT TO THE DISASTER MITIGATION ACT OF 2000 AUTHORIZING ADOPTION OF THE TURNER COUNTY HAZARD MITIGATION PLAN

WHEREAS, Turner County and the Cities of Ashburn, Rebecca, and Sycamore are required to complete a Hazard Mitigation Plan by the Disaster Mitigation Act of 2000; and

WHEREAS, under the provisions of the Disaster Mitigation Act of 2000, local governments that complete Hazard Mitigation Plans will remain eligible for Federal mitigation funding; and

WHEREAS, Turner County and its municipal governments have completed an updated Hazard Mitigation Plan that fulfills the Federal requirements of the Disaster Mitigation Act of 2000.

NOW THEREFORE LET IT BE RESOLVED THAT THE CITY OF SYCAMORE CITY COUNCIL FORMALLY ADOPTS THIS UPDATED HAZARD MITIGATION PLAN.

RESOLVED THIS Q DAY OF 60, 2023

Signal Mayor

Attest: City Clerk

(City Seal)

#### Appendix F. Reports and Inventories

#### **APPENDIX F-I.1** —HURRICANES/TROPICAL STORMS



(1)

Home Contact Us About NCEI Help

NCEI > Storm Events Database (Select State) > (Select Date/County/Event)

#### Storm Events Database

#### Data Access

Search

Bulk Data Download (CSV) Storm Data Publication

#### Documentation

Database Details

Version History

Storm Data FAQ

NOAA's NWS Documentation

Tornado EF Scale

#### External Resources

NOAA's SPC Reports

NOAA's SPC WCM Page

NOAA's NWS Damage

Assessment Toolkit

NOAA's Tsunami Database ESRI/FEMA Civil Air Patrol Images

SHELDUS

USDA Cause of Loss Data

# Data Export: (current results)



CSV Download / Documentation

#### Storm Events Database

Search Results for Turner County, Georgia

Event Types: Hurricane (Typhoon)

Turner county contains the following zones:

Turner

1 events were reported between 01/01/1950 and 12/31/2022 (26663 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:	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 <u>Database Details</u> for more information.

							So	ort By	: LD	ate/Time (Old	lest) 🗸
<u>Location</u>	County/Zone	<u>St.</u>	<u>Date</u>	Time	<u>T.Z.</u>	<u>Type</u>	Mag	<u>Dth</u>	<u>lnj</u>	<u>PrD</u>	<u>CrD</u>
Totals:								0	0	100.00K	0.00K
TURNER (ZONE)	TURNER (ZONE)	GA	07/09/2005	18:00	EST	Hurricane (typhoon)		0	0	100.00K	0.00K
Totals:								0	0	100.00K	0.00K

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USDA Cause of Loss Data

#### Data Export: (current results)



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#### Storm Events Database

Search Results for Turner County, Georgia

**Event Types: Tropical Storm** 

Turner county contains the following zones:

Turner

6 events were reported between 01/01/1950 and 12/31/2022 (26663 days)

#### Summary Info:

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Number of County/Zone areas affected:	1
Number of Days with Event:	6
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:	5
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 <u>Database Details</u> for more information.

	Sort By: Date/Time (Oldest) 🗸										dest) 🗸
Location	County/Zone	<u>St.</u>	<u>Date</u>	Time	<u>T.Z.</u>	<u>Туре</u>	<u>Mag</u>	<u>Dth</u>	<u>lnj</u>	<u>PrD</u>	<u>CrD</u>
Totals:								0	0	2.568M	0.00K
TURNER (ZONE)	TURNER (ZONE)	GA	09/05/2004	16:00	EST	Tropical Storm		0	0	50.00K	0.00K
TURNER (ZONE)	TURNER (ZONE)	GA	08/22/2008	12:00	EST-5	Tropical Storm		0	0	15.00K	0.00K
TURNER (ZONE)	TURNER (ZONE)	GA	09/02/2016	00:00	EST-5	Tropical Storm		0	0	0.00K	0.00K
TURNER (ZONE)	TURNER (ZONE)	GA	09/10/2017	22:00	EST-5	Tropical Storm		0	0	2.000M	0.00K
TURNER (ZONE)	TURNER (ZONE)	GA	10/10/2018	07:00	EST-5	Tropical Storm		0	0	500.00K	0.00K
TURNER (ZONE)	TURNER (ZONE)	GA	11/10/2022	11:00	EST-5	Tropical Storm		0	0	3.00K	0.00K
Totals:								0	0	2.568M	0.00K

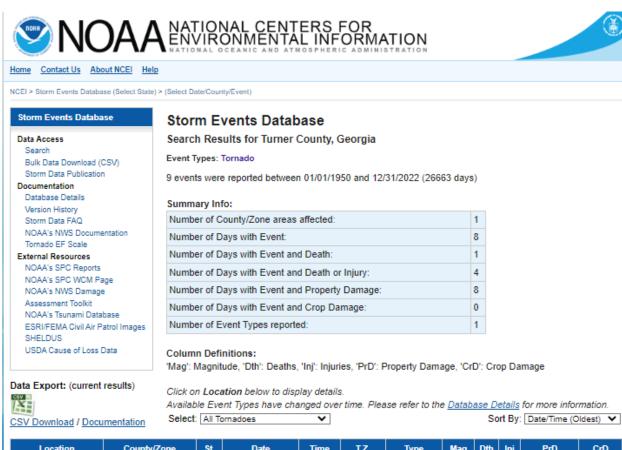
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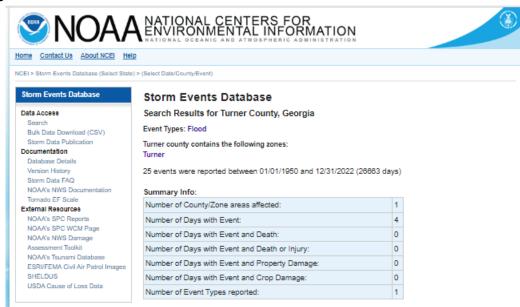
#### **TORNADOES**



Location	County/Zone	<u>St.</u>	<u>Date</u>	<u>Time</u>	<u>T.Z.</u>	<u>Туре</u>	Mag	<u>Dth</u>	<u>lnj</u>	<u>PrD</u>	CrD
Totals:								1	41	8.125M	0.00K
TURNER CO.	TURNER CO.	GA	08/24/1968	13:45	CST	Tornado	F2	0	12	250.00K	0.00K
TURNER CO.	TURNER CO.	GA	06/08/1978	18:20	CST	Tornado	F1	0	0	25.00K	0.00K
TURNER CO.	TURNER CO.	GA	05/16/1983	06:30	CST	Tornado	F1	0	0	250.00K	0.00K
TURNER CO.	TURNER CO.	GA	05/16/1983	07:30	CST	Tornado	F1	0	0	250.00K	0.00K
TURNER CO.	TURNER CO.	GA	03/02/1991	05:30	EST	Tornado	F1	0	4	250.00K	0.00K
SYCAMORE	TURNER CO.	GA	03/02/2007	00:48	EST-5	Tornado	EF1	0	0	750.00K	0.00K
<u>ASHBURN</u>	TURNER CO.	GA	12/15/2007	21:20	EST-5	Tornado	EF1	1	0	1.250M	0.00K
HOBBY	TURNER CO.	GA	01/22/2017	15:50	EST-5	Tornado	EF3	0	25	5.000M	0.00K
REBECCA	TURNER CO.	GA	04/07/2022	04:50	EST-5	Tornado	EF1	0	0	100.00K	0.00K
Totals:								1	41	8.125M	0.00K



#### **FLOODS**



Data Export: (current results)

X

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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 <u>Database Details</u> for more information.

Sort By: Date/Time (Oldest) > Location County/Zone St. <u>Date</u> <u>T.Z.</u> Mag Dth Inj PrD <u>CrD</u> Totals: 0 0.00K 0.00K 0 TURNER CO. GA 12/02/2018 DAKOTA 13:30 EST-5 Flood 0 0 0.00K 0.00K TURNER CO. GA 02/06/2020 EST-5 0 0 0.00K 0.00K **AMBOY** 14:54 Flood WORTH TURNER CO. GA 03/05/2020 07:00 EST-5 Flood 0 0 0.00K 0.00K TURNER CO. 0 0 0.00K **HOBBY** GA 03/05/2020 07:00 EST-5 Flood SIBLEY TURNER CO. GA 03/05/2020 07:00 EST-5 Flood 0 0 0.00K 0.00K TURNER CO. GA 03/05/2020 07:00 EST-5 Flood 0 0 0.00K 0.00K AMBOY INAHA TURNER CO. GA 03/05/2020 07:00 EST-5 Flood 0 0 0.00K 0.008 TURNER CO. GA 03/05/2020 07:00 EST-5 0 0 0.00K Flood 0.00K SYCAMORE COVERDALE TURNER CO. GA 03/05/2020 07:00 EST-5 Flood 0 0 0.00K 0.00K TURNER CO. GA 03/05/2020 07:00 EST-5 0 0.00K SIBLEY Flood 0 0.00K TURNER CO. TURNER CO. SIBLEY GA 03/05/2020 07:00 EST-5 Flood 0 0 0.00K 0.00K SIBLEY GA 03/05/2020 07:00 EST-5 Flood 0 0 0.00K 0.008 TURNER CO. GA 03/05/2020 07:00 EST-5 Flood 0 0 0.00K **AMBOY** 0.00K **HOBBY** TURNER CO. GA 03/05/2020 07:00 EST-5 Flood 0 0 0.00K 0.00K TURNER CO. GA 03/05/2020 07:00 EST-5 Flood 0 0 0.00K 0.00K FIVE POINTS TURNER CO. GA 03/05/2020 07:00 EST-5 Flood 0 0 0.00K 0.00K TURNER CO. GA 03/05/2020 07:00 EST-5 Flood 0 0.00K ASHBURN-TURNER ARPT 0 0.00K TURNER CO. GA 03/05/2020 07:00 EST-5 Flood 0 0 0.00K SIBLEY TURNER CO. GA 03/05/2020 07:00 EST-5 Flood 0 0 0.00K REBECCA 0.00K TURNER CO. TURNER CO. REBECCA GA 03/05/2020 07:00 EST-5 Flood 0 0 0.00K 0.00K ASHBURN-TURNER ARPT GA 03/05/2020 07:00 EST-5 Flood 0 0 0.00K 0.008 TURNER CO. GA 03/05/2020 07:00 EST-5 Flood 0 0 0.00K 0.00K ASHBURN **ASHBURN** TURNER CO. GA 03/05/2020 07:00 EST-5 Flood 0 0 0.00K 0.00K TURNER CO. GA 03/05/2020 07:00 EST-5 0 0 0.00K 0.00K WORTH Flood TURNER CO. GA 08/07/2022 12:55 EST-5 Flood 0 0 0.00K 0.00K ASHBURN 0 0 0.00K 0.00K Totals:







# LIGHTNING/THUNDERSTORMS/WIND/HAIL





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#### Storm Events Database

#### Search Results for Turner County, Georgia

**Event Types: Lightning** 

1 events were reported between 01/01/1950 and 12/31/2022 (26663 days)

#### Summary Info:

outlinely into	
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:	1
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

# Data Export: (current results)



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Click on Location below to display details.

Available Event Types have changed over time. Please refer to the <u>Database Details</u> for more information.

Sort By: Date/Time (Oldest) 🗸

Location	County/Zone	<u>St</u>	<u>Date</u>	Time	<u>T.Z.</u>	<u>Туре</u>	Mag	<u>Dth</u>	<u>Ini</u>	<u>PrD</u>	<u>CrD</u>
Totals:								0	2	0.00K	0.00K
ASHBURN	TURNER CO.	GA	07/07/2004	15:00	EST	Lightning		0	2	0.00K	0.00K
Totals:								0	2	0.00K	0.00K



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# Data Export: (current results)



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### Storm Events Database

#### Search Results for Turner County, Georgia

**Event Types: Thunderstorm Wind** 

98 events were reported between 01/01/1950 and 12/31/2022 (26663 days)

#### **Summary Info:**

-	
Number of County/Zone areas affected:	1
Number of Days with Event:	72
Number of Days with Event and Death:	1
Number of Days with Event and Death or Injury:	3
Number of Days with Event and Property Damage:	40
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 <u>Database Details</u> for more information.

Select: All Wind Speeds   ✓ Sort By: Date/Time (Oldest) ✓												
<u>Location</u>	County/Zone	<u>St</u>	<u>Date</u>	<u>Time</u>	<u>T.Z.</u>	<u>Type</u>	<u>Mag</u>	Dth	lnj	<u>PrD</u>	<u>CrD</u>	
Totals:								1	2	1.195M	5.00K	
TURNER CO.	TURNER CO.	GA	11/30/1974	17:30	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K	
TURNER CO.	TURNER CO.	GA	05/03/1984	10:20	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K	
TURNER CO.	TURNER CO.	GΑ	07/02/1984	05:25	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K	
TURNER CO.	TURNER CO.	GΑ	06/19/1985	16:30	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K	
TURNER CO.	TURNER CO.	GA	06/03/1986	14:20	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K	
TURNER CO.	TURNER CO.	GA	04/25/1988	20:15	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K	
TURNER CO.	TURNER CO.	GA	06/09/1988	17:20	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K	
TURNER CO.	TURNER CO.	GA	06/27/1988	14:30	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K	
TURNER CO.	TURNER CO.	GA	06/27/1988	15:15	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K	
TURNER CO.	TURNER CO.	GA	07/15/1988	18:30	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K	
TURNER CO.	TURNER CO.	GA	11/15/1989	23:15	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K	
TURNER CO.	TURNER CO.	GA	11/16/1989	00:15	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K	
TURNER CO.	TURNER CO.	GA	05/21/1990	17:00	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K	
TURNER CO.	TURNER CO.	GΑ	07/23/1990	19:25	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K	
TURNER CO.	TURNER CO.	GA	08/30/1990	12:30	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K	
TURNER CO.	TURNER CO.	GA	03/02/1991	05:45	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K	
TURNER CO.	TURNER CO.	GΑ	07/10/1991	17:00	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K	
TURNER CO.	TURNER CO.	GΑ	08/10/1992	16:35	PST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K	
TURNER CO.	TURNER CO.	GA	11/24/1992	11:00	PST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K	

Rebecca								1				
Antibusm	Rebecca	TURNER CO.	GA	03/31/1993	14:00		Thunderstorm Wind	0 kts.	0	0	5.00K	0.00K
Sycamore	<u>Ashburn</u>		_		-		Thunderstorm Wind	0 kts.	0	0		
Sycamore	Ashburn	TURNER CO.	GA	02/03/1995	23:53	EST	Thunderstorm Wind	0 kts.	0	0	30.00K	5.00K
Sycamore	Sycamore	TURNER CO.	GA	05/15/1995	19:00	EST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
Dakota	<u>Sycamore</u>	TURNER CO.	GA	05/15/1995	20:00	EST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
ASHBURN	<u>Sycamore</u>	TURNER CO.	GA	05/19/1995	13:15	EST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
ASHBURN	<u>Dakota</u>	TURNER CO.	GA	06/01/1995	17:00	EST	Thunderstorm Wind	0 kts.	0	0	1.00K	0.00K
ASHBURN	<u>ASHBURN</u>	TURNER CO.	GA	03/06/1996	13:54	EST	Thunderstorm Wind		0	0	1.00K	0.00K
COUNTYWIDE	ASHBURN	TURNER CO.	GA	03/06/1996	15:00	EST	Thunderstorm Wind		0	0	4.00K	0.00K
ASHBURN	ASHBURN	TURNER CO.	GA	05/27/1997	14:08	EST	Thunderstorm Wind		0	0	0.00K	0.00K
ASHBURN	COUNTYWIDE	TURNER CO.	GA	06/05/1998	19:00	EST	Thunderstorm Wind		0	0	15.00K	0.00K
SYCAMORE	ASHBURN	TURNER CO.	GA	05/07/1999	09:30	EST	Thunderstorm Wind		0	0	80.00K	0.00K
REBECCA	ASHBURN	TURNER CO.	GA	06/29/1999	18:15	EST	Thunderstorm Wind		0	0	1.00K	0.00K
ASHBURN   TURNER CO. GA   04/03/2002   20:37   EST   Thunderstorm Wind   0   0   1.00K   0.00K	SYCAMORE	TURNER CO.	GA	06/26/2000	16:52	EST	Thunderstorm Wind		0	0	2.50K	0.00K
ASHBURN   TURNER CO.   GA   07/06/2002   20:20   EST   Thunderstorm Wind   50 kts. EG   0   0   10.00K   0.00K	REBECCA	TURNER CO.	GA	08/18/2000	19:30	EST	Thunderstorm Wind		0	0	2.00K	0.00K
ASHBURN   TURNER CO.   GA   07/06/2002   20:20   EST   Thunderstorm Wind   50 kts. EG   0   0   10.00K   0.00K	ASHBURN	TURNER CO.	GA	04/03/2002	20:37	EST	Thunderstorm Wind		0	0	1.00K	0.00K
COUNTYWIDE         TURNER CO.         GA         12/24/2002         10:00         EST         Thunderstorm Wind         50 kts. EG         0         0         10:00 k         0.00K           COUNTYWIDE         TURNER CO.         GA         08/01/2003         22:30         EST         Thunderstorm Wind         50 kts. EG         0         0         20:00 k         0.00K           SYCAMORE         TURNER CO.         GA         08/01/2003         15:10         EST         Thunderstorm Wind         50 kts. EG         0         0         1.00 k         0.00K           ASHBURN         TURNER CO.         GA         02/19/2004         01:10         EST         Thunderstorm Wind         60 kts. EG         0         0         50 k0k         0.00K           ASHBURN         TURNER CO.         GA         02/13/2007         15:35         EST-5         Thunderstorm Wind         60 kts. EG         0         0         15:00 k         0.00K           ASHBURN         TURNER CO.         GA         04/14/2007         23:30         EST-5         Thunderstorm Wind         50 kts. EG         0         0         50:00K         0.00K           ASHBURN         TURNER CO.         GA         05/11/2008         10:25         EST-5		TURNER CO.	GA	07/06/2002	20:20	EST	Thunderstorm Wind		0	0	10.00K	0.00K
COUNTYWIDE         TURNER CO.         GA         05/02/2003         22:30         EST         Thunderstorm Wind         50 kts. EG         0         0         200K         0.00K           SYCAMORE         TURNER CO.         GA         08/01/2003         15:10         EST         Thunderstorm Wind         50 kts. EG         0         0         1.00K         0.00K           ASHBURN         TURNER CO.         GA         07/07/2004         15:03         EST         Thunderstorm Wind         50 kts. EG         0         0         5.00K         0.00K           COUNTYWIDE         TURNER CO.         GA         05/10/2006         18:33         EST         Thunderstorm Wind         66 kts. EG         0         15:00K         0.00K           ASHBURN         TURNER CO.         GA         02/11/2007         15:35         EST-5         Thunderstorm Wind         55 kts. EG         0         0         15:00K         0.00K           ASHBURN         TURNER CO.         GA         07/11/2007         14:15         EST-5         Thunderstorm Wind         50 kts. EG         0         0         10:00K         0.00K           ASHBURN         TURNER CO.         GA         07/11/2007         17:30         EST-5         Thunderstorm Win		TURNER CO.	GA	12/24/2002	10:00	EST	Thunderstorm Wind	50 kts. EG	0	0	10.00K	0.00K
SYCAMORE         TURNER CO.         GA 08/01/2003         15:10         EST         Thunderstorm Wind         50 kts. EG         0         0         1.00K         0.00K           ASHBURN         TURNER CO.         GA 07/07/2004         15:03         EST         Thunderstorm Wind         50 kts. EG         0         0         5.00K         0.00K           ASHBURN         TURNER CO.         GA 12/10/2004         01:10         EST         Thunderstorm Wind         60 kts. EG         0         1 20.00K         0.00K           ASHBURN         TURNER CO.         GA 02/13/2007         15:35         EST-5         Thunderstorm Wind         60 kts. EG         0         0         5.00K         0.00K           ASHBURN         TURNER CO.         GA 04/14/2007         23:30         EST-5         Thunderstorm Wind         55 kts. EG         0         0         10.00K         0.00K           ASHBURN         TURNER CO.         GA 07/11/2007         14:15         EST-5         Thunderstorm Wind         50 kts. EG         0         0         0.00K         0.00K           ASHBURN         TURNER CO.         GA 05/11/2008         91:25         EST-5         Thunderstorm Wind         50 kts. EG         0         0         0.00K									+-	+-		_
ASHBURN   TURNER CO.   GA   07/07/2004   15:03   EST   Thunderstorm Wind   50 kts. EG   0   0   5.00K   0.00K									-	+-		
ASHBURN   TURNER CO.   GA   12/10/2004   01:10   EST   Thunderstorm Wind   65 kts. EG   0   1   20.00K   0.00K					_	_			+	+-		_
COUNTYWIDE         TURNER CO.         GA         05/10/2006         18:33         EST         Thunderstorm Wind         60 kts. EG         0         0         15:00K         0.00K           ASHBURN         TURNER CO.         GA         02/13/2007         15:35         EST-5         Thunderstorm Wind         55 kts. EG         0         0         5.00K         0.00K           ASHBURN         TURNER CO.         GA         04/14/2007         23:30         EST-5         Thunderstorm Wind         55 kts. EG         0         0         10.00K         0.00K           ASHBURN         TURNER CO.         GA         07/11/2007         14:15         EST-5         Thunderstorm Wind         50 kts. EG         0         0         0.00K         0.00K           ASHBURN         TURNER CO.         GA         02/126/2008         11:25         EST-5         Thunderstorm Wind         50 kts. EG         0         0         2.00K         0.00K           ASHBURN         TURNER CO.         GA         06/11/2010         20:50         EST-5         Thunderstorm Wind         50 kts. EG         0         0         2.00K         0.00K           ASHBURN         TURNER CO.         GA         06/06/2011         18:40         EST-5					-	-			-	+-		
ASHBURN   TURNER CO. GA   02/13/2007   15:35   EST-5   Thunderstorm Wind   55 kts. EG   0   0   5.00K   0.00K			-						-	+		
ASHBURN   TURNER CO. GA   04/14/2007   23:30   EST-5   Thunderstorm Wind   55 kts. EG   0 0 10.00K   0.00K									-	-		
ASHBURN   TURNER CO. GA 07/11/2007   14:15   EST-5   Thunderstorm Wind   50 kts. EG   0   0   0.50 kt   0.00 kts. ASHBURN   TURNER CO. GA 07/11/2008   0.9:03   EST-5   Thunderstorm Wind   50 kts. EG   0   0   2.00 kt   0.00 kts. ASHBURN   TURNER CO. GA 05/11/2008   0.9:03   EST-5   Thunderstorm Wind   50 kts. EG   0   0   2.00 kt   0.00 kts. ASHBURN   TURNER CO. GA 08/01/2010   20:50   EST-5   Thunderstorm Wind   50 kts. EG   0   0   2.00 kt   0.00 kts. ASHBURN   TURNER CO. GA 08/01/2010   20:50   EST-5   Thunderstorm Wind   50 kts. EG   0   0   1.00 kt   0.00 kts. ASHBURN   TURNER CO. GA 04/05/2011   18:40   EST-5   Thunderstorm Wind   50 kts. EG   0   0   6.00 kt   0.00 kts. ASHBURN   TURNER CO. GA 06/06/2011   18:40   EST-5   Thunderstorm Wind   55 kts. EG   0   0   4.00 kt   0.00 kts. ASHBURN   TURNER CO. GA 07/11/2012   20:25   EST-5   Thunderstorm Wind   55 kts. EG   0   0   4.00 kt   0.00 kts. ASHBURN   TURNER CO. GA 07/11/2012   20:25   EST-5   Thunderstorm Wind   50 kts. EG   0   0   3.00 kt   0.00 kts. ASHBURN   TURNER CO. GA 01/30/2013   18:55   EST-5   Thunderstorm Wind   50 kts. EG   0   0   3.00 kt   0.00 kts. ASHBURN   TURNER CO. GA 01/30/2013   19:10   EST-5   Thunderstorm Wind   50 kts. EG   0   0   3.00 kt   0.00 kts. ASHBURN   TURNER CO. GA 01/30/2013   19:10   EST-5   Thunderstorm Wind   50 kts. EG   0   0   3.00 kt   0.00 kts. ASHBURN   TURNER CO. GA 07/28/2014   16:15   EST-5   Thunderstorm Wind   50 kts. EG   0   0   0.50 kt   0.00 kts. ASHBURN   TURNER CO. GA 07/28/2014   16:15   EST-5   Thunderstorm Wind   50 kts. EG   0   0   0.50 kt   0.00 kts. ASHBURN   TURNER CO. GA 07/28/2014   16:15   EST-5   Thunderstorm Wind   50 kts. EG   0   0   0.50 kt   0.00 kts. ASHBURN   TURNER CO. GA 07/28/2014   16:15   EST-5   Thunderstorm Wind   50 kts. EG   0   0   0.50 kt   0.00 kts. ASHBURN   TURNER CO. GA 06/28/2015   18:30   EST-5   Thunderstorm Wind   50 kts. EG   0   0   0.50 kt   0.00 kts. ASHBURN   TURNER CO. GA 06/17/2015   18:30   EST-5   Thunderstorm Wind   50 kts. EG   0   0   0.50 kt									-	-		
ASHBURN   TURNER CO. GA   07/11/2007   17:30   EST-5   Thunderstorm Wind   50 kts. EG   0   0   2.00K   0.00K			_		_				-	+-		
ASHBURN   TURNER CO.   GA   02/26/2008   11:25   EST-5   Thunderstorm Wind   60 kts. EG   0   0   500.00K   0.00K									-	+-		
ASHBURN   TURNER CO.   GA   05/11/2008   09:03   EST-5   Thunderstorm Wind   50 kts.   EG   0   0   2.00K   0.00K			-		-	_			+-	+-		
REBECCA         TURNER CO.         GA         08/01/2010         20:50         EST-5         Thunderstorm Wind         50 kts. EG         0         0         1.00K         0.00K           ASHBURN         TURNER CO.         GA         04/05/2011         01:40         EST-5         Thunderstorm Wind         50 kts. EG         0         0         6.00K         0.00K           SYCAMORE         TURNER CO.         GA         06/06/2011         18:40         EST-5         Thunderstorm Wind         55 kts. EG         0         0         100.00K         0.00K           ASHBURN         TURNER CO.         GA         07/17/2012         11:55         EST-5         Thunderstorm Wind         55 kts. EG         0         0         4.00K         0.00K           ASHBURN         TURNER CO.         GA         07/17/2012         11:55         EST-5         Thunderstorm Wind         50 kts. EG         0         0         3.00K         0.00K           ASHBURN         TURNER CO.         GA         01/30/2013         19:10         EST-5         Thunderstorm Wind         50 kts. EG         0         0         3.00K         0.00K           ASHBURN         TURNER CO.         GA         04/29/2014         07:43         EST-5									+	+-		
ASHBURN									+	1		
SYCAMORE         TURNER CO.         GA         06/06/2011         18:40         EST-5         Thunderstorm Wind         55 kts. EG         0         0         100.00K         0.00K           ASHBURN         TURNER CO.         GA         07/01/2012         20:25         EST-5         Thunderstorm Wind         55 kts. EG         0         0         4.00K         0.00K           ASHBURN         TURNER CO.         GA         07/17/2012         11:55         EST-5         Thunderstorm Wind         50 kts. EG         0         0         3.00K         0.00K           ASHBURN         TURNER CO.         GA         01/30/2013         18:55         EST-5         Thunderstorm Wind         50 kts. EG         0         0         3.00K         0.00K           INAHA         TURNER CO.         GA         01/30/2013         19:10         EST-5         Thunderstorm Wind         50 kts. EG         0         0         3.00K         0.00K           ASHBURN         TURNER CO.         GA         04/29/2014         07:43         EST-5         Thunderstorm Wind         50 kts. EG         0         0         0.50K         0.00K           WORTH         TURNER CO.         GA         07/28/2014         16:15         EST-5 <th< td=""><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td>+-</td><td>+-</td><td></td><td></td></th<>					-				+-	+-		
ASHBURN TURNER CO. GA 07/01/2012 20:25 EST-5 Thunderstorm Wind 55 kts. EG 0 0 4.00K 0.00K ASHBURN TURNER CO. GA 07/17/2012 11:55 EST-5 Thunderstorm Wind 50 kts. EG 0 0 3.00K 0.00K ASHBURN TURNER CO. GA 01/30/2013 18:55 EST-5 Thunderstorm Wind 50 kts. EG 0 0 3.00K 0.00K INAHA TURNER CO. GA 01/30/2013 19:10 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.50K 0.00K ASHBURN TURNER CO. GA 04/29/2014 07:43 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.50K 0.00K WORTH TURNER CO. GA 07/28/2014 16:15 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.50K 0.00K ASHBURN TURNER CO. GA 07/28/2014 16:15 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.50K 0.00K ASHBURN TURNER CO. GA 07/28/2014 16:35 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.50K 0.00K ASHBURN TURNER CO. GA 07/28/2014 16:30 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.50K 0.00K WORTH TURNER CO. GA 08/20/2014 17:50 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.50K 0.00K WORTH TURNER CO. GA 08/20/2014 17:50 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.50K 0.00K ASHBURN TURNER CO. GA 06/17/2015 18:30 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.50K 0.00K REBECCA TURNER CO. GA 06/17/2015 18:05 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.50K 0.00K SYCAMORE TURNER CO. GA 06/17/2015 18:05 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.00K 0.00K ASHBURN TURNER CO. GA 06/17/2015 18:05 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.00K 0.00K ASHBURN TURNER CO. GA 06/17/2015 18:05 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.00K 0.00K SYCAMORE TURNER CO. GA 06/17/2015 18:05 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.00K 0.00K ASHBURN TURNER CO. GA 06/22/2015 18:00 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.00K 0.00K			-						-	-		
ASHBURN TURNER CO. GA 07/17/2012 11:55 EST-5 Thunderstorm Wind 50 kts. EG 0 0 3.00K 0.00K ASHBURN TURNER CO. GA 01/30/2013 18:55 EST-5 Thunderstorm Wind 50 kts. EG 0 0 3.00K 0.00K INAHA TURNER CO. GA 01/30/2013 19:10 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.50K 0.00K ASHBURN TURNER CO. GA 04/29/2014 07:43 EST-5 Thunderstorm Wind 50 kts. EG 0 0 3.00K 0.00K WORTH TURNER CO. GA 07/28/2014 16:15 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.50K 0.00K ASHBURN TURNER CO. GA 07/28/2014 16:15 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.50K 0.00K ASHBURN TURNER CO. GA 07/28/2014 16:30 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.50K 0.00K AMBOY TURNER CO. GA 07/28/2014 16:30 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.50K 0.00K WORTH TURNER CO. GA 08/20/2014 17:50 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.50K 0.00K ASHBURN TURNER CO. GA 04/25/2015 18:30 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.50K 0.00K REBECCA TURNER CO. GA 06/17/2015 17:30 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.00K 0.00K REBECCA TURNER CO. GA 06/17/2015 18:05 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.00K 0.00K ASHBURN TURNER CO. GA 06/17/2015 18:05 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.00K 0.00K ASHBURN TURNER CO. GA 06/17/2015 18:05 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.00K 0.00K ASHBURN TURNER CO. GA 06/17/2015 18:05 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.00K 0.00K ASHBURN TURNER CO. GA 06/17/2015 18:05 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.00K 0.00K ASHBURN TURNER CO. GA 06/17/2015 18:05 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.00K 0.00K									-	+-		
ASHBURN  TURNER CO. GA 01/30/2013 18:55 EST-5 Thunderstorm Wind 50 kts. EG 0 0 3.00K 0.00K  INAHA  TURNER CO. GA 01/30/2013 19:10 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.50K 0.00K  ASHBURN  TURNER CO. GA 04/29/2014 07:43 EST-5 Thunderstorm Wind 50 kts. EG 0 0 3.00K 0.00K  WORTH  TURNER CO. GA 07/28/2014 16:15 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.50K 0.00K  ASHBURN  TURNER CO. GA 07/28/2014 16:15 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.50K 0.00K  ASHBURN  TURNER CO. GA 07/28/2014 16:30 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.50K 0.00K  WORTH  TURNER CO. GA 07/28/2014 16:30 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.50K 0.00K  WORTH  TURNER CO. GA 08/20/2014 17:50 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.50K 0.00K  ASHBURN  TURNER CO. GA 04/25/2015 18:30 EST-5 Thunderstorm Wind 55 kts. EG 0 0 0.00K 0.00K  REBECCA  TURNER CO. GA 06/17/2015 17:30 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.00K 0.00K  SYCAMORE  TURNER CO. GA 06/17/2015 18:05 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.00K 0.00K  ASHBURN  TURNER CO. GA 06/17/2015 18:05 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.00K 0.00K  AMBOY  TURNER CO. GA 06/17/2015 18:05 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.00K 0.00K  ASHBURN  TURNER CO. GA 06/17/2015 18:05 EST-5 Thunderstorm Wind 50 kts. EG 0 0 0.00K 0.00K  AMBOY  TURNER CO. GA 06/17/2015 18:05 EST-5 Thunderstorm Wind 55 kts. EG 0 0 0.00K 0.00K  ASHBURN  TURNER CO. GA 06/17/2015 18:10 EST-5 Thunderstorm Wind 55 kts. EG 0 0 0.00K 0.00K  ASHBURN  TURNER CO. GA 06/22/2015 18:00 EST-5 Thunderstorm Wind 60 kts. EG 0 0 0.00K 0.00K									+	+-		
NAHA   TURNER CO. GA   01/30/2013   19:10   EST-5   Thunderstorm Wind   50 kts. EG   0   0   0.50K   0.00K			_		-	_			+	+-		
ASHBURN         TURNER CO.         GA         04/29/2014         07:43         EST-5         Thunderstorm Wind         50 kts. EG         0         0         3.00K         0.00K           WORTH         TURNER CO.         GA         07/28/2014         16:15         EST-5         Thunderstorm Wind         50 kts. EG         0         0         0.50K         0.00K           ASHBURN         TURNER CO.         GA         07/28/2014         16:30         EST-5         Thunderstorm Wind         50 kts. EG         0         0         0.50K         0.00K           AMBOY         TURNER CO.         GA         08/20/2014         17:50         EST-5         Thunderstorm Wind         50 kts. EG         0         0         0.50K         0.00K           WORTH         TURNER CO.         GA         08/20/2014         17:50         EST-5         Thunderstorm Wind         50 kts. EG         0         0         0.50K         0.00K           ASHBURN         TURNER CO.         GA         06/17/2015         18:30         EST-5         Thunderstorm Wind         55 kts. EG         0         0         0.00K           REBECCA         TURNER CO.         GA         06/17/2015         18:05         EST-5         Thunderstorm Wind			_		-				+-	+-		
WORTH         TURNER CO.         GA         07/28/2014         16:15         EST-5         Thunderstorm Wind         50 kts. EG         0         0         0.50K         0.00K           ASHBURN         TURNER CO.         GA         07/28/2014         16:15         EST-5         Thunderstorm Wind         50 kts. EG         0         0         0.50K         0.00K           AMBOY         TURNER CO.         GA         07/28/2014         16:30         EST-5         Thunderstorm Wind         50 kts. EG         0         0         0.50K         0.00K           WORTH         TURNER CO.         GA         08/20/2014         17:50         EST-5         Thunderstorm Wind         50 kts. EG         0         0         0.50K         0.00K           ASHBURN         TURNER CO.         GA         06/17/2015         18:30         EST-5         Thunderstorm Wind         55 kts. EG         0         0         0.00K         0.00K           REBECCA         TURNER CO.         GA         06/17/2015         18:05         EST-5         Thunderstorm Wind         50 kts. EG         0         0         10.00K         0.00K           SYCAMORE         TURNER CO.         GA         06/17/2015         18:10         EST-5         Th									-	-		
ASHBURN         TURNER CO.         GA         07/28/2014         16:15         EST-5         Thunderstorm Wind         50 kts. EG         0         0         0.50K         0.00K           AMBOY         TURNER CO.         GA         07/28/2014         16:30         EST-5         Thunderstorm Wind         50 kts. EG         0         0         0.50K         0.00K           WORTH         TURNER CO.         GA         08/20/2014         17:50         EST-5         Thunderstorm Wind         50 kts. EG         0         0         0.50K         0.00K           ASHBURN         TURNER CO.         GA         04/25/2015         18:30         EST-5         Thunderstorm Wind         55 kts. EG         0         0         0.00K         0.00K           REBECCA         TURNER CO.         GA         06/17/2015         17:30         EST-5         Thunderstorm Wind         50 kts. EG         0         0         10.00K         0.00K           SYCAMORE         TURNER CO.         GA         06/17/2015         18:05         EST-5         Thunderstorm Wind         50 kts. EG         0         0         0.00K           AMBOY         TURNER CO.         GA         06/17/2015         18:10         EST-5         Thunderstorm Wind			_					_	+	-		
AMBOY         TURNER CO.         GA         07/28/2014         16:30         EST-5         Thunderstorm Wind         50 kts. EG         0         0         0.50K         0.00K           WORTH         TURNER CO.         GA         08/20/2014         17:50         EST-5         Thunderstorm Wind         50 kts. EG         0         0         0.50K         0.00K           ASHBURN         TURNER CO.         GA         04/25/2015         18:30         EST-5         Thunderstorm Wind         55 kts. EG         0         0         0.00K         0.00K           REBECCA         TURNER CO.         GA         06/17/2015         17:30         EST-5         Thunderstorm Wind         50 kts. EG         0         0         10.00K         0.00K           SYCAMORE         TURNER CO.         GA         06/17/2015         18:05         EST-5         Thunderstorm Wind         50 kts. EG         0         0         0.00K           AMBOY         TURNER CO.         GA         06/17/2015         18:10         EST-5         Thunderstorm Wind         55 kts. EG         0         0         0.00K           ASHBURN         TURNER CO.         GA         06/22/2015         18:00         EST-5         Thunderstorm Wind         60 kts. EG <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td>			_						-	-		
WORTH         TURNER CO.         GA         08/20/2014         17:50         EST-5         Thunderstorm Wind         50 kts. EG         0         0         0.50K         0.00K           ASHBURN         TURNER CO.         GA         04/25/2015         18:30         EST-5         Thunderstorm Wind         55 kts. EG         0         0         0.00K         0.00K           REBECCA         TURNER CO.         GA         06/17/2015         17:30         EST-5         Thunderstorm Wind         50 kts. EG         0         0         10.00K         0.00K           SYCAMORE         TURNER CO.         GA         06/17/2015         18:05         EST-5         Thunderstorm Wind         50 kts. EG         0         0         3.00K         0.00K           AMBOY         TURNER CO.         GA         06/17/2015         18:10         EST-5         Thunderstorm Wind         55 kts. EG         0         0         0.00K         0.00K           ASHBURN         TURNER CO.         GA         06/22/2015         18:00         EST-5         Thunderstorm Wind         60 kts. EG         0         0         50.00K         0.00K			_		_	_			-	-		
ASHBURN         TURNER CO.         GA         04/25/2015         18:30         EST-5         Thunderstorm Wind         55 kts. EG         0         0         0.00K         0.00K           REBECCA         TURNER CO.         GA         06/17/2015         17:30         EST-5         Thunderstorm Wind         50 kts. EG         0         0         10.00K         0.00K           SYCAMORE         TURNER CO.         GA         06/17/2015         18:05         EST-5         Thunderstorm Wind         50 kts. EG         0         0         3.00K         0.00K           AMBOY         TURNER CO.         GA         06/17/2015         18:10         EST-5         Thunderstorm Wind         55 kts. EG         0         0         0.00K         0.00K           ASHBURN         TURNER CO.         GA         06/22/2015         18:00         EST-5         Thunderstorm Wind         60 kts. EG         0         0         50.00K         0.00K			_						-	-		
REBECCA         TURNER CO.         GA         06/17/2015         17:30         EST-5         Thunderstorm Wind         50 kts. EG         0         0         10.00K         0.00K           SYCAMORE         TURNER CO.         GA         06/17/2015         18:05         EST-5         Thunderstorm Wind         50 kts. EG         0         0         3.00K         0.00K           AMBOY         TURNER CO.         GA         06/17/2015         18:10         EST-5         Thunderstorm Wind         55 kts. EG         0         0         0.00K           ASHBURN         TURNER CO.         GA         06/22/2015         18:00         EST-5         Thunderstorm Wind         60 kts. EG         0         0         50.00K         0.00K			-			-			-	+		
SYCAMORE         TURNER CO.         GA         06/17/2015         18:05         EST-5         Thunderstorm Wind         50 kts. EG         0         0         3.00K         0.00K           AMBOY         TURNER CO.         GA         06/17/2015         18:10         EST-5         Thunderstorm Wind         55 kts. EG         0         0         0.00K           ASHBURN         TURNER CO.         GA         06/22/2015         18:00         EST-5         Thunderstorm Wind         60 kts. EG         0         0         50.00K         0.00K						_			-	+-		
AMBOY         TURNER CO.         GA         06/17/2015         18:10         EST-5         Thunderstorm Wind         55 kts. EG         0         0         0.00K         0.00K           ASHBURN         TURNER CO.         GA         06/22/2015         18:00         EST-5         Thunderstorm Wind         60 kts. EG         0         0         50.00K         0.00K						-			-	+-		
ASHBURN TURNER CO. GA 06/22/2015 18:00 EST-5 Thunderstorm Wind 60 kts. EG 0 0 50.00K 0.00K					_	_			-	+		
								-	-	+-		
DAKOTA TURNER CO.   GA   06/30/2015   14:00   EST-5   Thunderstorm Wind   50 kts. EG   0   0   0.00K   0.00K			_			_			0	+		
	DAKOTA	TURNER CO.	GA	06/30/2015	14:00	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K

ASHBURN DAKOTA INAHA	TURNER CO.	GA GA GA GA	07/19/2015 07/29/2015 06/17/2016 07/09/2016 07/09/2016	18:20 17:53 20:20 17:42	EST-5 EST-5 EST-5	Thunderstorm Wind Thunderstorm Wind Thunderstorm Wind	50 kts. EG 50 kts. EG 55 kts. EG	0	ļ-	0.00K 0.00K 10.00K	0.00K 0.00K 0.00K
DAKOTA INAHA	TURNER CO. TURNER CO. TURNER CO. TURNER CO.	GA GA GA	06/17/2016 07/09/2016	20:20	EST-5			-	+-		
INAHA	TURNER CO. TURNER CO. TURNER CO.	GA GA	07/09/2016			Thanaciotomic Time					TO OUR
	TURNER CO. TURNER CO.	GA			IE 3 1-3	Thunderstorm Wind	60 kts. EG	0	0	0.00K	0.00K
SYCAMORE	TURNER CO.			17:45	EST-5	Thunderstorm Wind	61 kts. MG	0	0	0.00K	0.00K
			01/02/2017	22:49	EST-5	Thunderstorm Wind	70 kts. EG	1	0	250.00K	0.00K
	TURNER CO	GA	01/02/2017	22:52	EST-5	Thunderstorm Wind	55 kts. EG	0	0	0.00K	0.00K
	TURNER CO.	GA	01/02/2017	22:54	EST-5	Thunderstorm Wind	55 kts. EG	0	0	0.00K	0.00K
	TURNER CO.	GA	01/02/2017	22:56	EST-5	Thunderstorm Wind	55 kts. EG	0	0	0.00K	0.00K
	TURNER CO.	GA	01/02/2017	22:56	EST-5	Thunderstorm Wind	55 kts. EG	0	0	0.00K	0.00K
	TURNER CO.	GA	01/02/2017	22:56	EST-5	Thunderstorm Wind	55 kts. EG	0	0	0.00K	0.00K
	TURNER CO.	GA	01/02/2017	22:56	EST-5	Thunderstorm Wind	55 kts. EG	0	0	0.00K	0.00K
	TURNER CO.	GA	01/02/2017	23:00	EST-5	Thunderstorm Wind	55 kts. EG	0	0	0.00K	0.00K
AMBOY	TURNER CO.	GA	01/02/2017	23:00	EST-5	Thunderstorm Wind	55 kts. EG	0	0	0.00K	0.00K
AMBOY	TURNER CO.	GA	01/02/2017	23:03	EST-5	Thunderstorm Wind	55 kts. EG	0	0	0.00K	0.00K
REBECCA	TURNER CO.	GA	01/02/2017	23:04	EST-5	Thunderstorm Wind	55 kts. EG	0	0	0.00K	0.00K
REBECCA	TURNER CO.	GA	01/02/2017	23:05	EST-5	Thunderstorm Wind	55 kts. EG	0	0	0.00K	0.00K
ASHBURN	TURNER CO.	GA	01/21/2017	13:08	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
HOBBY	TURNER CO.	GA	04/03/2017	13:15	EST-5	Thunderstorm Wind	55 kts. EG	0	0	5.00K	0.00K
AMBOY	TURNER CO.	GA	08/10/2018	18:50	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
HOBBY	TURNER CO.	GA	06/20/2019	17:23	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
SYCAMORE	TURNER CO.	GΑ	04/08/2020	15:50	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
COVERDALE	TURNER CO.	GΑ	04/20/2020	01:28	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ASHBURN-TURNER ARPT	TURNER CO.	GΑ	04/20/2020	01:35	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
ASHBURN	TURNER CO.	GΑ	04/23/2020	10:35	EST-5	Thunderstorm Wind	50 kts. EG	0	0	3.00K	0.00K
WORTH	TURNER CO.	GΑ	05/04/2021	16:37	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
AMBOY	TURNER CO.	GΑ	05/04/2021	16:43	EST-5	Thunderstorm Wind	50 kts. EG	0	1	5.00K	0.00K
SYCAMORE	TURNER CO.	GΑ	05/04/2021	21:30	EST-5	Thunderstorm Wind	55 kts. EG	0	0	0.00K	0.00K
ASHBURN	TURNER CO.	GΑ	05/04/2021	21:30	EST-5	Thunderstorm Wind	55 kts. EG	0	0	3.00K	0.00K
REBECCA	TURNER CO.	GΑ	05/04/2021	21:30	EST-5	Thunderstorm Wind	55 kts. EG	0	0	3.00K	0.00K
<u>ASHBURN</u>	TURNER CO.	GΑ	08/01/2021	14:30	EST-5	Thunderstorm Wind	50 kts. EG	0	0	5.00K	0.00K
REBECCA	TURNER CO.	GΑ	01/02/2022	17:12	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Totals:								1	2	1.195M	5.00K



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#### Data Export: (current results)



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### Storm Events Database

#### Search Results for Turner County, Georgia

Event Types: Hail

24 events were reported between 01/01/1950 and 12/31/2022 (26663 days)

#### **Summary Info:**

Number of County/Zone areas affected:	1
Number of Days with Event:	17
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 <u>Database Details</u> for more information.

Select: All Hail

Sort Rv	Date/Time	Oldest	~
Our Dy.	Date	Oldest	

<u>Location</u>	County/Zone	<u>St.</u>	<u>Date</u>	Time	I.Z.	Type	<u>Mag</u>	<u>Dth</u>	<u>lnj</u>	PrD	CrD
Totals:								0	0	0.00K	0.00K
TURNER CO.	TURNER CO.	GA	04/28/1964	03:00	CST	Hail	2.00 in.	0	0	0.00K	0.00K
TURNER CO.	TURNER CO.	GA	05/14/1970	19:45	CST	Hail	1.00 in.	0	0	0.00K	0.00K
TURNER CO.	TURNER CO.	GA	06/03/1986	13:55	CST	Hail	1.00 in.	0	0	0.00K	0.00K
TURNER CO.	TURNER CO.	GA	05/24/1988	16:45	CST	Hail	0.75 in.	0	0	0.00K	0.00K
TURNER CO.	TURNER CO.	GA	05/21/1990	16:30	CST	Hail	1.00 in.	0	0	0.00K	0.00K
ASHBURN	TURNER CO.	GA	11/01/1997	16:45	EST	Hail	1.75 in.	0	0	0.00K	0.00K
<u>DAKOTA</u>	TURNER CO.	GA	05/06/1999	14:30	EST	Hail	1.75 in.	0	0	0.00K	0.00K
REBECCA	TURNER CO.	GA	08/18/2000	19:30	EST	Hail	1.25 in.	0	0	0.00K	0.00K
ASHBURN	TURNER CO.	GA	04/03/2002	20:37	EST	Hail	1.75 in.	0	0	0.00K	0.00K
ASHBURN	TURNER CO.	GA	04/13/2009	11:00	EST-5	Hail	0.88 in.	0	0	0.00K	0.00K
ASHBURN	TURNER CO.	GA	03/31/2015	16:10	EST-5	Hail	1.25 in.	0	0	0.00K	0.00K
SYCAMORE	TURNER CO.	GA	07/09/2016	17:45	EST-5	Hail	1.00 in.	0	0	0.00K	0.00K
ASHBURN	TURNER CO.	GA	01/22/2017	01:07	EST-5	Hail	1.00 in.	0	0	0.00K	0.00K
SYCAMORE	TURNER CO.	GA	04/05/2017	14:28	EST-5	Hail	1.25 in.	0	0	0.00K	0.00K
ASHBURN	TURNER CO.	GA	04/05/2017	14:28	EST-5	Hail	1.00 in.	0	0	0.00K	0.00K
ASHBURN	TURNER CO.	GA	04/05/2017	14:45	EST-5	Hail	1.75 in.	0	0	0.00K	0.00K
ASHBURN	TURNER CO.	GA	03/03/2019	14:55	EST-5	Hail	1.00 in.	0	0	0.00K	0.00K
REBECCA	TURNER CO.	GA	03/03/2019	15:10	EST-5	Hail	1.75 in.	0	0	0.00K	0.00K
ASHBURN	TURNER CO.	GA	03/03/2019	16:50	EST-5	Hail	1.00 in.	0	0	0.00K	0.00K
ASHBURN-TURNER ARPT	TURNER CO.	GA	03/11/2019	16:30	EST-5	Hail	1.25 in.	0	0	0.00K	0.00K
AMBOY	TURNER CO.	GA	03/11/2019	16:30	EST-5	Hail	2.75 in.	0	0	0.00K	0.00K



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# Data Export: (current results)



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# Storm Events Database

Search Results for Turner County, Georgia

Event Types: Excessive Heat

Turner county contains the following zones:

0 events were reported between 01/01/1950 and 12/31/2022 (26663 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 <u>Database Details</u> for more informa-

Sort By: Date/Time (Olde

<u>Location</u>	County/Zone	<u>St.</u>	<u>Date</u>	<u>Time</u>	<u>T.Z.</u>	<u>Туре</u>	<u>Mag</u>	<u>Dth</u>	<u>lnj</u>	<u>PrD</u>	<u>Cı</u>
Totals:								0	0	0.00K	0.00K











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USDA Cause of Loss Data

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#### Storm Events Database

Search Results for Turner County, Georgia

Event Types: Wildfire

Turner county contains the following zones:

Turner

0 events were reported between 01/01/1950 and 12/31/2022 (26663 days)

#### Summary Info:

0
0
0
0
0
0
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 <u>Database Details</u> for more information.

Sort By: Date/Time (Oldest) ▼

<u>Location</u>	County/Zone	<u>St.</u>	<u>Date</u>	<u>Time</u>	<u>T.Z.</u>	<u>Туре</u>	<u>Mag</u>	<u>Dth</u>	<u>lnj</u>	<u>PrD</u>	<u>CrD</u>
Totals:								0	0	0.00K	0.00K









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#### Storm Events Database

Search Results for Turner County, Georgia

Event Types: Wildfire

Turner county contains the following zones:

Turner

0 events were reported between 01/01/1950 and 12/31/2023 (27028 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 <u>Database Details</u> for more information.

Sort By: Date/Time (Oldest) ▼

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









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NOAA's Tsunami Database ESRUFEMA CIVILAIr Patrol

SHELDUS USDA Cause of Loss Data

Data Export: (current results) X

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30 events were reported between 01/01/1950 and 12/31/2022 (26663 days)

#### **Summary Info:**

Number of County/Zone areas affected:	1
Number of Days with Event:	30
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 <u>Database Details</u> for more information.

Sort By: Date/Time (Oldest) County/Zone <u>8t. Date 11me 172.</u> 1yse Mag Dtn in PrO CrD Location Totals: 0.00K TURNER (ZONE) GA 09/01/1997 0 0.00K TURNER (ZONE) EST-5 GA 11/23/2010 TURNER (ZONE) TURNER (ZONE) 00:00 Drought 0 0 0.00K 0.008 0 0 0.00K TURNER (ZONE) GA 12/01/2010 00:00 EST-5 Drought 0.00K TURNER (ZONE) TURNER (ZONE) GA 01/01/2011 0 00:00 EST-5 Drought 0 0.00K 0.008 TURNER (ZONE) TURNER (ZONE) GA 02/01/2011 00:00 EST-5 Drought 0 0.00K 0.008 TURNER (ZONE) 0 0 0.00K TURNER (ZONE) GA 05/10/2011 Drought 00:00 EST-5 TURNER (ZONE) <u>TURNER (ZONE)</u> TURNER (ZONE) GA 06/01/2011 00:00 EST-5 Drought 0 0 0.00K 0.00K TURNER (ZONE) TURNER (ZONE)
TURNER (ZONE) GA 07/01/2011 00:00 EST-5 0 0.00K Drought 0 GA 08/01/2011 00:00 EST-5 0 0.00K 0.008 <u>TURNER (ZONE)</u> TURNER (ZONE) GA 09/01/2011 00:00 EST-5 Drought 0 0 0.00K 0.00K TURNER (ZONE) TURNER (ZONE) Drought Drought GA 10/01/2011 00:00 EST-5 0 0.00K GA 11/01/2011 TURNER (ZONE) TURNER (ZONE) 00:00 EST-5 0 0 0.00K 0.008 TURNER (ZONE) Drought 0 0 0.00K GA 12/01/2011 00:00 EST-5 0.00K TURNER (ZONE) <u>TURNER (ZONE)</u> TURNER (ZONE) GA 01/01/2012 00:00 EST-5 Drought 0 0 0.00K 0.00K TURNER (ZONE) TURNER (ZONE) GA 02/01/2012 00:00 EST-5 Drought 0 0.00K TURNER (ZONE) GA 03/01/2012 00:00 EST-5 Drought 0 0.00K 0.00K TURNER (ZONE) TURNER (ZONE) TURNER (ZONE) GA 04/01/2012 00:00 EST-5 Drought 0 0 0.00K 0.00K TURNER (ZONE) GA 05/01/2012 00:00 GA 06/01/2012 00:00 TURNER (ZONE) TURNER (ZONE) Drought Drought EST-5 TURNER (ZONE) EST-5 0 0 0.00K 0.00K TURNER (ZONE) 0.00K GA 07/01/2012 00:00 EST-5 Drought 0 0 0.00K TURNER (ZONE) TURNER (ZONE) Drought 0 Drought 0 TURNER (ZONE) GA 08/01/2012 00:00 EST-5 0 0.00K TURNER (ZONE) GA 11/20/2012 00:00 EST-5 0 0.00K 0.008 TURNER (ZONE) TURNER (ZONE) GA 12/01/2012 00:00 EST-5 Drought 0 0 0.00K TURNER (ZONE) <u>TURNER (ZONE)</u> TURNER (ZONE) GA 01/01/2013 00:00 EST-5 Drought 0 0 0.00K 0.00K TURNER (ZONE) GA 02/01/2013 EST-5 Drought 0
Drought 0 TURNER (ZONE) 00:00 0.00K TURNER (ZONE) GA 11/15/2016 00:00 EST-5 0 0.00K 0.00K TURNER (ZONE) TURNER (ZONE) TURNER (ZONE) GA 12/01/2016 00:00 EST-5 Drought 0 0 0.00K 0.00K TURNER (ZONE) GA 01/09/2018 GA 02/01/2018 00:00 EST-5 0 0.00K Drought TURNER (ZONE) TURNER (ZONE) TURNER (ZONE) 00:00 EST-5 Drought 0 0 0.00K 0.008 TURNER (ZONE) GA 10/08/2019 00:00 EST-5 Drought 0 0 0.00K 0.00K TURNER (ZONE) 0 0 0.00K 0.00K Totals:





# **Hazardous Materials** Incident Report

U.S Department of Transportation Research and Special Programs Administration

Form Approval OMB No. 3137-0039

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 2137-0039. The filling out of this information is mandatory and will take 96 minutes to complete.

#### INSTRUCTIONS

Submit this report to the Information Systems Manager, U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration, Office of Hazardous Materials Safety, DHM-63, Washington, D.C. 20590-0001. If space provided for any item is inadequate, use a separate sheet of paper, identifying the entry number being completed. Copies of this form and instructions can be obtained from the Office of Hazardous Materials Website at http://hazarad.dot.gov. If you have any questions, you can contact the Hazardous Materials Information Center at 1-800-HMR-4922 (1-800-467-4922) or online at <a href="http://hazarad.dot.gov">http://hazarad.dot.gov</a>.

#### PART I - REPORT TYPE

1. Incident Id: E-2022080966

2. This is to report:

#### PART II - GENERAL INCIDENT INFORMATION

3. Date of Incident: 08/18/2022

5. Enter National Response Center Report Number

(if applicable):

4. Time of Incident (use 24-hour time):

6. If you submitted a report to another Federal DOT agency, enter

the agency and report number:

7. Location of Incident:

City: ASHBURN County: TURNER

State: GA

Zip Code: (if known): 31714 Street Address/Mile Marker/Yard Name/Airport/Body of Water/River Mile:

96 One Georgia Drive

8. Mode of Transportation: Highway

9. Transportation Phase: In Transit

10. Carrier/Reporter:

Name: R&L CARRIERS SHARED SERVICES, L.L.C.

Street: 600 GILLIAM RD City: WILMINGTON State: OH

Zip Code: 45177-9089

Federal DOT Id Number: Hazmat Registration Number:

11. Shipper/Offeror:

Name: National Coatings Inc. Street: PO Box 1314 604 US HWY 150 East

City: Galesburg State: ш 61402 Zip Code:

Waybill/Shipping Paper: 32061 Hazmat Registration Number:

12. Origin (if different from shipper address)

Street: City: State Zip Code:

13. Destination:

Street: 1601 Valdosta Highway

City: State: HOMERVILLE GA

14. Proper Shipping Name of Hazardous Material:

Zip Code: 31634

PAINT INCLUDING PAINT, LACQUER, ENAMEL, STAIN, SHELLAC SOLUTIONS,

VARNISH, POLISH, LIQUID FILLER AND LIQUID LACQUER BASE

15. Technical/Trade Name:

16. Hazardous Class/Division: Flammable - Combustible Liquid

17. Identification Number: (E.g. UN2764, NA 2020) UN1263

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Reproduction of this form is permitted.

18. Packing Group: (if applicable)

19. Quantity Released: (Include Measurement Units) 0.5 Liquid - Gallon

20. Was the material shipped as a hazardous waste? False

If yes, provide the EPA Manifest Number:

21. Is this a Toxic by Inhalation (TIH) material?

If yes, provide the Hazard Zone:

22. Was the material shipped under an Exemption, Approval, or Competent Authority Certificate? False If yes, provide the Exemption, Approval, or CA

23. Was this an undeclared hazardous materials

shipment?

## PART III - PACKAGING INFORMATION

24. Check Packaging Type (check only one - if more than one, list type of packaging, copy Part III, and complete for each type:

False

25. See instructions and enter the appropriate failure codes found at the end of the instructions. Be sure to enter the codes from the list that corresponds to the particular packaging type checked above. Enter the number of codes as appropriate to describe the incident. Enter the most important failure point in line 1. If there are more than two failure points, provide in this format in part VI.

What Failed:

109-Closure (e.g., Cap, Top, or Plug)
 306-Failed to Operate

- Inadequate Preparation for Transportation Causes of Failure:

26a. Provide the packaging identification markings, if available.

Identification Markings: Product and safety labeling (Examples: 141/Y1.4/150/32/USA/RB/93/RL, UN31H1/Y04/3/USA/M93/33/10600/1200, DOT - 105A - 100W (RAIL), DOT 406 (HIGHWAY), DOT 51, DOT 3-A)

26b. For Non-bulk, IBC, or non-specification packaging, if identification markings are incomplete or unavailable, see instructions and complete the following:

Single Package or Outer Packaging: Single Package or Inner Packaging (if any):

Packaging Type: Material of Construction: Packaging Type: Material of Construction: Metal

Head Type (Drums only): 27. Describe the package capacity and the quantity:

#### Single Package or Outer Packaging: Single Package or Inner Packaging (if any):

Package Capacity: Package Capacity: Amount in Package Amount in Package: Number in Shipment: Number in Shipment: Number Failed: Number Failed:

28. Provide packaging construction and test information, as appropriate:

Manufacturer: Manufacture Date Serial Number: Last Test Date:

Material of Construction: (if Tank Car, CTMV, Portable Tank, or Cylinder) Design Pressure: Shell Thickness: (if Tank Car, CTMV, Portable Tank)

(if Tank Car, CTMV, Portable Tank) Head Thickness: (if Tank Car, CTMV) Service Pressure: (if Cylinder)

If valve or device failed: Type: Model: Manufacturer:

29. If the packaging is for Radioactive Materials, complete the following:

Packaging Category: Packaging Certification: Certification Number:

Nuclide(s) Present: Transport Index:

Activity:

Critical Safety Index:

#### PART IV - CONSEQUENCES 30. Result of Incident (check all that apply): Spillage: - Explosion: - Material Entered Waterway/Storm Sewer: - Vapor (Gas) Dispersion: - Environmental Damage: - No Release: 31. Emergency Response: The following entities responded to the incident: (Check all that apply) Fire/EMS Report #: Police Report #: In-house cleanup: Other Cleanup: True 32. Damages Was the total damage cost more than \$500? True (If no, go to question 33.) If yes, enter the following information: Material Loss: \$ 0.00 Carrier Damage: \$ 0.00 Property Damage: Response Cost: \$ 0.00 Remediation/Cleanup Cost: \$ 5,000.00 (See damage definitions in the instructions) 33a. Did the hazardous material cause or contribute to a human fatality? False If yes, enter the number of fatalities resulting from the hazardous material: Employees: Responders: General Public 33b. Were there human fatalities that did not result from the hazardous material? False If yes, how many? 34. Did the hazardous material cause or contribute to personal Injury? False If yes, enter the number of injuries resulting from the hazardous material: Hospitalized (Admitted Only): Employees: Responders: General Public: Non-Hospitalized: (e.g.: On site first aid or En ergency Room observation and release) Employees: Responders: General Public: 35. Did the hazardous material cause or contribute to an evacuation? False If yes, provide the following information: Total number of general public evacuated: Total number of employees evacuated: Total evacuated: 0 Duration of the evacuation: 36. Was a major transportation artery or facility closed? False If yes, how many? 37. Was the material involved in a crash or derailment? False If yes, provide the following information: Estimated speed (mph): Weather conditions: Vehicle overturned? Vehicle left roadway/track?

# PART V - AIR INCIDENT INFORMATION (please refer to \$ 175.31 to report a discrepancy for air shipments)

38. Was the shipment on a passenger aircraft?
If yes, was it tendered as cargo, or as passenger baggage?

39. Where did the incident occur (if unknown, check the appropriate box for the location where the incident was discovered)?

#### 40. What phase(s) had the shipment already undergone prior to the incident? (Check all that apply)

 Shipment had not been transported - Transported by air (first flight)

- Transport by air (subsequent flights) - Initial transport by highway to cargo facility

- Transfer at sort center/cargo facility

#### PART IV - CONSEQUENCES 30. Result of Incident (check all that apply): Spillage: - Explosion: - Material Entered Waterway/Storm Sewer: - Vapor (Gas) Dispersion: - Environmental Damage: - No Release: 31. Emergency Response: The following entities responded to the incident: (Check all that apply) Fire/EMS Report #: Police Report #: In-house cleanup: Other Cleanup: True 32. Damages Was the total damage cost more than \$500? True (If no, go to question 33.) If yes, enter the following information: Material Loss: \$ 0.00 Carrier Damage: \$ 0.00 Property Damage: Response Cost: \$ 0.00 Remediation/Cleanup Cost: \$ 5,000.00 (See damage definitions in the instructions) 33a. Did the hazardous material cause or contribute to a human fatality? False If yes, enter the number of fatalities resulting from the hazardous material: Employees: Responders: General Public 33b. Were there human fatalities that did not result from the hazardous material? False If yes, how many? 34. Did the hazardous material cause or contribute to personal Injury? False If yes, enter the number of injuries resulting from the hazardous material: Hospitalized (Admitted Only): Employees: Responders: General Public: Non-Hospitalized: (e.g.: On site first aid or En ergency Room observation and release) Employees: Responders: General Public: 35. Did the hazardous material cause or contribute to an evacuation? False If yes, provide the following information: Total number of general public evacuated: Total number of employees evacuated: Total evacuated: 0 Duration of the evacuation: 36. Was a major transportation artery or facility closed? False If yes, how many? 37. Was the material involved in a crash or derailment? False If yes, provide the following information: Estimated speed (mph): Weather conditions: Vehicle overturned? Vehicle left roadway/track?

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- Transfer at sort center/cargo facility

# APPENDIX F.I.9 WILDFIRES (Georgia Forestry Commission)

1/3/23, 12:26 PM Fire Reports by County

County: Turner	✓ Fiscal Year: 2018 ✓ Generate List											
County = Turner	Cause	Fires		Acres	Fires 5 Yr Avg	Acres 5 Yr Avg						
Children	Children	0		0.00	0.20	0.07						
Debris: Ag Fields, Pastures, Orchards, Etc	Debris: Ag Fields, Pastures, Orchards, Etc	1		47.35	1.80	12.97						
Debris: Construction Land Clearing	Debris: Construction Land Clearing	1	$\uparrow$	0.01	0.40	0.40						
Debris: Escaped Prescribed Burn	Debris: Escaped Prescribed Burn	15	1	65.79	5.40	20.38						
Debris: Household Garbage	Debris: Household Garbage	1	1	1.64	0.40	1.20						
Debris: Other	Debris: Other	2	1	2.39	0.40	0.48						
Debris: Residential, Leafpiles, Yard, Etc	Debris: Residential, Leafpiles, Yard, Etc	0		0.00	1.20	5.92						
Debris: Site Prep - Forestry Related	Debris: Site Prep - Forestry Related	3	1	1.17	2.00	6.06						
Incendiary	Incendiary	2	1	1.68	0.80	2.52						
Lightning	Lightning	0		0.00	0.60	2.89						
Machine Use	Machine Use	10	1	4.33	6.00	5.45						
Miscellaneous: Cutting/Welding/Grinding	Miscellaneous: Cutting/Welding/Grinding	0		0.00	0.40	0.22						
Miscellaneous: Fireworks/Explosives	Miscellaneous: Fireworks/Explosives	0		0.00	0.20	0.63						
Miscellaneous: Other	Miscellaneous: Other	1	1	0.23	0.40	0.09						
Miscellaneous: Power lines/Electric fence	Miscellaneous: Power lines/Electric fences	5	1	5.83	2.20	2.05						
Miscellaneous: Structure/Vehicle Fires	Miscellaneous: Structure/Vehicle Fires	0		0.00	0.20	0.00						
Miscellaneous; Woodstove Ashes	Miscellaneous: Woodstove Ashes	0		0.00	0.20	0.41						
Smoking	Smoking	0		0.00	0.40	1.31						
Undetermined	Undetermined	2		0.85	2.00	1.51						
Totals for County: Turner Year: 2018		43	1	131.27	25.20	64.57						

# APPENDIX F.II CRITICAL FACILITIES INVENTORY 2023 UPDATE

71458	City Of Ashburn City Barn	Ashburn city	206 Mill Street	1714	Government, City Hall	Important	313956.00
71459	City Of Ashburn City Hall	Ashburn city	259 E. Washington Avenue	1714	Government, City Hall	Important, Special Consideration	293534.00
71460	City Of Ashburn Equipment Shelter	Ashburn city	263 S. Mill Street	1714	Government, City Hall	Important	12189.00
71461	City Of Ashburn Fire Department Station #1	Ashburn city	109-111 E Madison Ave	1714	Emergency Services, Fire Fighters	Essential, Lifeline, Important	323677.00
71462	City Of Ashburn Fire Station #2	Ashburn city	1070 Bridges Road	31714	Emergency Services, Fire Fighters	Essential, Lifeline, Important	50000.00
71463	City Of Ashburn Fire Training Center	Ashburn city	1070 Bridges Road	31714	Government, Fire Fighters	Essential, Lifeline, Important	90801.00
1464	City Of Ashburn Henry T. Elrod Park	Ashburn city	117 E. Washington Avenue	1714	Emergency Services, Government Offices	Lifeline	6330.00
71465	City Of Ashburn Henry T. Elrod Welcome Center	Ashburn city	113 E. Washington Ave.	31714	Emergency Services, Government Offices	Lifeline, Special Consideration, Historic Consideration	28076.00
71466	City Of Ashburn Hill Ave Water System Elevated Water Storage	Ashburn city	194 Hill Street	31714	Government, Water/Sewer	Essential, Important, Special Consideration	393181.00
71467	City Of Ashburn Old City Jail	Ashburn city	College & Mill Streets	31714	Law Enforcement, Day Care	Important	14625.00
71468	City Of Ashburn Park Office	Ashburn city	321 S. Gordon Street	1714	Government, Government Offices		23258.00
71469	City Of Ashburn Police Department Administration	Ashburn city	121 E Madison	31714	Law Enforcement, Police	Essential, Important	720600.00
71470	City Of Ashburn Police Department	Ashburn city	109-111 E Madison Ave	1714	Law Enforcement, Police	Essential, Lifeline, Important	1201500.00
71471	City Of Ashburn Public Offices	Ashburn city	231 S. Mill Street	1714	Government, Government Offices	Important, Special Consideration	76925.00
71472	City Of Ashburn Public Works Storage Building	Ashburn city	206 Mill Street	1714	Government, Government Offices	Important	206636.00
1473	City Of Ashburn Sewer Lift Station-Watley Drive	Ashburn city	800 Watley Drive	1714	Government, Water/Sewer	Essential, Important	30000.00
71474	City Of Ashburn Sewer Line System	Ashburn city	410 Rockhouse Road	1714	Government, Water/Sewer	Essential, Important	20000000.00
71475	City Of Ashburn Storage Barn	Ashburn city	N. Mill Street	1714	Government, Government Offices	Important	91146.00
71476	City Of Ashburn Water Control Building	Ashburn city	Hill Street	1714	Government, Water/Sewer	Essential, Important	78600.00
1477	City Of Ashburn Water Line System	Ashburn city		1714	Government, Water/Sewer	Essential, Important	20000000.00
1478	City Of Ashburn Water Pumping Station-College & Mill Streets	Ashburn city	College & Mill Streets	1714	Government, Water/Sewer	Essential, Important	81000.00
1479	City Of Ashburn Water Pumping Station-Gordon & Pearl	Ashburn city		1714	Government, Water/Sewer	Essential, Important	81900.00
1480	City Of Ashburn Water Pumping Station-Lee Avenue	Ashburn city	Lee Avenue & Hardin Avenue	31714	Government, Water/Sewer	Essential, Important	20700.00
1481	City Of Ashburn Youth Resource Center	Ashburn city	424 S. Jefferson Street	1714	Government, Government Offices	Vulnerable Population, Special Consideration	1720800.00
71482	FAA Radar Site	Ashburn city	Oakgrove Rd.	31714	Government, Communications	Essential, Important	500000.00
1483	Georgia Forestry	Ashburn city	2990 US Hwy 112 E	31714	Government, Fire Fighters	Essential, Important	45000.00
1484	Head Start Center	Ashburn city	524 Martin Luther King Jr. Drive	31714	Government, Pre K	Vulnerable Population	331501.00
1485	In-School Suspension Center - High and Middle School/Pre-K	Ashburn city	330 Gilmore St	31714	Law Enforcement, K - 12	Vulnerable Population	960868.00
1486	Old Turner County Jail	Ashburn city	233 E. College Avenue	1714	Law Enforcement, Jails	Important, Historic Consideration	1118400.00
1487	Turner County 911 Building	Ashburn city	1501 Industrial Drive	1714	Law Enforcement, Sheriff	Essential, Lifeline, Important	461700.00
1488	Turner County BOE Civic Center	Ashburn city	354 Lamar Street	1714	Government, Government Offices	Vulnerable Population, Special Consideration	1842832.00
1489	Turner County BOE Office	Ashburn city	421 N. Cleveland Street	1714	NGO, Government Offices		218545.00
1490	Turner County Bus Barn	Ashburn city	North Street	1714	NGO, Transportation	Transportation, Important	1584454.00
1491	Turner County Courthouse Annex	Ashburn city	208 E. College Street	31714	Law Enforcement, Court House	Essential, Important	85103.00
1492	Turner County Courthouse	Ashburn city	219 E College Ave	31714	Law Enforcement, Court House	Essential, Important	330264.00
1493	Turner County Development Authority Cold Storage Facility	Ashburn city	333 Industrial Circle	31714	Emergency Services, Government Offices	Special Consideration	975000.00
1494	Turner County Development Authority Industrial Building/Cham	Ashburn city	86 One Georgia Drive	31714	Emergency Services, Government Offices	Important	1043250.00
1495	Turner County Development Authority	Ashburn city	238 E. College Avenue	31714	NGO, Government Offices	Important	41779.00
1496	Turner County Elementary School	Ashburn city	75 Gordy Dr	31714	Education, K - 12	Important, Vulnerable Population	8989822.00
1497	Turner County EMS Office	Ashburn city	744 E. Hudson Avenue	1714	Law Enforcement, EMS	Essential, Important	667200.00
1498	Turner County Fire Department Station #1	Ashburn city	625 E. Washington Street/744 Hudson Ave	31714	Emergency Services, Fire Fighters	Essential	146521.00
1499	Turner County Health Department	Ashburn city	745 E. Hudson Avenue	1714	Medical, Government Offices	Essential, Important	356814.00
1500	Turner County High School	Ashburn city	316 Lamar St.	1714	Education, K - 12	Important, Vulnerable Population	1463675.00
1501		Ashburn city	316 Lamar Street	1714	Education, K - 12	Important, Vulnerable Population	1463675.00
1502		Ashburn city	330 Gilmore Street	1714	Education, K - 12	Important, Vulnerable Population	1010868.00
1503		Ashburn city	605 North Street	31714	Education, University		321416.00

71458		Ashburn city	206 Mill Street	31714	Government, City Hall	Important	313956.00
71504	Turner County EOC	Ashburn city	1301 Industrial Drive	31714	Emergency Services, EMA	Essential, Important	2000000.00
71541	City Of Ashburn Gas Plant	Turner County	955 Story Road	31714	Government, Government Offices	Essential, Hazardous Materials	54173.00
71542	City Of Ashburn Industrial Park Elevated Water Storage Tank	Turner County	855 Industrial Dr	31714	Government, Water/Sewer	Essential, Important	750000.00
71543	City Of Ashburn Industrial Park Water System Water Pump & Wei	Turner County	798 Industrial Dr	31714	Government, Water/Sewer	Essential, Important	75600.00
71544	City Of Ashburn Lift Station-Rockhouse Road	Turner County	410 Rockhouse Road	31714	Government, Water/Sewer	Essential, Important	33900.00
71545	City Of Ashburn Post EQ Lift Station	Turner County	410 Rockhouse Road	31714	Government, Water/Sewer	Essential, Important	24000.00
71546	City Of Ashburn SBR Lift Station-Rockhouse Road	Turner County	410 Rockhouse Road	31714	Government, Water/Sewer	Essential, Important	24000.00
71547	City Of Ashburn Sewer Lift Station Return-Rockhouse Road	Turner County	410 Rockhouse Road	31714	Government, Water/Sewer	Essential, Important	24000.00
71548	City Of Ashburn Sewer Lift Station-Airport & Industrial Drive	Turner County	Airport & Industrial Drive	31714	Government, Water/Sewer	Essential, Important	3300.00
71549	City Of Ashburn Sewer Lift Station-Hatfield Road	Turner County	700 Hatfield Road	31714	Government, Water/Sewer	Essential, Important	5100.00
71550	City Of Ashburn Sewer Lift Station-Industrial Drive	Turner County	E Of Industrial Drive	31714	Government, Water/Sewer	Essential, Important	9900.00
71551	City Of Ashburn Wastewater Treatment Lab/Administration	Turner County	410 Rockhouse Road	31714	Government, Water/Sewer	Essential, Important	187500.00
71552	City Of Ashburn Wastewater Treatment Operations	Turner County	410 Rockhouse Road	31714	Government, Water/Sewer	Essential, Important	163200.00
71553	City Of Ashburn Wastewater Treatment Plant	Turner County	410 Rockhouse Road	31714	Government, Water/Sewer	Essential, Important	4663055.00
71554	Harmony Fire Station Station #9	Turner County	2490 Whiddon Road	31714	Emergency Services, Fire Fighters	Essential, Important	450000.00
71558	Turner Co. EOC	Turner County	1301 Industrial Drive	31714	Emergency Services, EMA	Essential, Lifeline, Important	2000000.00
71559	Turner County Airport Electrical Vault	Turner County	Airport Road	31714	NGO, Day Care	Essential, Lifeline, Important	30000.00
71560	Turner County Airport Hangar	Turner County	County Farm Road	31714	NGO, Transportation	Lifeline, Special Consideration	50000.00
71561	Turner County Airport Rotating Beacon	Turner County	Industrial Park Dr.	31714	NGO, Day Care	Essential, Lifeline, Special Consideration	6500.00
71562	Turner County Airport Terminal	Turner County	101 Airport Road	31714	NGO, Transportation	Essential, Special Consideration	432000.00
71563	Turner County ASCS Extension Office	Turner County	414 County Farm Road	31714	Law Enforcement, Fire Fighters	Special Consideration	1551600.00
71564	Turner County Coverdale Fire Department Station #6	Turner County	6056 Coverdale Hwy	31714	Emergency Services, Fire Fighters	Essential, Lifeline, Important, Special Consideration	240000.00
71565	Turner County Elections Building	Turner County	1807 US #41 South	31714	Law Enforcement, Fire Fighters		21500.00
71566	Turner County Fire Department Amboy Station #7	Turner County	7719 GA 159 Hwy	31714	Emergency Services, Fire Fighters	Essential, Lifeline, Important	240000.00
71568	Turner County Fire Department Dakota Station #8	Turner County	3852 US Hwy 41 N	31714	Emergency Services, Fire Fighters	Essential, Lifeline, Important	240000.00
71569	Turner County Fire Department Pope Station #10	Turner County	3020 Hwy 107	31714	Emergency Services, Fire Fighters	Essential, Lifeline, Important	500000.00
71570	Turner County Fire Department Rocky Mount Station #11	Turner County	110 Rocky Mount Rd	31714	Emergency Services, Fire Fighters	Essential, Lifeline, Important	500000.00
71571	Turner County Holley Pavillion	Turner County	2529 U.S. 41 North	31714	NGO, Government Offices		6784.00
71572	Turner County Housing Authority	Turner County	321 Toombs St.	31714	Government, Government Offices	Vulnerable Population	33426.00
71573	Turner County Housing Authority	Turner County	327 Toombs St.	31714	Government, Government Offices	Vulnerable Population	33426.00
71574	Turner County Housing Authority	Turner County	505 West Monroe	31714	Government, Government Offices	Vulnerable Population	35044.00
71575	Turner County Housing Authority	Turner County	523 West Monroe	31714	Government, Government Offices	Vulnerable Population	32854.00
71576	Turner County Housing Authority	Turner County	531 West Monroe	31714	Government, Government Offices	Vulnerable Population	32854.00
71577	Turner County Housing Authority	Turner County	539 West Monroe	31714	Government, Government Offices	Vulnerable Population	32854.00
71578	Turner County Housing Authority	Turner County	547 West Monroe	31714	Government, Government Offices	Vulnerable Population	32854.00
71579	Turner County Housing Authority	Turner County	555 West Monroe	31714	Government, Government Offices	Vulnerable Population	32854.00
71580	Turner County Housing Authority	Turner County	630 Carlos Avenue	31714	Government, Government Offices	Vulnerable Population	43935.00
71581	Turner County Housing Authority/Linda C. Ewing Village	Turner County	525 S. Gordon St.	31714	Government, Government Offices	Vulnerable Population	0.00
71582	Turner County Housing Authority/Linda C. Ewing Village	Turner County	555 S. Gordon St.	31714	Government, Government Offices	Vulnerable Population	0.00
71583	Turner County Housing Authority/Linda C. Ewing Village	Turner County	500 N. Perry Dr.	31714	Government, Government Offices	Vulnerable Population	0.00
71584	Turner County Housing Authority/Linda C. Ewing Village	Turner County	200 Perry Dr.	31714	Government, Government Offices	Vulnerable Population	0.00
71585	Turner County Housing Authority/Linda C. Ewing Village	Turner County	600 S. Perry Dr.	31714	Government, Government Offices	Vulnerable Population	0.00
71586	Turner County Housing Authority/Joe Lawrence Homes	Turner County	619 W. Madison Ave.	31714	Government, Government Offices	Vulnerable Population	0.00
71587	Turner County Housing Authority/Joe Lawrence Homes	Turner County	310 Reagan St.	31714	Government, Government Offices	Vulnerable Population	916469.00
71588	Turner County Housing Authority/Joe Lawrence Homes	Turner County	117 Carlos Ave.	31714	Government, Government Offices	Vulnerable Population	0.00

71589	Turner County Housing Authority/Joe Lawrence Homes	Turner County	118 Carlos Ave.	31714	Government, Government Offices	Vulnerable Population	0.00
71590	Turner County Housing Authority/Joe Lawrence Homes	Turner County	119 Carlos Ave.	31714	Government, Government Offices	Vulnerable Population	0.00
71591	Turner County Housing Authority/Joe Lawrence Homes	Turner County	120 Carlos Ave.	31714	Government, Government Offices	Vulnerable Population	0.00
71592	Turner County Housing Authority/Manson Payne Homes	Turner County	320 Stevens St.	31714	Government, Government Offices	Vulnerable Population	1234759.00
71593	Turner County Housing Authority/Shealy St. Apts.	Turner County	231 Shealy St.	31714	Government, Government Offices	Vulnerable Population	0.00
71594	Turner County Housing Authority/Shealy St. Apts.	Turner County	255 Shealy St.	31714	Government, Government Offices	Vulnerable Population	0.00
71595	Turner County Housing Authority/Shealy St. Apts.	Turner County	230 Tipton St.	31714	Government, Government Offices	Vulnerable Population	0.00
71596	Turner County Jail	Turner County	1301 Industrial Dr	31714	Law Enforcement, Jails	Vulnerable Population	10282200.00
71597	Turner County Livestock Arena	Turner County	414 County Farm Road	31714	Emergency Services, Government Offices	Vulnerable Population	78974.00
71598	Turner County Recreation Department Building	Turner County	2529 U.S. #41 North	31714	NGO, Government Offices		73125.00
71599	Turner County Restroom Facilities	Turner County	County Farm Road	31714	NGO, Government Offices		5216.00
71600	Turner County Restrooms	Turner County	County Farm Road	31714	Emergency Services, Government Offices		2087.00
71601	Turner County Road Department	Turner County	388 County Farm Road	31714	Law Enforcement, Government Offices	Essential, Vulnerable Population	530400.00
71602	Turner County Sheriff's Office	Turner County	1301 Industrial Dr	31714	Law Enforcement, Sheriff	Essential, Vulnerable Population	594000.00
71603	Turner County Shop Electrical Generator Gas	Turner County	284 County Farm Road	31714	Law Enforcement, Government Offices		180000.00
71604	Turner County Shop	Turner County	284 County Farm Road	31714	Law Enforcement, Government Offices	Essential, Hazardous Materials, Vulnerable Population	1828800.00
71605	Turner County TASC Office	Turner County	391 County Farm Road	31714	Law Enforcement, Government Offices	Essential	957600.00
71606	Turner County TASC Warehouse	Turner County	391 County Farm Road	31714	Law Enforcement, Government Offices	Essential	1044000.00
71505	Rebecca Town Hall	Rebecca town	51 N Railroad St	31783	Government, City Hall	Important	14828.00
71506	City of Rebecca Community Center	Rebecca town	91 N. Railroad Street	31783	Government, City Hall	Essential, Important, Vulnerable Population	34618.00
71507	City of Rebecca Elevated Water Storage Tank	Rebecca town	35 W. Depot Street	31783	Government, Water/Sewer	Essential, Important	750000.00
71508	City of Rebecca Fire Department	Rebecca town	61 W Depot St	31783	Emergency Services, Fire Fighters	Essential, Important	480000.00
71509	City of Rebecca Storage Shed #1	Rebecca town	34 W. Depot Street	31783	Government, Government Offices	Important	7855.00
71510	City of Rebecca Storage Shed #2	Rebecca town	Doublerun Street	31783	Government, Government Offices	Important	29118.00
71511	City of Rebecca Storage Shed #3	Rebecca town	Doublerun Street	31783	Government, Government Offices	Important	1220.00
71512	City of Rebecca Storage Shed #4	Rebecca town	Depot Street	31783	Government, Government Offices	Important	3380.00
71513	City Rebecca Street Department	Rebecca town	51 N. Railroad Street	31783	Emergency Services, Government Offices	Essential, Important	550800.00
71514	City of Rebecca Water Line System	Rebecca town	35 W. Depot Street	31783	Government, Water/Sewer	Essential, Important	3000000.00
71515	City of Rebecca Water Pump & Well	Rebecca town	35 W. Depot Street	31783	Government, Water/Sewer	Essential, Important	154500.00
71516	City of Of Rebecca Water Pump Station	Rebecca town	240 Magnolia Street	31783	Government, Water/Sewer	Essential, Important	76800.00
71517	Turner County Fire Department Rebecca Station #2	Rebecca town	60 N. Double Run Street	31783	Emergency Services, Fire Fighters	Essential, Important	475200.00
71518	City of Sycamore Fire Department	Sycamore city	10 S Railroad Ave	31790	Emergency Services, Fire Fighters	Essential, Important	528000.00
71519	City Of Sycamore Fire Station #3	Sycamore city	241 S. Brown Avenue	31790	Emergency Services, Fire Fighters	Essential, Important	475200.00
71520	City Of Sycamore Park Restrooms/Building	Sycamore city	75 S. Labelle Avenue	31790	Government, Government Offices	Special Consideration	7500.00
71521	City Of Sycamore Sewer Lift Station-Academy Street	Sycamore city	302 S. Academy Street	31790	Government, Water/Sewer	Essential, Important	24000.00
71522	City Of Sycamore Sewer Lift Station-College Street	Sycamore city	263 W. College Street	31790	Government, Water/Sewer	Essential, Important	24000.00
71523	City Of Sycamore Sewer Lift Station-Industrial Drive	Sycamore city	1889 N. Industrial Drive	31790	Government, Water/Sewer	Essential, Important	24000.00
71524	City Of Sycamore Sewer Lift Station-Mattie Street	Sycamore city	37 Mattie Street	31790	Government, Water/Sewer	Essential, Important	24000.00
71525	City Of Sycamore Sewer Lift Station-N. Mattie Street	Sycamore city	591 N. Mattie Street	31790	Government, Water/Sewer	Essential, Important	24000.00
71526	City Of Sycamore Sewer Lift Station-Norway Court	Sycamore city	1 Norway Court	31790	Government, Water/Sewer	Essential, Important	24000.00
71527	City Of Sycamore Sewer Lift Station-Railroad Street	Sycamore city	633 N. Railroad Street	31790	Government, Water/Sewer	Essential, Important	24000.00
71528	City Of Sycamore Sewer Line System	Sycamore city	358 W. College Street	31790	Government, Water/Sewer	Essential, Important	4000000.00
71529	City of Sycamore Storage Barn	Sycamore city	20 S. Railroad Avenue	31790	Government, Government Offices	Essential, Important	1500000.00
71530	City of Sycamore Warehouse	Sycamore city	30 S. Railroad Avenue	31790	Government, Water/Sewer	Essential, Important	1134000.00
71531	City Of Sycamore Wastewater Control Building		358 W. College Street	31790	Government, Water/Sewer	Essential, Important	50400.00

71532	Sycamore City Hall	Sycamore city	2529 US Hwy41	31790	Government, City Hall	Important	450000.00
71533	Sycamore Elevated Water Storage Tank #1	Sycamore city	22 N. Mattie Avenue	31790	Government, Water/Sewer	Essential, Important	750000.00
71534	Sycamore Elevated Water Storage Tank #2	Sycamore city	2174 U.S. Highway #41	31790	Government, Water/Sewer	Essential, Important	750000.00
71535	Sycamore Police Department	Sycamore city	2529 US Hwy 41 S	31790	Law Enforcement, Police	Essential, Important	0.00
71536	Sycamore Water Line System	Sycamore city	2174 U.S. Highway #41	31790	Government, Water/Sewer	Essential, Important	4000000.00
71537	Sycamore Water System Well & Pump #1	Sycamore city	22 N. Mattie Avenue	31790	Government, Water/Sewer	Essential, Important	42000.00
71538	Sycamore Water System Well & Pump #2	Sycamore city	2174 U.S. Highway #41	31790	Government, Water/Sewer	Essential, Important	42000.00
71539	Turner County BOE Canning Plant	Sycamore city	347 Labelle Avenue	31790	NGO, Government Offices	Hazardous Materials, Economic Assets	109273.00
71540	Turner PDC GA Dept. of Corrections	Sycamore city	514 S. Railroad Street	31790	Law Enforcement, Private	Vulnerable Population	3149963.00
71555	Sycamore Elevated Water Storage Tank #3	Turner County	540 S. Railroad Street	31790	Government, Water/Sewer	Essential, Important	750000.00
71556	Sycamore Water System Well & Pump #3	Turner County	540 S. Railroad Street	31790	Government, Water/Sewer	Essential, Important	60000.00
71557	Turner Co Fire & Rescue Station #4	Turner County	1657 E Inaha Rd	31790	Emergency Services, Water/Sewer	Essential, Important	360000.00
71567	Turner County Fire Department Bethel Station #5	Turner County	691 Purcell Rd	31790	Emergency Services, Fire Fighters	Essential, Lifeline, Important	240000.00



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



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# 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 2023, 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 Turner County.

# **Risk Assessment Process Overview**

Hazus-MH Version 2.2 SP1 was used to perform the analyses for Turner 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. Turner 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 Turner County were replaced with data derived from parcel and property assessment data obtained from Turner County. The county provided property assessment data was current as of May 2023 and the parcel data current as of May 2023. 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 Turner 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\*

General Occupancy	Default Hazus-MH Count	Updated Count	Defau	lt Hazus-MH Exposure	Upd	lated Exposure
Agricultural	42	3	\$	8,509,000	\$	4,111,000
Commercial	291	447	\$	231,282,000	\$	383,597,000
Education	5	3	\$	9,053,000	\$	5,413,000
Government	11	5	\$	4,541,000	\$	1,828,000
Industrial	49	21	\$	32,252,000	\$	72,724,000
Religious	34	22	\$	23,139,000	\$	14,284,000
Residential	3323	4147	\$	589,679,000	\$	544,335,000
Total	3755	4648	\$	898,455,000	\$	1,026,292,000

<sup>\*</sup>The exposure values represent the total number and replacement cost for all Turner County Buildings

For Turner 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)<sup>1</sup>, or site-specific points. Figure 1 shows the distribution of buildings as points based on the county provided data.

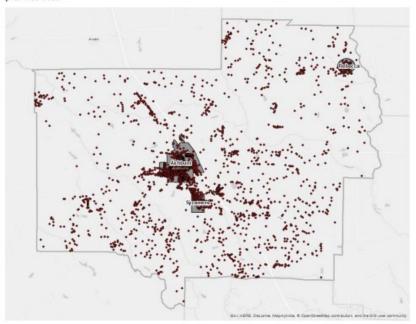


Figure 1: Turner County Overview

<sup>&</sup>lt;sup>1</sup> 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	Upda	ted Exposure
	Turner Coun	ty	
EOC	1	\$	2,000,000
Care	2	\$	1,024,000
Fire	14	\$	4,769,000
Police	4	\$	3,371,000
School	4	\$	12,928,000
Total	25	\$	24,092,000

Classification	Updated Count	Upd	lated Exposur
	Ashburn		
EOC	0	\$	
Care	2	\$	1,024,000
Fire	3	\$	521,000
Police	2	\$	1,923,000
School	4	\$	12,928,000
Total	11	\$	16,396,000

Classification	Updated Count	Upda	ted Exposure	
Sycamore				
EOC	0	\$	-	
Care	0	\$		
Fire	2	\$	1,003,000	
Police	1	\$	854,000	
School	0	\$		
Total	3	\$	1,857,000	

Classification	Updated Count	Upda	ted Exposure
	Rebecca		
EOC	0	\$	
Care	0	\$	
Fire	1	\$	475,000
Police	0	\$	
School	0	\$	
Total	1	\$	475.000

# Assumptions and Exceptions

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

- The Turner 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 Turner 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)<sup>2</sup>. 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 2021<sup>3</sup> 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.

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.

<sup>3</sup> 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 Turner County by creating a 20-mile buffer around the county to include storms that didn't make direct landfall in Turner County but impacted the county. Since 1851, Turner County has had 38 tropical systems within 20 miles of its county borders (Table 4).

Table 4: Tropical Systems affecting Turner County

Year	Month	Day	Name	Wind (Knots)	Category	Year	Month	Day	Name	Wind (Knots)	Category
1851	August	16	UNNAMED	100	Н3	1926	July	22	UNNAMED	120	H4
1856	August	25	UNNAMED	100	Н3	1928	August	3	UNNAMED	90	H2
1860	August	8	UNNAMED	110	Н3	1929	September	19	UNNAMED	135	H4
1871	August	14	UNNAMED	100	Н3	1941	October	3	UNNAMED	105	H3
1871	August	17	UNNAMED	100	Н3	1947	October	5	UNNAMED	50	TS
1873	June	1	UNNAMED	40	TS	1947	October	8	UNNAMED	90	H2
1877	September	21	UNNAMED	100	Н3	1950	September	1	EASY	105	H3
1881	August	21	UNNAMED	90	H2	1953	September	23	FLORENCE	100	H3
1886	June	17	UNNAMED	85	H2	1956	September	20	FLOSSY	80	H1
1894	October	1	UNNAMED	105	Н3	1964	August	28	DORA	115	H4
1898	September	25	UNNAMED	115	H4	1985	November	15	KATE	105	H3
1904	October	31	UNNAMED	45	TS	1986	August	13	CHARLEY	70	H1
1909	June	26	UNNAMED	45	TS	1995	August	22	JERRY	35	TS
1911	August	23	UNNAMED	85	H2	1998	August	31	EARL	85	H2
1912	July	12	UNNAMED	45	TS	2004	September	13	JEANNE	105	H3
1912	September	2	UNNAMED	45	TS	2005	October	5	TAMMY	45	TS
1917	September	20	UNNAMED	130	H4	2017	August	30	IRMA	155	H5
1919	September	29	UNNAMED	40	TS	2018	October	6	MICHAEL	140	H5
1923	June	22	UNNAMED	50	TS	2019	October	17	NESTOR	50	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 76 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.

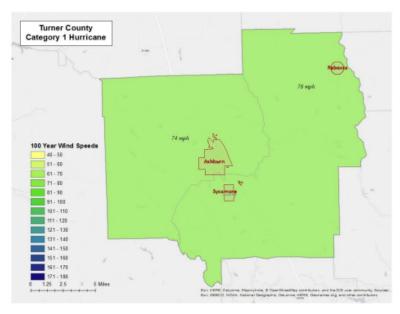


Figure 3: Wind Speeds by Storm Category

#### Wind-Related Building Damages

Buildings in Turner 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 Turner 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.

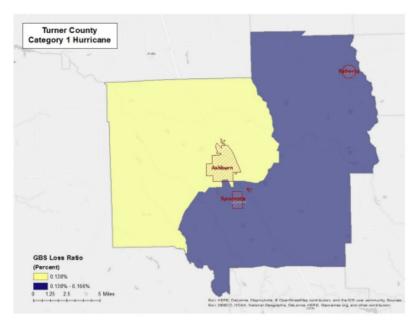


Figure 4: Hurricane Wind GBS Loss Ratios

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

ľ	Storm Number of Building Total Economi			Total Economic	
ı	Classification	Damaged Buildings	Damages		Loss Ratio (%)
(	Category 1	40	\$ 1,536,400	\$ 2,170,940	0.15%

### **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 25 essential facilities in Turner County.

Classification	Number
EOC	1
Care	2
Fire	14
Police	4
School	4
Total	25

Table 6: Wind-Damaged Essential Facility Losses

Storm Classification	Facilities Moderately Damaged (>50%)		Facilities with expected loss (<1day)
Category 1	0	0	25

# 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

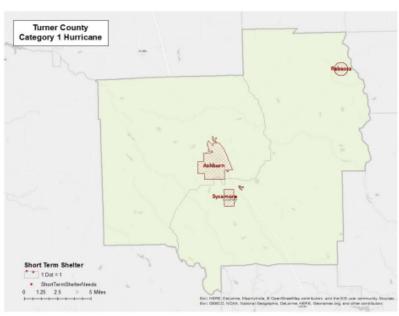


Figure 5: Hurricane Wind Shelter Requirements

#### 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	Brick, Wood,	Reinforced	Other		
Classification	and Other	Concrete/Steel	Tree Debris	Tree Debris	Total
Category 1	133		1,424	31,757	33,314

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.

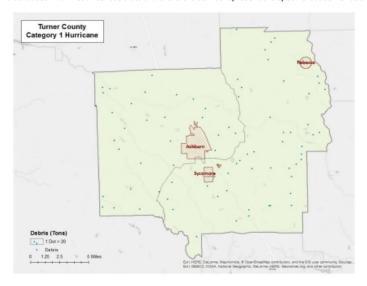


Figure 6: Wind-Related Debris Weight (Tons)

# 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 Turner 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 2023. 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.

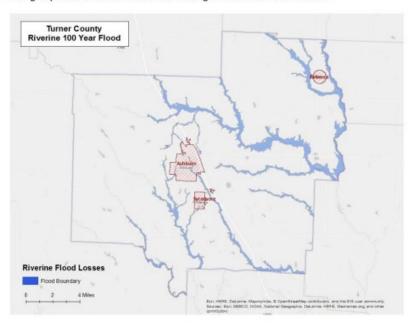


Figure 7: Riverine 1% Flood Inundation

## Riverine 1% Flood Building Damages

Buildings in Turner 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 Turner 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: Turner County Riverine 1% Building Losses

Occupancy		Buildings				tal Losses to	Loss Ratio of
Classification	Buildings	Damaged	Bu	ilding Exposure		Buildings	<b>Exposed to Damaged</b>
	Sycamore						
Residential	259	1	\$	25,490,499	\$	38,807	0.15%
				Ashburn			
Residential	1,672	32	\$	268,892,276	\$	1,361,129	0.51%
Commercial	262	3	\$	169,677,198	\$	299,518	0.18%
	Unincorporated						
Residential	2,095	43	\$	237,166,884	\$	2,334,681	0.98%
Commercial	103	1	\$	157,063,329	\$	37,210	0.02%
County Total							
Total	4,391	80	\$	858,290,186	\$	4,071,345	

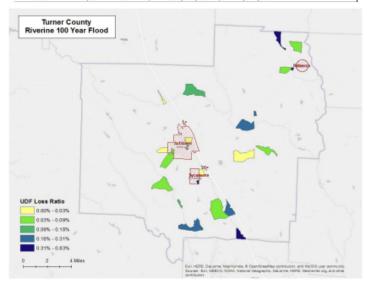


Figure 8: Potential UDF Loss Ratios from the 1% Riverine Flood

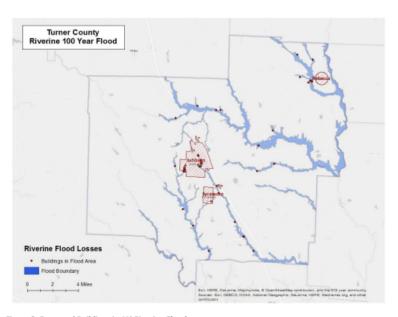


Figure 9: Damaged Buildings in 1% Riverine Flood

### 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 Turner 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	14	0	0	0
Hospitals	2	0	0	0
Police Stations	4	0	0	0
Schools	4	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 120 households might be displaced due to the flood. Displacement includes households evacuated within or very near to the inundated area. Displaced households represent 359 individuals, of which 56 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).

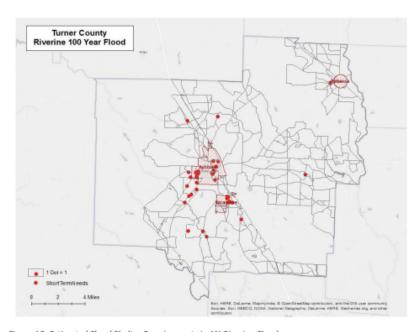


Figure 10: Estimated Flood Shelter Requirements in 1% Riverine Flood

#### 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 5,013 tons of debris might be generated: 1) Finishes – 1,496 tons; 2) Structural – 1,479 tons; and 3) Foundations- 2,039 tons. The results are mapped in Figure 11.

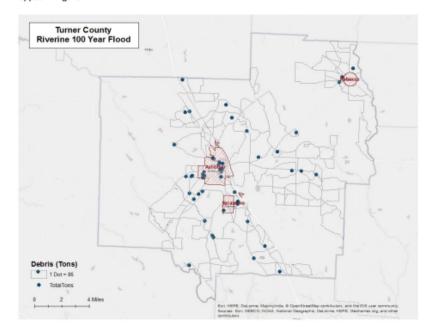


Figure 11: Flood Debris Weight (Tons) in 1% Riverine Flood

# 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 EFO 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
EFO 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 ncredible	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 Ashburn. 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		Maximum Expected
Scale	Path Width (feet)	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.

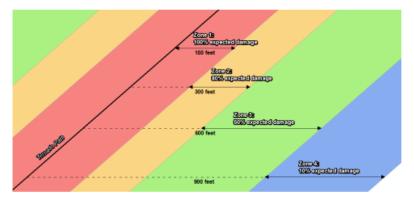


Figure 12: EF Scale Tornado Zones

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%

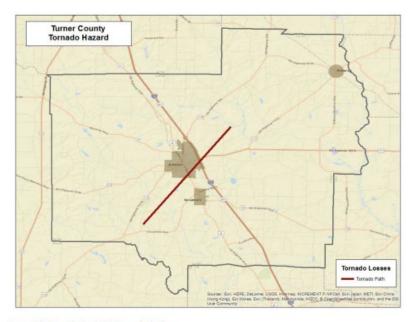


Figure 13: Hypothetical EF3 Tornado Path

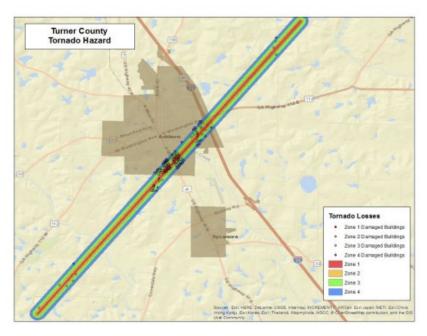


Figure 14: Modeled EF3 Tornado Damage Buffers

### EF3 Tornado Building Damages

The analysis estimated that approximately 351 buildings could be damaged, with estimated building losses of approximately \$15.8 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 Turner 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	Buildings	Building		
Classification	Damaged	Losses		
Commerical	21	\$ 6,335,967		
Educational	0	\$ -		
Governmental	0	\$ 19		
Industrial	0	\$ -		
Residential	330	\$ 9,438,750		
Total	351	\$ 15,774,717		

## EF3 Tornado Essential Facility Damage

There were 2 essential facilities located in the tornado path according to the modeling, these 2 facilities would suffer minor 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 Turner County

# **Exceptions Report**

Hazus Version 2.2 SP1 was used to perform the loss estimates for Turner 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 Turner County.

Statewide facility data were supplied by GEMA through the GMIS in April 2023. The Regional Commission updated the essential facilities in 2023. 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 Turner County.

Table 15: Essential Facility Updates

Occupancy Default		Updated				
Classification		Replacement Cost	Default Count		Replacement Cost	<b>Updated Count</b>
Care	\$	2,392,000	2	\$	1,024,000	2
EOC	\$	880,000	1	\$	2,000,000	1
Fire	\$	9,751,000	12	\$	4,769,000	14
Police	\$	3,830,000	5	\$	3,371,000	4
School	\$	25,390,000	4	\$	12,928,000	4

## **County Inventory Changes**

The GBS records for Turner County were replaced with data derived from parcel and property assessment data obtained from Turner County. The county provided property assessment data was current as of May 2023 and the parcel data current as of May 2023.

#### General Building Stock Updates

The parcel boundaries and assessor records were obtained from Turner 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 Turner 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 Turner County records.

Table 16: Building Inventory Default Adjustment Rates

Type of Adjustment	<b>Building Count</b>	Percentage
Area Unknown	164	4%
Construction Unknown	626	13%
Condition Unknown	74	2%
Foundation Unknown	892	19%
Year Built Unknown	282	6%

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 Turner 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	4,648	\$1,026,312,113
Total buildings inside the 1% Annual Chance		
Riverine Flood Area	91	\$10,812,906

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