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

#### I. Hurricane/Tropical Storms

A. Hurricane/Tropical Storms Description - Charlton County is frequently at risk of damage to life, property, and economic losses due to the impacts of Hurricanes/Tropical Storms.

The National Weather Service uses the Saffir-Simpson Hurricane Wind Scale to categorize hurricanes based on their intensity. A chart of the associated wind speeds is listed below. While several factors influence the amount of damage caused by a particular storm, typically, more intense storms tend to inflict a greater amount of damage to the affected areas.

Tropical Storm – 39-73 mph Category 1 Hurricane – 74-95 mph Category 2 Hurricane – 96-110 mph Category 3 Hurricane – 111-130 mph Category 4 Hurricane – 131-155 mph Category 5 Hurricane – greater than 155 mph

The next section will provide a little more detail with regards to past history and probability of occurrence of future events, but as a general rule Lowndes County has a high risk of being impacted by at least one tropical storm each year during the Atlantic Hurricane Season which runs from June 1 until November 30. This is due in large part to its proximity to coastal waters.

Considering many tropical storms and hurricanes are several hundred miles wide and are capable of producing damaging winds well inland, it is highly likely that a storm striking the Florida panhandle or the eastern coast of Georgia from Savannah down to the Florida coast in St Augustine would pose a threat to Charlton County as it moves inland. Historically, the greatest threat to this area has been from storms on the eastern coast.

B. Data – Worksheet 3A, GEMA Critical Facility Inventory Report, Maps, Etc.

# GEMA Worksheet #3a Inventory of Assets Jurisdiction: Charlton County (Including Folkston & Homeland) Hazard: Hurricane/Tropical Storm, Tornado, Thunderstorms & Wind, Severe Winter Storms, Hail, Drought, Lightning, Extreme Heat

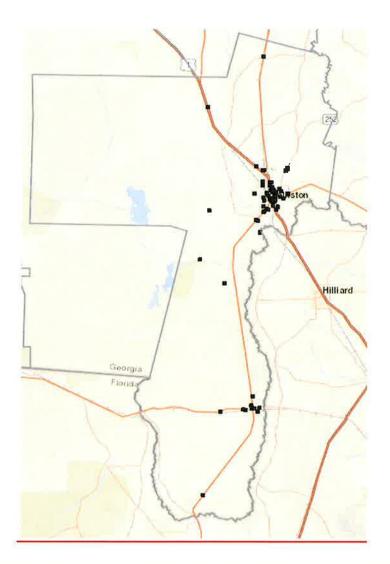
Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

Contraction of the second	N	umber of Struct	ures		Value of Structures		h h	lumber of Peopl	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	4,436	4,436	100.000%	363,752,000	363,752,000	100.000%	13,130	13,130	100%
Commercial	683	683	100.000%	92,595,028	92,595,028	100.000%	0	0	#DIV/0!
Industrial	58	58	100.000%	6,522,590	6,522,590	100.000%	0	0	#DIV/0!
Agricultural	514	514	100.000%	21,520,093	21,520,093	100.000%	0	- 0	#DIV/0!
Religious/ Non- profit	278	278	100.000%	16,133,448	16,133,448	100.000%	0	0	#DIV/0!
Government	181	181	100.000%	86,301,963	86,301,963	100,000%	0	0	#DIV/01
Education	23	23	100.000%	9,425,883	9 425 883	100.000%	0	0	#DIV/0!
Utilities	39	39	100.000%	89,340,735	89,340,735	100.000%	0	0	#DIV/0!
Total	6,212	6,212	100.000%	685,591,740	685,591,740	100,000%	13,130	13,130	100%

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

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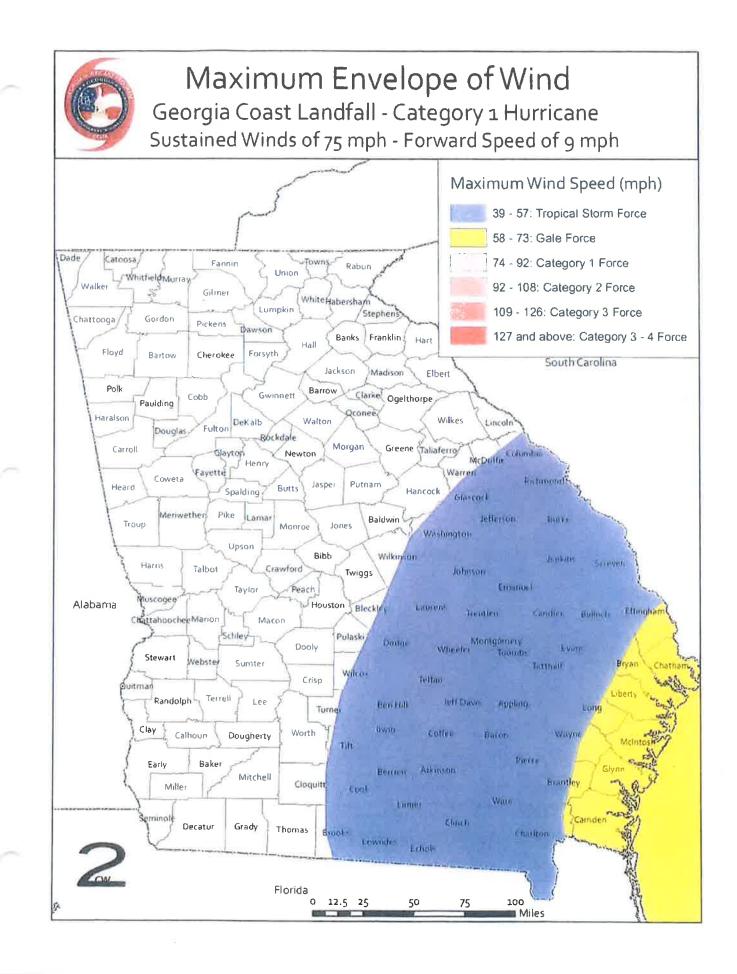
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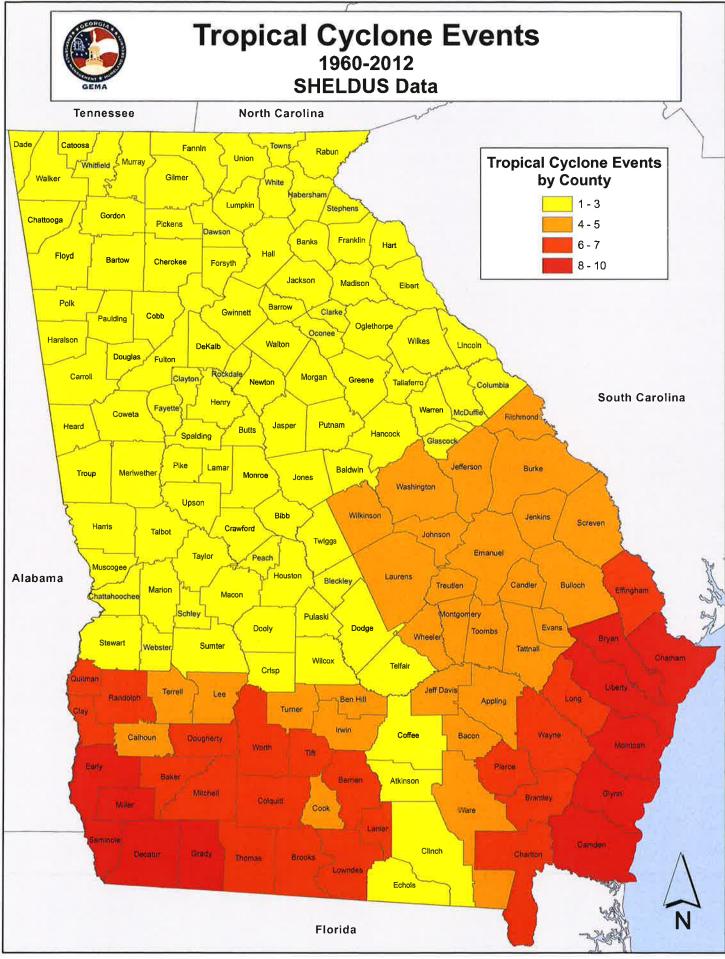


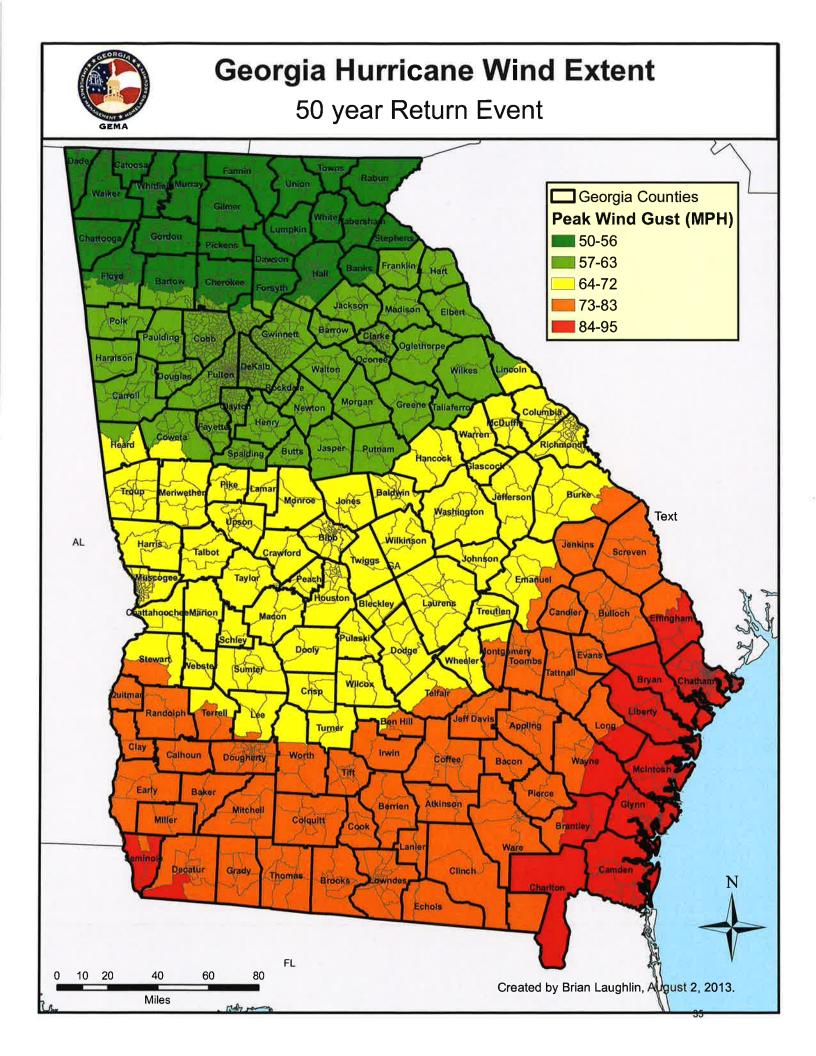
# CHARLTON COUNTY & CITIES OF FOLKSTON AND HOMELAND PDM GEMA HURRICANE/TROPICAL STORM HAZARD MAP

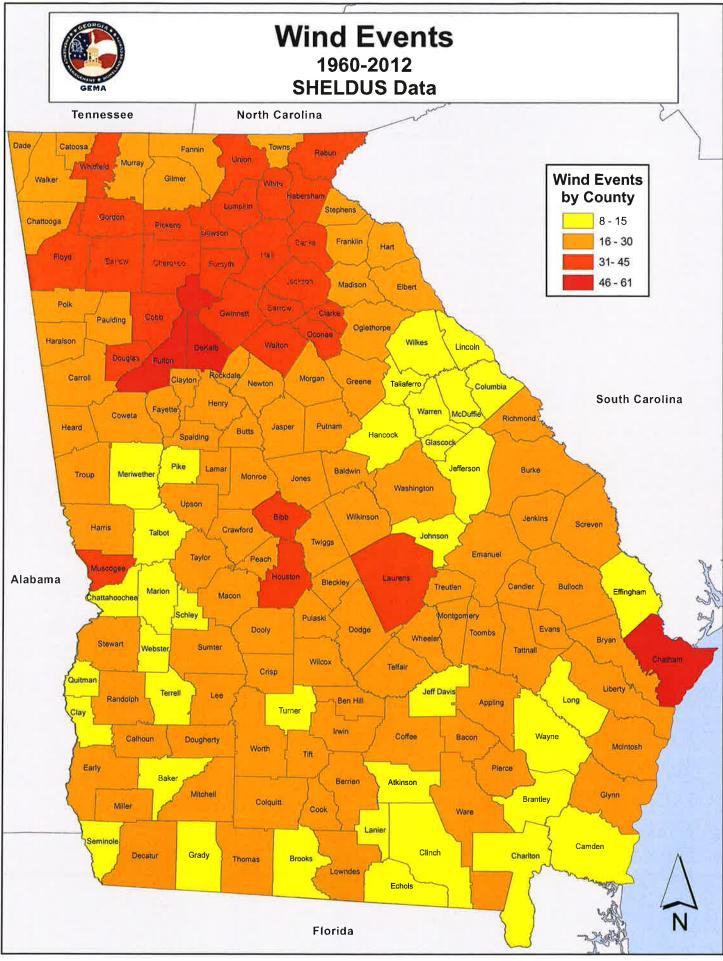
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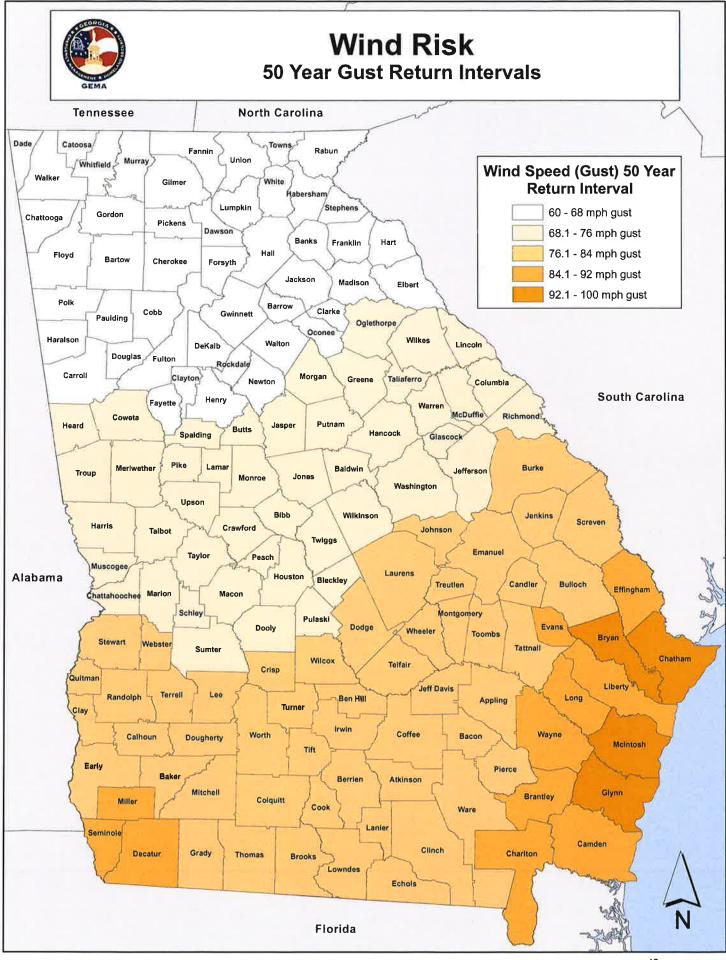
Please see attached cover sheet regarding score definitions

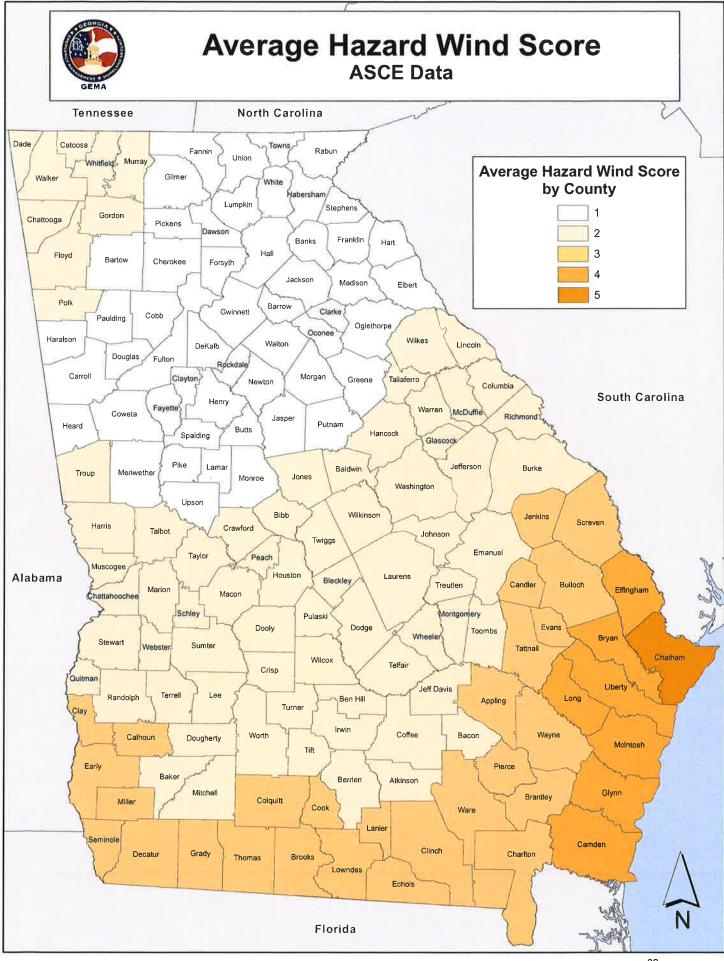














# Georgia Hurricane Incident Annex

Annex to: Georgia Emergency Operations Plan



2013

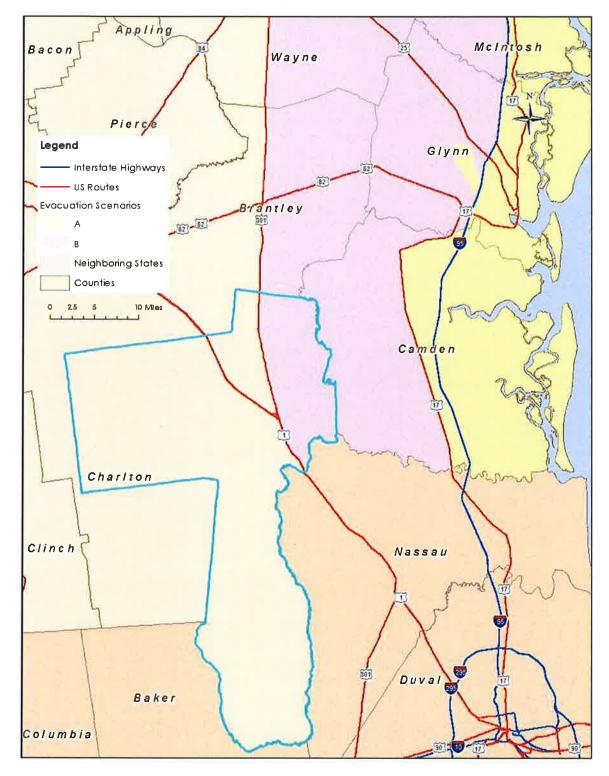


Figure 12. Charlton County Hurricane Evacuation Scenarios

#### II. Flood/SLOSH

A. Flood/SLOSH Hazard Description-Uncontrolled water (flooding) has been the costliest, repetitive natural hazard to Charlton County and its municipalities. Riverine flooding, which includes the overflow of streams and creeks designated as floodplains on the local FIRM maps due to heavy rain, have caused the most damage to government infrastructure and to individual property. In addition to riverine flooding, Charlton County also experiences localized flooding during brief periods of locally heavy rainfall, such as is commonly experienced during some thunderstorms and tropical storm events. This is particularly a problem in the urbanized areas where storm drainage systems can become overwhelmed by the intense amount of rainfall in a short period of time. While more frequent in nature, fortunately this type of flooding accounts for very little damage to local property and infrastructure.

SLOSH events, previously categorized as Flood take place as the result of Hurricanes/ Tropical Storms and GEMA mapping has for the first time reached this far inland for it to be taken into account.

B. Data – Worksheet 3A, GEMA Critical Facility Inventory Report, Maps, Etc.

# GEMA Worksheet #3a Inventory of Assets Jurisdiction: Charlton County (Unincorporated) Hazard: Flood

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

and the second second	N	umber of Struct	ures		Value of Structures		N.	lumber of Peopl	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	2,941	114	3.876%	241,162,000	9,348,000	3.876%	6.789	263	4%
Commercial	179	7	3,911%	3,991,863	156,106	3.911%	0	0	#DIV/0!
Industrial	23	1.	4.348%	1,903,190	82,747	4.348%	0)	0	#DIV/0!
Agricultural	508	20	3,937%	21,183,593	834,000	3.937%	0	0	#DIV/0!
Religious/ Non- profit	174	7	4.023%	6,794,260	273,332	4.023%	0	0	#DIV/0!
Government	82	3	3 659%	70,695,690	2,586,428	3,659%	0)	0	#DIV/01
Education	13	1	7.692%	1,123,803	86,446	7,692%	0	0	#DIV/01
Utilities	17	1	5,882%	76,248,407	4,485,200	5.882%	0)	0	#DIV/01
Total	3,937	154	3.912%	423 102 806	17,852,260	4.219%	8,789	263	4%

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

# **Inventory of Assets**

**GEMA Worksheet #3a** Jurisdiction: City of Folkston Hazard: Flood

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

Second and a second	N	mber of Struct	ures	1	Value of Structures		N	lumber of Peopl	8
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	1,160	45	3.879%	95,120,000	3,690,000	3.879%	5,313	206	4%
Commercial	465	18	3.871%	87,785,600	3,398,152	3,871%	0	0	#DIV/0!
Industrial	35	1	2.857%	4,619,400	131,983	2.857%	0	0	#DIV/01
Agricultural	1	0	0.000%	26,100	0	0.000%	0	0	#DIV/0!
Religious/ Non- profit	74	3	4.054%	8,415,358	341,163	4.054%	0	0	#DIV/01
Government	59	2	3.390%	14,663,830	497,079	3.390%	0	0	#DIV/01
Education	10	0	0.000%	8,302,080	0	0.000%	0	0	#DIV/01
Utilities	12	0	0.000%	9,665,763	0	0.000%	0	0	#DIV/01
Total	1,816	69	3.800%	228,598,131	8,058,377	3.525%	5,313	206	4%

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

# **Inventory of Assets**

**GEMA Worksheet #3a** Jurisdiction: City of Homeland Hazard: Flood

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

	NL	imber of Struct	ures		/alue of Structures		N	lumber of Peopl	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	335	13	3.881%	27,470,000	1,066,000	3.881%	1,028	40	4%
Commercial	39	2	5.128%	817,565	41,926	5.128%	0	0	#DIV/01
Industrial	0	0	0.000%	0	0	0.000%	0	0	#DIV/0!
Agricultural	5	0	0.000%	310,400	0	0.000%	0	0	#DIV/01
Religious/ Non- profit	30	1	3.333%	923.830	30,794	3.333%	o	0	#DIV/01
Government	40	2	5.000%	942,443	47,122	5.000%	0	0	#DIV/01
Education	D	0	0.000%	0	0	0.000%	0	0	#DIV/0!
Utilities	10	0	0,000%	3,426,565	0	0.000%	0	0	#DIV/01
Total	459	-18	3.922%	33,890,803	1,185,843	3.499%	1,028	40	4%

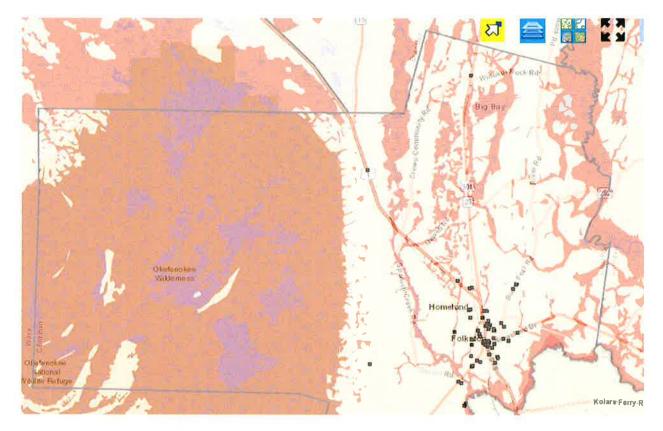
1. Do you know where the greatest damages may occur in your area?	Y	N X
2. Do you know whether your critical facilities will be operational after a hazard event?		Х
3. Is there enough data to determine which assets are subject to the greatest potential damages?	Х	
4. Is there enough data to determine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

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<ul> <li>City of Homeland Water System</li> <li>City of Homeland Water System</li> <li>City of Homeland Water Ine System</li> </ul>			110660	2017	0 Government, Government, UN alta). UN tail. DV fail 0 Government, Government, Water/Sewer, Water/Sewer 0 Government, Government, Water/Sewer, Water/Sewer	tssential, Essential, Lifeline Essential, Lifeline
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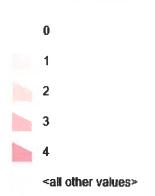
Facility SLOSH Haza Jurisdiction		Hazard Score Value	Value	Replacement Value <sup>®</sup> Building size		ontent value Conte	Content value Content value year Functional Use value Facility type	l Use value. Facility type	Risk
Charlton County	Charlton County EMA	0	8773200	0 2017	29224			0 Emergency Services, Emergency Services, EMA, EMA	Vulnerable Population
Charlton County	City Of Folkston Recycling Center	0	1080000		3600	10000	2017	0 Government, Government, Landfill, Landfill	important
Charlton County	CHESSER ISLAND ROAD LANDFILL, INC. MSWL	D	300000	_	1000			0 Government, Government, Landfill, Landfill	Important
Charlton County	Charlton County Fire Department Station #4 GA Bend	0	36000		1200	100000	2017	0 Emergency Services, Emergency Services, Fire Fighters, Fire Fighters	Essential
Charlton County	Chariton County FD Station #2 St. George	0	1467000		4890	57000	2017	0 Emergency Services, Emergency Services, Fire Fighters, Fire Fighters	Essential
Charlton County	Charlen County FU Station #4 Nacepond	0 0	525000		1750	50000	2017	0 Emergency Services, Emergency Services, Fire Fighters, Fire Fighters	Essential
Charlton County	Charlton County Afront Davis Field		150000	/107 0	2400	50000	/102	0 Emergency Services, Emergency Services, Fire Fighters, Fire Fighters	Essential
Charlton County	Charlton County Christian Academy		EADOOD		000			U GOVERNMENT, GOVERNMENT, Iransportation, Iransportation	Essential, Transportation
Charlton County	Charlton County Antenna Repeater #2		350000		1001			U Education, Education, K - 12, K - 12 O Emergency Services Emergency Services Communications Communications	Important, Vulnerable Population
Charlton County	Charlton County BOE: St. George Elementary	0	7227000		24090	464000	2017	O Entrefering Services, Entrefering Services, Continuum duotis, Contributing and the Office of the Contribution K - 12 K - 12 K - 12	Vulnershle Population
Charlton County	Folkston Maintenance/Electrical Shop	Ð	597000		1990			0 Government. Government. Transportation. Transportation	tuniciente operation
Charlton County	OREMC Radio Tower	0	350000		100			0 Emergency Services, Emergency Services, Communications, Communications	Essential, Lifeline
Charlton County	Georgia GA Forestry Commission GFC	0	660000		2200			0 Emergency Services, Emergency Services, Fire Fighters, Fire Fighters	Essential
Charlton County	Trader's Hill Recreation Area	0	217500		725			0 Government, Government, Government Offices, Government Offices	Historic Consideration, Important
Charlton County	Georgia GDOT Transportation Maintenance Facility	0	675000		2250			0 Government, Government, Transportation, Transportation	Essential, Transportation
Charlton County	Chariton County Maintenance Shop	0	540000		1800	111000	2017	0 Government, Government, Transportation, Transportation	Essential, Transportation
Charlton County	U.S. FW Service Okefenokee Refuge	0	2002500		6675			0 Law Enforcement, Law Enforcement, Police, Police	Essential
Chartton County	Georgia GFC Forestry Gowen Tower	0	150000		100			0 Emergency Services, Emergency Services, Fire Fighters, Fire Fighters	Essential
Charlton County	deorgia ort-rorestry Lommission-St. George		150000		100			0 Emergency Services, Emergency Services, Fire Fighters, Fire Fighters	Essential
Charlton County	Crariton County Iransfer Station		702000		2340			0 NGO, NGO, Landfill, Landfill	Important
Charlton County			20005	/107 0	300			0 NGO, NGO, Communications, Communications	Important
Charlton County	Tradare Lill Dumm Louice		nonnes		100	00000	1,000	U Emergency Services, Emergency Services, Communications, Communications	Essential, Lifeline
Charlton County	Charlton Founty FMS Station #2-St. George				00T	22000	/107	U Government, Government, Water/Sewer, Water/Sewer	Lifeline
Charlton County	Chanter Pump House		VEDU0		150	00002	/102	U cimergency services, timergency services, two, two, two	tssential
Charlton County	Georgia Power Substation	, c	750000		001	00000	1107	O Government Government, water/sewer, water/sewer	Literine
Charlton County	Kingsland Drive Lift Station	0	30000		100	10000	2017	0 Government Government Water/sever, valet/Sever	urenne Lifalina
Charlton County	S.R. 252 Lift Station	0	30000		100	100000	2017	0 Government, Government, Water/Sewer, Water/Sewer	Lifeline
Charlton County	Thomas Camp Lift Station	0	30000	2017	100	100000	2017	0 Government, Government, Water/Sewer, Water/Sewer	Lifeline
Charlton County	Pinehurst Subdivision Lift Station	0	30000		100	100000	2017	0 Government, Government, Water/Sewer, Water/Sewer	Lifeline
Charlton County	City of Folkston Water Systen-Homeland	0	750000		201	53350	2017	0 Government, Government, Water/Sewer, Water/Sewer	Essential, Lifeline
Charlton County	CHEMIC Electric Substation #2	0,	3080000	_	100			0 NGO, NGO, Private, Private	Lifeline
Charlton County	Cremen Directory, Boostet Chinesh	7 •		_	0			U Emergency Services, Emergency Services, EMS, EMS	Essential
Charlton County	camp rinceney adpust charcin St. George Church of God	7 7	450000	/107 0	17075			0 Emergency Services, Emergency Services, Private, Private	Essential
Charlton County	Charlton County Road Dent. St. George	7 7			C70/T			u Emergency Services, Emergency Services, Private, Private	Essential
Charlton County	Concerted Services Head Start	• -	1920000		6400			o doverningni, doverningent, iransportation, iransportation O Education Education Day Care Day Care	Vulherahla Ponulation
Charlton County	New Life Baptist Church	- <del>-</del> 7	2805000		9350			0 Emergency Services. Emergency Services. Private. Private	Festivation
Folkston city	Charlton County FD Station 01 Folkston	0	1743900		5813	70000	2017	0 Emergency Services, Emergency Services, Fire Fighters, Fire Fighters	Essential
Folkston city	Charlton County Sheriff's Office	0	2400000	2017	8000	100000	2017	0 Law Enforcement, Law Enforcement, Sheriff, Sheriff	Essential, Vulnerable Population
Folkston city	Charlton County Courthouse	0	6945600		23152	160000	2017		Essential
Folkston city	Vacant Charlton County Memorial Hospital	0	10825800		36086			0 Emergency Services, Emergency Services, Hospital, Hospital	Essential, Vulnerable Population
		0 0	6501414		100	350000	2017	0 Government, Government, Water/Sewer, Water/Sewer	Lifeline
Folkston city	City of Folkston Water System Charleon County BOE Lifet School		00005/	/107 0	107	53350	2017	0 Government, Government, Water/Sewer, Water/Sewer	Essential, Lifeline
Folkston city	Vacant Charlton Memorial Hospital FR			_	100017	0040701	/107	o coucatori, cuucatori, K = 12, K = 12 O Medical Medical Hosnital Hosnital	Vuinerapie Population Escontial Vuinarabio Bostintian
Folkston city	Charlton County Antenna Repeater #1	0	350000		100			o mouse, mouse, mouse and mouse a communications. Communications	Essential Tifeline
Folkston city	Chariton County Cooperative Extension	O	669600		2232	81000	2017	0 Government. Government Government Offices. Government Offices	Important
Folkston city	Charlton County Health Dept. Homecare	0	30000		1000	177000	2017	0 Medical, Medical Offices, Medical Offices	Essential, Vulnerable Population
Folkston city	Chariton County Health Dept.	0	2135700	0 2017	7119	177000	2017	0 Medical, Medical, Medical Offices, Medical Offices	Essential
Folkston city	Charlton County Public Library	0	2625000		8750	50000	2017	0 Education, Education, Library, Library	Historic Consideration, Important
Folkston city	Charlton County Senior Center	0	1631100		5437	100000	2017	0 Government, Government, Day Care, Day Care	Vulnerable Population
Folkston city	City of Folkston Water Line System	0	5000000		0			0 Government, Government, Water/Sewer, Water/Sewer	Essential, Lifeline
Folkston city	City of Folkston Sewerline System	0	5000000		0			0 Government, Government, Water/Sewer, Water/Sewer	Lifeline
Folkston city Folkston city	Lity of Folkston City Hall City of Folkston Denot-Chamber of Commerce		1127500	2017	4113	138900	2017	0 Government, Government, City Hall, City Hall	Essential
Folkston city	Lity of Folkston Depot-Chamber of Commerce City of Folkston Housing Authority	» c	12000000		3776	195100	/T07	0 Government, Government, Government Offices, Government Offices	Historic Consideration, Important
Folkston city	City of Folkston Road Dept.	0	585000		1950	39000	2017	o government, government, ritvate, ritvate 0 Government, Government, Transportation, Transportation	important, vunerable Population Transportation
					-				

Essential	Historic Consideration, Important	Essential, Historic Consideration, Important	Historic Consideration	Vulnerable Population	Important	Essential, Vulnerable Population	Essential, Lifeline	Essential	Essential, Vulnerable Population	Essential	Essential. Vulnerable Population	Eccontial	Essential	Villoerable Providation	Freatist Lifeline	Lifeline			urenne Lifeline	lifeline	Lifeline	Lifeline	Lifeline	anitelinang aldmanlint tartronan	Mulherahle Poordation	Transmontation	Transportation	Freedom (2001)	Lifeline				Essential	cssential	essential Freential	coortial Grandial	Essential Ercential lifeline	control lifeling	essenual, ureine	Important	Essential, Transportation	Lifeline	Essential, Lifeline	Lifeline
0 Law Enforcement, Law Enforcement, Police, Police	0 Education, Education, Jr Colleges, Jr Colleges	0 Law Enforcement, Law Enforcement, Court House, Court House	0 Government, Government, Government Offices, Government Offices	0 Education, Education, Day Care, Day Care	0 Government, Government, Communications, Communications	0 Law Enforcement, Law Enforcement, Prisons, Prisons	0 Government, Government, Water/Sewer, Water/Sewer	0 Medical, Medical, Medical Offices, Medical Offices	0 Medical, Medical, Medical Offices, Medical Offices	<ol><li>Emergency Services, Emergency Services, Communications, Communications</li></ol>	0 Medical. Medical. ALF. ALF	0 Modical Medical Offices Medical Offices	0 Emergency Services. Emergency Services. FMA. FMA	0 Education. Education. K - 17. K - 12	O Government Government Wester/Cause Water/Cause	0 Government, Government, water/Jewer, water/Jewer	O Government Government Mater/Course Mater/Source	O Government Gavernment Weter/Jewel, vale/Jewel	O Government Government Water/Sewer, water/Sewer	0 Government Government Water/Cover Water/Cover	O Government Government Water/Jewer, veter/Jewer	0 Government Government Water/Sewer Water/Sewer	0 Government Government Water/Sewer Water/Sewer	C Education Februarion V. 12 K. 13	O Education Education K + 12 K - 12	O Education Education Transnorthion Transnorthion	O Education, Education K - 17 K - 17	O Law Enforcement Law Enforcement Dolice Dolice	O NGO NGO Private Private Private		O NGO, NGO, FINALE, FINALE O NGO MGO FILITE FILITE		U Emergency Services, Emergency Services, Private, Private	U Medical, Medical, Medical Uttices, Medical Uttices O Modical Madical Medical Official Official Official	u Ivreulcal, weakal, ivreakal uritee, ivreakal uritees A law Enforcement law Enformament Doline Doline	O Government Government City Hull City Leil	u guvermment, buverment, ury Hall, ury Hall D. Government, Government, Wister/Server Mister/Server	0 Government Government Water/Jewer, Water/Jewer		0 Government, Government, Transportation, Transportation	0 Government, Government, Transportation, Transportation	0 NGO, NGO, Private, Private	0 Emergency Services, Emergency Services, Communications, Communications	0 NGO, NGO, Private, Private
		2017					2017						2017	2017	2017	2017	2017	1102	2102	2017	2017	2017	2017	2017	2017	2017	2017								2017	1102	/102	/TO7		2017	2017			
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2017	2017	2017	2017	2017	2017	2017	/107	2017	2017	2017	2017	2017	2017	2017	2100	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	1017	2 TU2	/102	/102	/102	/T07	100	1102	1102	1707	2017	2017	2017	2017	2017
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Georgia GA DHR DFACS	Coastal Pines Adult Ed.	Charlton County Commission Offices	Charlton County Storage Building OERC	Koberson Daycare				McKinney Community Health Center	Visiting Nurses	Charlton County 911	Folkston Park Care And Rehabilitation	U.F. Health	Charlton County BOE-Folkston Elementary School	Charlton County BOE-Bethune Middle School	City of Folkston Water System-Burnhfort Road	Prison Lift Station	U.S. 301 N Lift Station	Pinewnord Streast Lift Station	Main Street Lift Station	Paxton Road Lift Station	Overpass Lift Station	Okefenokee Drive Lift Station	Henri Street Lift Station	Charlton County BOF Administration	Charlton County BOE- Alternative School	Charlton County BOE-Bus Shon	Charlton County BOE-Maintenance	Folkston Police Denartment	Georgia Power Substation	OPEMC Florthic Substantion #1	Concerted Centros	CONCENTED OF NICES	Amolia Canacti	Antena Care Satilla Community, Sanica Canter	Journal Continuation of New Centres Homeland Politice Denartment	City of Homeland City Hall	City of Homeland Water System	City of Homeland Waterline System			City of Homeland Road Dept.	Pinevillage Campground	Commercial Radio Tower	OREMC Electric Substation 3
Folkston city	Folkston city	Folkston city	Folkston city	Folkston city					Folkston city	Folkston city	Folkston city	Fołkston city	Folkston city	Folkston city	Folkston city	Folkston city	Folkston city	Folkston city	Folkston city	Folkston city	Folkston city	Folkston city	Folkston city	Folkston city	Folkston city	Folkston city	Folkston city	Folkston city	Folkston city	Folketon city	Follecton city	Follocton city	Follotion city	Homeland rity	Homeland city	Homeland city	Homeland city	Homeland rity		Homeland city	Homeland city	Homeland city	Homeland city	Homeland city

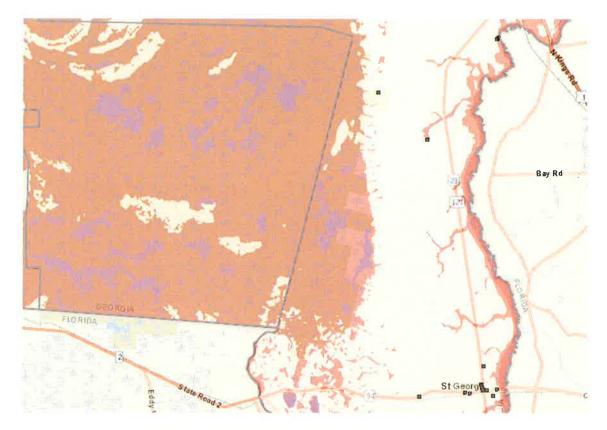


CHARLTON COUNTY PDM GEMA FLOOD HAZARD MAP

The flood hazard scores are derived from the FEMA Q3 "Zone" values. The Q3 layer is derived from the FEMA paper flood insurance rate maps. Although the resolution is 1:24,000, which has an allowable error of 40 feet, FEMA recommends using 250 feet as the potential error. This layer cannot be used for a legal flood determination



#### Hazard - GEMA.flood



#### CHARLTON COUNTY PDM GEMA FLOOD HAZARD MAP

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#### Hazard - GEMA.flood



<all other values>

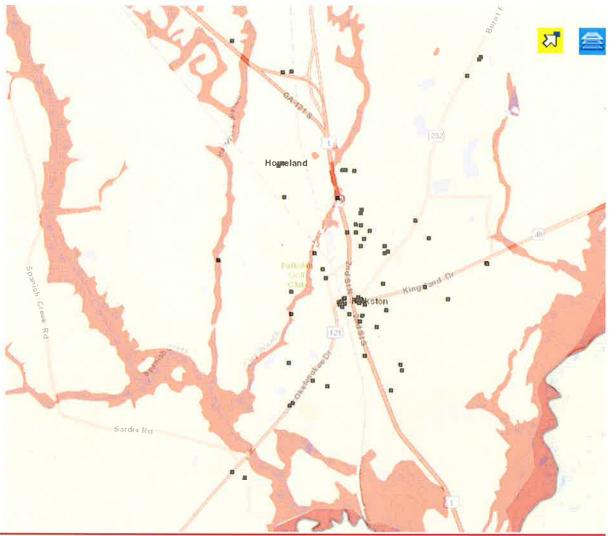


#### CHARLTON COUNTY PDM GEMA FLOOD HAZARD MAP

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#### Hazard - GEMA.flood

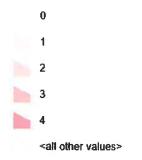


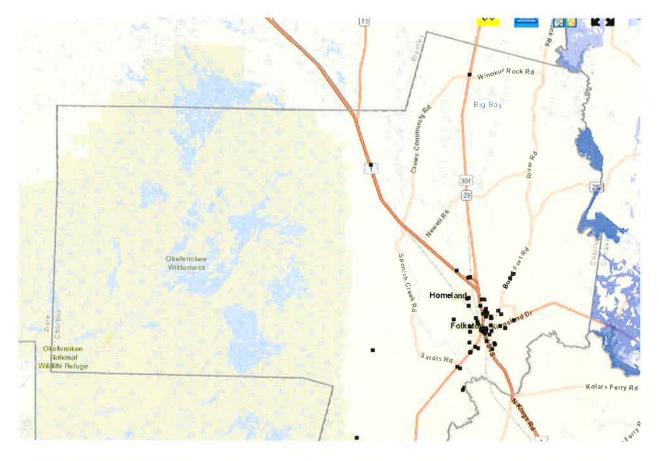


CITIES OF FOLKSTON AND HOMELAND PDM GEMA FLOOD HAZARD MAP

The flood hazard scores are derived from the FEMA Q3 "Zone" values. The Q3 layer is derived from the FEMA paper flood insurance rate maps. Although the resolution is 1:24,000, which has an allowable error of 40 feet, FEMA recommends using 250 feet as the potential error. This layer cannot be used for a legal flood determination

#### Hazard - GEMA.flood

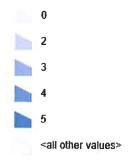




# CHARLTON COUNTY & CITIES OF FOLKSTON AND HOMELAND PDM GEMA SLOSH HAZARD MAP

The Sea, Lake and Overland Surges from Hurricanes (SLOSH) is a computerized model to estimate storm surge heights and winds resulting from historical, hypothetical, or predicted hurricanes by taking into account pressure, size, forward speed, track, and wind speed from a storm. This layer represents the SLOSH results from a hypothetical event, showing SLOSH inundation areas for each category in the Saffir-Simpson Hurricane Scale. The areas inundated by a category 4 or category 5 storm surge have been combined to reflect their decreased probability of occurrence. The horizontal positional accuracy is unknown for this layer.

#### Hazard - GEMA.slosh



#### Search Results for CHARLTON COUNTY ALL JURISDICTIONS

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Effective Products (45) 😵

FIRM Panels (40)

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Show 100

entries

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Previous1Next

Product ID	Effective Date	LOMC	Size	Download	View
13049CINDOB	07/07/2014	1	1MB	₽DL	QVIEW
13049C0025C	09/25/2009		35MB	₽DL	
13049C0050C	09/25/2009		67MB	₽DL	
13049C0075C	09/25/2009	● LOMC	61MB	₽DL	
13049C0100C	09/25/2009		116MB	<b>⇔</b> DL	
13049C0125D	07/07/2014		30MB	₽DL	
13049C0150C	09/25/2009		70MB	⇔DL	
13049C0175C	09/25/2009		126MB	⇔DL	
13049C0200C	09/25/2009		119MB	OL	
13049C0225D	07/07/2014		31MB	₽DL	QVIEW

Product ID	Effective Date	LOMC	Size	Download	View
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13049C0275C	09/25/2009		75MB	₽DL	
13049C0300C	09/25/2009		133MB	€DL	
13049C0325C	09/25/2009		121MB	€DL	
13049C0335D	07/07/2014		28MB	€DL	VIEW
13049C0345D	07/07/2014		28MB	⇔DL	
13049C0350D	07/07/2014		18MB	₽DL	
13049C0355D	07/07/2014		28MB	₽DL	
13049C0360D	07/07/2014		28MB	€DL	QVIEW
13049C0365D	07/07/2014		28MB	₽DL	VIEW
13049C0400C	09/25/2009		101MB	⇔DL	
13049C0410D	07/07/2014		28MB	⇔DL	
13049C0420D	07/07/2014		28MB	€DL	VIEW
13049C0425D	07/07/2014		17MB	€DL	VIEW
13049C0430C	09/25/2009		71MB	₽DL	
13049C0440C	09/25/2009		68MB	⇔DL	
13049C0450C	09/25/2009		74MB	<b>⇔</b> DL	VIEW
L3049C0460D	07/07/2014		28MB	⇔DL	
13049C0470D	07/07/2014		28MB	⇔DL	

Product ID	Effective Date	LOMC	Size	Down	load	View
13049C0475D	07/07/2014	1	17MB	↓ ⇔DL		
13049C0480C	09/25/2009	. LOMC	62MB	⇔DL		
13049C0485C	09/25/2009		75MB	<b>⇔</b> DL		
13049C0490C	09/25/2009		55MB	⇔DL		
13049C0495C	09/25/2009		70MB	⇔DL		
13049C0510D	07/07/2014		28MB	₽DL		
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13049C0525D	07/07/2014		17MB	⇔DL		
13049C0535C	09/25/2009		61MB	₽DL		
13049C0555C	09/25/2009		61MB	⇔DL		
13049C0560D	07/07/2014		27MB	⇔DL		
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Product ID	Effectiv	e Date	Size	e	Downloa	d
13049CV000B	07/07/2	2014	1M	В	<sup>↓</sup> ↔ DL	
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Showing 1 to 1 of 1 entries

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Product ID		Effective Date D	ownload	
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Product ID		Effective Date D	ownload	
08-04-5776V-130292		09/26/2009	DL	
NFHL Data-State (1)				
Product ID	Latest Study Effective Da	ate Latest LOMR Effective Date	Size	Download
NFHL_13_20171204	11/17/2017	12/04/2017	898MB	₽DL
NFHL Data-County (1)				
Product ID Late	est Study Effective Date	Latest LOMR Effective Date	Size	Download
NFHL_13049C 07/	07/2014	N/A	17MB	₽DL
Preliminary Products (	0) 🚱			

Preliminary FIRM Panels

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Preliminary FIS Reports

Preliminary FIRM Database

Pending Product (0) 📀

FIRM Panels (0) <sup>CDL ALL</sup>

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FIRM Database (0)					
Product ID	Effective Date	Description		Size	Download
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FIRM Panels (61)

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# Show <sup>100</sup> – entries

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Product ID	Effective Date	LOMC	Size	Download	View	
13049CIND0A	09/25/2009		1MB	₽DL		_1
13049CIND0	09/21/1998		1MB	₽DL		
130291	04/11/1975		1MB	QDL		
130292	05/14/1976		1MB	₽DL		
130290	08/08/1975		1MB	⇔DL		
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13049C0075B	09/21/1998		1MB	⇔DL		
13049C0100B	09/21/1998		1MB	₽DL		
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13049C0125C	09/25/2009		64MB	⇔DL		
13049C0150B	09/21/1998		3MB	⇔DL	VIEW	
13049C0175B	09/21/1998		9MB	₽DL	VIEW	
13049C0200B	09/21/1998	♦ LOMC	8MB	₽DL		
13049C0225B	09/21/1998		ЗМВ	<b>₽</b> DL		
13049C0225C	09/25/2009		118MB	₽DL		

Product ID	Effective Date	LOMC	Size	Download	View
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13049C0300B	09/21/1998		5MB	⇔DL	
13049C0325B	09/21/1998		6MB	⇔DL	
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13049C0345C	09/25/2009		66MB	⇔DL	QVIEW
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13049C0355C	09/25/2009	♦ LOMC	66MB	⇔DL	
13049C0360B	09/21/1998		2MB	₽DL	
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13049C0365B	09/21/1998		1MB	⇔DL	<b>Q</b> VIEW
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13049C0400B	09/21/1998		3MB	₽DL	
13049C0410B	09/21/1998		2MB	⇔DL	QVIEW
13049C0410C	09/25/2009		64MB	⇔DL	

Product ID	Effective Date	LOMC	Size	Download	View
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13049C0420C	09/25/2009		74MB	⇔DL	
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03-04-8404A-130292		07/31/2003	₽DL	-1
06-04-BK55A-130292		06/15/2006	⇔DL	
08-04-4663A-130292		09/25/2008	₽DL	
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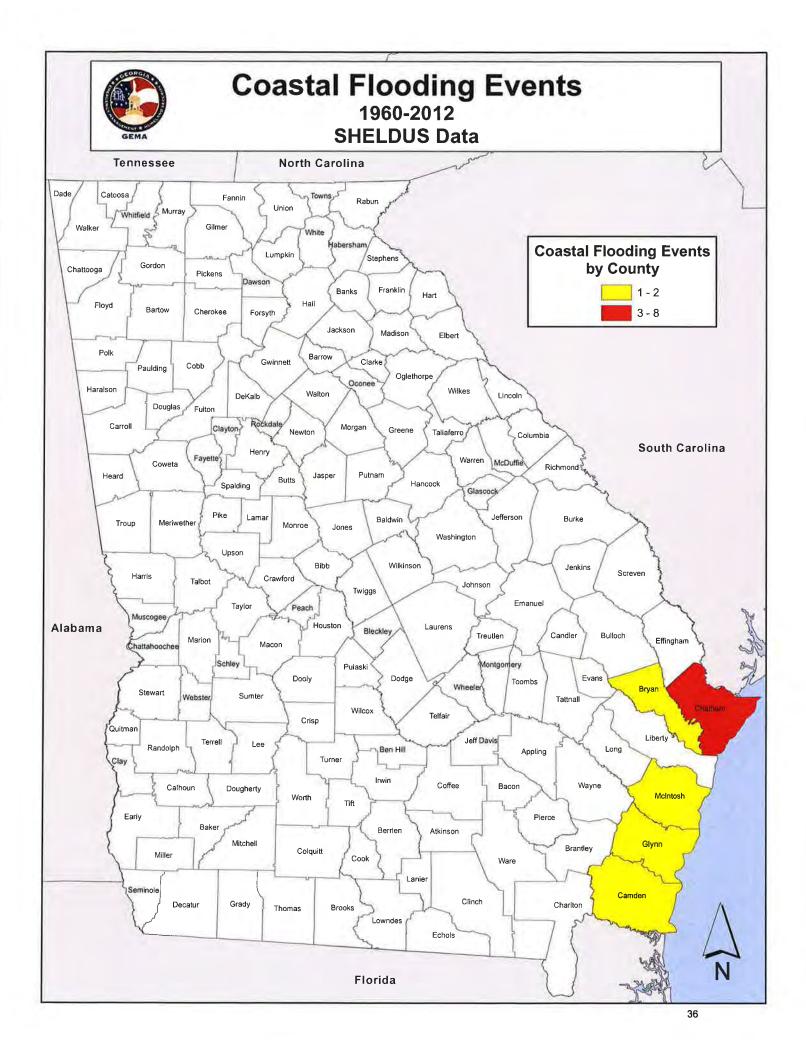
Flood Risk Products (0)

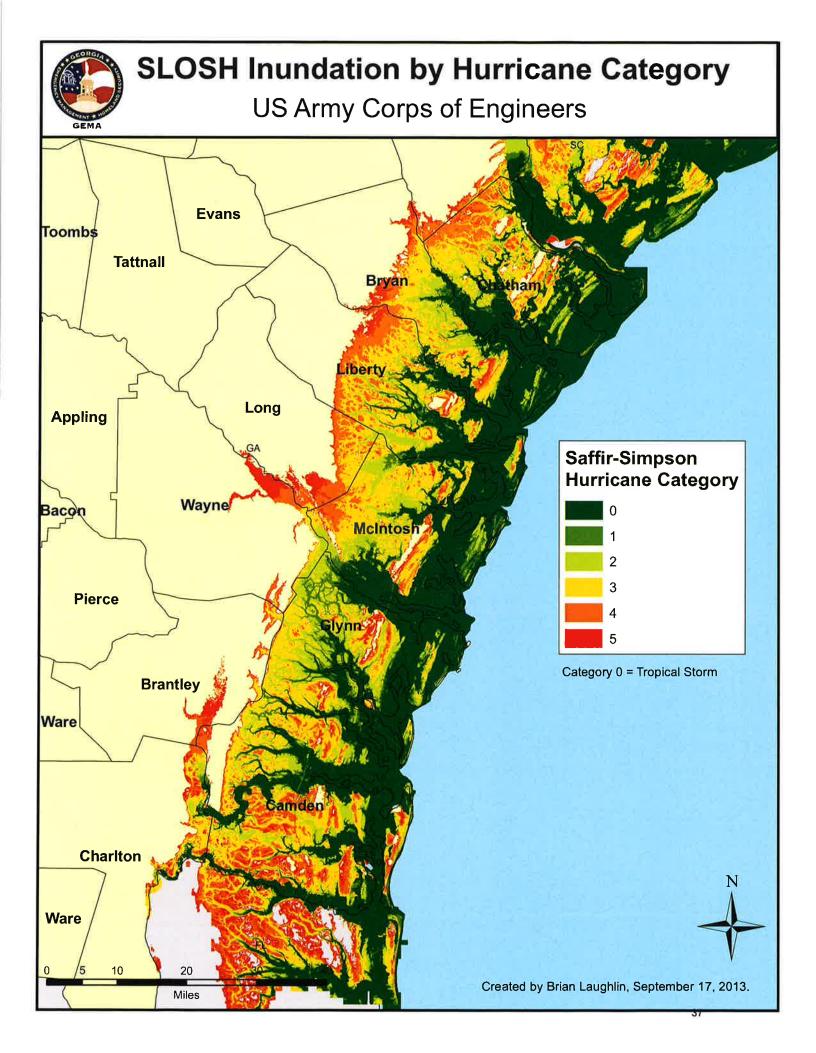
Please note: Flood Risk Products have purposes that are different from regulatory flood hazard products (i.e., FIRM, FIS Report, and FIRM Database). Regulatory flood hazard products are mandated by law and used by the National Flood Insurance Program (NFIP) for rating flood insurance policies and enforcing the federal mandatory insurance purchase requirements. Flood Risk Products are supplementary resources for communicating flood risk to communities and may not entirely align with the regulatory flood maps. The information in these products reflect what was produced by the FEMA Risk MAP study in that area. Depending on the requirements of the study, the Flood Risk Products available for your community may consist of a Flood Risk Map, Flood Risk Report or Flood Risk Database.

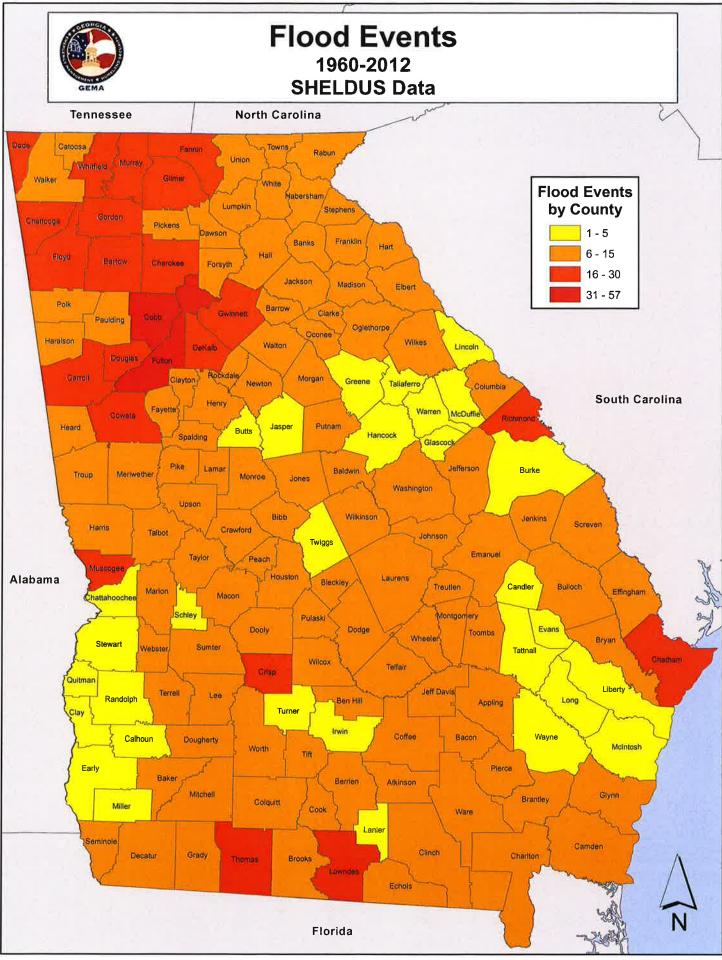
Flood Risk Maps

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#### III. Wildfire

- A. Wildfire Hazard Description Wildfire is an uncontrolled fire spreading through vegetative fuels, exposing and possibly consuming structures. Naturally occurring and non-native species of grasses, brush, and trees fuel the spread of wildfires. When a residential area, be it a single home or entire subdivision, comes in contact with an area containing vegetative fuels, such as a forest or other wooded area, this is referred to as a wildland urban interface area. These are areas at greatest risk for property damage due to wildfire. Because a large portion of Charlton County's forested land is planted and harvested as a crop, wildfire in Charlton County also poses a significant risk of economic loss in addition to any potential property losses.
- B. Data Worksheet 3A, GEMA Critical Facility Inventory Report, Maps, Etc.

# GEMA Worksheet #3a Inventory of Assets Jurisdiction: Charlton County (Unincorporated) Hazard: Wildfire

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.

and the second second	Nt	mber of Struct	ures	1	Value of Structures	1	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	2,941	2,706	92.010%	241,162,000	221,892,000	92.010%	6,789	6,247	92%				
Commercial	179	165	92.179%	3,991,863	3,679,650	92,179%	0	0	#DIV/0!				
Industrial	23	21	91.304%	1,903,190	1,737,695	91.304%	0	0	#DIV/0!				
Agricultural	508	467	91.929%	21,183,593	19,473,894	91.929%	0	0	#DIV/0!				
Religious/ Non- profit	174	160	91.954%	6,794,260	6,247,595	91.954%	0	0	#DIV/0!				
Government	82	75	91.463%	70,695,690	64,660,692	91.463%	0	0	#DIV/0!				
Education	13	12	92.308%	1,123,803	1,037,357	92.308%	0	0	#DIV/01				
Utilities	17	16	94.118%	76,248,407	71,763,207	94.118%	0	0	#DIV/0!				
Total	3,937	3.622	91.999%	423,102 806	390,492,090	92.292%	6.789	6,247	92%				

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

# **Inventory of Assets**

**GEMA Worksheet #3a** Jurisdiction: City of Folkston Hazard: Wildfire

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.

	NI	imber of Struct	ures	1	alue of Structures	N	lumber of Peopl	6	
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	1,160	360	31.034%	95,120,000	29,520,000	31.034%	5,313	1,649	31%
Commercial	465	144	30,968%	87,785,600	27,185,218	30.968%	0	0	#DIV/0!
Industrial	35	11	31.429%	4,619,400	1,451,811	31.429%	0	0	#DIV/01
Agricultural	1	0	0.000%	26,100	0	0.000%	0	0	#DIV/01
Religious/ Non- profit	74	23	31.081%	8,415,358	2,615,584	31.081%	0	0	#DIV/01
Government	59	18	30.508%	14,663,830	4,473,711	30,508%	0	0	#DIV/01
Education	10	3	30.000%	8,302,080	2,490,624	30.000%	0	0	#DIV/01
Utilities	12	4	33,333%	9,665,763	3,221,921	33.333%	0	0	#DIV/0!
fotal	1,816	563	31.002%	228,598,131	70,958,870	31.041%	5,313	1,649	31%

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

# **Inventory of Assets**

**GEMA Worksheet #3a** Jurisdiction: City of Homeland Hazard: Wildfire

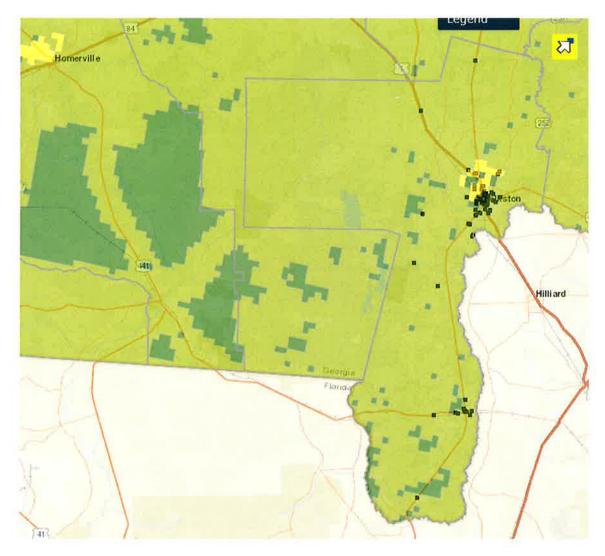
Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

Summer 1	NL	imber of Struct	ures	))	/alue 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	335	335	100.000%	27,470,000	27,470,000	100.000%	1,028	1,028	100%				
Commercial	39	39	100,000%	817,565	817,565	100.000%	0	0	#D1V/0!				
Industrial	0	0	0.000%	0	0	0.000%	0	0	#DIV/0!				
Agricultural	5	5	100.000%	310,400	310,400	100.000%	0	0	#DIV/0!				
Religious/ Non- profit	30	30	100.000%	923,830	923,830	100.000%	0	0	#DIV/0!				
Government	40	40	100.000%	942,443	942,443	100.000%	0	0	#DIV/0!				
Education	0	0	0.000%	0	0	0.000%	0	0	#DIV/0!				
Utilities	10	10	100.000%	3,426,565	3,426,565	100.000%	0	0	#DIV/0!				
Total	459	459	100.000%	33,890,803	33,890,803	100.000%	1,028	1,028	100%				

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

Transmist         1         0	Transmit         1         0<	Junsdiction Name Charlton County CHESS	ER ISLAND ROAD LANDFILL, INC, MSWL	Hazard Score Value	300000		2017 1000		0	0 Government, Government, Landfill, Landfill	Important
Construction         Image         Construction         Image         Construction         <	Control         1         0000 <th< td=""><td>Charlton County Thoma</td><td>las Camp Lift Station</td><td>-</td><td>30000</td><td>2017</td><td>100</td><td>100000</td><td>2017</td><td>0 Government, Government, Water/Sewer, Water/Sewer</td><td>Lifeline</td></th<>	Charlton County Thoma	las Camp Lift Station	-	30000	2017	100	100000	2017	0 Government, Government, Water/Sewer, Water/Sewer	Lifeline
Control         Control <t< td=""><td>Control         Control         <t< td=""><td>Charlton County Pinehu</td><td>wrst Subdivision Lift Station</td><td>T</td><td>30000</td><td>2017</td><td>100</td><td>100000</td><td>2017</td><td>0 Government, Government, Water/Sewer, Water/Sewer</td><td>Lifeline</td></t<></td></t<>	Control         Control <t< td=""><td>Charlton County Pinehu</td><td>wrst Subdivision Lift Station</td><td>T</td><td>30000</td><td>2017</td><td>100</td><td>100000</td><td>2017</td><td>0 Government, Government, Water/Sewer, Water/Sewer</td><td>Lifeline</td></t<>	Charlton County Pinehu	wrst Subdivision Lift Station	T	30000	2017	100	100000	2017	0 Government, Government, Water/Sewer, Water/Sewer	Lifeline
Constrained         Image         Constrained         Constrained           Constrained         Image         Constrained         Image         Constrained         Constrained           Constrained         Image         Image <td>Constrained         E         Constrained         E         Constra</td> <td></td> <td>of Folkston Water Systen-Homeland</td> <td>2</td> <td>750000</td> <td>2017</td> <td>201</td> <td>53350</td> <td>2017</td> <td>0 Government, Government, Water/Sewer, Water/Sewer</td> <td>Essential, Lifeline</td>	Constrained         E         Constra		of Folkston Water Systen-Homeland	2	750000	2017	201	53350	2017	0 Government, Government, Water/Sewer, Water/Sewer	Essential, Lifeline
Construction         Construction<			AC Electric Substation #2	-	3080000	2017	100			0 NGO, NGO, Private, Private	Lifeline
Network         Network <t< td=""><td></td><td></td><td>ton County EMS 22140</td><td></td><td>0</td><td>2017</td><td>0</td><td></td><td></td><td>0 Emergency Services, Emergency Services, EMS, EMS</td><td>Essential</td></t<>			ton County EMS 22140		0	2017	0			0 Emergency Services, Emergency Services, EMS, EMS	Essential
No.         No. <td>Control         Control         <t< td=""><td></td><td>Pinckney Baptist Church</td><td>-</td><td>4500000</td><td>2017</td><td>15000</td><td></td><td></td><td>0 Emergency Services, Emergency Services, Private, Private</td><td>Essential</td></t<></td>	Control         Control <t< td=""><td></td><td>Pinckney Baptist Church</td><td>-</td><td>4500000</td><td>2017</td><td>15000</td><td></td><td></td><td>0 Emergency Services, Emergency Services, Private, Private</td><td>Essential</td></t<>		Pinckney Baptist Church	-	4500000	2017	15000			0 Emergency Services, Emergency Services, Private, Private	Essential
Notice         Notic         Notic         Notic <td>Not         Not         Not<td></td><td>eorge Church of God</td><td></td><td>534/500</td><td>/102</td><td>1/8/5</td><td></td><td></td><td>U Emergency Services, Emergency Services, Private</td><td>Essential</td></td>	Not         Not <td></td> <td>eorge Church of God</td> <td></td> <td>534/500</td> <td>/102</td> <td>1/8/5</td> <td></td> <td></td> <td>U Emergency Services, Emergency Services, Private</td> <td>Essential</td>		eorge Church of God		534/500	/102	1/8/5			U Emergency Services, Emergency Services, Private	Essential
All with a state of the stat	Control         Control <t< td=""><td></td><td>tion Lounty koad bept. St. George</td><td></td><td>700000</td><td>707</td><td>001</td><td></td><td></td><td></td><td>to the second second</td></t<>		tion Lounty koad bept. St. George		700000	707	001				to the second
Control         Control <t< td=""><td>No.         No.         No.<td></td><td>erted Services Head Start</td><td>-</td><td>1920000</td><td>2017</td><td>6400</td><td></td><td></td><td>U Education, Education, Day Care, Day Care</td><td></td></td></t<>	No.         No. <td></td> <td>erted Services Head Start</td> <td>-</td> <td>1920000</td> <td>2017</td> <td>6400</td> <td></td> <td></td> <td>U Education, Education, Day Care, Day Care</td> <td></td>		erted Services Head Start	-	1920000	2017	6400			U Education, Education, Day Care, Day Care	
Kur k	Ku		Life Baptist Church	-	2805000	7107	0356			U Emergency Services, Emergency Services, Private, Private	Essential
Biotrophysic         E         Controphysic	Biology         Biology <t< td=""><td></td><td>252 Lift Station</td><td>-</td><td>30000</td><td>2017</td><td>100</td><td>10000</td><td>7102</td><td>0 Government, Government, Water/Sewer, Water/Sewer</td><td>LITELINE</td></t<>		252 Lift Station	-	30000	2017	100	10000	7102	0 Government, Government, Water/Sewer, Water/Sewer	LITELINE
Constrained         Constrained <thconstrained< th=""> <thconstrained< th=""></thconstrained<></thconstrained<>	Experiment         Experimant         Experimant         Experim		land Drive Lift Station		30000	2017	100	100000	2017	0 Government, Government, Water/Sewer, Water/Sewer	Lifeline
Classical         I         Constraint         I         Constraint         Constraint </td <td>Cyclerent (a)         Cyclerent (a)         Cycleren</td> <td></td> <td>gia Power Substation</td> <td>2</td> <td>7500000</td> <td>2017</td> <td>100</td> <td></td> <td></td> <td>0 Government, Government, Water/Sewer, Water/Sewer</td> <td>Lifeline</td>	Cyclerent (a)         Cycleren		gia Power Substation	2	7500000	2017	100			0 Government, Government, Water/Sewer, Water/Sewer	Lifeline
Construction         1         2000	Construction         1         Construction         1         Construction         Const		sorge Pump House	-	45000	2017	150	30000	2017	0 Government, Government, Water/Sewer, Water/Sewer	Lifeline
Test In the Unit of	Tech (F) With we have a proper base of the prop		ton County EMS Station #2-St. George	1	291000	2017	026	22000	2017	0 Emergency Services, Emergency Services, EMS, EMS	Essential
Control for the function of the control of	Optimization         1         20000         2000         2000		ers Hill Pump House	Ч	30000	2017	100	30000	2017	0 Government, Government, Water/Sewer, Water/Sewer	Lifeline
Constrained         1         0000         000         0000         00000         000000         000000000000000000000000000000000000	Notice         1         0000         0000         00000         000000         0000000         000000000000         000000000000000         0000000000000000000000000         000000000000000000000000000000000000		ton County Antenna Repeater #3	1	350000	2017	100			0 Emergency Services, Emergency Services, Communications, Communications	Essential, Lifeline
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Grig Grig Criteria         1         2000         200         1         2000         2000         10000         1000         1000	Constraint         Constra		ton County Transfer Station	1	702000	2017	2340			0 NGO, NGO, Landfill, Landfill	Important
Operation         Display	Operation         Display		via GFC Forestry Commission-St. George	1	150000	2017	100			0 Emergency Services, Emergency Services, Fire Fighters, Fire Fighters	Essential
C. Warding and Manual And	(1) With a manufactor		sia GFC Forestru Gouren Tower		15000	2017	100			0 Emergency Services Emergency Services Fire Fighters, Fire Fighters	Essential
Orient Constraint         Constraint <thc< td=""><td>Current contraction         Exception         Current contraction         <t< td=""><td></td><td>sia di cu dicata y dovera tover 144 constra Olosfonalica Bastran</td><td>ۍ <del>،</del></td><td></td><td>2012</td><td>267E</td><td></td><td></td><td>O tau Enfortement Law Enforcement Doline Doline</td><td>Feential</td></t<></td></thc<>	Current contraction         Exception         Current contraction         Current contraction <t< td=""><td></td><td>sia di cu dicata y dovera tover 144 constra Olosfonalica Bastran</td><td>ۍ <del>،</del></td><td></td><td>2012</td><td>267E</td><td></td><td></td><td>O tau Enfortement Law Enforcement Doline Doline</td><td>Feential</td></t<>		sia di cu dicata y dovera tover 144 constra Olosfonalica Bastran	ۍ <del>،</del>		2012	267E			O tau Enfortement Law Enforcement Doline Doline	Feential
Operation         Description         Description         Description         Description           or distribution         1         2000<	Operation         Description         Description         Description         Description           Construction         1         Construction         1         Construction         1           Construction         1         Construction         Construction         Construction         1           Construction         1         Construction         Construction         Construction         1           Construction<				2002200	/102	0001	111000	L+0C	O Government Gevernment Transporterio Transportation	Econtial Transmittation
Control         Control <t< td=""><td>Not         Not         Not<td></td><td>tton County Maintenance Shop</td><td></td><td>240000</td><td>/107</td><td>1800</td><td>1000TTT</td><td>/TN7</td><td></td><td>Essential, Iransportation</td></td></t<>	Not         Not <td></td> <td>tton County Maintenance Shop</td> <td></td> <td>240000</td> <td>/107</td> <td>1800</td> <td>1000TTT</td> <td>/TN7</td> <td></td> <td>Essential, Iransportation</td>		tton County Maintenance Shop		240000	/107	1800	1000TTT	/TN7		Essential, Iransportation
Control         Control <t< td=""><td>Control         Control         <t< td=""><td></td><td>gia GDOT Transportation Maintenance Facility</td><td>-</td><td>6/5000</td><td>2017</td><td>2250</td><td></td><td></td><td></td><td>Essential, Iransportation</td></t<></td></t<>	Control         Control <t< td=""><td></td><td>gia GDOT Transportation Maintenance Facility</td><td>-</td><td>6/5000</td><td>2017</td><td>2250</td><td></td><td></td><td></td><td>Essential, Iransportation</td></t<>		gia GDOT Transportation Maintenance Facility	-	6/5000	2017	2250				Essential, Iransportation
And the state of the	Control         Control <t< td=""><td></td><td>er's Hill Recreation Area</td><td></td><td>21/500</td><td>/107</td><td>47/</td><td></td><td></td><td>u bavemment, bovernment, bovernment umdes, bovernment umdes</td><td>Freedoric Consideration, Ini</td></t<>		er's Hill Recreation Area		21/500	/107	47/			u bavemment, bovernment, bovernment umdes, bovernment umdes	Freedoric Consideration, Ini
Official Constraint         1         300         301           Official Constraint         1         300         301         301           Official Constraint         1         300         301         301         301           Official Constraint         1         300         301         301         301         301         301           Official Constraint         1         300         301	Matrix for the form         Matrix form         Matrix form         Matrix form         Matrix form           Matrix form         1         3000         000         300         000		gia GA Forestry Commission GFC	1	660000	/102	7200			u Emergency services, Emergency services, Fire Figurers, Fire Figurers	Essential
Optimization         0         3000         300         400 <th< td=""><td>Optimization         0         3000         300         <th< td=""><td></td><td>MC Radio Tower</td><td>'n</td><td>350000</td><td>2017</td><td>100</td><td></td><td></td><td>0 Emergency Services, Emergency Services, Communications, Communications</td><td>Essential, Lifeline</td></th<></td></th<>	Optimization         0         3000         300 <th< td=""><td></td><td>MC Radio Tower</td><td>'n</td><td>350000</td><td>2017</td><td>100</td><td></td><td></td><td>0 Emergency Services, Emergency Services, Communications, Communications</td><td>Essential, Lifeline</td></th<>		MC Radio Tower	'n	350000	2017	100			0 Emergency Services, Emergency Services, Communications, Communications	Essential, Lifeline
Characterization         Image: 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	Charlo Control (Control (		ton Maintenance/Electrical Shop	D	297000	2017	1990			0 Government, Government, Transportation, Transportation	Important
Characterization         1         3000         301         301         1000         301         10000         1000         10000	Chronic Gurry Manna Maellow         1         3000         101           Chronic Gurry Maellow         1         1         3000         101         1           Chronic Gurry Maellow         1	6.	tton County BOE: St., George Elementary	41	7227000	2017	24090	464000	2017	0 Education, Education, K - 12, K - 12	Vulnerable Population
Characterization         1         2000         201         300           Characterization         1         2000         201         300         1000000, 1.1.1, 1.1.1           Characterization         1         2000         200         200         100000, 1.1.1, 1.1.1           Characterization         1         2000         200         100000, 1.1.1, 1.1.1         100000, 1.1.1, 1.1.1           Characterization         1         2000         2000         2000         100000, 1.	Charter Control Holding         1         2000         201         300           Charter Control Holding         1         2000         201         300         201         1000         201         1000 </td <td></td> <td>ton County Antenna Repeater #2</td> <td>1</td> <td>350000</td> <td>2017</td> <td>100</td> <td></td> <td></td> <td>0 Emergency Services, Emergency Services, Communications, Communications</td> <td>Essential, Lifeline</td>		ton County Antenna Repeater #2	1	350000	2017	100			0 Emergency Services, Emergency Services, Communications, Communications	Essential, Lifeline
Chronic Manual Control Manual Contro Manual Contro Manual Control Manual Control Manual	Characterization         1         20000         201         300         Construction         Construction <td></td> <td>ton County Christian Academy</td> <td></td> <td>540000</td> <td>2017</td> <td>1800</td> <td></td> <td></td> <td>0 Education, Education, K - 12, K - 12</td> <td>Important, Vulnerable Pop</td>		ton County Christian Academy		540000	2017	1800			0 Education, Education, K - 12, K - 12	Important, Vulnerable Pop
Outform County 15 States 16 Modim         1         2000         2010         Chargeno 5 States, Interprised 5 Modis,	Other Constraint         1         2000         2010         Other Constraint         Effective Constraint           Outher Constry 15 density         1         2000         2010         0         Engenoly 5 density. Filter Englatus: Filter		ton County Airport Davis Field	1	150000	2017	800			0 Government, Government, Transportation, Transportation	Essential, Transportation
Other County 15 Station 1         1         2000         2010         0.00         2010         0.00         2010         0.00         0.00000         0.00000         0.00000         0.00000         0.00000         0.00000         0.00000         0.00000         0.00000         0.00000         0.00000         0.00000         0.00000         0.00000         0.00000         0.00000         0.00000         0.000000         0.000000         0.000000         0.000000         0.000000         0.00	Outfort Conney (3) Statuti 3, 1 and (3)		ton County FD Station #5 Winokur	1	720000	2017	2400	50000	2017	0 Emergency Services, Emergency Services, Fire Fighters, Fire Fighters	Essential
Onthin County Fit Sharium XI, S	Onthree County Fit National State (Kending)         1         3,000         2011         0.000         2011         0.0000         0.001		ton County FD Station #3 Racepond	L	525000	2017	1750	20000	2017	0 Emergency Services, Emergency Services, Fire Fighters, Fire Fighters	Essential
Onthonic financi financ	Other for formania for individual indina individual individual in	-	ton County FD Station #2 St. George	1	1467000	2017	4890	57000	2017	0 Emergency Services, Emergency Services, Fire Fighters, Fire Fighters	Essential
Out         Out         Out         Display         Community (community function)           A)         Out         0         0000         001         0	Optic Federation         0         000000         0011         000000000000000000000000000000000000		fron County Fire Department Station #4 GA Bend	1	360000	2017	1200	10000	2017	0 Emergency Services. Emergency Services. Fire Fighters, Fire Fighters	Essential
All         Transmission	All         Endemonia         1         7,700         2		Stealbeton Boowline Castor		1080000	2017	3600	1000	2017	0 Government Government Landfill Landfill	Important
Matrix         Survey         Matrix         Matrix<	Mail         Cardio control (MA)         1         2000				DODDOT	/102		OODT	/ 7 / 7		Withorship Boordation
U.S. 301 k (h) false       Distribution	1       2       2000       2011       0       0000       2011       0       0000       2011       0       0000       2011       0       0000       2011       0       0000       2011       0       0000       2011       0       0000       2011       0       0000       2011       0	(1-1)		4	6/787700	1107	47767	1367350			
(J. 301)	I. S. Solution         Solution         Solution         Solution         Solution         Solution         Solution         Water Speece, Water Speece           Mon Streat IIF Station         1         3000         2017         100         2007         0         Communet, Water Speece, Water Speece           Mon Streat IIF Station         1         3000         2017         100         2000         2017         0         Communet, Water Speece           Demonstrating Station         0         3000         2017         100         2000         2017         Communet, Water Speece           Demonstrating Station         0         3000         2017         100         2000         2017         Communet, Water Speece           Demonstrating Station         0         3000         2017         100         2000         2017         Communet, Water Speece           Demonstrating Station         0         3000         2017         100         2000         2017         Communet, Water Speece           Demonstrating Station         0         3000         2017         200         2001         Communet, Water Speece           Demonstrating Station         0         3000         2017         200         2001         2001         2001	la come -									
Memoral Street III Station         1         3000         3011         0.000         2011         2010         2000         2011         2000         2011         2010         2000         2011         2010         2010         2011         2010         2010         2011         2010         2010         2011         2010	Menosoli Stret IN Salon         1         2000         2017         100         0000         2017         0000         0010 </td <td></td> <td>301 N Lift Station</td> <td>2</td> <td>30000</td> <td>2017</td> <td>100</td> <td>10000</td> <td>2017</td> <td>0 Government. Government. Water/Sewer, Water/Sewer</td> <td>Lifeline</td>		301 N Lift Station	2	30000	2017	100	10000	2017	0 Government. Government. Water/Sewer, Water/Sewer	Lifeline
Min Street His Station         0         3000         3011         100         3000         2011         0.000         2011         0.000         2011         0.0000         2011         0.0000         2011         0.0000         2011         0.0000         2011         0.0000         2011         0.0000         2011         0.0000         2011         0.0000         2011         0.0000         2011         0.00000         2011         0.00000         2011         0.00000         2011         0.00000         2011         0.00000         2011         0.00000         2011         0.00000         2011         0.000000         2011         0.00000         2011         0.00000         2011         0.00000         2011         0.00000         2011         0.00000         2011         0.00000         2011         0.00000         2011         0.00000         2011         0.00000         2011         0.000000         2011         0.00000         2011         0.00000         2011         0.000000         2011         0.0000000000         2011         0.00000000000000000000000000000000000	Min Stream         Description         Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>					1102	8	100000	2100	0 Government Government Wister/Sewer Wister/Sewer	lifeline
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Tattor         Description         2000         2011         2000         2011         0.000         2011         0.000         2011         0.000         2011         0.00000         2011         0.00000         2011         0.000000000         2011         0.00000000000000000000000000000000000	Tattor Instant         0         3000         3011         0.000         3011         0.000         3011         0.000         3011         0.000         3011         0.000         3011         0.0000         0.00000 <t< td=""><td></td><td></td><td></td><td>00001</td><td>1102</td><td>01</td><td>nnnnnt</td><td>1102</td><td>O GOVERNMENT, GOVERNMENT, VYARE/JEWEL, YVARE/JEWEL O Government Covernment Motor/Covers (Motor/Cover</td><td>Lifeline</td></t<>				00001	1102	01	nnnnnt	1102	O GOVERNMENT, GOVERNMENT, VYARE/JEWEL, YVARE/JEWEL O Government Covernment Motor/Covers (Motor/Cover	Lifeline
Orderinde Divertification         0         3000         211         100         1000         211         0 orderinder for the first station           Offerindes Divertification         0         3000         2011         1000         3011         0 orderinder for the first station           Hart Street (If the first station         0         3000         2011         120         0000         2011         0 orderinder for the first station           Hart Street (If the first station         0         39500         2011         2000         2011         0 orderinder for the first station           Clarithon County BC Administration         0         39500         2011         2000         2011         124         20           Clarithon County BC Administration         0         39500         2011         212         212         212         212         212         212         212         212         212         212         212         212         214         20         2000         2011         100         1000         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12 <td>Orderinde Divertificion         0         3000         211         100         201         0 determent, overment, overtaverment, overment, overment, overment, overment, overment, overment, overment, overtaver, over, over, overtaver, over, ov</td> <td></td> <td>on koad Lin Station</td> <td></td> <td>2000</td> <td>/102</td> <td>DOT 0</td> <td>TODOOT</td> <td>/102</td> <td></td> <td></td>	Orderinde Divertificion         0         3000         211         100         201         0 determent, overment, overtaverment, overment, overment, overment, overment, overment, overment, overment, overtaver, over, over, overtaver, over, ov		on koad Lin Station		2000	/102	DOT 0	TODOOT	/102		
Deferiouse Diversition         0         3000         2011         0 Goornment, Goornment, Goornment, Goornment, Goornment, Mater/Sever           Deferious Cranry BOE Administration         1         3315000         2017         0 Goornment, Goornment, Goornment, Goornment, Mater/Sever           Charton Cranry BOE Administration         1         3315000         2017         1305         0000         2011         0 Goornment, Mater/Sever           Charton Cranry BOE Administration         1         3315000         2017         3125         0000         2017         0 Goornment, Mater/Sever         Mater/Sever           Charton Cranry BOE Administration         0         30000         2017         3125         0000         2017         0.12 Monter           Charton Cranry BOE Administration         0         30000         2017         3125         0000         2017         1.2 K. 1.2           Charton Cranry BOE Administration         0         30000         2017         2020         20000         2017         1.2 K. 1.2           Charton Cranry BOE Administration         0         30000         2017         2020         20000         2017         1.2 K. 1.2           Charton Cranry BOE Administration         0         2 Goornment, Javer/Sever, Mater/Sever, Mater/Sever, Mater/Sever, Mater/Sever, Mater/Sever, Mater/Sev	Defendere for firstein         0         3000         2011         D Government, Water/Sever, Mater/Sever           Clashto Kingletc         1         2320         2017         100         2017         1014           Clashto Kingletc         1		pass Lift Station	0	30000	/107	100	100000	/102	U GOVERNMENT, GOVERNMENT, WATER/SEWER, WATER/SEWER	ureilhe
Henri Startistion         0         30000         2017         100         2007         Construction for Government Life Soferer           Charthon Courty BOE- Alternative School         1         3355000         2017         1355         50000         2017         12	Herit Starte UK Start         0         3000         2011         Deformation         0         Government Aper Sever, Matr/Sever           Charten County 90 E Administration         1         312000         2017         312         0		enokee Drive Lift Station	0	30000	2017	100	100000	2017	0 Government, Government, Water/Sewer, Water/Sewer	Lifeline
Charditor         Curration         1         31300         2017         Of eleration, Elevation,	Offention         2017         3016         3016         3016         3016         3016         3016         3016         3016         3016         3016         3016         3016         3016         3016         3016         3016         3016         3016         3016         3016		i Street Lift Station	0	30000	2017	100	100000	2017	0 Government, Government, Water/Sewer, Water/Sewer	Lifeline
Chartfont County BCF- Alterative School         0         39400         2017         3128         6000         2017         0         Education, Fausportation, T-1, K-1, J           Chartion County BCF- Alterative School         0         1260000         2017         2017         0         Education, Education, Fausportation, Transportation, Transportation, Transportation, Transportation, Transportation, Transportation, Transportation           Chartion County BCF- Alterative School         0         32000         2017         142         0         Education, Education, Fausportation, Transportation, Transportation, Transportation, Transportation, Transportation, Transportation           Chartion County BCF- Mematrice         0         3200000         2017         100	Chartfon County DEG. Alternative School         0         934400         2017         2128         6000         2017         0         Education, Education, Tansportation, Tansportation, Tansportation, Tansportation, Tansportation, Tansportation, Tansportation, Tansportation, Tansportation           Chartfon County DEG. Alternative School         0         232000         2017         212         2000         2017         124         124         124         124         125         125         125         125         125         125         125         125         125         125         126         125         125         126         125         126		tton County BOE Administration	-	3915000	2017	13050	50000	2017	0 Education, Education, K - 12, K - 12	Important, Vulnerable Pop
Charlton County 90:Ellers Shop         0         256000         2117         200         20017         0 Education, Education, Transportation, Tr	Charlton County BCE Bus Shop         0         126000         2017         4200         9000         2017         0         Education, Transportation, Transportation, Transportation, Transportation, Transportation, Transportation, Transportation, Transportation, Tansportation, Tanstransportexanand, Tanton County Bots Baptis Church <td></td> <td>fton County BOE- Alternative School</td> <td>0</td> <td>938400</td> <td>2017</td> <td>3128</td> <td>6000</td> <td>2017</td> <td>0 Education, Education, K - 12, K - 12</td> <td>Vulnerable Population</td>		fton County BOE- Alternative School	0	938400	2017	3128	6000	2017	0 Education, Education, K - 12, K - 12	Vulnerable Population
Charlton County BCE Maintenance         0         232500         2017         9750         9500         2017         0         Education, Education, Kaucation, Kaucation	Charlton County BC-Maintenance         0         2325000         2017         712         212         0         64 control from from the from		Iton County BOE-Bus Shop	0	1260000	2017	4200	00006	2017	0 Education, Education, Transportation, Transportation	Transportation
Folkston Police Gepartment         0         642600         2017         142         0         Medicoment, Jav Enforcement, Police, Police	Folkcon Police Department         0         642600         2017         142         0         Mefforcement, Jav Enforcement, Police, Police		ton County BOE-Maintenance	0	2925000	2017	9750	95000	2017	0 Education, Education, K - 12, K - 12	Transportation
Georga Power substation         0         36000         217         100         0 NGO, NGO, Private, Private           Concreted Services         2         308000         2017         100         0 NGO, NGO, Private, Private           Concreted Services         1         480000         2017         100         0 NGO, NGO, Private, Private           First Baptis Church         1         480000         2017         1600         0 NGO, NGO, Private, Private           Amelia Care         1         2475000         2017         8250         0 NGO, NGO, Firides, Finategency Services, Finate, Private           Amelia Care         1         2475000         2017         8250         0 NGO, NGO, Finate, Private, Private           Amelia Care         1         2475000         2017         8250         0 NGO         0 Nedical Medical Offices, Ameliaal Offices, Ameliaa Offices, Amelia Care         0 Nedical Medical Medical Medice, Medica/S	Georga Power substation         0         38000         211         100         0 NGO, NGO, Private, Private           Georga Power substation #1         2         380000         2017         100         0 NGO, NGO, Private, Private           Contented Services         1         480000         2017         100         0 NGO, NGO, Private, Private           Contented Services         1         480000         2017         1600         0 NGO, NGO, Chinics, Clinics           First Bapits Church         1         2         380000         2017         1500         0 NGO, NGO, Chinics, Finate           Amelia Care         1         2475000         2017         1600         0 NGO, NGO, Private, Private           Amelia Care         1         2475000         2017         1600         0 NGO, NGO, Private, Private           Amelia Care         1         2475000         2017         100         100000         2017           Fristen Burntfort Road         0         1         23350         2017         100         0 Government, Water/Sever, Water/Sever           City of Folkton Water System-Burntfort Road         1         2756300         2017         37600         2017         0 Government, Water/Sever, Water/Sever           City of Folkton Water System-Burntfort Road </td <td></td> <td>ton Police Denartment</td> <td>C</td> <td>642600</td> <td>2017</td> <td>2142</td> <td></td> <td></td> <td>0 Law Enforcement. Law Enforcement. Police. Police</td> <td>Essential</td>		ton Police Denartment	C	642600	2017	2142			0 Law Enforcement. Law Enforcement. Police. Police	Essential
ORING Letter Substantion 11         2         30000         2017         100         0 NGO, NGO, Private,	ORING Letter Sustation #1         2         33000         2017         100         0 NGG/ NGC/ Private, Pr		ais Dower Substation		UUUUSUE	2017	100			0 NGO. NGO. Private. Private	Lifeline
Concreted Services         0         1,00000         2017         6,000         0         0,000,0         7,011         6,000         0         0,000,0         7,011         6,000         0         0,000,0         7,011         6,000         0         0,000,0         7,011         0,000         0,000,0         0,017         1,000         0         0,000,0         0,017         1,000         0         0,000,0         0,017         1,000         0         0,000,0         0,017         0,000         0,017         0,000         0,017         0,000         0,017         0,000         0,017         0,000         0,017         0,000         0,017         0,01         0,000         0,017         0,000         0,017         0,01         0,000         0,017         0,000         0,017         0,01         0,000         0,017         0,01	Order         Description         Description <thdescrin rest<="" th=""> <thdescription< th=""> <thd< td=""><td></td><td>AC Electric Cuberation #1</td><td></td><td>308000</td><td>2017</td><td>001</td><td></td><td></td><td>0 NGO NGO Private Private</td><td>Lifeline</td></thd<></thdescription<></thdescrin>		AC Electric Cuberation #1		308000	2017	001			0 NGO NGO Private Private	Lifeline
First Baptis Church         1         4.0000         20.17         16000         0         Einergency Services, Finargency Services, Finargenco, Finargenco, Finargency Services, Finargenco, Finargency Serv	Function         1         4.0000         20.17         6000         0         16000         0         16000         0         16000         0         16000         0         16000         0         16000         0         16000         0         16000         0         16000         0         16000         0         16000         0         16000         0         16000         0         16000         0         16000         0         16000         0<		MC Electric Judgeton #1			1102	EADO				Important
Hist Balaction       1       43000       20.17       1000       0<	Instruction       1       43000       20.1       1000         Anreal Gare       1       21300       20.1       1000       0				1000001	/TO7	0040			o recent formed formed	Errorial
Americal care         1         2475000         2.0.1         8.2.0         0         Netroid intervest weeter, w	Americal care         1         24/5000         2011         8.20         0         Netrical Interest Medical Interest Medical Interest Medical Interest           Prison Lift Station         2         30000         2017         100         100000         2017         100           City of Fakton Water System-Burnfort Road         0         100000         2017         201         33350         2017         0         6 Government, Water/Sewer           City of Fakton Water System-Burnfort Road         0         1000000         2017         201         33350         2017         0         6 Government, Water/Sewer         Water/Sewer           City of Fakton Water System-Burnfort Road         0         1000000         2017         201         3350         2017         0         6 Government, Water/Sewer         Water/Sewer           Charlton County BOE-Bethune Middle School         1         2701         92211         376000         2017         0         6 dovernment, Water/Sewer         Mater/Sewer		Baptist Church	-	480000	/107	16000			U Emergency actives, Emergency actives, Filvate, Filvate	
Trison     211/     U     U     U     U     U     U     U     U       City of Felkton Water/Seven     0     10000     2017     201     313     0     0 Government, water/Seven     Water/Seven       City of Felkton Water/Seven     0     1     2020     2017     201     0     0       City of Felkton Water/Seven     0     2017     201     37500     2017     0     0 dovernment, water/Seven       Charlton County BOE-Bethune Middle School     1     1     27663300     2017     92221     37600     2017     0     0 Education, K - 12, K - 12	Triston     2     2000     2017     200     2017     200     2017     0     0 settiment, water)-sever       City of Folkton Wree System-Burnfrort Road     0     1     200000     2017     201     33330     2017     0     0 doverment, Water/Sever, Water/Sever       City of Folkton Wree System-Burnfrort Road     1     2     2017     2013     33330     2017     0     0 doverment, Water/Sever       City of Folkton Wree System-Burnfort, Water/Sever, Water/Sever     2     2     2     2     2     2       City of Folkton Wree System-Burnfort, BOE-Bethune Middle School     1     2     2     2     2     2       City of Folkton County BOE-Bethune Middle School     1     2     2     2     2     2     2		tia Lare		24/5000	/TN7	8250	00000	E POL	O Medical, Medical, Medical Offices, Medical Offices	
City of Folkston Water System-Burrifort Road         0         100000         2017         201         53350         2017         0         Government, Water/Sewer, Water/Sewer           Charlton County BOE-Bethrue Middle School         1         2766330         2017         0         Education, Education, K - 12, K - 12	City of Folkston Water System-Burnfrort Road         0         100000         2017         201         53350         2017         0         Government, Water/Sewer, Water/Sewer           Charlton County BOE-Bethrine Middle School         1         2766300         2017         92221         376000         2017         0         Education, K - 12, K - 12		in Lift Station	7	20000	/107	DOT.	nnnnt	/TnZ	U GOVERTITERI, GOVERTITERI, VALET, SEWET, VALET, SEWET	
Charlton County BOE-Bethune Middle School 1 27665300 2017 92221 376000 2017 0 Education, Education, K - 14, K - 12	Charlton County BOE-Bethune Middle School 1 27665300 2017 92221 376000 2017 U Education, Education, K - 14, K - 12		of Folkston Water System-Burntfort Road	0	100000	2017	201	53350	7107	U GOVERNMENT, GOVERNMENT, VVATER/SEWER, WATER/SEWER	Essential, Lifeline
			fton County BOE-Bethune Middle School	-	27666300	2017	92221	376000	2017	0 Education, Education, K - 12, K - 12	Vulnerable Population

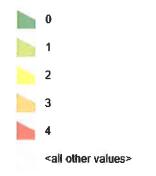
۸	Offices, Medical Offices	0 Medical, Medical, ALF, ALF	0 Emergency Services, Emergency Services, Communications, Communications Essential	0 Medical, Medical Offices, Medical Offices	0 Medical, Medical Offices, Medical Offices	0 Government, Government, Water/Sewer, Water/Sewer	0 Law Enforcement, Law Enforcement, Prisons, Prisons	ns, Communications	0 Education, Education, Day Care, Day Care	0 Government, Government, Government Offices, Government Offices Historic Consideration	ouse, Court House			Transportation		0 Government, Government, Government Offices, Government Offices Historic Consideration, Important	0 Government, Government, City Hall, City Hall	0 Government, Government, Water/Sewer, Water/Sewer	0 Government, Government, Water/Sewer, Water/Sewer	0 Government, Government, Day Care, Day Care	0 Education, Education, Library, Library	0 Medical, Medical Offices, Medical Offices Essential	0 Medical, Medical Offices, Medical Offices	0 Government, Government, Government Offices, Government Offices	0 Emergency Services, Emergency Services, Communications, Communications Essential, Lifeline	1	0 Education, Education, K - 12, K - 12				ourt House	0 Law Enforcement, Law Enforcement, Sheriff, Sheriff	0 Emergency Services, Emergency Services, Fire Fighters, Fire Fighters		0 Emergency Services, Emergency Services, Communications, Communications Essential, Lifeline	0 NGO, NGO, Private, Private	0 NGO, NGO, Private Lifeline	0 Government, Government, Transportation, Transportation	0 Government, Government, Transportation, Transportation	0 Government, Government, Water/Sewer, Water/Sewer	0 Government, Government, Water/Sewer, Water/Sewer	0 Government, Government, City Hall, City Hall	0 Law Enforcement, Law Enforcement, Police, Police	0 Medical, Medical Offices, Medical Offices		
2017						2017					2017			2017		2017	2017			2017	2017	2017	2017	2017			2017	2017	2017		2017	2017	2017					2017	2017		2017	2017	2017			
626900						1000000					70000			00065		195100	138900			100000	50000	177000	177000	81000			1626400	53350	350000		160000	10000	70000	2079900				62700	19800		110660	72900	21900		287960	3735210
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2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	,2017	2017	2017	2017		2017	2017	2017	2017	2017	2017	2017	2017	2017	2017		
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 Chariton County BOE-Folkston Elementary School		Folkston Park Care And Rehabilitation	ity 911	es	McKinney Community Health Center	GEO Corrections Water System	GEO Corrections State Prison	ton	iycare	Charlton County Storage Building OERC	Charlton County Commission Offices	es Adult Ed.	Georgia GA DHR DFACS	City of Folkston Road Dept.	City of Folkston Housing Authority	City of Folkston Depot-Chamber of Commerce	City of Folkston City Hall	City of Folkston Sewerline System	City of Folkston Water Line System	Charlton County Senior Center	Chariton County Public Library	Charlton County Health Dept.	Charlton County Health Dept. Homecare	Charlton County Cooperative Extension	Charlton County Antenna Repeater #1	Vacant Charlton Memorial Hospital ER	Charlton County BOE-High School	City of Folkston Water System	City of Folkston (WPCP)	Vacant Charlton County Memorial Hospital	Charlton County Courthouse	Charlton County Sheriff's Office	Charlton County FD Station 01 Folkston		Commercial Radio Tower	OREMC Electric Substation 3	Pinevillage Campground	City of Homeland Road Dept.	City of Homeland Machinery Enclosure	Gity of Homeland Waterline System	City of Homeland Water System	City of Homeland City Hall	Homeland Police Department	Satilla Community Service Center		
Charlton County B	U.F. Health	Folkston Park C	Charlton County 911	Visiting Nurses	McKinney C	GEO Correc	GEO Correc	USPO-Folkston	Roberson Daycare	Charlton Co	Charlton Co	Coastal Pines Adult Ed.	Georgia GA	City of Folk	City of Foll	City of Fo	City of Fe	City of F	City of I	Charlto	Charlto	Charlto	Charlto	Charltc	Charlto	Vacant	Charlto	City of F	City of F	Vacant (	Charltor	Charltor	Charltor	rotal 17(5-2 & 12-1)	Соттег	OREMC	Pinevilla	City of H	City of H	City of He	City of Ho	City of Hor	Homeland	Satilla Com		GRAND TOTAL 63 7-2 & 56-1

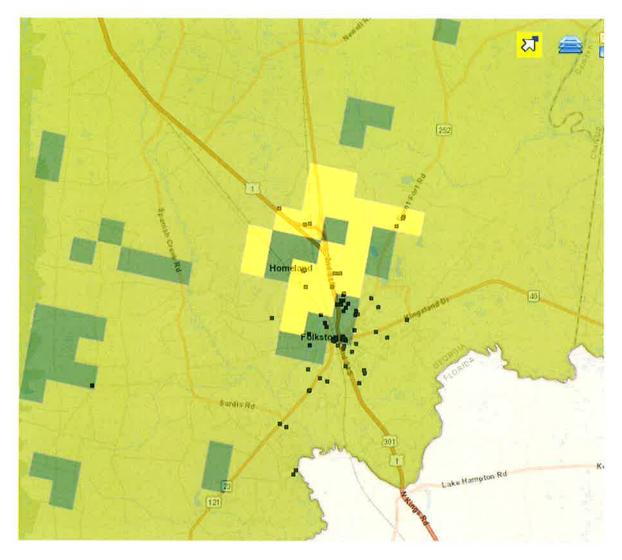


#### **CHARLTON COUNTY PDM GEMA WILDFIRE HAZARD MAP**

The Wildfire Risk Layer was based on the USDA Forest Service, RMRS Fire Sciences Laboratory "Wildland Fire Risk to Flammable Structures, V 1.0" map. Although this data was not intended for use at a detail greater than state-wide analysis, it has been included as the best available data on wildfire risk. The scores are based on the risk value from the original layer. The horizontal positional accuracy is unknown for this layer.





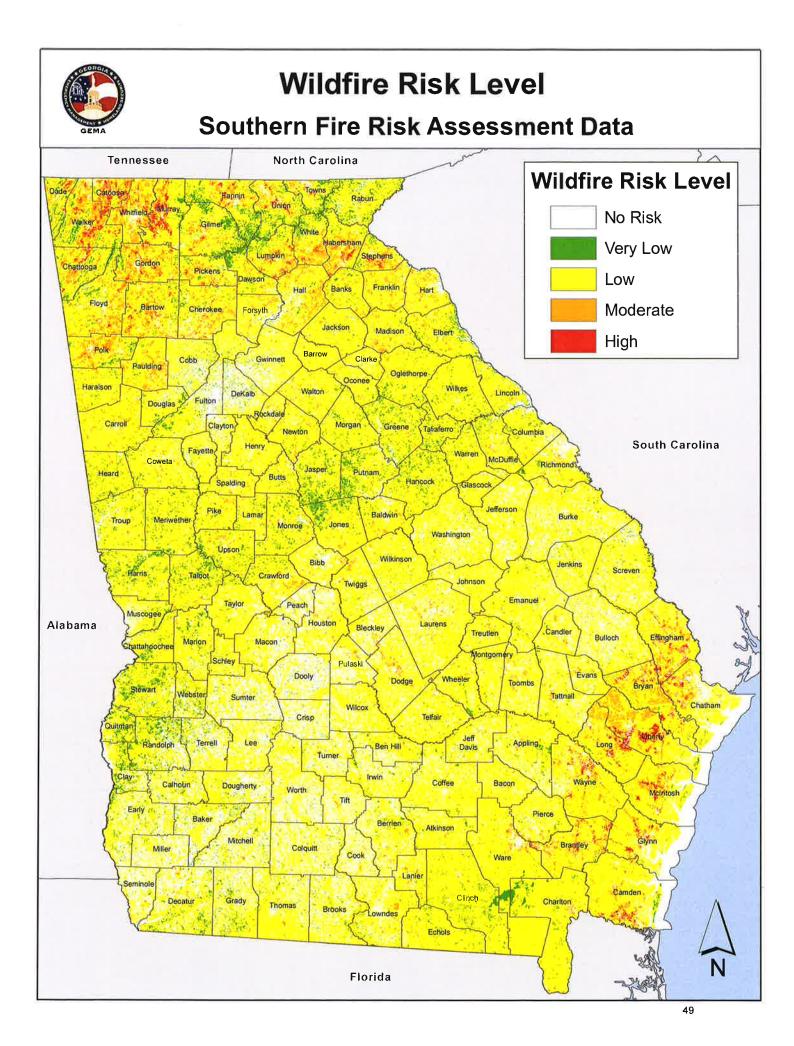


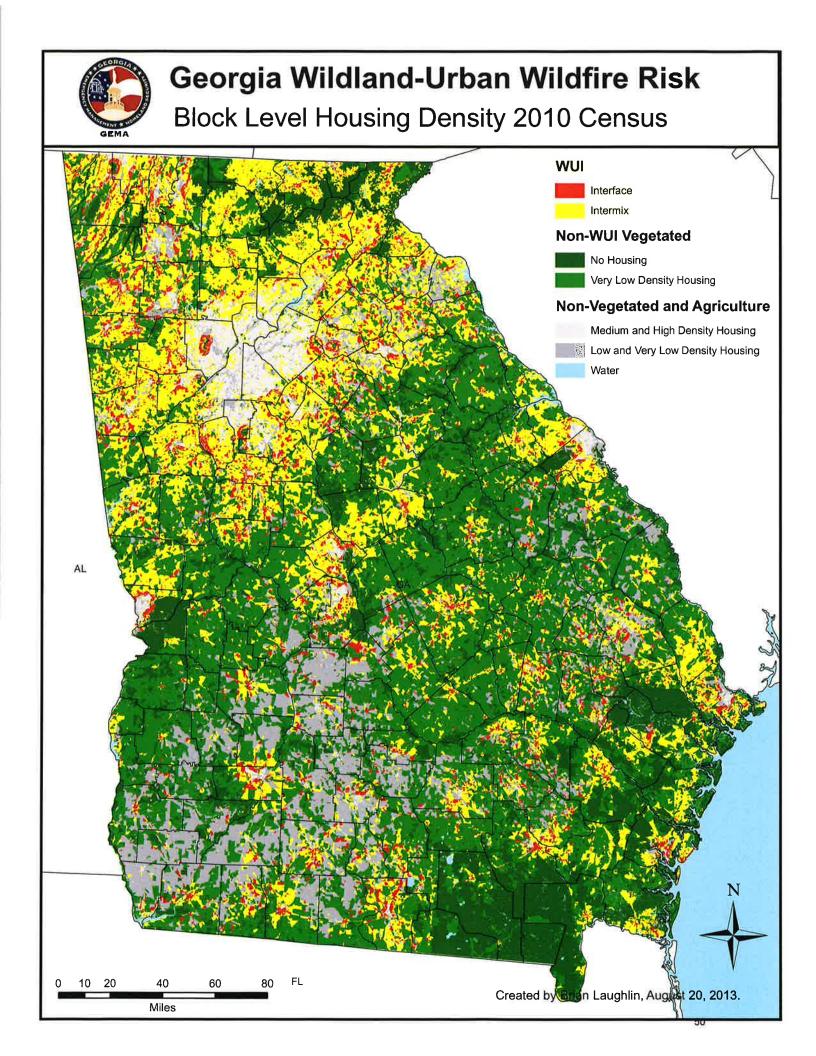
#### **CITIES OF FOLKSTON AND HOMELAND PDM GEMA WILDFIRE HAZARD MAP**

The Wildfire Risk Layer was based on the USDA Forest Service, RMRS Fire Sciences Laboratory "Wildland Fire Risk to Flammable Structures, V 1.0" map. Although this data was not intended for use at a detail greater than state-wide analysis, it has been included as the best available data on wildfire risk. The scores are based on the risk value from the original layer. The horizontal positional accuracy is unknown for this layer.



Hazard - GEMA.wildfire





#### IV. Tornado

A. Tornado Hazard Description - Charlton County is frequently at risk of damage to life, property, and economic losses due to the impacts of Tornadoes. The primary sources of these Tornado events are thunderstorms, hurricanes or tropical storms.

Tornados are a year round threat and often accompany thunderstorms or spawn off of tropical storms or hurricanes that pass in close proximity to the area. Unlike tropical storms, and to some extent even thunderstorms, which tend to blanket a wide area at one time, tornadoes usually affect a smaller area but the damage while concentrated is often more destructive in nature due to the potentially higher wind speeds often seen inside a tornado. The NWS uses the Enhanced Fujita Scale outlined below to categorize tornados.

EF0 – 65-85 mph EF1 – 86-110 mph EF2 – 111-135 mph EF3 – 136-165 mph EF4 – 166-200 mph EF5 – over 200 mph

B. Data – Worksheet 3A, GEMA Critical Facility Inventory Report, Maps, Etc.

#### GEMA Worksheet #3a Inventory of Assets Jurisdiction: Charlton County (Including Folkston & Homeland) Hazard: Hurricane/Tropical Storm, Tornado, Thunderstorms & Wind, Severe Winter Storms, Hail, Drought, Lightning, Extreme Heat

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	4,436	4,436	100.000%	363,752,000	363,752,000	100_000%	13,130	13,130	100%				
Commercial	683	683	100.000%	92,595,028	92,595,028	100.000%	0]	0	#DIV/0!				
Industrial	58	58	100.000%	6,522,590	6,522,590	100_000%	0]	0	#DIV/01				
Agricultural	514	514	100.000%	21,520,093	21,520,093	100.000%	0]	0	#DIV/0!				
Religious/ Non- profit	278	278	100.000%	16,133,448	16,133,448	100_000%	0	0	#DIV/0!				
Government	181	181	100.000%	86,301,963	86,301,963	100.000%	0	0	#DIV/0!				
Education	23	23	100.000%	9,425,883	9,425,883	100.000%	0	Ő	#DIV/0!				
Utilities	39	39	100.000%	89,340,735	89,340,735	100.000%	0	0	#DIV/01				
Total	6.212	6.212	100.000%	685,591,740	685,591,740	100.000%	13,130	13,130	100%				

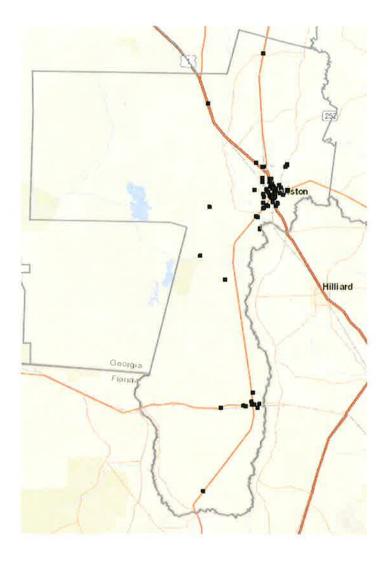
1. Do you know where the greatest damages may occur in your area?	Y	N X
2. Do you know whether your critical facilities will be operational after a hazard event?		Х
3. Is there enough data to determine which assets are subject to the greatest potential damages?	Х	
4. Is there enough data to determine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

# PLEASE SEE

# GMIS CRITICAL FACILITIES DATA IN APPENDIX A PART I FOR HAZARD AMOUNTS

ST 1

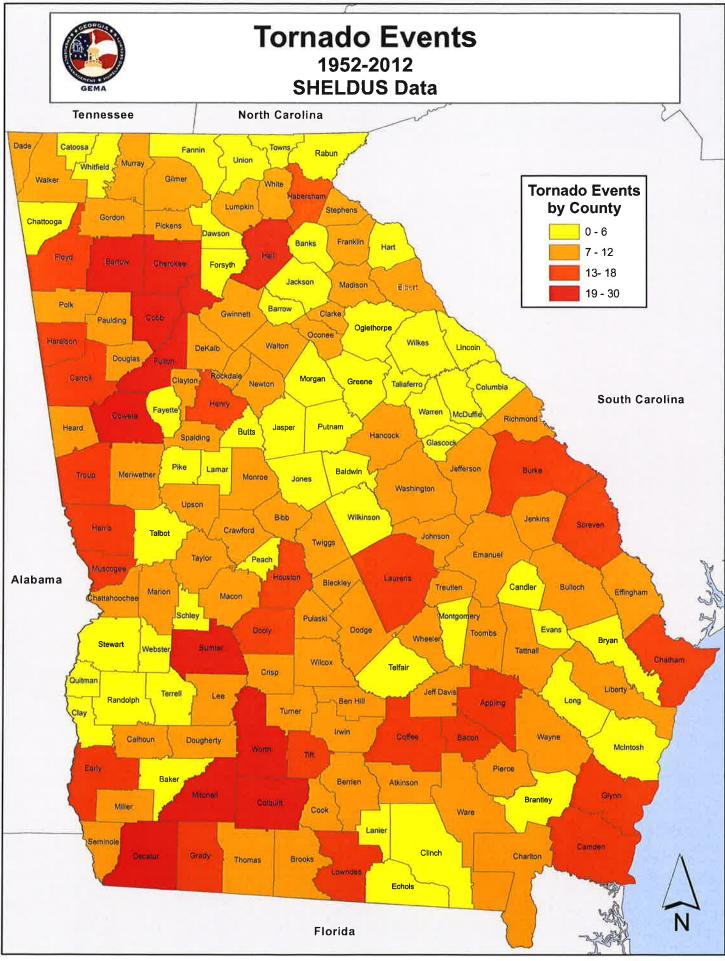
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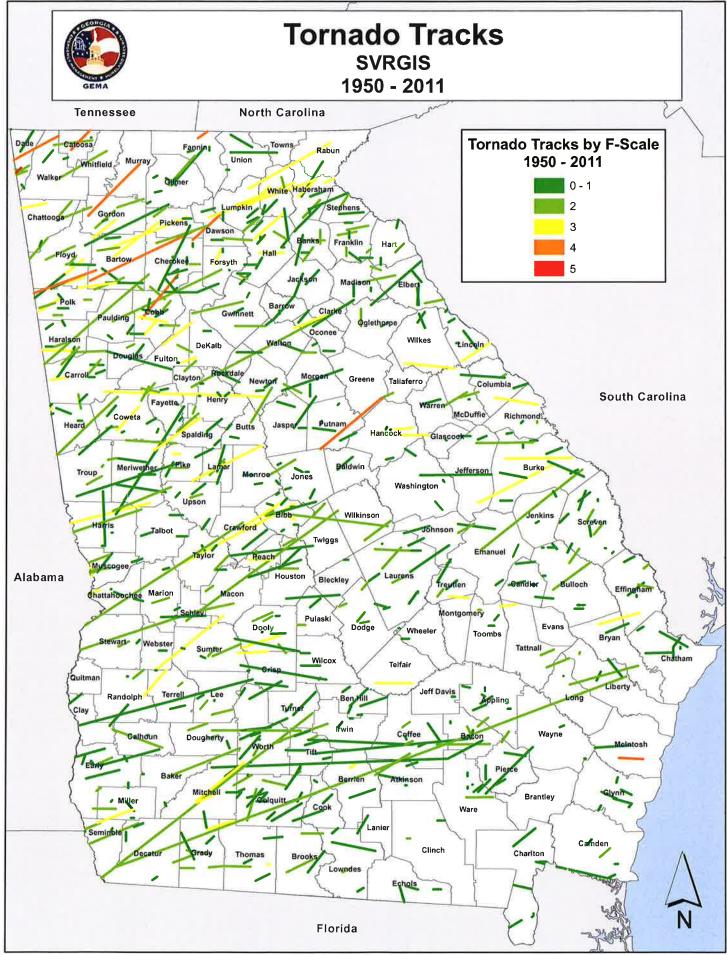


# CHARLTON COUNTY & CITIES OF FOLKSTON AND HOMELAND PDM GEMA TORNADO HAZARD MAP

No Color = No Value

Please see attached cover sheet regarding score definitions





#### V. Thunderstorms/Wind

A. Thunderstorms/Wind Hazard Description - Charlton County is frequently at risk of damage to life, property, and economic losses due to the impacts of Thunderstorms/ Wind.

The National Weather Service classifies a Severe Thunderstorm as one capable of producing winds of 58 mph or greater, hailstones 1 inch or larger, or a tornado. However, it is not uncommon for Charlton County to receive storms with winds slightly below this threshold but still capable of producing significant damage, so the lack of a Severe Thunderstorm Warning is not always indicative of damage potential.

B. Data – Worksheet 3A, GEMA Critical Facility Inventory Report, Maps, Etc.

#### GEMA Worksheet #3a Inventory of Assets Jurisdiction: Charlton County (Including Folkston & Homeland) Hazard: Hurricane/Tropical Storm, Tornado, Thunderstorms & Wind, Severe Winter Storms, Hail, Drought, Lightning, Extreme Heat

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	M	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	4,436	4,436	100.000%	363,752,000	363,752,000	100.000%	13,130)	13,130	100%			
Commercial	683	683	100.000%	92,595,028	92,595,028	100.000%	0)	0	#DIV/0!			
Industrial	58	58	100.000%	6,522,590	6,522,590	100.000%	0]	0	#DIV/0!			
Agricultural	514	514	100.000%	21,520,093	21.520.093	100.000%	0]	0	#DIV/01			
Religious/ Non- profit	278	278	100.000%	16,133,448	16,133,448	100.000%	0	0	#DIV/0!			
Government	181	181	100.000%	86,301,963	86,301,963	100.000%	0)	0	#DIV/0!			
Education	23	23	100.000%	9,425,883	9,425,883	100.000%	0)	0	#DIV/0!			
Utilities	39	39	100.000%	89,340,735	89,340,735	100.000%	0	0	#DIV/0!			
Total	6,212	6,212	100.000%	685,591,740	685,591,740	100.000%	13,130	13,130	100%			

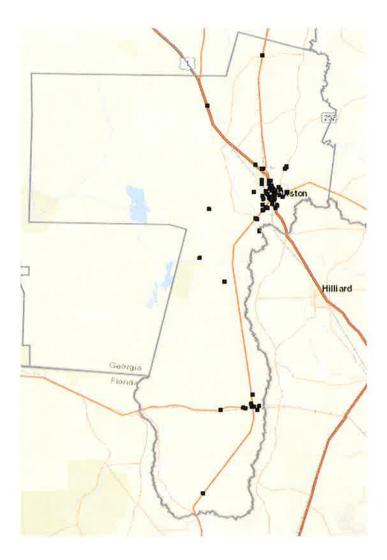
#### Task B. Determine whether (and where) you want to collect additional inventory data.

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

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And the field of the	ORM         Control         2011         100           Georgia GA Fenestry Commission GFC         3         50000         2011         725           Trader's Hill Recreation Ansitematice Facility         3         775000         2011         7250           Trader's Hill Recreation Ansitematice Facility         3         775000         2011         7250           Charter County Mainteance Facility         3         775000         2011         2000           U.S. FW Service OleFanolere Relige         3         20005         2011         2000           U.S. FW Service OleFanolere Relige         3         20000         2011         2000           U.S. FW Service OleFanolere Relige         3         20000         2011         2000           Carrent Oronny Transfer Station         3         700000         2011         200           Carrent Oronny Transfer Station         3         30000         2011         200           Carrent Oronny Transfer Station         3         30000         2011         100         2000           Carrent Oronny Transfer Station         3         30000         2011         100         2000           Carrent Oronny Transfer Station         3         30000         2011         100 <td< td=""><td>is Communications is Fighters in in in in is Communications is, Communications</td><td>ntial Lifeline antial consideration, important ntial, Transportation ntial, Transportation ntial</td></td<>	is Communications is Fighters in in in in is Communications is, Communications	ntial Lifeline antial consideration, important ntial, Transportation ntial, Transportation ntial
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Construction         Construction<	Transportation Maintenance Shop         3         217500         2017         775           Georgia GCO Transportation Maintenance Shop         3         540000         2017         1260           U.S. FW Service Orderhouse Refuge         3         2003500         2017         1800         1111000           U.S. FW Service Orderhouse Refuge         3         200000         2017         100         2000           U.S. FW Service Orderhouse Refuge         3         50000         2017         100         3000           U.S. FW Service Orderhouse Refuge         3         700000         2017         100         30000           U.S. FW Service Orderhouse Refuge         3         30000         2017         100         3000           Charton County Natine Station         3         30000         2017         100         3000           Charton County Natine Station         3         30000         2017         100         3000           Charton County Mattenance Station         3         30000         2017         100         3000           Charton County Mattenance Station         3         30000         2017         100         3000           Charton County Waster Station         3         30000         2017         <	nent Offices n Fighters is, Communitations	oric Consideration, important ntial, Transportation ntial Iransportation ntial atrait ntial inte inte inte inte inte inte inte inte
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1         2         2000         2010<	Classical Control Ware interaction 2017         1300         111000           Control County Manifer Station         3         50000         2017         1300         111000           Georgia GFC Friestry Gowen Tower         3         150000         2017         100         1000           Georgia GFC Friestry Gowen Tower         3         150000         2017         100         1000           Georgia GFC Friestry Gowen Tower         3         350000         2017         100         3000           Charlon County Transfer Station         3         350000         2017         100         3000           USPO-St-George         3         350000         2017         100         3000         3000           Charlon County Transfer Station         2.5         660rge         3         750000         2017         100         3000           Charlon County House         3         3         30000         2017         100         3000           Group and Drever Substration         3         3         30000         2017         100         10000           Group Antenna Repeater #3         3         3         30000         2017         100         10000           Group County Mens         5%	n re Fighters s, Communications	ntial, Transportation ntial ntial ortant ntial, Lifeline ntial, Lifeline ine ine ine ine tral, Lifeline tratal, Lifeline
Control         Control <t< td=""><td>out, not move centralise         5         2002/30         2011         66.5           Georgia GFC forestry Commission-SL George         3         700000         2017         100           Georgia GFC forestry Commission-SL George         3         700000         2017         100           Georgia GFC forestry Commission-SL George         3         350000         2017         100         30000           Georgia GFC forestry Commission-SL George         3         350000         2017         100         30000           Charlton County Anterna Repeater #3         3         3         350000         2017         100         30000           Charlton County Anterna Repeater #3         3         350000         2017         100         30000           Charlton County Anterna Repeater #3         3         350000         2017         100         30000           Georgia Power Substation         2         3         30000         2017         100         100000           Georgia Power Substation         2         3         30000         2017         100         100000           Georgia Power Substation         2         3         30000         2017         100         100000           Georgia Power Substation         2</td><td>e Fighters re Fighters s, Communitations</td><td>ntial ntial Artant Artant Intal Inte Inte Inte Inte Inte Inte Inte Inte</td></t<>	out, not move centralise         5         2002/30         2011         66.5           Georgia GFC forestry Commission-SL George         3         700000         2017         100           Georgia GFC forestry Commission-SL George         3         700000         2017         100           Georgia GFC forestry Commission-SL George         3         350000         2017         100         30000           Georgia GFC forestry Commission-SL George         3         350000         2017         100         30000           Charlton County Anterna Repeater #3         3         3         350000         2017         100         30000           Charlton County Anterna Repeater #3         3         350000         2017         100         30000           Charlton County Anterna Repeater #3         3         350000         2017         100         30000           Georgia Power Substation         2         3         30000         2017         100         100000           Georgia Power Substation         2         3         30000         2017         100         100000           Georgia Power Substation         2         3         30000         2017         100         100000           Georgia Power Substation         2	e Fighters re Fighters s, Communitations	ntial ntial Artant Artant Intal Inte Inte Inte Inte Inte Inte Inte Inte
Construction         Construction<	constant         count         211         200           Charlen County Transfer Station         5 (serige         3<70200	re Fighters is, Communications	ntai Artant Artant Artant Intei Ine Ine Ine Ine Ine Ine Ine Ine Ine Ine
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Control         Control <t< td=""><td>Charlen County National Repeater #3         3 50000         2017         500         2017         500         2017         500         2000         2017         100         30000         2017         100         30000         2017         100         30000         2017         100         30000         2017         100         30000         2017         100         30000         2017         100         30000         2017         100         30000         2017         100         30000         2017         100         30000         2017         100         30000         2017         100         30000         2017         100         100000         30000         3017         100         30000         3017         100         100000         30000         3017         100         100000         30000         3017         100         100000         30000         3017         100         100000         30000         3017         100         100000         30000         3017         3000         30000         3017         3000         30000         3017         3000         30000         3017         3000         30000         3017         3000         30000         3017         3000         30000</td><td>is, Communitations</td><td>trant Ine Ine Ine Ine Ine Ine Ine Ine Ine Ine</td></t<>	Charlen County National Repeater #3         3 50000         2017         500         2017         500         2017         500         2000         2017         100         30000         2017         100         30000         2017         100         30000         2017         100         30000         2017         100         30000         2017         100         30000         2017         100         30000         2017         100         30000         2017         100         30000         2017         100         30000         2017         100         30000         2017         100         30000         2017         100         100000         30000         3017         100         30000         3017         100         100000         30000         3017         100         100000         30000         3017         100         100000         30000         3017         100         100000         30000         3017         100         100000         30000         3017         3000         30000         3017         3000         30000         3017         3000         30000         3017         3000         30000         3017         3000         30000         3017         3000         30000	is, Communitations	trant Ine Ine Ine Ine Ine Ine Ine Ine Ine Ine
Antional and antional and antional and antional anti	Traders till Panty menu school, Frankers till Panty menu school (Fabre Panty House)         3 30000         2011         100         30000           Chafter County ENS Station #2.5°, George         3 2,51000         2011         110         3000           George Pump House         3 2,5000         2011         110         30000           George Pum Phose         3 750000         2011         110         3000           George Pum Phose         3 750000         2011         110         100000           Kingsland Unver Lift Station         3 30000         2011         1100         100000           Kingsland Unver Lift Station         3 30000         2011         1100         100000           Pinehurst Subdivision Lift Station         3 30000         2011         1100         100000           Pinehurst Subdivision Lift Station         3 30000         2011         1100         100000           Rink Cleentric Substation R2         3 30000         2011         1100         100000           Rink Lift Station         3 30000         2011         1100         100000           Rink Lift Station         3 350000         2011         1100         100000           Rink Kie Review Station R2         3 300000         2011         1100		nues, ureinne ntial ine ine ine ine ine ine ine tral, ufeline
Chera ()         Control () <thcontrol ()<="" th="">         Control ()         Control ()</thcontrol>	Charthon County Fivi Station #2-St. George         3         231000         2017         970         22000           St. George Pump House         5         750000         2017         150         30000           St. George Pump House         5         750000         2017         100         100000           St. Station         3         750000         2017         100         100000           St. ZS Lift Station         3         30000         2017         100         100000           St. ZS Lift Station         3         30000         2017         100         100000           Final Station         3         30000         2017         100         100000           Final Station         3         30000         2017         100         100000           Final Station         3         30000         2017         100         100000           City of Folkton Water System-Homeland         3         300000         2017         100         100000           City of Folkton Water System Homeland         3         300000         2017         100         100000           City of Folkton Water System Homeland         3         300000         2017         100         100000		tine Ine Tine Tine Ine Lite Ine Attail, Lifeline
Consideration         Consider	St. George Funni House         5. George Funni House         5. George Funni House         5. George Funni House         5. Station         2017         150         30000           Georgia Power Substation         3         750000         2017         100         100000           Georgia Power Substation         3         30000         2017         100         100000           S.R. 252 Un Station         3         30000         2017         100         100000           S.R. 252 Un Station         3         30000         2017         100         100000           Dimburst Substation HS station         3         30000         2017         100         100000           Grip of Folkton Water System-Homeland         3         30000         2017         100         100000           Grip of Folkton Water System-Homeland         3         30000         2017         100         100000           Grip of Folkton Water System-Homeland         3         30000         2017         100         100000           Grip of Folkton Water System-Homeland         3         30000         2017         100         100000           Grip of Folkton         2017         100         10000         2017         100         100000		ine ine ine ine ine ine ine ine ine ine
Generativity         3         3000         301         300         301         300         301         300         301 <th< td=""><td>Georgia Power Substration         3         750000         2017         100         100000           Kingstand Drive Urt Station         3         30000         2017         100         100000           Kingstand Drive Urt Station         3         30000         2017         100         100000           Thomas Camp Lift Station         3         30000         2017         100         100000           PrineInversion Lift Station         3         30000         2017         100         100000           PrineInversion Lift Station         3         30000         2017         100         100000           PrineInversion Lift Station         3         30000         2017         100         100000           OREMC Electric Justration RJ         3         300000         2017         100         100000           OREMC Electric Justration RJ         3         3000000         2017         100         100000           Camp Pincture Placet         3         377500         2017         100         100000           Camp Pincture Placet         3         3247500         2017         1260         127750           Camp Pincture Placet         3         13200000         2017         1280         17</td><td></td><td>ine ine ine ine tradial, Lifeline</td></th<>	Georgia Power Substration         3         750000         2017         100         100000           Kingstand Drive Urt Station         3         30000         2017         100         100000           Kingstand Drive Urt Station         3         30000         2017         100         100000           Thomas Camp Lift Station         3         30000         2017         100         100000           PrineInversion Lift Station         3         30000         2017         100         100000           PrineInversion Lift Station         3         30000         2017         100         100000           PrineInversion Lift Station         3         30000         2017         100         100000           OREMC Electric Justration RJ         3         300000         2017         100         100000           OREMC Electric Justration RJ         3         3000000         2017         100         100000           Camp Pincture Placet         3         377500         2017         100         100000           Camp Pincture Placet         3         3247500         2017         1260         127750           Camp Pincture Placet         3         13200000         2017         1280         17		ine ine ine ine tradial, Lifeline
Application         1         2000         2011         0	Kingsland Drive Lift Station         3         3000         2017         100         10000           5. K. 25 Uff Station         3         3000         2017         100         10000           5. K. 25 Uff Station         3         3000         2017         100         10000           Pinehurst Camp/Riscan Lift Station         3         30000         2017         100         10000           Pinehurst Station         3         30000         2017         100         100000           Off Roltson Water System-Homeland         3         30000         2017         201         33350           Off Roltson Water System-Homeland         3         300000         2017         201         33350           Off Roltson Water System-Homeland         3         300000         2017         100         100000           Off Roltson Water System-Homeland         3         347500         2017         100         100000           Off Roltson Water System-Homeland         3         347500         2017         100         100000           Camp Pinctoney Baptist Church         3         347500         2017         100         10000           Camp Pinctoney Baptist Church         3         200000         2017		ine ine ine ratia), Lifeline
All S. M. M. Marken, Ma	S.R. Z5 Lift Station         3         3000         2017         100         10000           Thema camp lift Station         3         3000         2017         100         10000           Thema camp lift Station         3         3000         2017         100         10000           Gift of Folkton Water System-Homeland         3         75000         2017         100         10000           Gift of Folkton Water System-Homeland         3         75000         2017         100         10000           ORIKING Electric Substation #2         3         3080000         2017         100         100000           ORIKING County Fully #3         3         450000         2017         100         33350           ORIKING County Fully #3         3         450000         2017         100         10000           Camp Pindrevy Baptist Church         3         3         2302000         2017         100         10000           St George Church of God         3         2302000         2017         100         1000           Construction Routy Homeland         3         2302000         2017         100         1000           Construction Routy Routh County Fold         3         24500         2017		ine ine tine trial, Lifeline
Methodisci (f) Station         3         3000         2011         Concentrated, Gortmann, Wart/Seer, Wart	Thomas Camp Lift Station         3         3000         2017         100         10000           Finehurst Subrision Lift Station         3         30000         2017         100         100000           Giv of Folkton Water System-Homeland         3         30000         2017         100         100000           OREMC Electric Substation A2         3         30000         2017         100         100000           OffEMC Electric Substation A2         3         30000         2017         100         100000           OffEMC Electric Substation A2         3         30000         2017         100         100000           Charlow County Rota         3         3         0000         2017         100         100000           St. George Church of God         3         347500         2017         17825         110           Charlow County Rota         3         247500         2017         17825         100           Charlow County Rota         3         200000         2017         17825         100           Charlow County Rota         3         1325000         2017         100         1377350           Charlow County Rota         3         1743900         2017         9350		ine ine ntial, Lifeline
Financial Contractivity         2 3000         2011         Contractivity Contractivity Contractivity Contractivity Marg/Seeu (Warg/Seeu	PineIntract Subfiction Lift Station         3         30000         2017         100         100000           GF of Folkston Water System-Homeland         3         750000         2017         201         53350           GF of Folkston Water System-Homeland         3         750000         2017         201         53350           GF of Folkston Water System-Homeland         3         750000         2017         100         53350           Charlon County Fork 22:14/0         3         3         4500000         2017         100         53350           Camp Pinctoney Baptist Church         3         3         450000         2017         100         5000           Concerted Services Head Cauty Road Dept. St. George         3         3247500         2017         900         137750           Concerted Services Head Start         3         2350000         2017         9350         137750           New Life Baptist Church         3         2350000         2017         9350         137750           Self A700         2017         9350         2017         9350         137750           Self A700         2017         9350         2017         9350         147750           Self A700         2017		ine ntial, Lifeline
Circle Michael         2000         2011         2000         2011         2000         2011         2000         2011         2000         2011         2000         2011         2000         2001	City of Folkson Water System-Homeland         3         750000         2017         201         53350           OREMC Electric Substation #2         3         300000         2017         100         33150           OREMC Electric Substation #2         3         300000         2017         100         33150           Camp Pinckney Baptist Church         3         547000         2017         15000         33175           St. George Church of God         3         3         547000         2017         17825           St. George Church of God         3         3         247000         2017         100           Charlton County Road Dept. St. George         3         2200000         2017         100           Charlton County Road Dept. St. George         3         2200000         2017         9350           And Lation County Road Dept. St. George         3         2200000         2017         9350           And Lation County Steaden Of Folkston         3         2200000         2017         9350           And Lation County Road Dept. St. George         3         174390         2377550         1377550           Charlton County Steader Of Charlton St.         3         240000         2017         9350         1377550 <td></td> <td>ntial, Lifeline</td>		ntial, Lifeline
CMMC Exercision         3	ORKNC Telectric Substation #2         3         3080000         2017         100           Ortarkfons County EMS 22140         3         30000         2017         100           Camp Pinchney Fish Sizt Church         3         4500000         2017         12000           St. George Church of God         3         547500         2017         12000           St. George Church of God         3         3200000         2017         12000           Other the Saptist Church of God         3         22020000         2017         9350           Onerted Services Head Start         3         2202000         2017         9350           New Life Baptist Church         3         28654700         2017         9350           Onerted Services Head Start         3         28654700         2017         9350           Antition County For Station 01 Eribiston         3         1743900         2017         9350           Charlton County Stepfies         3         2400000         2017         9350         1377350           Charlton County Rendifier Of Station 01 Eribiston         3         1743900         2017         33512         16000           Charlton County Rendifier Of Station 01 Eribiston         3         1743900         201		
Carrent County Not 2010         County Not 2010         Contraction	Charlmon Courty Michael Baptist, Church         3         0         2017         0           Charlmon Courty Michael Baptist, Church         3         5475000         2017         100           St. George Church of God         3         5475000         2017         100           St. George Church of God         3         5475000         2017         17825           Charlmon County Raad Dept. St. George         3         2200000         2017         100           St. George Church         3         3255000         2017         9350         100           New Life Baptist, Church         3         3255000         2017         9350         1377350           St. Charthon County File Baptist, Church         3         1743300         2017         9350         1377350           St. Marthon County File Baptist, Church         3         1743300         2017         9350         1377350           St. Marthon County File Baptist, Church         3         174300         2017         9350         1377350           St. Marthon County File Baptist, Church         3         174300         2017         9350         1377350           St. Marthon County File Baptist, Church         3         174300         2017         2017         9350		Ine
No.         Statute         St	Camp Princency laport         3         450000         2017         15000           Charthon Gouny, Road Dept, St., George         3         5347500         2017         17825           Charthon Gouny, Road Dept, St., George         3         5347500         2017         17825           Concerted Services Head Start         3         1920000         2017         17825           New Life Baptist Church         3         1220000         2017         6400           New Life Baptist Church         3         2865000         2017         6400           Carathon County Foreige         3         274390         2017         9350           Charthon County Foreige         3         174390         2017         9350           Charthon County Foreige         3         1743900         2017         9350           Charthon County Foreige         3         2400000         2017         9350           Charthon County Memorial Hospital         3         1022500         2017         20000           Charthon County Memorial Hospital         3         1022500         2017         2015         70000		ntial
A model (Mark) (Mark) (Mark)         2 model (Mark) (M	Section         3         534700         611         1002           Concerted Services Head Start         3         1920000         2017         100           Concerted Services Head Start         3         1920000         2017         6400           New Life Baptist Church         3         28654700         2017         6400           New Life Baptist Church         3         28654700         2017         6400           Concerted Services Head Start         3         28654700         2017         9350           A         Charthon County Field Start         3         2402000         2017         8313         70000           Charthon County Field Start         3         2400000         2017         8313         70000           Charthon County Memorial Hospital         3         2400000         2017         3312         160000           Vacam Charthon County Memorial Hospital         3         1022500         2017         2017         30000		intial
Non-structure         2         20000         2011         6000         2011         6000         2011         6000         2011         6000         2011         6000         2011         6000         2011         6000         2011         6000         20111         2011         2011	Contented Service         3         20000         2017         400           New Life Baptist Church         3         2865,4700         2017         9350           New Life Baptist Church         3         2865,4700         2017         9350           Charlton County FD Station 01 Folkston         3         1743900         2017         9350           Charlton County FD Station 01 Folkston         3         1743900         2017         8813         70000           Charlton County For Station 01 Folkston         3         2400000         2017         8813         70000           Valantlon County Memorial Hospital         3         2400000         2017         2813         70000           Valantlon County Memorial Hospital         3         2400000         2017         28050         100000		ntial
Mark for the field of Chronic Mark for the	New Life Baptist Church         3         225000         2017         9550           New Life Baptist Church         3         225000         2017         9550         137750           On anthon County FD Station OI Folloston         3         174300         2017         5813         70000           Charlton County FD Station OI Folloston         3         174300         2017         5813         70000           Valeant County Station OI Folloston         3         2400000         2017         5813         70000           Valeant County Nemerial Hospital         3         1602000         2017         2813         70000           Valeant County Menotial Hospital         3         16022600         2017         28000         100000		uttor Arabia Domulation
30         564700         1020         13735           Carlet Councy Sareff X- Click         2	Setury to Station 01 Foliciton         3         1743900         140230         1377350           Charlton County Sheriff's Office         3         1743000         2017         5813         70000           Charlton County Sheriff's Office         3         2400000         2017         5813         70000           Charlton County Sheriff's Office         3         245600         2017         8000         100000           Charlton County Memorial Hospital         3         10825600         2017         35056         160000	Education, coursion, day care, day care Emergency Services, Emergency Services, Private	ntial
Christian Gunty F3 Station (1) Foldson         3         174300         2011         6110         0         Trangendy Services, Free Fighters, Free Fighte	Chartlen County FD Station 01 Folkston         3         1743900         2017         5813         70000           Chartlen County Sheriff's Office         3         2400000         2017         8000         100000           Chartlen County Sheriff's Office         3         2400000         2017         8000         100000           Chartlen County Gouthouse         3         6945600         2017         2152         160000           Vacant Chartlen County Memorial Hospital         3         10825800         2017         36086		
Other for christing         3         240000         2017         8000         20000         2017         0 use infrocement, Jave Enforcement,	Charleon County Sheriff's Office         3         2400000         2017         8000         100000           Charleon County Counthouse         3         6945600         2017         23152         160000           Vacant Charlton County Memorial Hospital         3         10825800         2017         36086		ntial
Ontifun Convir, Contribute         3 69500         207         2132         5000         201         0 dw Enforcement, Law Enforcement, Court House,	Charlton County Courthouse         3         6345600         2017         23152         160000           Vacant Charlton County Memorial Hospital         3         10825800         2017         36086		Essential. Vulnerable Population
Variant Cantron Courty Memorial Hoopfal         3         1002:300         2017         3006         3017         3010 <td>Vacant Charlton County Memorial Hospital 3 10825800 2017 36086</td> <td></td> <td>ntial</td>	Vacant Charlton County Memorial Hospital 3 10825800 2017 36086		ntial
Gy of Folkston (WFC)       3       550.04       201       100       5000       201       0       600emment, Water/Sewer, Water/Sewer, Water/Sewer, Water/Sewer         Gy of folkston (oneby 06:=high Stond)       3       27.2000       201       125.600       201       0       600emment, Goverment, Water/Sewer         Charton County Water System       3       27.2120       201       101       0       600emment, Goverment, Water/Sewer         Charton County Water System       3       2000       2017       100       0       600emment, Goverment, Goverment, Water/Sewer         Charton County Antennoi Hostia IR       3       2000       2017       100       0       0       600emment, Goverment, Goverment, Water/Sewer       Mater/Sewer         Charton County Health Dect.       3       56000       2017       100       2017       0       600emment, Goverment, Mater/Sewer         Charton County Health Dect.       3       500000       2017       100       17700       2017       0       600emment, Goverment, Mater/Sewer         Charton County Health Dect.       3       3       2000       2017       100       0       600emment, Goverment, Go			Essential. Vulnerable Population
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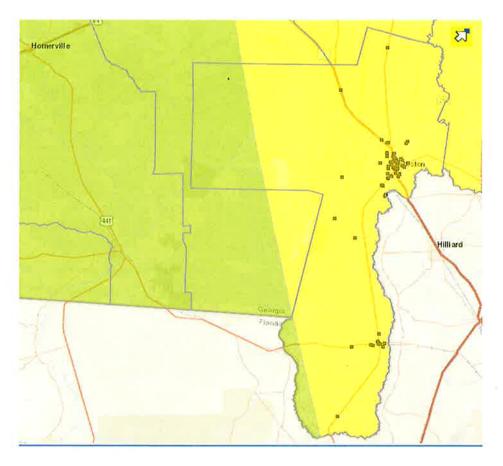
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Georgia GA DHB DEACS	Coastal Pines Adult Ed	Charlton County Commission Offices	Charlton County Storage Building OERC			GEO Corrections State Drison			McKinney Community Health Center	Visiting Nurses	Charlton County 911	Enlisten Bark Care And Bohakitanian		U.F. Health	Charitton County BOE-Folkston Elementary School		Charitori County BUE-Bethune Middle School	City of Folkston Water System-Burntfort Road	Prison Lift Station	U.S. 301 N Lift Station	Dimensional Crasses 1 (fr Chartian		WHIN SUPERI UT STATION		Overpass Lift Station	Okefenokee Drive Lift Station						Charlton County BOE-Maintenance	Folkston Police Department	Georgia Power Substation				Hirst Baptist Church	Amelia Care	54			y Homeland Police Department	/ City of Homeland City Hail	y City of Homeland Water System	v City of Homeland Waterline System				.y Pinevillage Campground			-	10	GRAND TOTAL 103
Folkston city	Folkston city	Folkston city	Folkston city	Folkston city	Folkston city	Folkston city	Collecton aitur	5		Folkston city	Folkston city	Folkston city	5	Folkstan city	Folkston city	Eollecton city.	5	Folkston city	Folkston city	Folkston city	Enlberon city	53		Folkston city	Folkston city	Folkston city	Folkston city	Eolketon citro	5	HOIKSTON CITY	Folkston city	Folkston city	Folkston city	Folkston city	Enliveran city	Collection of the	≥	FORCEON CITY	Folkston city		- 1	Homeland city	Homeland city	Homeland city	Homeland city	Homeland city	1	полненала спу	Homeland city	Homeland city	Homeland city	- 77	3		Ε.



### CHARLTON COUNTY & CITIES OF FOLKSTON AND HOMELAND PDM GEMA THUNDERSTORM HAZARD MAP

No Color = No Value

Please see attached cover sheet regarding score definitions

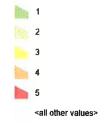


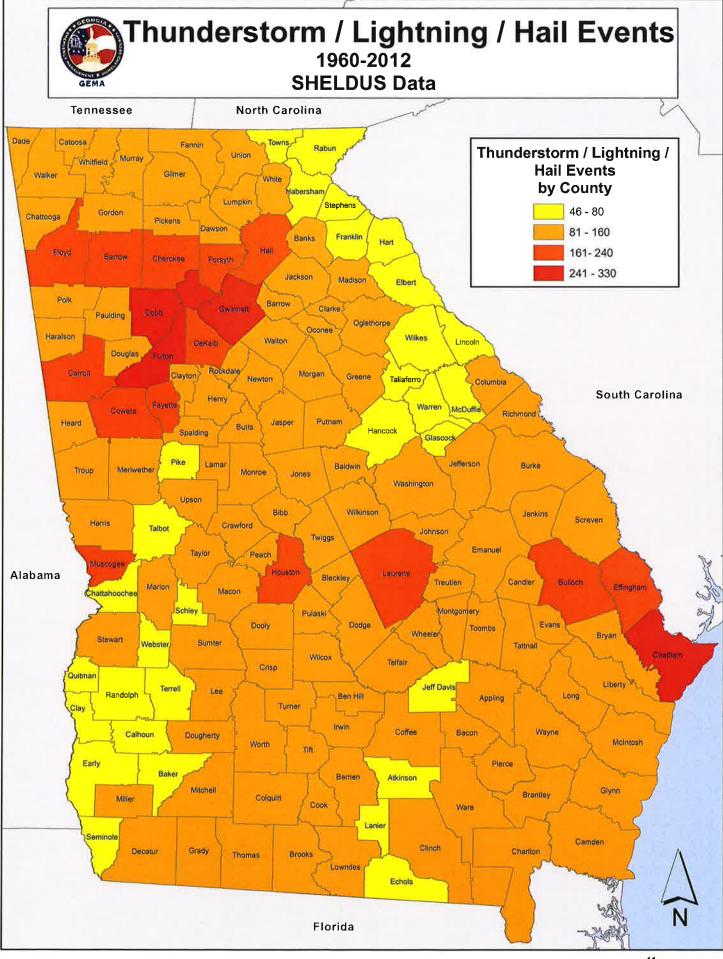
# CHARLTON COUNTY & CITIES OF FOLKSTON AND HOMELAND PDM GEMA WIND HAZARD MAP

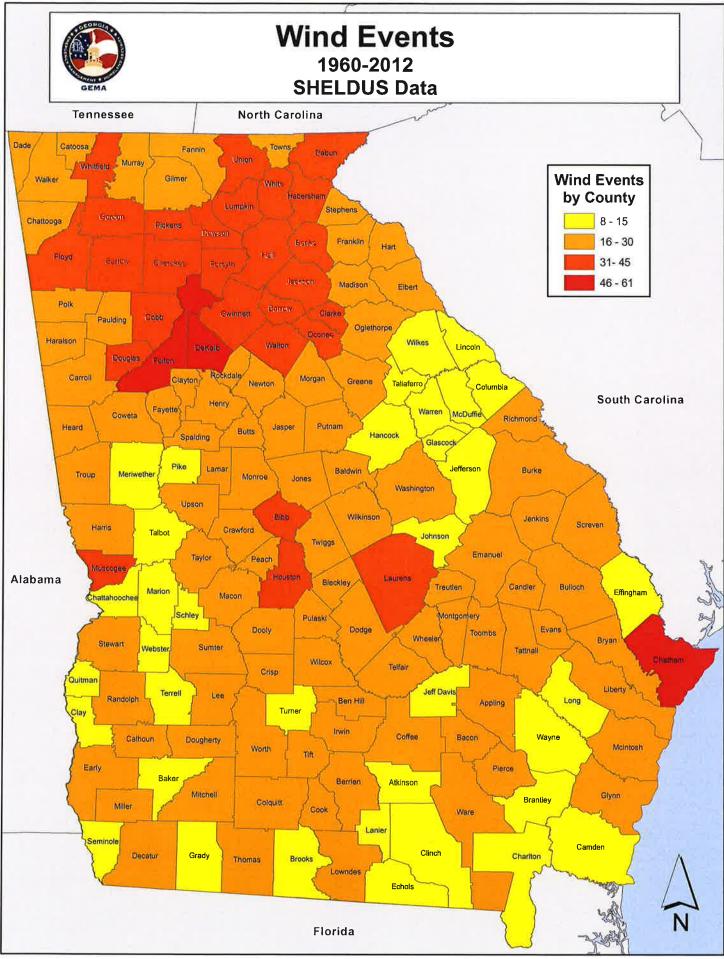
The Wind Hazard Scores are based on the 2000 International Building Code, figure 1609 contours showing 3 second gust wind speeds with a 50 year return interval. The Northwest portion of the state scored an additional point for the 250 mph community tornado shelter design zone according to FEMA publications.

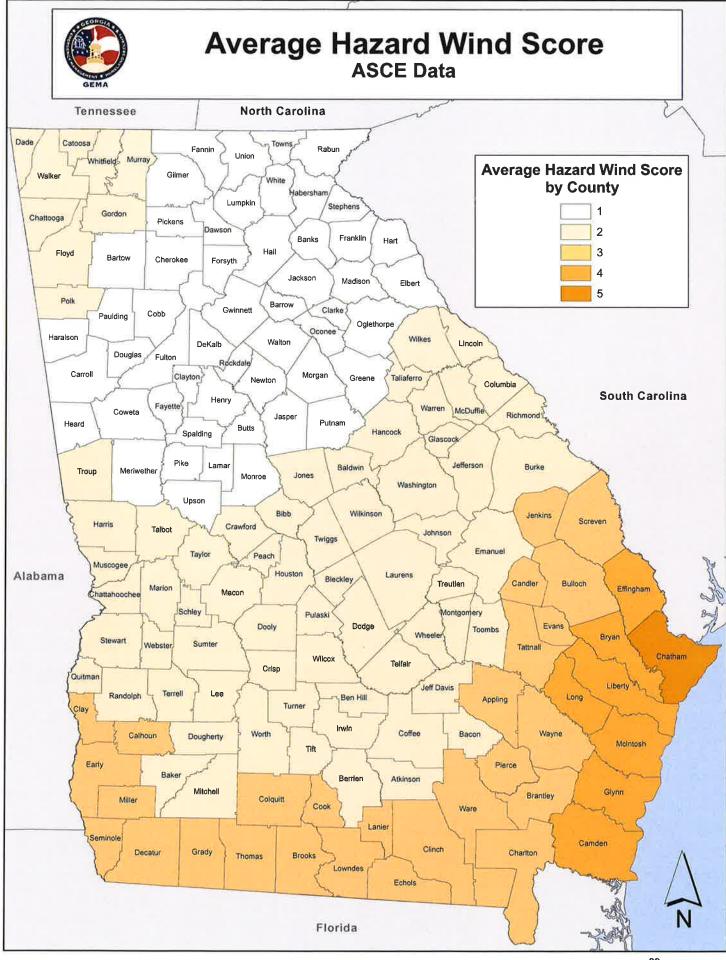
Score	Original Value	Description
5	> 120 mph	3 second gust greater than 120 mph
4	110 to 119 mph	
3	100 to 109 mph	
2	90 to 99 mph (or ZONE IV)	This score is also given to an area with Zone IV of the "Design Wind Speed Map for Community Shelters," representing an area exposed to 250 mph winds. This area is the Northwestern corner of the state.
1	< 90 mph	

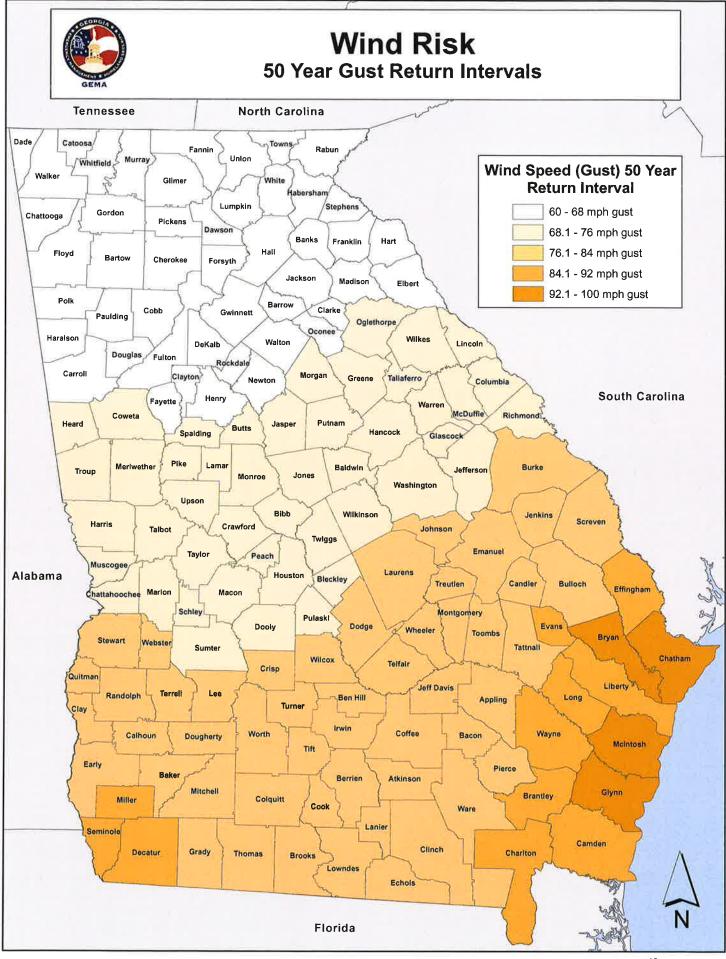












#### VI. Severe Winter Storm

A. Severe Winter Storm Description – As a general rule, Charlton County can be considered to have a moderate climate for the majority of the year. However, it is not immune to occasional temperature extremes and the inherent risks that accompany them.

Severe Winter Storms are not prevalent in Southeast GA but are an ever present hazard nonetheless. Historically, the southeastern part of the state has been known for its milder winter climate. However, in the past few years it has become more common for our region to experience abnormally cold periods which have ranged from a few days to a couple of weeks. By abnormally cold we are referring to hard freezes when temperatures drop well below freezing (26 degrees or lower) or several hours per day. These temperatures are usually the result of a cold front moving through the area and the speed with which the front passes determines the length and severity of the extreme temperatures. The fact that it is a more uncommon occurrence has a tendency to make it more of a risk since less people are prepared for it. Especially at risk are the low income, elderly and homeless who often do not have adequate means of heating to protect themselves from the dangerous effects of freezing temperatures.

B. Data – Worksheet 3A, GEMA Critical Facility Inventory Report, Maps, Etc.

#### GEMA Worksheet #3a Inventory of Assets Jurisdiction: Charlton County (Including Folkston & Homeland) Hazard: Hurricane/Tropical Storm, Tornado, Thunderstorms & Wind, Severe Winter Storms, Hail, Drought, Lightning, Extreme Heat

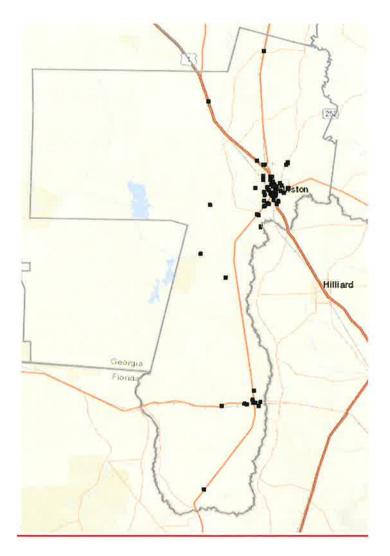
Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

100 a 20 10 100	N	Imber of Struct	ures	6	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	4,436	4,436	100.000%	363,752,000	363,752,000	100.000%	13,130	13,130	100%			
Commercial	683	683	100.000%	92,595,028	92,595,028	100_000%	0	0	#DIV/0!			
Industrial	58	58	100.000%	6,522,590	6,522,590	100 000%	0	0	#DIV/0!			
Agricultural	514	514	100.000%	21,520,093	21 520 093	100.000%	0	0	#DIV/0!			
Religious/ Non- profit	278	278	100.000%	16,133,448	16,133,448	100.000%	0	0	#DIV/0!			
Government	181	181	100.000%	86,301,963	86,301,963	100.000%	0	0	#DIV/0!			
Education	23	23	100.000%	9,425,883	9,425,883	100,000%	0	0	#DIV/0!			
Utilities	39	39	100.000%	89,340,735	89,340,735	100.000%	0	0	#DIV/0!			
Total	6 212	6.212	100.000%	685,591,740	685,591,740	100.000%	13,130	13,130	100%			

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

# PLEASE SEE

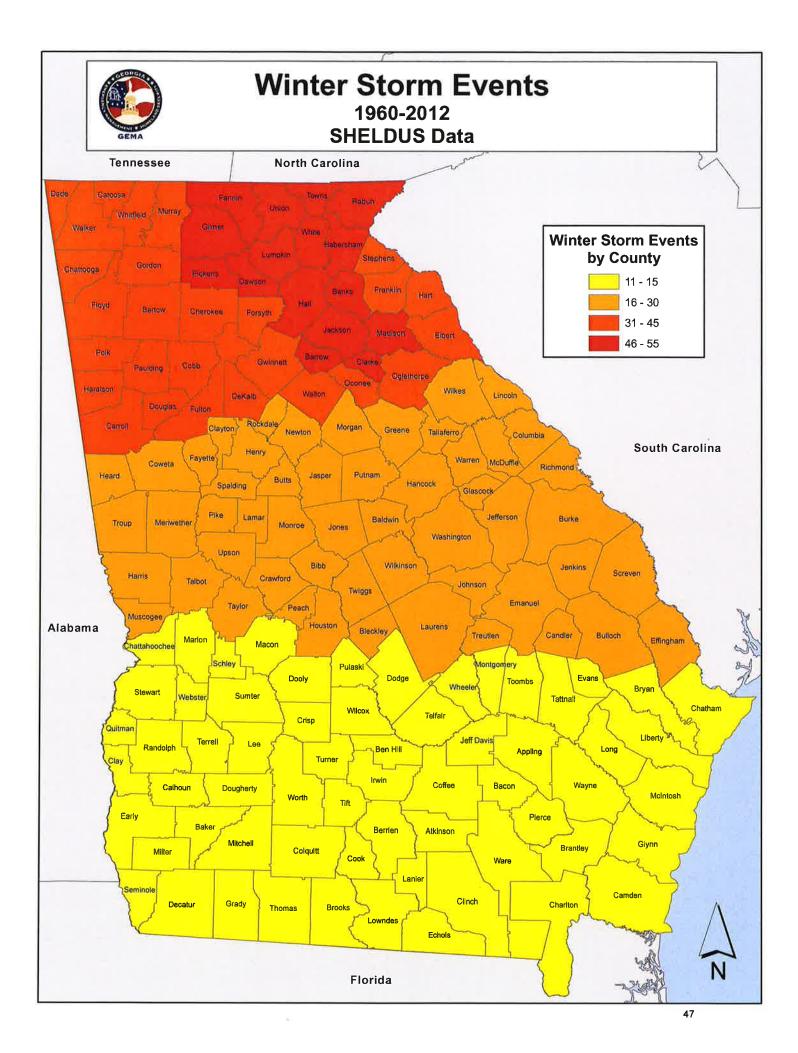
# GMIS CRITICAL FACILITIES DATA IN APPENDIX A PART I FOR HAZARD AMOUNTS

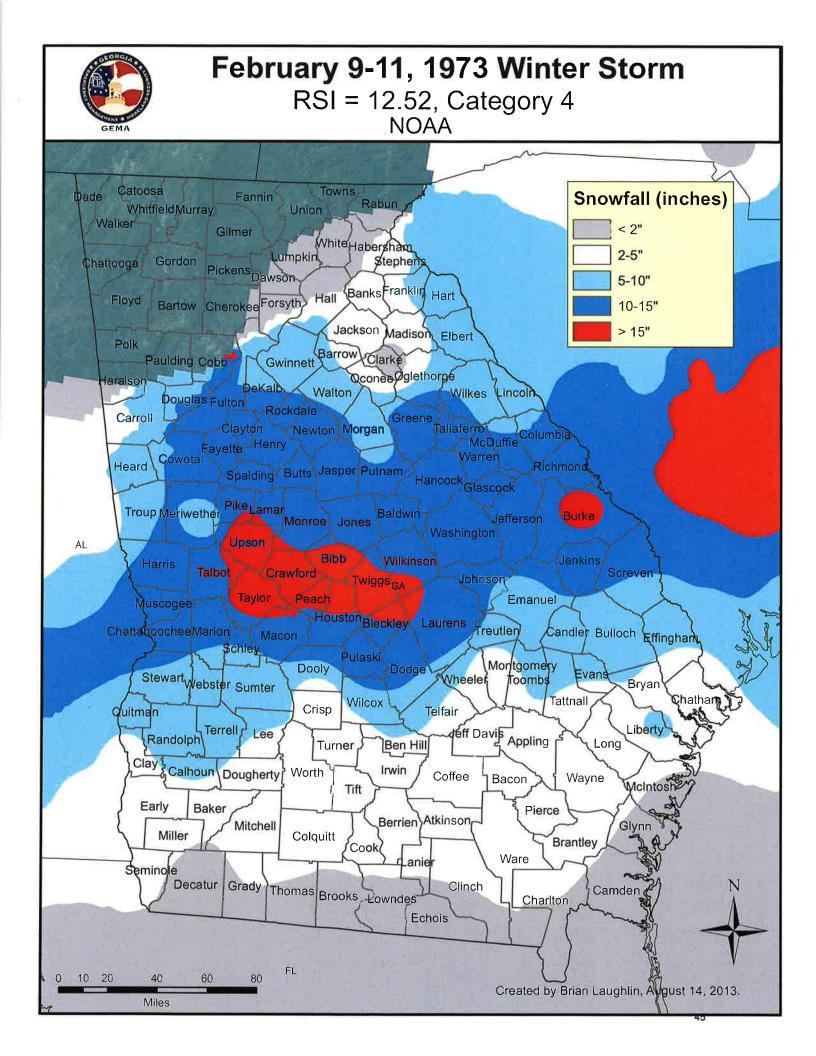


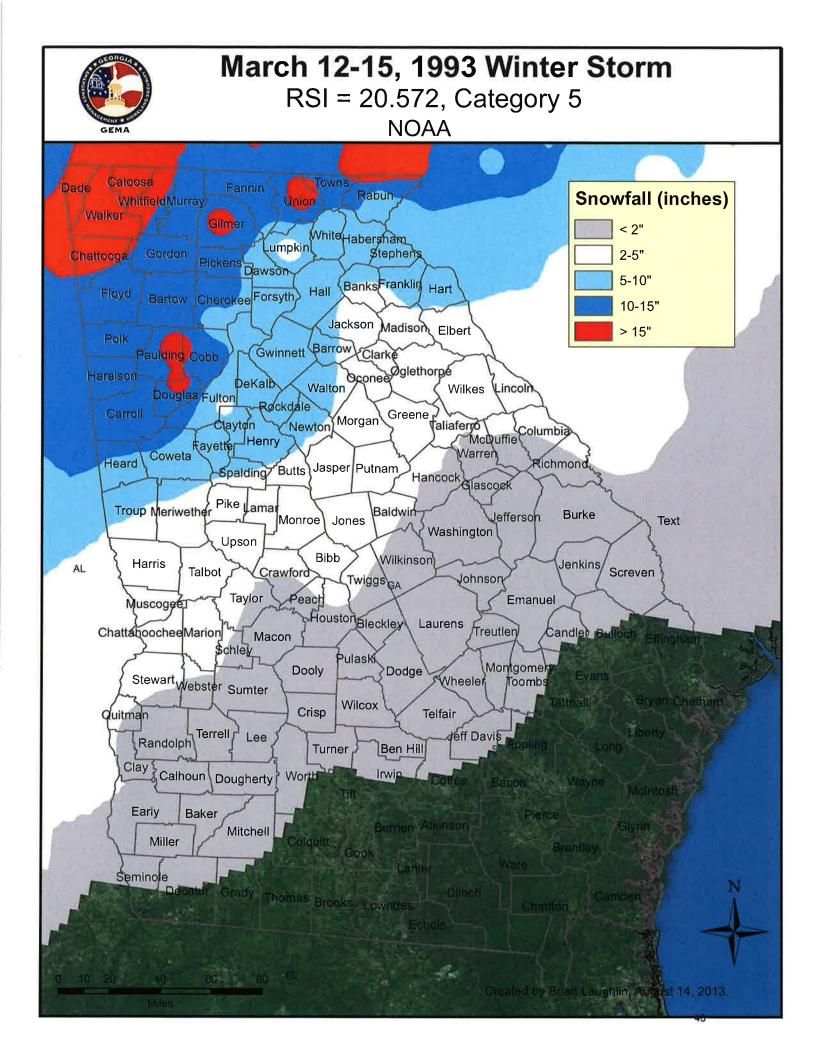
# CHARLTON COUNTY & CITIES OF FOLKSTON AND HOMELAND PDM GEMA SEVERE WINTER STORM HAZARD MAP

No Color = No Value

Please see attached cover sheet regarding score definitions







#### VII. Hail

- A. Hail Hazard Description Hail is formed when updraft currents within a thunderstorm carry water droplets to an altitude where freezing occurs. When these frozen ice particles become too heavy they fall to the ground in the form of hail stones. Hail can range in size from very small (pea sized) to large stones in excess of an inch in diameter. Generally speaking the larger stones are associated with more severe storms. Hail causes over \$1 billion in crop and property damage across the US each year. Fortunately, it has not historically been the cause of high amounts of damage in Charlton County, but with each storm the potential is still present. The greatest threat to crops is mainly to the numerous pecan orchards and cotton fields present in this and surrounding areas. There are also at least a handful of reports each year of hail damage to local vehicles and homes.
- B. Data Worksheet 3A, GEMA Critical Facility Inventory Report, Maps, Etc.

### GEMA Worksheet #3a Inventory of Assets Jurisdiction: Charlton County (Including Folkston & Homeland) Hazard: Hurricane/Tropical Storm, Tornado, Thunderstorms & Wind, Severe Winter Storms, Hail, Drought, Lightning, Extreme Heat

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	umber of Struct	ures	CONTRACTOR OF STREET	Value of Structures		N N	lumber of Peopl	e
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	\$ in Community or Slate	\$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	4,436	4,436	100.000%	363,752,000	363,752,000	100.000%	13,130	13,130	100%
Commercial	683	683	100.000%	92,595,028	92,595,028	100.000%	0	0	#DIV/0!
Industrial	58	58	100.000%	6,522,590	6,522,590	100,000%	0	0)	#DIV/0]
Agricultural	514	514	100.000%	21,520,093	21,520,093	100.000%	0	0	#DIV/0!
Religious/ Non- profit	278	278	100.000%	16,133,448	16,133,448	100.000%	0	0	#DIV/0!
Government	181	181	100.000%	86,301,963	86,301,963	100.000%	0	0	#DIV/0!
Education	23	23	100.000%	9,425,883	9,425,883	100.000%	0	0	#DIV/0!
Utilities	39	39	100.000%	89,340,735	89,340,735	100,000%	0	0	#DIV/0!
Total	6,212	6,212	100.000%	685,591,740	685,591,740	100.000%	13,130	13,130	100%

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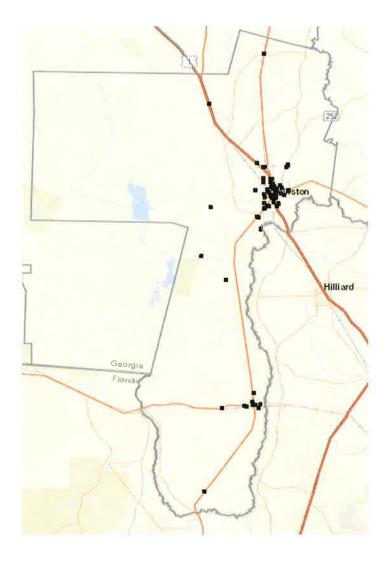
#### Task B. Determine whether (and where) you want to collect additional inventory data.

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

### PLEASE SEE

### GMIS CRITICAL FACILITIES DATA IN APPENDIX A PART I FOR HAZARD AMOUNTS

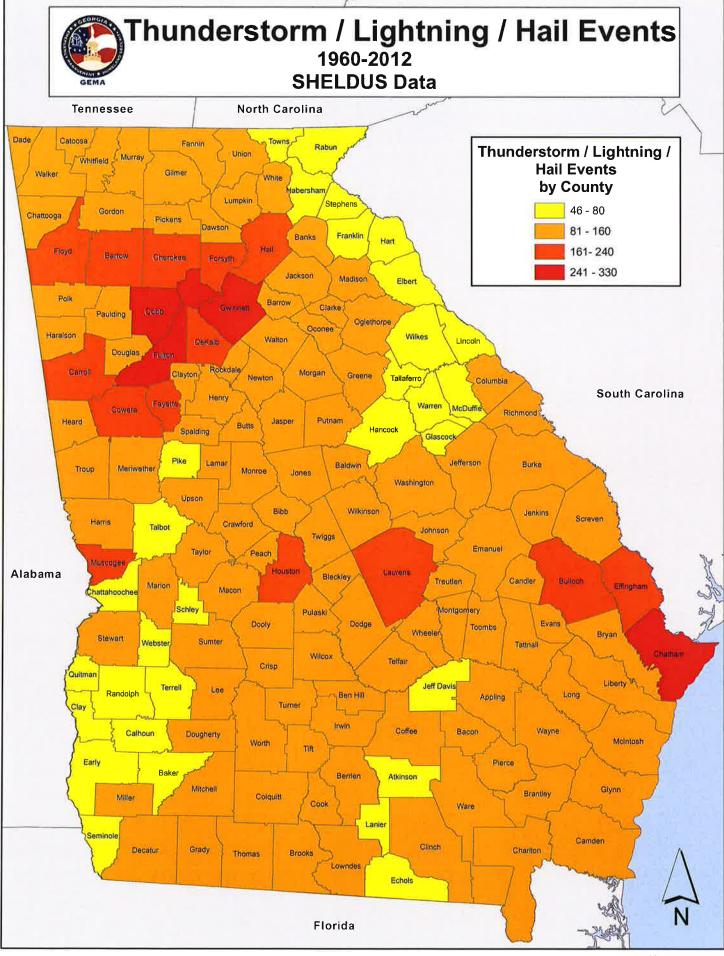
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### CHARLTON COUNTY & CITIES OF FOLKSTON AND HOMELAND PDM GEMA HAIL HAZARD MAP

No Color = No Value

Please see attached cover sheet regarding score definitions



#### VIII. Drought

- A. Drought Hazard Description A drought is a prolonged period without rain, particularly during the planting and growing season in agricultural areas. It can range from two weeks to six months or more and affects water availability and quality. Drought conditions pose a hazard in that they could cause disruption to public and private underground water sources for domestic use. The primary source of domestic water in Charlton County comes from underground sources. The Floridian Aquifer provides a significant amount of domestic water to the public in Charlton County. Water levels in the aquifer vary depending on the amount of recharge. Thus, during long periods of drought, water levels may drop below the levels of the wells, causing disruption in the water supply.
- B. Data Worksheet 3A, GEMA Critical Facility Inventory Report, Maps, Etc.

### GEMA Worksheet #3a Inventory of Assets Jurisdiction: Charlton County (Including Folkston & Homeland) Hazard: Hurricane/Tropical Storm, Tornado, Thunderstorms & Wind, Severe Winter Storms, Hail, Drought, Lightning, Extreme Heat

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.

and the second second	Ni	umber of Struct	ures	1	/alue of Structures		N	lumber of Peopl	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	4,436	4,436	100,000%	363,752,000	363,752,000	100_000%	13,130	13,130	100%
Commercial	683	683 58	100.000%	92,595,028	92,595,028	100.000%	0	0	#DIV/0!
Industrial	58		100.000%	6,522,590	6,522,590	100.000%	0]	0	#DIV/0!
Agricultural	514	514	100.000%	21,520,093	21,520,093	100.000%	0	0	#DIV/0!
Religious/ Non- profit	278		100.000%	16,133,448	16,133,448	100.000%	0	0	#DIV/01
Government	181	181	100.000%	86,301,963	86,301,963	100.000%	0	0	#DIV/0!
Education	23	23	100.000%	9,425,883	9,425,883	100.000%	0	0	#DIV/0!
Utilities	39	39	100.000%	89,340,735	89,340,735	100.000%	0]	0	#DIV/0!
Total	6,212	6,212	100.000%	685,591,740	685,591,740	100.000%	13.130	13,130	100%

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

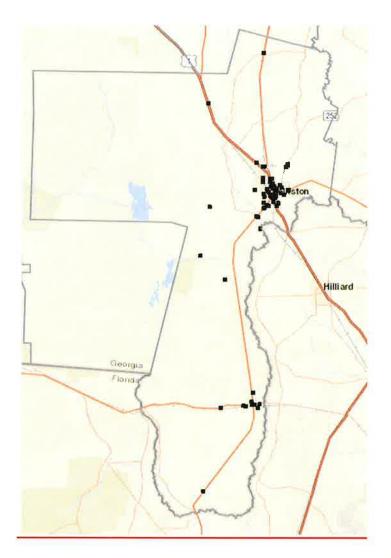
1. Do you know where the greatest damages may occur in your area?	Y	N X
2. Do you know whether your critical facilities will be operational after a hazard event?		Х
3. Is there enough data to determine which assets are subject to the greatest potential damages?	Х	
4. Is there enough data to determine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

### PLEASE SEE

### GMIS CRITICAL FACILITIES DATA IN APPENDIX A PART I FOR HAZARD AMOUNTS

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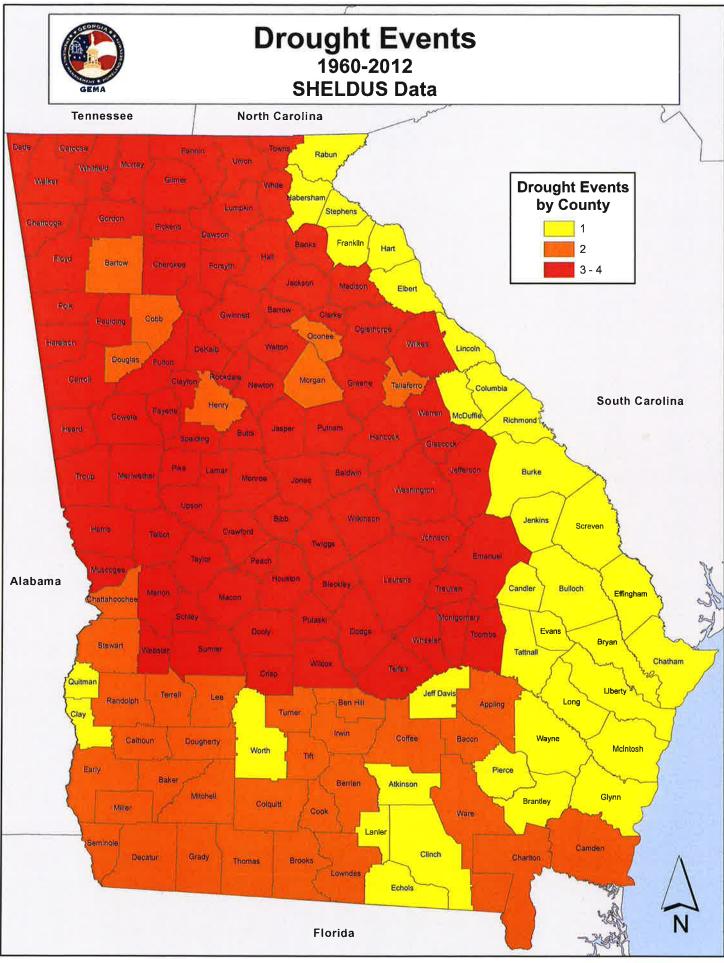
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### CHARLTON COUNTY & CITIES OF FOLKSTON AND HOMELAND PDM GEMA DROUGHT HAZARD MAP

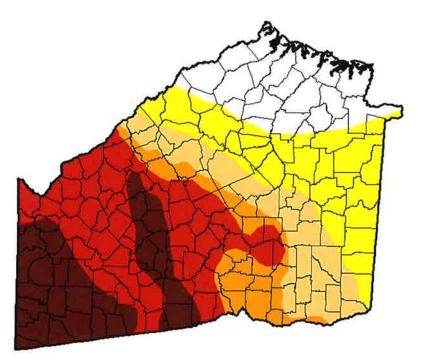
No Color = No Value

Please see attached cover sheet regarding score definitions



Page 1 of 1

# U.S. Drought Monitor Georgia



### November 8, 2016 (Released Thursday, Nov. 10, 2016) Valid 7 a.m. EST

Drought Conditions (Percent Area)

	הנמ	ימייי רר	JE KURENOF	Nara) SI	טיטעקיוג טטיאוווטרוא (רפונפיוג ארפא)	eaj
	None	D0-D4 D1-D4	D1-D4	NG-20	D3-D4	D4
Current	15,69	84.31	64.43	50.53	42,02	17,22
Last Week 11/2016	26.41	73,59	57,84	49.92	13'8E	14.00
3 Months Ago 892016	31,85	68,15	44.75	30.41	8,83	0.0
Start of Calendar Year 12292015	87,36	12.64	00.0	0,00	00.0	0.0
Start of Weter Year 927/2016	35,37	64,63	45,84	34,50	14,67	1,58
<b>One Year Ago</b> #/10/2015	91.60	8.40	1.73	0,00	0,00	0,00
:						





The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

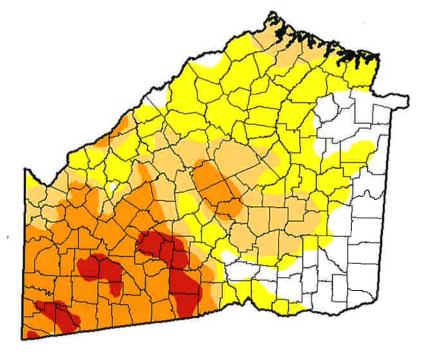
Author: Deborah Bathke National Drought Miligation Center

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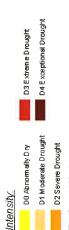
http://droughtmonitor.unl.edu/

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# August 30, 2016 (Released Thursday, Sep. 1, 2016) Valid 8 a.m. EDT

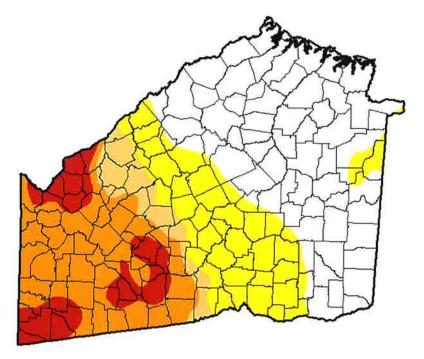
	Droi	Jaht Co	maitior	ıs (Per	Drought Conditions (Percent Area)	ea)
	None	D0-D4	D1-D4	D0-D4 D1-D4 D3-D4 D3-D4	D3-D4	D4
Current	18,68	81,32	49.28	28,20	5,27	0.0
Last Week 8232016	26.02	73,98	48,97	28,68	5,92	0.0
3 Months Ago 521/2016	62.64	37,36	27.96	4,06	00'0	0.0
Start of Calendar Year 12292015	87,36	12,64	0,00	00.0	0,00	0010
Start of Widter Year 9292015	63.46	36,54	17,71	1, 20	0.00	0.0
One Year Ago 81/2015	50,17	49.83	27,05	2,99	0,00	0,00
:						



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying lext summary for forecast statements.

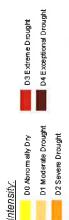
Author: Chris Fenimore NCEI/NESDIS/NOAA





## (Released Thursday, Jul. 14, 2016) Valid 8 a.m. EDT July 12, 2016

	Dig	<i>ight</i> Cc	nditior	ns (Pen	Drought Conditions (Percent Area)	ea)
	None	D0-D4	D0-D4 D1-D4	D3-04 D3-D4	D3-D4	D₄
Çurrent	44.72	55,28	33.76	28.13	8,68	80
Last Week 752016	51.69	48.31	33.76	28.12	6.77	00
3 Months Ago 472/2016	78,63	21,37	0.0	0,00	8	0.0
Start of Calendar Year 12292015	87,36	12,64	0,0	0.00	0.00	0.0
Start of Widter Year 9292045	63,46	36,54	17,71	1,20	0,00	0,0
<b>One Year Ago</b> 7/4/2015	54,87	45.13	15,82	2,46	0,00	0,00

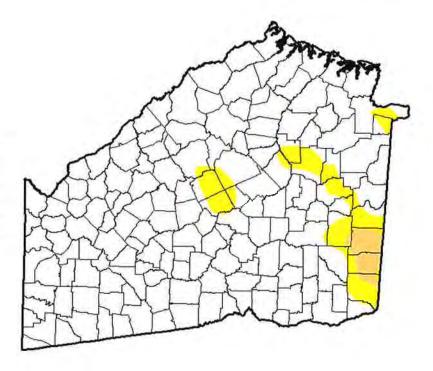


The Drought Monitor focuses on broad-scale conditions. Loc al conditions may vary. See accompanying text summary for forecast statements.

Author: David Miskus NOAANWSNCEP/CPC



e late



## (Released Thursday, Nov. 12, 2015) Valid 7 a.m. EST November 10, 2015

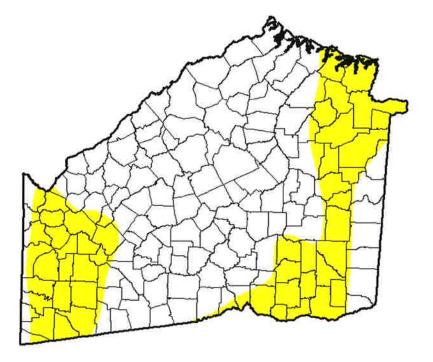
	None	None D0-D4 D1-D4 02-D4 D3-D4	D1-D4	02.04	D3-D4	D4
Current	91.60	8.40	1.73	00'0	0.00	0.00
Last Week	17.71	22 29	6.35	0.00	80	800
3 Months Ago 8712015	38.96	61.04	31,32	00 0	0, 00	80
Start of Calendar Year 12302014	94,23	5 77	00 0	00.0	000	80
Start of Water Year 9292015	63 46	36 54	17.71	1.20	0.00	0.00
One Year Ago 11/11/2014	40 45	59 55	16,05	1.96	0 0	0.0

D4 Exceptional Drought D3ExtremeDrought D1 Moderate Drought D0 Abnorm ally Dry D2 Severe Drought Intensity.

The Drought Monitor focuses on broad-scale conditions Loc al conditions may vary. See accompanying text summary for forecast statements

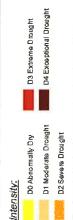
Author: Richard Tinker OPC/NOAA/NWS/NCEP





# May 12, 2015 (Released Thursday, May. 14, 2015) Valid 8 a.m. EDT

	Dug	Drought Conditions (Percent Area)	nditior	ns (Per	cent Ar	(ea
	None	D0-D4	D1-D4	D0-D4 D1-D4 D2-D4 D3-D4	D3-D4	Z
Current	67,29	32,71	0 00	00'0	0,00	0,00
Last Week s5/2015	74,17	25,83	0,00	00'0	0,00	00.0
3 Months Ago 2402015	86.03	13,97	0 00	0 0	0,00	00'0
Start of Calendar Year 12302014	94.23	5,77	0.00	00 0	0.00	0,00
Start of Water Year 860/2014	41,99	58.01	15,39	4, 76	0.00	0,00
One Year Ago shazota	92.76	4.24	0.00	00'0	0,00	80
Intensity:						



The Drought Monitor facuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author: Mark Svoboda

National Drought Mitigation Center



(Released Thursday, Nov. 20, 2014) Valid 7 a.m. EST November 18, 2014

**U.S. Drought Monitor** 

Georgia

Drought Conditions (Percent Area)

	None	D0-D4	D0-D4 D1-D4 02-D4	D2-D4	D3-D4	g
Current	41,51	58,49	14,03	0/10	0,00	0'00
Last Week	40,45	59,55	16.05	1.96	0.0	0,00
3 Months Ago 8192014	51,67	48,33	16,47	3,21	0,0	00'0
Start of Calenciar Year 1231/2013	92.36	7.64	00'0	0,00	0.0	000
Start of Water Year 9302014	41,99	58,01	15,39	4,76	0,00	0,00
<b>One Year Ago</b> 11/192013	47.02	52,98	0,0	0,0	0,00	00.0

Intensity:

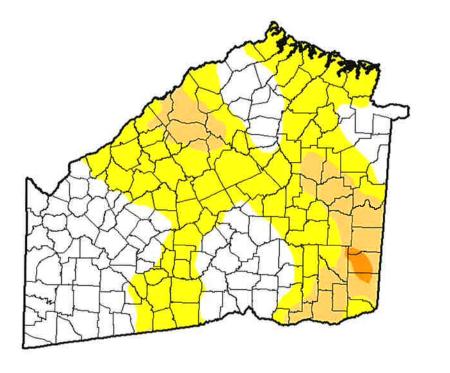


The Drought Monitor focuses on broad-scale conditions. Loc al conditions may vary. See accompanying text summary for forecast statements.

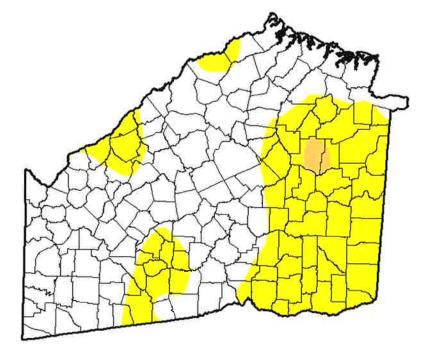
**Author:** Eric Luebehusen U.S. Department of Agriculture



http://droughtmonitor.unl.edu/



Page 1 of 1



# **July 29, 2014** (Released Thursday, Jul. 31, 2014) Valid 8 a.m. EDT

	Drof	ight Cc	Drought Conditions (Percent Area)	ıs (Pen	cent An	ea)
	None	D0-D4 D1-D4	D1-D4	107-04	D3-D4	D4
Сиптент	61,29	38.71	1,00	00'0	00'0	00'0
Last Week 722/2014	80.28	19.72	0.00	0.0	0.0	0.0
3 Months Ago 4282014	96.21	3,79	0,00	0,00	0,00	0,00
Start of Calendar Year 12312013	92.36	7.64	0.00	0,00	0.00	0.00
Start of Water Year 1012013	100.00	0.00	0.00	0.00	0,00	0,00
<b>One Year Ago</b> 7302013	100,00	0,00	0,00	0,00	0,00	0,00
(afancifi <i>r</i>						



D4 E xceptional Drought 📕 D2 Severe Drought

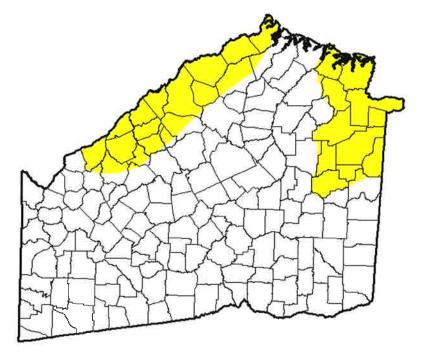
The Drought Monifor focuses on broad-scale conditions. Loc al conditions may vary. See accompanying text summary for forecast statements.

Author: Brad Rippey U.S. Department of Agriculture



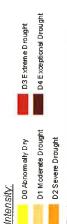
http://droughtmonitor.unl.edu/

Page 1 of 1



### (Released Thursday, Oct. 24, 2013) Valid 7 a.m. EDT October 22, 2013

	Val		Vallu / a.III, E.D.I				
	Droi	ught Co	uditior	is (Pen	Drought Conditions (Percent Area)	ea)	
0	None	D0-D4	00-D4 D1-D4	D2-D4	D3-D4	D4	
Сипенt	79.40	20.60	0,00	0,00	0, 00	0.0	
Last Week 10752013	100.00	0,00	0,00	0.0	0,00	0,00	
<b>3 Months Ago</b> 7232013	100,00	00 0	00.0	0,00	800	0,0	
Start of Calendar Year 1//2013	1,63	98.37	89,49	64.87	36,96	10,25	
Start of Water Year 10/2013	100.00	0,00	0,00	0.00	0.00	0.00	
<b>One Year Ago</b> 10232012	39,60	60.40	47,11	40.12	23 25	10,03	
Intensity:							

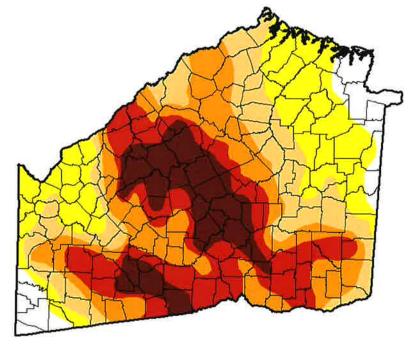


The Drought Monikor focuses on broad-scale conditions Loc al conditions may vary. See accompanying text summary for forecast statements.

**Author:** Brian Fuchs

National Drought Mitigation Center



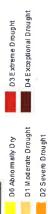


## (Released Thursday, Nov. 22, 2012) Valid 7 a.m. EST November 20, 2012

oft On Drov

	DLOI	Drought Conditions (Percent Area)	naition	IS (Her	centAr	ea)	
	None	00-D4 D1-D4	D1-D4	D2-D4	D3-D4	g	
Current	6,93	93,07	71.79	53,10	31,81	13 <mark>.</mark> 53	
Last Week 11/13/2012	9.02	86.08	59.92	49,22	27,24	13.53	
3 Months Ago 821/2012	31,03	68,97	57,36	45,36	37.67	16,98	
Start of Calendar Year 1.02012	12,07	87 <mark>,93</mark>	85.36	81.00	63.92	0.00	
Start of Water Year 925/2012	37,30	62.70	52,44	42,66	34.04	17.18	
One Year Ago	4.77	95,23	91,50	83.66	64.26	0.00	
Contraction of the							

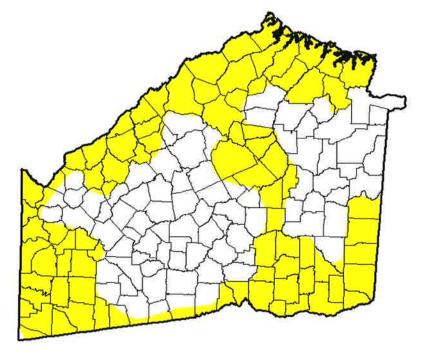
### Intensity.



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying lext summary for forecast statements.

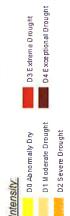
Author: Eric Luebehusen U.S. Department of Agriculture





# July 20, 2010 (Released Thursday, Jul. 22, 2010) Valid 7 a.m. EST

	Droi	Drought Conditions (Percent Area)	nditior	is (Pen	cent Ar	(ea)	
	None	D0-D4	00-D4 D1-D4	D2-D4	D3-D4	둼	
Current	47,06	52.94	0.00	00.00	0.00	0, 00	
Last Week 2/13/2010	93.55	6,45	0.00	00.0	0,00	0,00	
3 Months Ago	97.21	2.79	0.00	0,00	0.00	0 0	
Start of Calendar Year 1229/2009	100.00	0.00	0.00	0.00	0.00	0.00	
Start of Water Year 923/2009	96.07	3,93	0.00	0,00	0, 00	0.00	
One Year Ago 7/21/2009	61.92	38.08	0.00	00.00	0,00	0.00	
0.52 1405							



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author: Anthony Artusa NOAA/NWS/NCEP/CPC



#### IX. Lightning

- A. Lightning Hazard Description –Lightning is the discharge of electricity from cloud to ground and is most commonly associated with thunderstorms. The discharge is usually vertical from the cloud to ground, but can occur at angles from the storm, extending a good distance from the storm. Lightning is often referred to as one of nature's number one killers due to the fact that it results in an average of nearly 60 deaths nationwide each year.
- B. Data Worksheet 3A, GEMA Critical Facility Inventory Report, Maps, Etc.

### GEMA Worksheet #3a Inventory of Assets Jurisdiction: Charlton County (Including Folkston & Homeland) Hazard: Hurricane/Tropical Storm, Tornado, Thunderstorms & Wind, Severe Winter Storms, Hail, Drought, Lightning, Extreme Heat

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.

NE	N	umber of Struct	ures		Value of Structures		1	umber of Peopl	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	4,436	4,436	100.000%	363,752,000	363,752,000	100.000%	13,130	13,130	100%
Commercial	683	683	100.000%	92,595,028	92,595,028	100.000%	0)	0	#DIV/0!
Industrial	58	58	100.000%	6,522,590	6,522,590	100.000%	0	0	#DIV/0!
Agricultural	514	514	100.000%	21,520,093	21,520,093	100.000%	0	0	#DIV/0!
Religious/ Non- profit	278	278	100_000%	16,133,448	16,133,448	100.000%	0	0	#DIV/0!
Government	181	181	100.000%	86,301,963	86,301,963	100.000%	0	٥	#DIV/0!
Education	23	23	100.000%	9,425,883	9,425,883	100.000%	0	0	#DIV/0!
Utilities	39	39	100_000%	89,340,735	89,340,735	100.000%	0	0	#DIV/0!
Total	6,212	6,212	100.000%	685,591,740	685,591,740	100.000%	13,130	13,130	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?	Y	N X
2. Do you know whether your critical facilities will be operational after a hazard event?		Х
3. Is there enough data to determine which assets are subject to the greatest potential damages?	Х	
4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?	Х	
5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?	Х	
6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?	X	
7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?		X

### PLEASE SEE GMIS CRITICAL FACILITIES DATA IN APPENDIX A PART I FOR HAZARD AMOUNTS

160

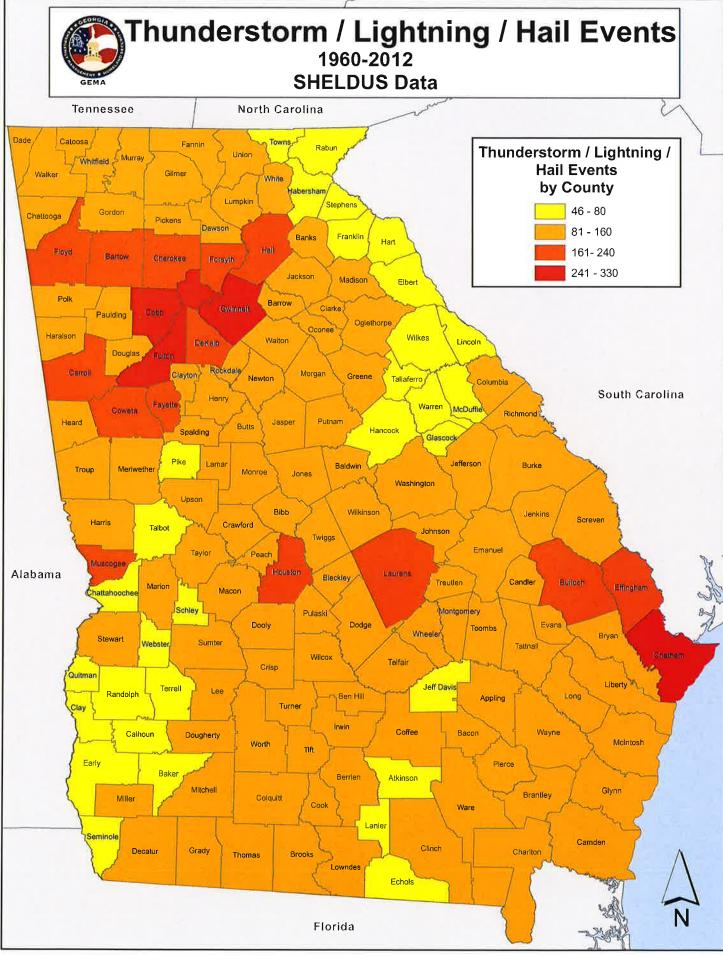
2



### <u>CHARLTON COUNTY & CITIES OF FOLKSTON AND HOMELAND</u> <u>PDM GEMA LIGHTNING HAZARD MAP</u>

No Color = No Value

Please see attached cover sheet regarding score definitions



#### X. Extreme Heat

A. Extreme Heat Description – As a general rule, Charlton County can be considered to have a moderate climate for the majority of the year. However, it is not immune to occasional temperature extremes and the inherent risks that accompany them.

The most prevalent temperature extreme is the high heat and humidity that often occurs beginning in late spring and sometimes occurring as late as the early fall months. The frequency and duration of these conditions varies, but in general they are a constant threat for several months out of every year. These elevated temperatures pose a number of significant risks, such as heat exhaustion and/or stroke, to those exposed to their effects.

B. Data – Worksheet 3A, GEMA Critical Facility Inventory Report, Maps, Etc.

### GEMA Worksheet #3a Inventory of Assets Jurisdiction: Charlton County (Including Folkston & Homeland) Hazard: Hurricane/Tropical Storm, Tornado, Thunderstorms & Wind, Severe Winter Storms, Hail, Drought, Lightning, Extreme Heat

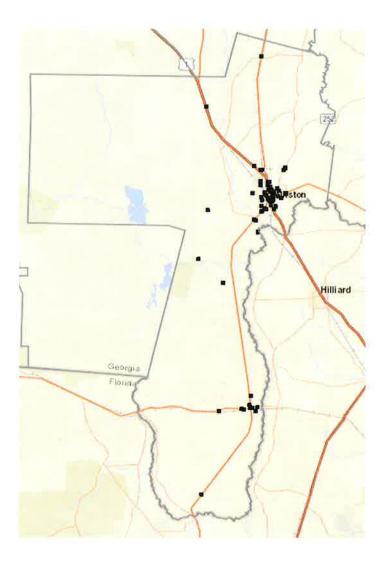
Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

A STATISTICS	N	umber of Struct	ures	the second second	alue of Structures	1	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	4,436	4,436	100.000%	363,752,000	363,752,000	100,000%	13,130	13,130	100%	
Commercial.	683	683	100,000%	92,595,028	92,595,028	100,000%	0	0)	#DIV/0!	
Industrial	58	58	100.000%	6,522,590	6,522,590	100.000%	0	0	#DIV/0!	
Agricultural	514	514	100.000%	21,520,093	21,520,093	100.000%	0)	0)	#DIV/0!	
Religious/ Non-	278	278	100.000%	16,133,448	16,133,448	100.000%	0	0	#DIV/0!	
Government	181	181	100.000%	86,301,963	86,301,963	100.000%	0	0)	#DIV/0!	
Education	23	23	100.000%	9,425,883	9,425,883	100.000%	0	0	#DIV/0!	
Utilities	39	39	100.000%	89,340,735	89,340,735	100.000%	0	0	#DIV/0!	
Total	8,212	6,212	100.000%	685,591,740	685,591,740	100.000%	13,130)	13,130)	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?	Y N X
<ol> <li>Do you know whether your critical facilities will be operational after a hazard event?</li> <li>Is there enough data to determine which assets are subject to the greatest potential damages?</li> </ol>	X X
4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?	Х
5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?	Х
6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?	Х
7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?	Х

### PLEASE SEE GMIS CRITICAL FACILITIES DATA IN APPENDIX A PART I FOR HAZARD AMOUNTS



### CHARLTON COUNTY & CITIES OF FOLKSTON AND HOMELAND PDM GEMA EXTREME HEAT HAZARD MAP

No Color = No Value

Please see attached cover sheet regarding score definitions

- XI. Public Health Emergency
- A. Public Health Emergency Hazard Description-The <u>National Disaster Medical System</u> Federal Partners Memorandum of Agreement defines a public health emergency as "an emergency need for health care [medical] services to respond to a disaster, significant outbreak of an infectious disease, bioterrorist attack or other significant or catastrophic event. For purposes of NDMS activation, a public health emergency may include but is not limited to, public health emergencies declared by the <u>Secretary of HHS</u> [Health and Human Services] under 42 U.S.C. 247d, or a declaration of a major disaster or emergency under the <u>Robert T. Stafford Disaster Relief and Emergency Assistance Act</u> (Stafford Act), 42 U.S.C. 5121-5206).

Source: Wikipedia "Public Health Emergency-United States"

<u>A Public Health Emergency from the Perspective of the U.S. National Disaster Medical</u> <u>System (NDMS)</u>". 2007-04-10.

NATIONAL DISASTER MEDICAL SYSTEM MEMORANDUM OF AGREEMENT AMONG THE DEPARTMENTS OF HOMELAND SECURITY, HEALTH AND HUMAN SERVICES, VETERANS AFFAIRS, AND DEFENSE" (PDF). 2005-09-26.

B. Data – Worksheet 3A, GEMA Critical Facility Inventory Report, Maps, Etc.

### GEMA Worksheet #3a Inventory of Assets Jurisdiction: Charlton County (Including Folkston & Homeland) Hazard: Hurricane/Tropical Storm, Tornado, Thunderstorms & Wind, Severe Winter Storms, Hail, Drought, Lightning, Extreme Heat

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.

	NI NI	umber of Struct	ures	Part and the second	/alue of Structures	5-3-3-3-3-	Number of People			
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	\$ in Community or State	\$ in Hezard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area	
Residential	4,436	4,436	100.000%	363,752,000	363,752,000	100.000%	13,130	13,130	100%	
Commercial	683	683	100.000%	92,595,028	92,595,028	100.000%	0	0	#DIV/01	
Industrial	58	58	100.000%	6,522,590	6,522,590	100.000%	0	0	#DIV/0!	
Agricultural	514	514	100.000%	21,520,093	21,520,093	100.000%	0	0	#DIV/0!	
Religious/ Non- profit	278	278	100.000%	16,133,448	16,133,448	100,000%	0	0	#DIV/01	
Government	181	181	100.000%	86,301,963	86,301,963	100.000%	0	0	#DIV/01	
Education	23	23	100.000%	9,425,883	9,425,883	100.000%	0)	0	#DIV/0!	
Utilities	39	39	100.000%	89,340,735	89,340,735	100.000%	0	0	#DIV/0!	
Total	6,212	8,212	100.000%	685,591,740	685,591,740	100.000%	13,130	13,130	100%	

**X** 7

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

### PLEASE SEE GMIS CRITICAL FACILITIES DATA IN APPENDIX A PART I FOR HAZARD AMOUNTS

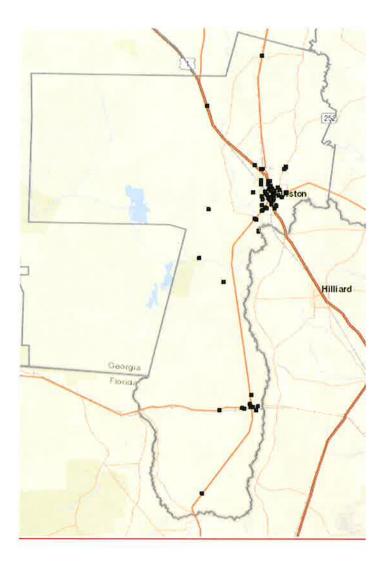
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(B)

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### CHARLTON COUNTY & CITIES OF FOLKSTON AND HOMELAND PDM GEMA PUBLIC HEALTH EMERGENCY HAZARD MAP

No Color = No Value

Please see attached cover sheet regarding score definitions

Public Health Emergency data was determined by using the 1820, 1854, 1876-1888 Yellow Fever Epidemics, 1830-1851 Cholera Pandemic, 1916 Polio Epidemic, 1918 Influenza Pandemic, 1952 Polio Epidemic, 1957 Asian Flu Pandemic, H1N1, Enterovirus D68, MERS, Ebola Virus, Zika Virus and Opioid Epidemic in order to determine frequency of events. Appendix B – Growth and Development Trends / Community Information

# U.S. Census Bureau QuickFacts: UNITED STATES



#### QuickFacts

Charlton County, Georgia; UNITED STATES

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

#### Table

ALL TOPICS	Charlton County, Georgia	UNITED STATES
Population estimates, July 1, 2016, (V2016)	12,497	323,127,51
L PEOPLE		
Population		
Population estimates, July 1, 2016, (V2016)	12,497	323,127,51
Population estimates base, April 1, 2010, (V2016)	12,171	308,758,10
Population, percent change - April 1, 2010 (estimates base) to July 1, 2016, (V2016)	2.7%	4.79
Population, Census, April 1, 2010	12,171	308,745,53
Age and Sex		
Persons under 5 years, percent, July 1, 2016, (V2016)	5.0%	6,25
Persons under 5 years, percent, April 1, 2010	6.0%	6,55
Persons under 18 years, percent, July 1, 2016, (V2016)	19.1%	22,85
Persons under 18 years, percent, April 1, 2010	21.7%	24.09
Persons 65 years and over, percent, July 1, 2016, (V2016)	14.4%	15.29
Persons 65 years and over, percent, April 1, 2010	12,7%	13.09
Female persons, percent, July 1, 2016, (V2016)	41,2%	50,85
Female persons, percent, April 1, 2010	43.7%	50.85
Race and Hispanic Origin		
White alone, percent, July 1, 2016, (V2016) (a)	65,6%	76.99
Black or African American alone, percent, July 1, 2016, (V2016) (a)	31.2%	13.39
American Indian and Alaska Native alone, percent, July 1, 2016, (V2016) (a)	0.7%	1,39
Asian alone, percent, July 1, 2016, (V2016) (a)	0.7%	5.7
Native Hawaiian and Other Pacific Islander alone, percent, July 1, 2016, (V2016) (a)	z	0.25
Two or More Races, percent, July 1, 2016, (V2016)	1.8%	2.69
Hispanic or Latino, percent, July 1, 2016, (V2016) (b)	3.7%	17.89
White alone, not Hispanic or Latino, percent, July 1, 2016, (V2016)	62.6%	61.39
Population Characteristics		
Veterans, 2012-2016	938	19,535,34
Foreign born persons, percent, 2012-2016	9.0%	13.2
Housing		
Housing units, July 1, 2016, (V2016)	4,392	135,697,92
Housing units, April 1, 2010	4,475	131,704,73
Owner-occupied housing unit rate, 2012-2016	74.5%	63.69
Median value of owner-occupied housing units, 2012-2016	\$80,400	\$184,70
Median selected monthly owner costs -with a mortgage, 2012-2016	\$906	\$1,49
Median selected monthly owner costs -without a mortgage, 2012-2016	\$327	\$46
Median gross rent, 2012-2016	\$578	\$94
Building permits, 2016	20	1,206,64
Families & Living Arrangements		
Households, 2012-2016	3,474	117,716,23
Persons per household, 2012-2016	3.39	2.6
Living in same house 1 year ago, percent of persons age 1 year+, 2012-2016	84.7%	85.29
Language other than English spoken at home, percent of persons age 5 years+, 2012-2016	9.6%	21.15
Education		
High school graduate or higher, percent of persons age 25 years+, 2012-2016	80.9%	87-05
Bachelor's degree or higher, percent of persons age 25 years+, 2012-2016	9.0%	30.39
Health		
With a disability, under age 65 years, percent, 2012-2016	12.1%	8.69
Persons without health insurance, under age 65 years, percent	<b>14.5%</b>	▲ 10.13

https://www.census.gov/quickfacts/fact/table/charltoncountygeo... 12/13/2017

# U.S. Census Bureau QuickFacts: UNITED STATES

Economy		
In civilian labor force, total, percent of population age 16 years+, 2012-2016	49.8%	63,19
In civilian labor force, female, percent of population age 16 years+, 2012-2016	54.4%	58.3%
Total accommodation and food services sales, 2012 (\$1,000) (c)	7,288	708,138,59
Total health care and social assistance receipts/revenue, 2012 (\$1,000) (c)	17,596	2,040,441,20
Total manufacturers shipments, 2012 (\$1,000) (c)	D	5,696,729,63
Total merchant wholesaler sales, 2012 (\$1,000) (c)	51,536	5,208,023,47
Total retail sales, 2012 (\$1,000) (c)	58,806	4,219,821,87
Total retail sales per capita, 2012 (c)	\$4,423	\$13,44
Transportation		
Mean travel time to work (minutes), workers age 16 years+, 2012-2016	31.0	26.
Income & Poverty		
Median household income (in 2016 dollars), 2012-2016	\$43,871	\$55,322
Per capita income in past 12 months (in 2016 dollars), 2012-2016	\$18,693	\$29,829
Persons in poverty, percent	▲ 27.2%	<b>12.7%</b>
BUSINESSES		
Businesses		
Total employer establishments, 2015	149	7,663,93
Total employment, 2015	1,857	124,085,94
Total annual payroll, 2015 (\$1,000)	59,464	6,253,488,253
Total employment, percent change, 2014-2015	3.3%	2.5%
Total nonemployer establishments, 2015	486	24,331,403
All firms, 2012	489	27,626,360
Men-owned firms, 2012	303	14,844,597
Women-owned firms, 2012	148	9,878,39
Minority-owned firms, 2012	90	7,952,386
Nonminority-owned firms, 2012	366	18,987,91
Veteran-owned firms, 2012	48	2,521,68
Nonveteran-owned firms, 2012	406	24,070,68
GEOGRAPHY		
Geography		
Population per square mile, 2010	15.7	87.4
Land area in square miles, 2010	773.58	3,531,905,43
FIPS Code	13049	00

# U.S. Census Bureau QuickFacts: UNITED STATES

#### Value Notes

This geographic level of poverty and health estimates is not comparable to other geographic levels of these estimates

Some estimates presented here come from sample data, and thus have sampling errors that may render some apparent differences between geoc statistically indistinguishable. Click the Quick Info **1** icon to the left of each row in TABLE view to learn about sampling error.

The vintage year (e.g., V2016) refers to the final year of the series (2010 thru 2016). Different vintage years of estimates are not comparable.

#### Fact Notes

- (a) Includes persons reporting only one race
- (b) Hispanics may be of any race, so also are included in applicable race categories
- (c) Economic Census Puerto Rico data are not comparable to U.S. Economic Census data

#### Value Flags

- Either no or too few sample observations were available to compute an estimate, or a ratio of medians cannot be calculated becaust the median estimates falls in the lowest or upper interval of an open ended distribution.

- D Suppressed to avoid disclosure of confidential information
- F Fewer than 25 firms
- FN Footnote on this item in place of data
- NA Not available
- S Suppressed; does not meet publication standards
- X Not applicable
- Z Value greater than zero but less than half unit of measure shown

QuickFacts data are derived from: Population Estimates, American Community Survey, Census of Population and Housing, Current Population Su Area Health Insurance Estimates, Small Area Income and Poverty Estimates, State and County Housing Unit Estimates, County Business Patterns Statistics, Economic Census, Survey of Business Owners, Building Permits.

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# **Charlton County Community Work Program**

Continue to provide funding for building and codexxenforcement programxxAs economy improves, lease or purchase a large tract of property for an industrial park in order to draw potential investorsxxConduct review of ordinances on an as-needed basisxxxConduct review of ordinances on an as-needed basisxxxCondinct to support land uses that encouragexxx	××	×		Agency	Cost	Source
9 	×		×	Charlton County	\$40,000/yr	Fees, General Fund
		×	×	Charlton County	\$150,000	General Funds, Grants, CDBG
Continue to support land uses that encourage	×	×	×	Charlton County	\$2,500	General Funds
growth, enhance economic development, provide x x x employment opportunities, and promote environmental sustainability	×	×	×	Charlton County	\$2,500	General Funds
Establish & Maintain Firewise Community Programs/Plans for all communities within the x x x county	×	×	×	Charlton County, City of Folkston, City of Homeland	\$80,000	Georgia Forestry Commission

Resource Conservation (Natural and Cultural Resources, etc.)	FY 2016	2016 FY 2017	FY 2018 FY2019 FY2020	FY2019	FY2020	Responsible Agency	Estimated Cost	Revenue Source
Promote and encourage outdoor recreation activities such as bird watching and bike riding.	×	×	×	×	×	Charlton County	\$5,000	General Funds
Continue funding and support of the St Marys River Management Committee	×	×	×	×	×	Charlton County	\$2,500	General Funds
Develop a plan for outdoor recreation programs that will not have adverse environmental impacts		×	×			Charlton County		

Community Facilities & Infrastructure (Infrastructure, Recreation, Transportation etc.)	FY 2016	FY 2016 FY 2017 FY 2018 FY2019 FY2020	FY 2018	FY2019	FY2020	Responsible Agency	Estimated Cost	Revenue Source
Build Voting Precinct Building at GA Bend Area			×	×	×	Charlton County	\$50,000	SPLOST
Pave portions of Newell Road and other Connector Roads	×	×	×	x	x	Charlton County	\$500,000	General Funds, SPLOST, DOT
Continue Maintenance of Roads & Bridges	×	×	×	×	×	Charlton County	\$500,000 per year	General Funds, LMIG, DOT, CDRG

- 39 -

Community Facilities & Infrastructure (Infrastructure, Recreation, Transportation etc.)	FY 2016	FY 2017	FY 2018	FY2019	FY2020	Responsible Agency	Estimated Cost	Revenue Source
Make general improvements to government buildings	×	×	×	×	×	Charlton County	\$100,000	General Funds
Schedule and implement park Improvements, such as playgrounds and landscaping	×	×	×	×	×	Charlton County	\$175,000	SPLOST & Grants
Purchase Fire Trucks & Fire Equipment	×	×	×	×	×	Charlton County	\$400,000	SPLOST
Purchase Sheriff's Vehicles & Equipment	х	×	x	×	×	Charlton County	\$500,000	SPLOST & Grants
Expand the Public Library	×	×				Grant & Charlton County	\$700,000	Grant & SPLOST
Build Vehicle Fuel Centers - 2 Units		×	×			Charlton County	\$100,000	SPLOST
Renovate the Health Department building		×	×			Charlton County	\$50,000	SPLOST
Resurface Suwannee Canal Road with Bike Lane from Hwy 121 to Refuge	×	×				Charlton County & ONWLR	\$750,000	Federal Aid
Construct EMS Facility		×	×	×		Charlton County	\$200.000	SPLOST
Renovate and upgrade Fire Stations			×	×	×	Charlton County	\$200,000	SPLOST
Social & Economic Development (Economic Development, Population etc.)	FY 2016	FY 2017	FY 2018	FY2019	FY2020	Responsible	Estimated Cost	Source
Pursue industries that involve the manufacture and/or processing of native materials such as wood/fuel pellets.	×	×	×	×	×	Charlton County	\$150,000	General Funds, Available grants
Continue to provide funding for Charlton/Folkston Development Authority and its programs	×	×	×	×	×	Charlton County	\$29,000/yr	General Funds
Continue to use the Chamber of Commerce for promotion of the County to attract business and promote eco-tourism	×	×	×	×	×	Charlton County	\$10,000/yr	County promotion budget
Continue to participate in workforce development	×	×	×	×	×	Charlton County	\$7,500	General Funds/ grants
Approve and construct General Class Business Airport	×	×	×	×	×	Charlton County	\$25,000/yr	General Fund, SPLOST
Develop Phase I of Certified Industrial Park	×	×	х			Charlton County	\$150,000	General Fund

Governmental Relations	FY 2016	FY 2016 FY 2017	FY 2018	FY2019 FY2020	FY2020	Responsible Agency	Estimated Cost	Revenue Source
Hold Municipal Elections by Municipal Contracts	×	×	×	×	×	Charlton County	\$30,000	Municipal Payments
Implement County-wide Building Inspection & Permitting Services	x	x	×	×	×	Charlton County	\$40,000	Fees & General Fd
Implement County-wide Recreation Program	×	×	×	×	×	Charlton County	\$80,000	General Fund
Implement County-wide E-911 Service for Cities	×	×	×	×	×	Charlton County	\$10,000	General Fund
Implement County-wide Jail Services for Cities	×	×	×	x	×	Charlton County	\$50,000	General Fund
Implement County-wide Fire Services for Cities	×	×	×	×	×	Charlton County	\$100,000	General Fund

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Development Patterns (Land Use, Housing, etc.)	FY 2016	2016 FY 2017 FY 2018 FY 2019 FY 2020	FY 2018	FY2019	FY2020	Responsible Agency	Estimated Cost	Revenue Source
Encourage property owners to clean up and maintain areas using the Dangerous Building Ordinance	×	×	×	×	×	City of Folkston	\$10,000/yr	General Funds
Develop land use regulations to promote controlled growth	×	×	×	×	×	City of Folkston	\$45,000	General Funds, available DCA grants
Revise ordinances as needed that are in conflict with desired development and growth patterns	х	×	×	×	×	City of Folkston	\$15,000/yr	General Funds
Continue to support and enforce land use regulations	×	×	×	×	×	City of Folkston	\$10,000/yr	General Funds

Resource Conservation (Natural and Cultural Resources, etc.)	FY 2016	2016 FY 2017	FY 2018 FY2019 FY2020	FY2019	FY2020	Responsible Agency	Estimated Cost	Revenue Source
Support programs and agencies that promote and protect the historical and unique character of Folkston	×	×	×	×	×	City of Folkston	\$20,000	General Funds
Continue water audits to reduce number of gallons not metered	×	×	×	×	×	City of Folkston	\$10,000/yr	Water-sewer funds, grants
Support programs that encourage and promote eco- tourism for local businesses	×	×	×	×	×	City of Folkston	\$10,000/yr	General Funds

Community Facilities & Infrastructure (Infrastructure, Recreation, Transportation etc.)	FY 2016	FY 2017	FY 2018	FY2019 FY2020	FY2020	Responsible Agency	Estimated Cost	Revenue Source
Continue to support drainage and paving of unpaved roads as funding is available	×	×	×	×	×	Charlton County, City of Folkston, and City of Homeland	\$1,000,000	LARP, DOT, General Funds CDBG
Build a community center	×	×				City of Folkston, Homeland and the County	\$300,000	SPLOST, CDBG
Maintain community facilities	×	×	×	×	×	City of Folkston	N/A	SPLOST, CDBG General Funds

- 42 -

Community Facilities & Infrastructure (Infrastructure, Recreation, Transportation etc.)	FY 2016	FY 2017	FY 2018	FY2019	FY2020	Responsible Agency	Estimated Cost	Revenue Source
Continue repair, refurbishment, and replacement of defective wastewater lift stations, manholes, and distribution lines	×	×	×	×	×	City of Folkston	\$100,000	General Funds
Continue funding and monthly support of the Charlton County Library	×	×	×	×	×	City of Folkston	\$25,000/yr	General Funds
Continue funding for rail viewing platform	×	×	×	×	×	City of Folkston	\$10,000/yr	General Funds
Continue repair and replacement of defective water/sewer lines	×	×	×	×	×	City of Folkston	\$25,000/yr	Water/Sewer Funds, Grants, SPLOST
Expand water system and build 1.5 MGD wastewater treatment plant	×	×	×	×		City of Folkston	\$10,000,000- \$12,000,000	USDA loan/grant program
Social & Economic Development (Economic Development, Population etc.)	FY 2016	FY 2017	FY 2018	FY2019	FY2020	Responsible Agency	Estimated Cost	Revenue Source
Continue to provide funding for the Charlton/Folkston Development Authority	×	×	×	×	×	City of Folkston	\$26,000	General Funds
Continue to revitalize core downtown business districts	×	×	×	×	×	City of Folkston	\$25,000	General Funds, Quality Growth grants
Continue funding and support of the Chamber of Commerce	×	×	×	×	×	City of Folkston	\$35,000	General Funds, water meter tax
Governmental Relations	FY 2016	FY 2017	FY 2018	FY2019	FY2020	Responsible Agency	Estimated Cost	Revenue Source
Continue participation in committees, groups, and organizations promoting intergovernmental coordination	×	×	×	×	×	City of Folkston	\$5,000/yr	General Funds
Continue to pursue intergovernmental cooperation between cities, county, and all boards and authorities	×	×	×	×	×	City of Folkston	\$5,000/yr	General Funds
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Development Patterns	EV 2016	EV 2017	EV 2010	EV2010	EV2020	Responsible	Estimated	Revenue
(Land Use, Housing, etc.)	0107 1 1	11 2011	L1 2010	L 1 20 13	L ZUZU	Agency	Cost	Source
Continue to fund the building and code enforcement program	×	x	×	×	×	City of Homeland	\$25,000	Fees, and General Funds
Resource Conservation (Natural and Cultural Resources, etc.)	FY 2016	FY 2017	FY 2018	FY2019	FY2020	Responsible Agency	Estimated Cost	Revenue Source
No projects listed.								
Community Facilities & Infrastructure (Infrastructure, Recreation, Transportation etc.)	FY 2016	FY 2017	FY 2018	FY2019	FY2020	Responsible Agency	Estimated Cost	Revenue Source
Extend water service to Nature Trails Estates, including fire hydrants	×	×				City of Homeland	\$200,000	USDA, DCA grants, General Funds
Continue to upgrade all recreational facilities and parks on an as-needed basis	x	×	x	×	×	City of Homeland	\$20,000	General Funds
Pursue grant funding to construct new City Hall with built in fireproof value	×	×	×	×	×	City of Homeland	\$300,000	CDBG, USDA and General Funds
Continually seek available grants to maintain and replace existing fleet on an as-needed basis	×	х	×	×	×	City of Homeland	\$25,000 - \$30,000	DCA grants
Continue funding for the Homeland Economic Development Authority and its programs	×	×	×	×	×	City of Homeland	\$50,000	General Funds
Codel & Economic Development								
Social & Economic Development (Economic Development, Population etc.)	FY 2016	FY 2017	FY 2018	FY2019	FY2020	Kesponsible Agency	Estimated Cost	Kevenue Source
No projects listed.								
Governmental Relations	FY 2016	FY 2017	FY 2018	FY2019	FY2020	Responsible Agency	Estimated Cost	Revenue Source
No accisate listed								

- 44 -

No projects listed.

#### **Michael Jacobs**

From:	etodd@charltoncountyga.gov
Sent:	Tuesday, October 10, 2017 1:11 PM
То:	Michael Jacobs
Subject:	FW: Charlton County 2017 Digest Figures
Attachments:	Charlton County 2017 Digest.pdf

Good Afternoon, Please find attached the 2017 Digest figures for Charlton County. I hope this is helpful to you.

Respectfully, Elaine Todd, Chief Appraiser Charlton County Board of Assessors 68 Kingsland Dr., Suite c Folkston, GA 31537 912-496-7437

This communication and all attachments may contain privileged and confidential legal communications/attorney work product intended solely for the use of the addressee. If you are not the intended recipient, any reading, distribution, copying or other use of this communication and/or any attachments hereto is prohibited and you should delete this message from all locations, and advise the sender at 912-496-7437 and at <u>etodd@charltoncountyga.gov</u>. Thank you.

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# 🕖 U.S. Census Bureau

# FactFinder

DP04

#### SELECTED HOUSING CHARACTERISTICS

2011-2015 American Community Survey 5-Year Estimates

Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Data and Documentation section.

Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be found on the American Community Survey website in the Methodology section.

Tell us what you think. Provide feedback to help make American Community Survey data more useful for you.

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities and towns and estimates of housing units for states and counties.

A processing error was found in the Year Structure Built estimates since data year 2008. For more information, please see the errata note #110.

Subject		Charlton County,	Georgia	
	Estimate	Margin of Error	Percent	Percent Margin of Error
HOUSING OCCUPANCY				LIIO
Total housing units	4,436	+/-155	4,436	(X)
Occupied housing units	3,524	+/-262	79.4%	+/-5.1
Vacant housing units	912	+/-227	20.6%	+/-5.1
Homeowner vacancy rate	0.7	+/-0.9	(X)	(X)
Rental vacancy rate	16.0	+/-11.5	(X)	(X)
UNITS IN STRUCTURE				
Total housing units	4,436	+/-155	4,436	(X)
1-unit, detached	2,440	+/-248	55.0%	+/-5.0
1-unit, attached	13	+/-18	0.3%	+/-0.4
2 units	21	+/-17	0.5%	+/-0.4
3 or 4 units	10	+/-13	0.2%	+/-0.3
5 to 9 units	39	+/-36	0.9%	+/-0.8
10 to 19 units	13	+/-22	0.3%	+/-0.5
20 or more units	5	+/-8	0.1%	+/-0.2
Mobile home	1,869	+/-214	42.1%	+/-4.8
Boat, RV, van, etc.	26	+/-28	0.6%	+/-0.6
YEAR STRUCTURE BUILT				
Total housing units	4,436	+/-155	4,436	(X)
Built 2014 or later	11	+/-19	0.2%	+/-0.4
Built 2010 to 2013	125	+/-96	2.8%	+/-2.1
Built 2000 to 2009	653	+/-144	14.7%	+/-3.2
Built 1990 to 1999	1,068	+/-204	24.1%	+/-4.5
Built 1980 to 1989	799	+/-163	18.0%	+/-3.8
Built 1970 to 1979	450	+/-139	10.1%	+/-3.1
Built 1960 to 1969	485	+/-145	10.9%	+/-3.2

Subject		Charlton County	Georgia	
	Estimate	Margin of Error	Percent	Percent Margin of Error
Built 1950 to 1959	391	+/-139	8.8%	+/-3.1
Built 1940 to 1949	178	+/-103	4.0%	+/-2.3
Built 1939 or earlier	276	+/-94	6.2%	+/-2.1
ROOMS				
Total housing units	4,436	+/-155	4,436	(X)
1 room	7	+/-9	0.2%	+/-0,2
2 rooms	33	+/-30	0.7%	+/-0.7
3 rooms	156	+/-68	3.5%	+/-1.5
4 rooms	763	+/-204	17.2%	+/-4.5
5 rooms	1,180	+/-204	26.6%	+/-4.7
6 rooms	927	+/-215	20.0%	+/-4.7
7 rooms	639	+/-190	14.4%	
8 rooms				+/-3.8
9 rooms or more	411	+/-143	9.3%	+/-3.2
Median rooms	320 5.6	+/-114 +/-0.3	7.2% (X)	+/-2.6 (X)
BEDROOMS				
Total housing units	4,436	+/-155	4,436	(X)
No bedroom	13	+/-14	0.3%	+/-0.3
1 bedroom	111	+/-51	2.5%	+/-1.1
2 bedrooms	1,150	+/-219	25.9%	+/-4.8
3 bedrooms	2,423	+/-249	54.6%	+/-5.4
4 bedrooms	624	+/-172	14.1%	+/-3.8
5 or more bedrooms	115	+/-64	2.6%	+/-1.4
HOUSING TENURE				
Occupied housing units	3,524	+/-262	3,524	(X)
Owner-occupied	2,776	+/-251	78.8%	+/-4.6
Renter-occupied	748	+/-175	21.2%	+/-4.6
Average beinghold sing of average accurical with				
Average household size of owner-occupied unit	3.35	+/-0.26	(X)	(X)
Average household size of renter-occupied unit	3.24	+/-0.56	(X)	(X)
YEAR HOUSEHOLDER MOVED INTO UNIT				
Occupied housing units	3,524	+/-262	3,524	(X)
Moved in 2015 or later	48	+/-54	1.4%	+/-1.5
Moved in 2010 to 2014	755	+/-176	21.4%	+/-4.7
Moved in 2000 to 2009	1,168	+/-198	33.1%	+/-4.6
Moved in 1990 to 1999	731	+/-162	20.7%	+/-4.3
Moved in 1980 to 1989	356	+/-106	10.1%	+/-3.0
Moved in 1979 and earlier	466	+/-136	13.2%	+/-3.9
VEHICLES AVAILABLE				
Occupied housing units	3,524	+/-262	3,524	(X)
No vehicles available	349	+/-129	9.9%	+/-3.5
1 vehicle available	1,021	+/-200	29.0%	+/-5.3
2 vehicles available	1,271	+/-200	36.1%	+/-5.1
3 or more vehicles available	883	+/-195	25.1%	+/-5.2
HOUSE HEATING FUEL				
Occupied housing units	3,524	+/-262	3,524	(X)
Utility gas	125	+/-96	3.5%	+/-2.7
Bottled, tank, or LP gas	166	+/-71	4.7%	+/-2.0
Electricity	3,219	+/-270	91.3%	+/-3.4
Fuel oil, kerosene, etc.	8	+/-12	0.2%	+/-0.3
Coal or coke	0	+/-20	0.0%	+/-1.1
Wood	0	+/-20	0.0%	+/-1.1
Solar energy	0	+/-20	0.0%	+/-1.1

Subject	<b>F</b> -0 4	Charlton County		Dereent Mon-1-
	Estimate	Margin of Error	Percent	Percent Margin of Error
Other fuel	0	+/-20	0.0%	
No fuel used	6	+/-9	0.2%	+/-0.3
SELECTED CHARACTERISTICS				
Occupied housing units	0.501			1
	3,524	+/-262	3,524	
Lacking complete plumbing facilities	4	+/-8	0.1%	
Lacking complete kitchen facilities	6	+/-9	0.2%	
No telephone service available	65	+/-49	1.8%	+/-1.4
OCCUPANTS PER ROOM				1
Occupied housing units	3,524	+/-262	3,524	(X)
1.00 or less	3,501	+/-264	99.3%	
1.01 to 1.50	23	+/-26	0.7%	+/-0.7
1.51 or more	0	+/-20	0.0%	+/-1.1
VALUE				
Owner-occupied units	0.776	+/-251	0.770	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Less than \$50,000	2,776 736	+/-251	2,776	
\$50,000 to \$99,999	979	+/-152	26.5% 35.3%	+/-5.1
\$100,000 to \$149,999	532	+/-181	35.3%	
\$150,000 to \$199,999	341	+/-104	19.2%	+/-5.4
\$200,000 to \$299,999	98			
\$300,000 to \$499,999		+/-59 +/-62	3.5%	
\$500,000 to \$999,999	90		3.2%	
\$1,000,000 or more	0	+/-20 +/-20	0.0%	
Median (dollars)			0.0%	
Wedah (doilais)	82,000	+/-8,471	(X)	(X)
MORTGAGE STATUS				
Owner-occupied units	2,776	+/-251	2,776	(X)
Housing units with a mortgage	1,291	+/-235	46.5%	+/-6.6
Housing units without a mortgage	1,485	+/-211	53.5%	+/-6.6
SELECTED MONTHLY OWNER COSTS (SMOC)				
Housing units with a mortgage	1,291	+/-235	1,291	(X)
Less than \$500	43	+/-38	3.3%	+/-3.0
\$500 to \$999	748	+/-170	57.9%	+/-10.2
\$1,000 to \$1,499	365	+/-138	28.3%	+/-8.6
\$1,500 to \$1,999	105	+/-89	8.1%	+/-6.4
\$2,000 to \$2,499	14	+/-20	1.1%	+/-1.5
\$2,500 to \$2,999	9	+/-17	0.7%	+/-1.3
\$3,000 or more	7	+/-9	0.5%	+/-0.7
Median (dollars)	919	+/-68	(X)	1 M
Housing units without a mortgage	1,485	+/-211	1,485	
Less than \$250	273	+/-90	18.4%	+/-5.2
\$250 to \$399	757	+/-160	51.0%	+/-8.3
\$400 to \$599	333	+/-114	22.4%	+/-7.0
\$600 to \$799	86	+/-65	5.8%	+/-4.2
\$800 to \$999	36	+/-39	2.4%	+/-2.7
\$1,000 or more	0	+/-20	0.0%	+/-2.5
Median (dollars)	316	+/-16	(X)	(X)
SELECTED MONTHLY OWNER COSTS AS A				
PERCENTAGE OF HOUSEHOLD INCOME (SMOCAPI)				
Housing units with a mortgage (excluding units where MOCAPI cannot be computed)	1,280	+/-235	1,280	(X)
Less than 20.0 percent	575	+/-179	44.9%	+/-10.4
20.0 to 24.9 percent	178	+/-103	13.9%	+/-7.3
25.0 to 29.9 percent	170	+/-82	13.3%	+/-6.4
30.0 to 34.9 percent	37	+/-36	2.9%	+/-2.7

Subject		Charlton County,	Georgia	
	Estimate	Margin of Error	Percent	Percent Margin of Error
35.0 percent or more	320	+/-105	25.0%	+/-7.3
Not computed	11			(20)
Not computed	11	+/-20	(X)	(X)
Housing unit without a mortgage (excluding units where SMOCAPI cannot be computed)	1,411	+/-204	1,411	(X)
Less than 10.0 percent	802	+/-204	56.8%	+/-9.1
10.0 to 14.9 percent	208	+/-85	14.7%	+/-6.3
15.0 to 19.9 percent	153	+/-64	10.8%	+/-4.7
20.0 to 24.9 percent	73	+/-43	5.2%	+/-3.0
25.0 to 29.9 percent	42	+/-36	3.0%	+/-2.5
30.0 to 34.9 percent	48	+/-51	3.4%	+/-3.6
35.0 percent or more	85	+/-51	6.0%	+/-3.7
Not computed	74	+/-59	(X)	(X)
GROSS RENT				
Occupied units paying rent	494	+/-142	494	(X)
Less than \$500	134	+/-79	27.1%	+/-14.0
\$500 to \$999	354	+/-121	71.7%	+/-13.9
\$1,000 to \$1,499	6	+/-10	1.2%	+/-1.9
\$1,500 to \$1,999	0	+/-20	0.0%	+/-7.3
\$2,000 to \$2,499	0	+/-20	0.0%	+/-7.3
\$2,500 to \$2,999	0	+/-20	0.0%	+/-7.3
\$3,000 or more	0	+/-20	0.0%	+/-7.3
Median (dollars)	687	+/-20	(X)	+/-/.3 (X)
			()	(**)
No rent paid	254	+/-125	(X)	(X)
GROSS RENT AS A PERCENTAGE OF HOUSEHOLD				
Occupied units paying rent (excluding units where GRAPI cannot be computed)	494	+/-142	494	(X)
Less than 15.0 percent	67	+/-48	13.6%	+/-9.1
15.0 to 19.9 percent	88	+/-69	17.8%	+/-13.3
20.0 to 24.9 percent	19	+/-17	3.8%	+/-3.5
25.0 to 29.9 percent	80	+/-69	16.2%	+/-12.9
30.0 to 34.9 percent	55	+/-52	11.1%	+/-10.0
35.0 percent or more	185	+/-90	37.4%	+/-14.3
Not computed	254	+/-125	(X)	(X)

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see Accuracy of the Data). The effect of nonsampling error is not represented in these tables.

Households not paying cash rent are excluded from the calculation of median gross rent.

Telephone service data are not available for certain geographic areas due to problems with data collection. See Errata Note #93 for details.

While the 2011-2015 American Community Survey (ACS) data generally reflect the February 2013 Office of Management and Budget (OMB) definitions of metropolitan and micropolitan statistical areas; in certain instances the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB definitions due to differences in the effective dates of the geographic entities.

Estimates of urban and rural population, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates

#### Explanation of Symbols:

1. An '\*\*' entry in the margin of error column indicates that either no sample observations or too few sample observations were available to compute a standard error and thus the margin of error. A statistical test is not appropriate.

2. An '-' entry in the estimate column indicates that either no sample observations or too few sample observations were available to compute an estimate, or a ratio of medians cannot be calculated because one or both of the median estimates falls in the lowest interval or upper interval of an open-ended distribution.

3. An '-' following a median estimate means the median falls in the lowest interval of an open-ended distribution.

4. An '+' following a median estimate means the median falls in the upper interval of an open-ended distribution.

5. An \*\*\*\* entry in the margin of error column indicates that the median falls in the lowest interval or upper interval of an open-ended distribution. A statistical test is not appropriate.

6. An "\*\*\*\*\* entry in the margin of error column indicates that the estimate is controlled. A statistical test for sampling variability is not appropriate.

7. An 'N' entry in the estimate and margin of error columns indicates that data for this geographic area cannot be displayed because the number of sample cases is too small.

8. An '(X)' means that the estimate is not applicable or not available.

#### **Michael Jacobs**

From:	John McCall <johnm@mccallinc.com></johnm@mccallinc.com>
Sent:	Wednesday, September 20, 2017 5:57 PM
То:	Michael Jacobs
Subject:	Re: Gov't Building Costs?

Michael,

If you are talking brand new govt building like a court house or city offices building then yes you are likely up at \$250-\$300 Psf.

All cost across the board have gone up. So I would figure at least an additional \$10-\$15 psf no matter the building type.

And just so you are aware, I am being told that we may very soon see another big price hike in construction materials and this will drive up lab our cost.

.

John M. "Mac" McCall - Vice President

The McCall Companies Architecture - Construction - Management

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On Sep 20, 2017, at 4:40 PM, Michael Jacobs <<u>mvjacobs@sgrc.us</u>> wrote:

Sorry, it looks like I had a straight \$300 sf for Charlton and the surrounding counties in 2011 from your dad. The numbers below were for Lowndes it looks like that I think you gave us this year that I did not have a precedent for. We were at \$135 sf it looks like for the Boys & Girls Club and that was a pre-engineered metal building.

Should I count on \$300 sf replacement costs do you think, or use another figure. These are all government buildings.

Michael V. Jacobs Senior Planner Southern Georgia Regional Commission 1725 South Georgia Parkway, West Waycross, GA 31503 Appendix C – Other Planning Documents

GEORGIA FORESTRY C 0 M M I S S I 0 N



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

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

# **Charlton County, Georgia**



## AUGUST 19, 2016

Prepared by; Roger Todd, Chief Ranger Charlton County Will Fell CWPP Specialist Georgia Forestry Commission 33152 Hwy 121 Folkston, GA 31537

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

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# **PLAN CONTENTS**

I.	Objectives	1
II.	Community Collaboration	1
III.	Community Background and Existing Situation	2
IV.	Community Base Map	5
<b>V</b>	Community Wildfire Risk Assessment	6
VI.	Community Hazards Map	9
VII.	Prioritized Mitigation Recommendations1	1
VIII.	Action Plan 1	6
IX.	Appended Documents2	0
	Charlton County Wildfire Pre-suppression Plan	

NFPA 1141 Standard for Fire Protection Infrastructure for Land Development in Suburban and Rural Areas.

# I. OBJECTIVES

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

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

# **II. COMMUNITY COLLABORATION**

The core team convened on August 9, 2016 to assess risks and develop the Community Wildfire Protection Plan. The group is comprised of representatives from local government, local fire authorities, and the state agency responsible for forest management. Below are the groups included in the task force:

**Charlton County Government** 

Charlton County Fire Rescue Emergency Management Board of County Commissioners Georgia Forestry Commission US Fish and Wildlife Service.

It was decided to conduct community assessments on the basis of the on high risk communities and the individual fire districts in the county. The chiefs of the six fire departments in the county assessed their districts and reconvened on September 23, 2009 for the purpose of completing the following:

Risk Assessment	Assessed wildfire hazard risks and prioritized mitigation actions.
Fuels Reduction	Identified strategies for coordinating fuels treatment projects.
Structure Ignitability	Identified strategies for reducing the ignitability of structures within the Wildland interface.
Emergency Management	Forged relationships among local government and fire districts and developed/refined a pre-suppression plan.
Education and Outreach	Developed strategies for increasing citizen awareness and action and to conduct homeowner and community leader workshops.

# **III. COMMUNITY BACKGROUND AND EXISTING SITUATION**

#### Background

Charlton County, in southeast Georgia, is the state's 111th county. Comprising 781 square miles, the county borders Florida and includes most of the Okefenokee Swamp. It was carved from a part of Camden County and officially recognized by the state legislature in 1854. Portions of Ware County were added to Charlton in 1855. Charlton County was named for Robert Milledge Charlton, a nineteenth-century jurist, U.S. senator, and mayor of Savannah. The current courthouse was built in 1928 and placed on the National Register of Historic Places in 1980. The area was originally inhabited by Creek Indians, and the first white settlers came from neighboring counties in Florida, North Carolina, and South Carolina.

Folkston, the county seat of Charlton since 1901, became the focal point for transportation after the arrival of railroads in the 1880s and grew to become the county's largest city by the end of the nineteenth century. Named after William Brandon Folks of Waycross, Folkston was not officially incorporated until 1911. For many years it was the major stopping point for railroad passengers traveling between Florida and points north, giving rise to a number of fine hotels around the train depot. The depot has today been restored, and it now houses the Okefenokee Chamber of Commerce and the Folkston–Charlton County Development Authority.

The major attraction in the county is the Okefenokee Swamp. Floyds Island Hammock (also known as the Hebard Cabin) in the swamp is the site of a cabin used by naturalists and writers in the 1930s. Folkston Train Depot and the "Folkston Funnel" Train Viewing Platform have been restored, allowing railroad fans to see as many as sixty trains go by within one twenty-four-hour period. Old Folkston Grammar School, built in 1926 and recently renovated, is now the home of the Okefenokee Education and Research Center. Sponsored by the City of Folkston and the Georgia Wildlife Federation, the center includes a 2,700-square-foot exhibit area and the Okefenokee Heritage Garden, representing four local habitats. The William Mizell House, on four acres of "urban forest," is a two-story wood-frame house with a greenhouse and pavilion and is included on the National Register of Historic Places. Located on Route 2, Sardis Church, built around 1821, is the oldest church in the county. (New Georgia Encyclopedia)

More than 98 percent of the county's land is forest, making it the most timbered of Georgia's counties. Rich titanium deposits lie between Charlton and neighboring Ware County, much of it bordering the Okefenokee National Wildlife Refuge. In 1997 concerned county residents protested the DuPont Company's plan for a titanium strip mine, resulting in the company's eventual donation of 16,000 acres to the people of Georgia—the largest land preservation gift in Georgia history.

Annual events include Sandhill Crane Awareness Day, Wings over the Swamp, National Wildlife Week and Earth Day Art Festival, the Okefenokee Festival, the Folkston RailWatch, the Cherokee of Georgia Council Spring Pow Wow, and the Mizell House Gala.

According to the 2010 U.S. census, the county population was 12,171 (68.6 percent white, 28.5 percent black, and 2.5 percent Hispanic, .6 percent Native American, .4 percent Asian), a 6.5 percent increase since 2010. (US Census Bureau 2016)

#### **Existing Situation**

Charlton County, one of the largest counties in Georgia in land area, is also one of the most heavily forested with 98% of the land area in forest. Even though a large portion of the western part of the county is within the confines of Okefenokee National Wildlife Refuge, there are still almost 300,000 acres of commercial timberland within the confines of the county. The county is oriented such that it is over 50 road miles from the southernmost Big Bend area to the Brantley County line on the north. While the main population center is Folkston near the center of the county there are several small communities and developments spread the length of the county with a significant risk as wildland urban interface around them.

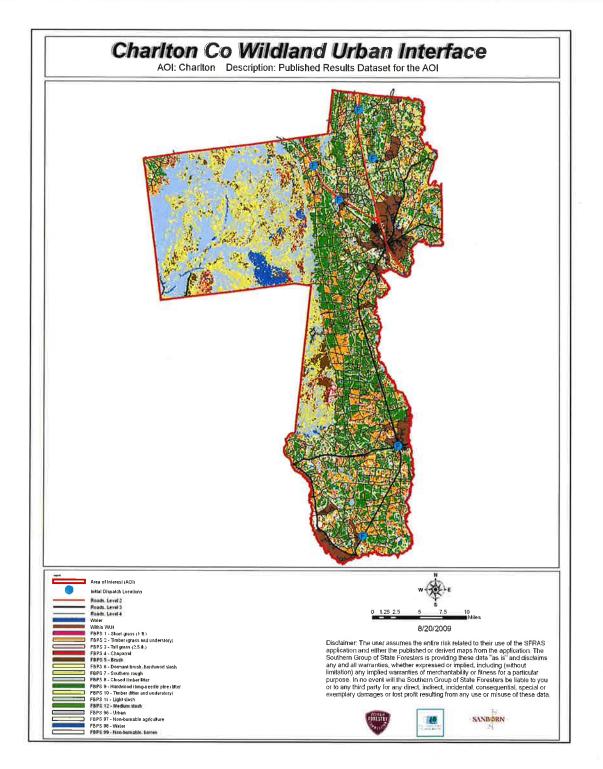
Charlton County is protected by Charlton County Fire Rescue (CCFR) consisting of 5 strategically placed fire stations in the main communities of Charlton County; Folkston, Saint George, Race Pond, Winokur and Georgia Bend Communities. The CCFR is a combination Department consisting of 2 career position the Fire Chief and Deputy Fire Chief with Volunteer Firefighters filling the remainder of the department's personnel. As of August 2016 the CCFR manpower consisted of 60 members including the Chief and Deputy Chief. The Georgia Forestry Commission maintains a county protection unit located about three miles south of Folkston on Hwy 121 to respond to wildfires throughout the county. The city of Folkston and the adjacent incorporated town of Homeland are serviced by a pressurized water system with well placed hydrants throughout.

Over the past fifty years, Charlton County has averaged 74 reported wildland fires per year. The occurrence of these fires is fairly uniform throughout the year with a slight peak in the months of February and March and a slight decrease during the fall months. These fires have burned an average of 1,002 acres annually. While the numbers of fires remain fairly similar every month, there is a marked difference in the monthly acreage lost. The monthly acres lost during the late winter through summer period show a ten-fold increase over the acres lost during the fall and early winter. Additionally, while the annual numbers of fires have not increased noticeably during the 50-year period that records are available, the annual acreage lost appears to have increased in later years. This perhaps a result of the decrease in the practice of prescribed burning and the resultant increase in wildland fuel loadings. Despite this alarming trend in fire behavior, more homes are being built outside of traditional communities into the wildland urban interface.

The leading causes of these fires, was lightning and debris burning causing 23% and 22% respectively of the fires and 12% and 32% respectively of the acres burned. More alarming is that incendiary or arson while causing only 17% of the fires account for 45% of the acres lost.

Georgia Forestry Commission Wildfire Records show that in the past five years, 3 Homes have been lost or damaged by wildfire in Charlton County resulting in estimated losses of \$40,000 along with 3 outbuildings valued at \$2,000. According to reports during this period 13 homes have been directly or indirectly threatened by these fires. Additionally, 7 vehicles valued at \$74,550 were lost. This is a substantial loss of non timber property attributed to wildfires in Charlton County.

# IV. COMMUNITY BASE MAP



# V. COMMUNITY WILDFIRE RISK ASSESSMENT

#### The Wildland-Urban Interface

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

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

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

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

**3. "Island" wildland-urban interface**, also called occluded interface, are areas of wildland within predominately urban or suburban areas. As cities or subdivisions grow, islands of undeveloped land may remain, creating remnant forests. Sometimes these remnants exist as parks, or as land that cannot be developed due to site limitations, such as wetlands. (*Fire Ecology and Wildfire Mitigation in Florida* 2004)

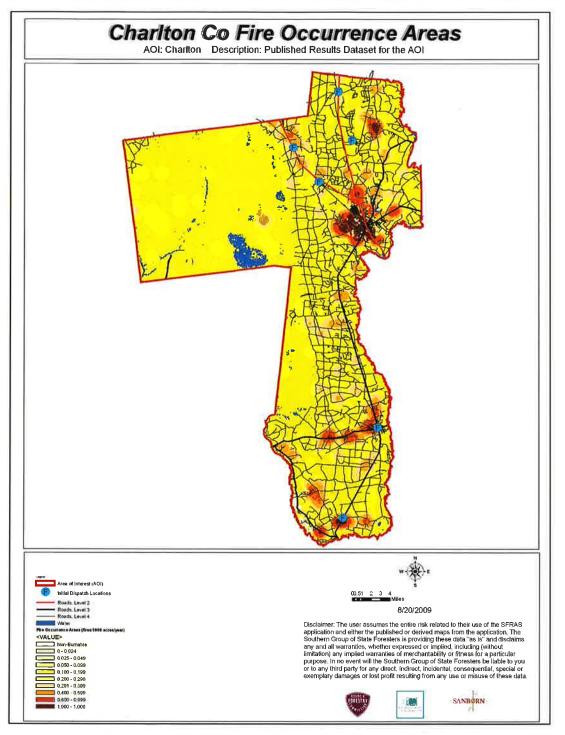
The wildland fire risk assessments conducted in 2015 by the Charlton County Fire Rescue (CCFR) returned an average score of 109, placing Charlton County in the "very high" hazard range. The risk assessment instrument used to evaluate wildfire hazards to Charlton County's WUI was the Hazard and Wildfire Risk Assessment Checklist. The instrument takes into consideration accessibility, vegetation (based on fuel models), roofing assembly, building construction, and availability of fire protection resources, placement of gas and electric utilities, and additional rating factors. The following factors contributed to the wildfire hazard score for Charlton County:

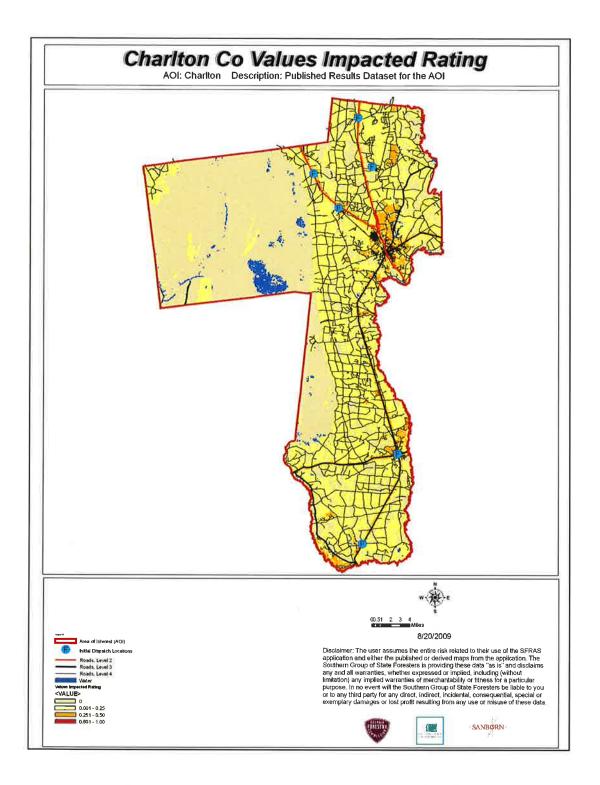
- Dead end roads with inadequate turn arounds
- Narrow roads without drivable shoulders
- Long, narrow, and poorly labeled driveways
- Limited street signs and homes not clearly addressed
- Thick, highly flammable vegetation surrounding many homes
- Minimal defensible space around structures
- Homes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

Community	Fire Dept	Access	Surrounding Vegetation	Bldg Construction	Fire Protection	Utilities	Additional Factors	Score	Hazard Rating Very
Homeland	Folkston	10	20	15	14	9	39	107	High
Dixie Lake	Folkston	10	20	10	14	9	45	108	Very High
Traders Hill Camp	Folkston	15	20	25	25	9	43	137	Extreme
Pinckney Live Oak	Folkston	12	20	5	17	9	30	93	High Very
Estates Yankee	Folkston	16	20	0	20	9	35	100	High
Forest	Folkston	10	20	10	17	9	31	97	High
Colrain	Folkston	20	20	20	25	9	38	132	Extreme
May Bluff	Folkston	13	20	20	27	9	39	128	Extreme
Spring Lake	Folkston	11	20	10	15	9	21	86	High Very
Forest Lake	Folkston	23	20	10	15	9	37	114	High
Black River	Folkston	9	10	5	18	9	43	94	High
Stokes Lake Folkston	Folkston	13	20	5	18	9	31	96	High Very
District Sam Howard	Folkston	18	35	15	29	4	17	118	Higĥ Very
Rd	Racepond	20	20	25	16	3	23	107	High Very
Uptonville Racepond	Racepond	5	30	20	18	6	23	102	High Very
District St. Marys	Racepond	5	30	20	18	7	23	103	High
Bluff Ga Bend	Ga Bend	18	45	15	29	4	17	128	Extreme
Dist	Ga Bend	11	30	10	25	4	16	96	High Very
Winokur Dist	Winokur	20	30	10	22	7	28	117	High
Average		14	24	13	20	8	30	109	Very High

## Summary of Charlton County Assessment Ratings

# VI. COMMUNITY HAZARDS MAPS





# **VII. PRIORITIZED MITIGATION RECOMMENDATIONS**

#### **Executive Summary**

As Southeast Georgia continues to see increased growth from other areas seeking less crowded and warmer climes, new development will 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. 2010 Edition and NFPA 1141 Standard for Fire Protection Infrastructure for Land Development in Suburban and Rural Areas.

When new developments are built in 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.

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

Treatment Area	Treatment Types	Treatment Method(s)			
1. All Structures	Create minimum of 50- feet of defensible space**	Trim shrubs and vines to 50-feet from structures, trim overhanging limbs, replace flammable plants near homes with less flammable varieties, remove vegetation around chimneys.			
2. Applicable Structures	Reduce structural ignitability**	Clean flammable vegetative material from roofs and gutters, store firewood appropriately, install skirting around raised structures, store water hoses for ready access, and replace pine straw and mulch around plantings with less flammable landscaping materials.			
3. Community Clean-up Day	Cutting, mowing, pruning**	Cut, prune, and mow vegetation in shared community spaces.			
4. Driveway Access	Culvert installation	See that adequate lengths of culverts are installed to allow emergency vehicle access.			
5. Road Access	Identify needed road improvements	As roads are upgraded, widen to minimum standards with at least 50-foot diameter cul-de sacs or turn arounds.			
5. Codes and Ordinances	Examine existing codes and ordinances.	Amend and enforce existing building codes as they relate to skirting, propane tank locations, public nuisances (trash/debris on property), Property address marking standards and other relevant concerns Review Subdivision and development ordinances for public safety concerns. Adopt uniform addressing ordinance.			

# **Proposed Community Hazard and Structural Ignitability Reduction Priorities**

Treatment Area	Treatment Types	Treatment Method(s)			
1. Adjacent WUI Lands	Reduce hazardous fuels	Encourage prescribed burning for private landowners and industrial timberlands particularly adjacent to residential areas. County resolution to state recommending that the Ga Forestry Commission not charge for prescribed burning in WUI areas. Seek grant for WUI mitigation team.			
2. Railroad Corridors	Reduce hazardous fuels	Encourage railroads to better maintain their ROW eliminating brush and grass through herbicide and mowing. Maintain firebreaks along ROW adjacent to residential areas.			
3. Existing Fire Lines	Reduce hazardous fuels	Clean and re-harrow existing lines.			
Proposed Improved Com	munity Wildland Fire Res	ponse Priorities			
1 111	Dry Hydrants	Inspect, maintain and improve access to existing dry hydrants. Add signage			
1. Water Sources		along road to mark the hydrants. Locate additional dry hydrants as needed.			
<ol> <li>Water Sources</li> <li>Fire Stations</li> </ol>	Equipment	Locate additional dry hydrants as			
	Equipment Drafting equipment	Locate additional dry hydrants as needed. Wildland hand tools. Lightweight Wildland PPE Gear. Investigate need			

### **Proposed Education and Outreach Priorities**

#### 1. Conduct "How to Have a Firewise Home" Workshop for Charlton County Residents

Set up and conduct a workshop for homeowners that teach the principles of making homes and properties safe from wildfire. Topics for discussion include defensible space, landscaping, building construction, etc. Workshop will be scheduled for evenings or weekends when most homeowners are available and advertised through local media outlets.

Distribute materials promoting firewise practices and planning through local community and governmental meetings.

#### 2. Conduct "Firewise" Workshop for Community Leaders

Arrange for GFC Firewise program to work with local community leaders and governmental officials on the importance of "Firewise Planning" in developing ordinances and codes as the county as the need arises. Identify "Communities at Risk" within the county for possible firewise community recognition.

#### 3. Spring Clean-up Event

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

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

Celebrate the work with a community cookout, with Community officials, GFC and Charlton Fire Departments discussing and commending the work accomplished.

### 4. Informational Packets

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

- Be Firewise Around Your Home
- Firewise Guide to Landscape and Construction
- Firewise Communities USA Bookmarks

#### 5. Wildfire Protection Display

Create and exhibit a display for the general public at the local events. Display can be independent or combined with the Georgia Forestry Commission display.

#### 6. Press

Invite the Folkston and Waycross news media to community "Firewise" functions for news coverage and regularly submit press releases documenting wildfire risk improvements in Charlton County.

#### Add READY - SET - GO to the ongoing FIRE WISE Programs

The Ready, Set, Go! Program seeks to develop and improve the dialogue between fire departments and the residents they serve. Engaging in this dialogue is particularly important for the fire service, because national studies have shown that firefighters are uniquely respected in their communities and can project a trusted voice to the public preparedness appeal. They can also explain what fire resources are available during an event and the role that individuals can play in preparedness and early evacuation – if called for by their local officials – to increase the safety of residents and responding firefighters to a wildland fire.

The RSG! Program works in complimentary and collaborative fashion with Firewise and other existing wildland fire public education efforts. It amplifies their preparedness messages to individuals to better achieve the common goal we all share of fire-adapted communities. When firefighters encourage residents to take personal responsibility for preparing their property and family for WUI/wildland fire, residents become an active part of the solution to the problem of increasing fire losses.

The Ready, Set, Go! (RSG) Program is managed by the International Association of Fire Chiefs (IAFC). Launched nationally in March 2011 at the Wildland-Urban Interface (WUI 2011) Conference, the program helps fire departments to teach individuals who live in high risk wildfire areas – and the wildland-urban interface – how to best prepare themselves and their properties against fire threats.

## VIII. ACTION PLAN

### **Roles and Responsibilities**

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

Role	Responsibility			
Hazardous Fuels and Structural I	gnitability Reduction			
Charlton County WUI Fire Council	Create this informal team or council comprised of residents, GFC officials, Charlton County Fire Rescue, a representative from the city and county government and the EMA Director for Charlton 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 goal and action plans. Work with residents to implement projects and firewise activities.			
Key Messages to focus on	1 Defensible Space and Firewise Landscaping			
	2 Debris Burning Safety			
	3 Firewise information for homeowners			
	4 Prescribed burning benefits			
Communications objectives	<ol> <li>Create public awareness for fire danger and defensible space issues</li> <li>Identify most significant human cause fire issues</li> <li>Enlist public support to help prevent these causes</li> </ol>			
	<ul> <li>4 Encourage people to employ fire prevention and defensible spaces in their communities.</li> </ul>			
Target Audiences	1 Homeowners			
	2 Forest Landowners and users			
	3 Civic Groups			
	4 School Groups			
Methods	1 News Releases			
	2 Personal Contacts			
	3 Key messages and prevention tips			
	4 Visuals such as signs, brochures and posters			

Event Coordinator	Coordinate day's events and schedule, catering for cookout, guest attendance, and moderate activities the day of the day of the event.
Event Treasurer	Collect funds from residents to cover food, equipment rentals, and supplies.
Publicity Coordinator	Advertise event through neighborhood newsletter, letters to officials, and public service announcements (PSAs) for local media outlets. Publicize post-event through local paper and radio PSAs.
Work Supervisor	Develop volunteer labor force of community residents; develop labor/advisory force from Georgia Forestry Commission, Charlton 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)
1.	Create a minimum of 50 feet of defensible space around structures	Varies	Residents will supply labor and fund required work on their own properties.
2.	Reduce structural ignitability by cleaning flammable vegetation from roofs and gutters; appropriately storing firewood, installing skirting around raised structures, storing water hoses for ready access, replacing pine needles and mulch around plantings with less flammable material.	Varies	Residents will supply labor and fund required work on their own properties.
3.	Amend codes and ordinances to provide better driveway access, increased visibility of house numbers, properly stored firewood, minimum defensible space brush clearance, required Class A roofing materials and skirting around raised structures, planned maintenance of community lots.	No Cost	To be adopted by city and county government.
4.	Spring Cleanup Day	Varies	Community Business Donations.
5.	Fuel Reduction Activities	\$15 / acre	FEMA & USFS Grants

#### POTENTIAL FUNDING SOURCES:

As funding is questionable in these times of tight government budgets and economic uncertainty, unconventional means should be identified whereby the need for funding can be reduced or eliminated. Publications / Brochures –

- FIREWISE materials are available for cost of shipping only at <u>www.firewise.org</u>.
- Another source of mitigation information can be found at <u>www.nfpa.org</u>.
- Access to reduced cost or free of charge copy services should be sought whereby publications can be reproduced.
- Free of charge public meeting areas should be identified where communities could gather to be educated regarding prevention and firewise principles.

#### Mitigation -

- Community Protection Grant:
  - USFS sponsored prescribed burn program. Communities with at risk properties that lie within 3 miles of the USFS border may apply with the GFC to have their forest land prescribed burned free of charge.
- FEMA Mitigation Policy MRR-2-08-01: through GEMA Hazard Mitigation Grant Program (HMGP) and Pre Disaster Mitigation (PDM)
  - To provide technical and financial assistance to local governments to assist in the implementation of long term cost effective hazard mitigation measures.
  - 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 fuels reduction to protect life and property.
  - With a complete and registered plan (addendum to the State plan) counties can apply for premitigation funding. They will also be eligible for HMGP if the county is declared under a wildfire disaster.
- GFC Plowing and burning assistance can be provided through the Georgia Forestry Commission as a low cost option for mitigation efforts.
- Individual Homeowners -
  - In most cases of structural protection ultimately falls on the responsibility of the community and the homeowner. They will bear the cost; yet they will reap the benefit from properly implemented mitigation efforts.
  - GEMA Grant PDM (See above)

Ultimately it is our goal to help the communities by identifying the communities threatened with a high risk to wildfire and educate those communities on methods to implement on reducing those risks.

#### **Assessment Strategy**

To accurately assess progress and effectiveness for the action plan, the Charlton County WUI Fire Council will implement the following:

- Annual wildfire risk assessment will be conducted to re-assess wildfire hazards and prioritize needed actions.
- Mitigation efforts that are recurring (such as mowing, burning, and clearing of defensible space) will be incorporated into an annual renewal of the original action plan.
- Mitigation efforts that could not be funded in the requested year will be incorporated into the annual renewal of the original action plan.
- Continuing educational and outreach programs will be conducted and assessed for effectiveness. Workshops will be evaluated based on attendance and post surveys that are distributed by mail 1month and 6 months following workshop date.
- The Charlton County WUI Council will publish an annual report detailing mitigation projects initiated and completed, progress for ongoing actions, funds received, funds spent, and in-kind services utilized. The report will include a "state of the community" section that critically evaluates mitigation progress and identifies areas for improvement. Recommendations will be incorporated into the annual renewal of the action plan.
- An annual survey will be distributed to residents soliciting information on individual mitigation efforts on their own property (e.g., defensible space). Responses will be tallied and reviewed at the next Charlton County WUI Council meeting. Needed actions will be discussed and delegated.

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



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# Hazard Risk Analyses Supplement to the Charlton County Joint Hazard Mitigation Plan



# TABLE OF CONTENTS

•	TABLE OF CONTENTS
	Introduction4
	Risk Assessment Process Overview 4
	County Inventory Changes4
	General Building Stock Updates5
	Essential Facility Updates
	Assumptions and Exceptions
ł	Hurricane Risk Assessment
	Hazard Definition9
I	Probabilistic Hurricane Scenario12
	Wind Damage Assessment12
	Wind-Related Building Damages12
	Essential Facility Losses13
	Shelter Requirements
	Debris Generated from Hurricane Wind15
ļ	Flood Risk Assessment
	Hazard Definition16
	Riverine 1% Flood Scenario17
	Riverine 1% Flood Building Damages18
	Riverine 1% Flood Essential Facility Losses 19
	Riverine 1% Flood Shelter Requirements
	Riverine 1% Flood Debris21
٦	Tornado Risk Assessment
	Hazard Definition22
	Hypothetical Tornado Scenario23
	EF3 Tornado Building Damages25
	EF3 Tornado Essential Facility Damage26
E	Exceptions Report
	Statewide Inventory Changes
	County Inventory Changes
	General Building Stock Updates
	User Defined Facilities

×.

### List of Tables

Table 1: GBS Building Exposure Updates by Occupancy Class*	5
Table 2: Updated Essential Facilities	7
Table 3: Saffir-Simpson Hurricane Wind Scale	10
Table 4: Tropical Systems affecting Charlton County	11
Table 5: Hurricane Wind Building Damage	13
Table 6: Wind-Damaged Essential Facility Losses	14
Table 7: Displaced Households and People	14
Table 8: Wind-Related Debris Weight (Tons)	15
Table 9: Charlton County Riverine 1% Building Losses	
Table 10: Expected Damage to Essential Facilities in 1% Riverine Flood	19
Table 11: Enhanced Fujita Tornado Rating	22
Table 12: Tornado Path Widths and Damage Curves	23
Table 13: EF3 Tornado Zones and Damage Curves	24
Table 14: Estimated Building Losses by Occupancy Type	25
Table 15: Essential Facility Updates	27
Table 16: Building Inventory Default Adjustment Rates	28
Table 17: Building Count and Exposure for County and Riverine Flood Area	29

### List of Figures

Figure 1: Charlton County Overview	6
Figure 2: Continental United States Hurricane Strikes: 1950 to 2014	9
Figure 3: Wind Speeds by Storm Category	12
Figure 4: Hurricane Wind GBS Loss Ratios	13
Figure 5: Hurricane Wind Shelter Requirements	. 14
Figure 6: Wind-Related Debris Weight (Tons)	15
Figure 7: Riverine 1% Flood Inundation	. 17
Figure 8: Potential UDF Loss Ratios from the 1% Riverine Flood	. 18
Figure 9: Damaged Buildings in 1% Riverine Flood	. 19
Figure 10: Estimated Flood Shelter Requirements in 1% Riverine Flood	20
Figure 11: Flood Debris Weight (Tons) in 1% Riverine Flood	21
Figure 12: EF Scale Tornado Zones	23
Figure 13: Hypothetical EF3 Tornado Path	24
Figure 14: Modeled EF3 Tornado Damage Buffers	25
Figure 15: Modeled Essential Facility Damage in Charlton County	26

## 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 **2017**, 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 Charlton County.

## **Risk Assessment Process Overview**

Hazus-MH Version 2.2 SP1 was used to perform the analyses for Charlton 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. Charlton 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 (GBS) is an inventory category that consists of aggregated data (grouped by census geography — tract or block). Hazus-MH generates a combination of sitespecific and aggregated loss estimates based on the given analysis and user input. The GBS records for Charlton County were replaced with data derived from parcel and property assessment data obtained from Charlton County. The county provided property assessment data was current as of August 2017 and the parcel data current as of August 2017. 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 Charlton County is 96.8%. The

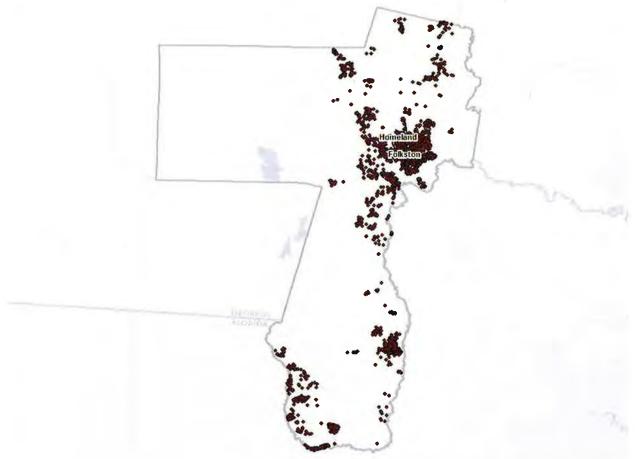
generated building inventory represents the approximate locations (within a parcel) of structures. The building inventory was aggregated by census block. Both the tract and block tables were updated. Table 1 shows the results of the changes to the GBS tables by occupancy class.

Occupancy Classification	Default Count	Updated Count	Defa	ult Exposure	Upd	ated Exposure
Agricultural	9	0	\$	2,279,000	\$	-
Commercial	151	208	\$	87,395,000	\$	92,936,000
Education	6	24	\$	9,223,000	\$	13,478,000
Government	5	20	\$	2,627,000	\$	72,548,000
Industrial	43	76	\$	22,600,000	\$	75,143,000
Religious	25	46	\$	15,063,000	\$	24,816,000
Residential	4336	4099	\$	591,524,000	\$	403,964,000
Total	4575	4473	\$	730,711,000	\$	682,885,000

Table 1: GBS Building	<b>Exposure Update</b>	s by Occupanc	y Class*
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\*The exposure values represent the total number and replacement cost for all Charlton County Buildings

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



Esri, HERE\_DeLorme, MapmyIndia, @ OpenStreetMap contributors, and the GIS user community

Figure 1: Charlton 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

	rable 2. Opualeu Essential Facilities				
Classification	Updated Count	Upda	ted Exposure		
	Charlton Cou	nty	1.1.1		
EOC	1	\$	880,000		
Care	8	\$	17,894,000		
Fire	8	\$	5,775,000		
Police	6	\$	11,542,000		
School	11	\$	121,130,000		
Total	34	\$	157,221,000		

#### Table 2: Updated Essential Facilities

Classification	Updated Count	Updat	ed Exposure
	Homeland		
EOC	0	\$	
Care	0	\$	1.05
Fire	0	\$	
Police	1	\$	153,000
School	0	\$	:2:
Total	1	\$	153,000

Classification	Updated Count	Upo	dated Exposure
252	Folkston		
EOC	0	\$	
Care	6	\$	13,185,000
Fire	1	\$	1,743,000
Police	4	\$	9,387,000
School	7	\$	111,563,000
Total	18	\$	135,878,000

## **Assumptions and Exceptions**

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

- The Charlton 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 Charlton 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.

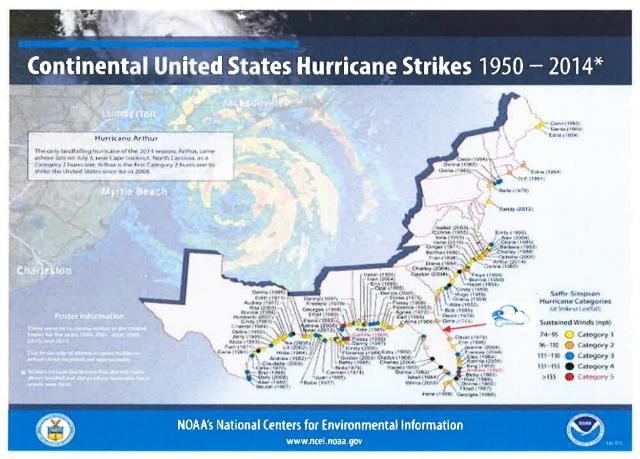


Figure 2: Continental United States Hurricane Strikes: 1950 to 2014<sup>3</sup>

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.

<sup>&</sup>lt;sup>2</sup> 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>&</sup>lt;sup>3</sup> Source: NOAA National Climatic Data Center

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

#### Table 3: Saffir-Simpson Hurricane Wind Scale

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 Charlton County by creating a 20-mile buffer around the county to include storms that didn't make direct landfall in Charlton County but impacted the county. Since 1851, Charlton County has had 76 tropical systems within 20 miles of its county borders (Table 4).

### Table 4: Tropical Systems affecting Charlton County

Year	Month	Day	Name	Wind (Knots)	Category	Year	Month	Day	Name	Wind (Knots)	Category
1868	October	4	NOTNAMED	50	TS	1926	July	28	NOTNAMED	60	TS
1868	October	5	NOTNAMED	40	TS	1928	September	18	NOTNAMED	80	H1
1871	August	18	NOTNAMED	60	TS	1932	September	15	NOTNAMED	45	TS
1871	August	18	NOTNAMED	60	TS	1938	October	24	NOTNAMED	40	TS
1871	August	18	NOTNAMED	50	TS	1946	October	8	NOTNAMED	40	TS
1871	August	23	NOTNAMED	60	TS	1946	October	8	NOTNAMED	35	TS
1871	August	23	NOTNAMED	50	TS	1946	November	2	NOTNAMED	25	TD
1871	September	6	NOTNAMED	50	TS	1946	November	2	NOTNAMED	25	TD
1873	June	2	NOTNAMED	40	TS	1947	September	24	NOTNAMED	50	TS
1873	June	2	NOTNAMED	40	TS	1947	September	24	NOTNAMED	45	TS
1873	September	19	NOTNAMED	60	TS	1947	October	7	NOTNAMED	40	TS
1874	September	28	NOTNAMED	60	TS	1947	October	7	NOTNAMED	35	TS
1877	September	20	NOTNAMED	40	TS	1950	September	7	EASY	40	TS
1877	September	20	NOTNAMED	40	TS	1953	September	20	NOTNAMED	40	TS
1878	October	11	NOTNAMED	40	TS	1960	July	29	BRENDA	30	TD
1880	September	8	NOTNAMED	40	TS	1964	June	6	NOTNAMED	30	TD
1882	October	11	NOTNAMED	50	TS	1964	October	5	HILDA	35	E
1885	August	31	NOTNAMED	40	TS	1968	June	7	ABBY	50	TS
1885	September	21	NOTNAMED	40	TS	1970	May	25	ALMA	25	TD
1885	September	30	NOTNAMED	30	TD	1970	May	25	ALMA	25	TD
1885	October	12	NOTNAMED	50	TS	1972	May	27	ALPHA	50	SS
1888	September	9	NOTNAMED	45	TS	1972	May	28	ALPHA	30	SD
1888	September	9	NOTNAMED	40	TS	1976	May	23	SUBTROP1	40	SS
1893	June	16	NOTNAMED	50	TS	1976	May	24	SUBTROP1	40	SS
1896	September	29	NOTNAMED	100	H3	1984	September	28	ISIDORE	45	TS
1898	October	2	NOTNAMED	115	H4	1985	October	10	ISABEL	35	TS
1898	October	2	NOTNAMED	90	H2	1985	October	11	ISABEL	30	TD
1900	October	12	NOTNAMED	35	TS	1985	October	11	ISABEL	30	TD
1907	June	29	NOTNAMED	45	TS	1994	November	21	GORDON	20	TD
1910	October	19	NOTNAMED	50	TS	1994	November	21	GORDON	20	TD
1912	July	15	NOTNAMED	45	TS	1996	October	8	JOSEPHINE	60	TS
1912	July	15	NOTNAMED	40	TS	1996	October	8	JOSEPHINE	45	E
1914	September	17	NOTNAMED	60	TS	1998	October	1	GEORGES	25	TD
1914	September	17	NOTNAMED	40	TS	2000	September	18	GORDON	40	TS
1915	August	2	NOTNAMED	40	TS		September	18	GORDON	30	TD
1915	August	2	NOTNAMED	40	TS	2004	August	12	BONNIE	30	TD
1919	October	1	NOTNAMED	40	TS	2005	October	6	TAMMY	45	TS
1924	September	16	NOTNAMED	40	TS	2007	June	2	BARRY	30	TD

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 90 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.

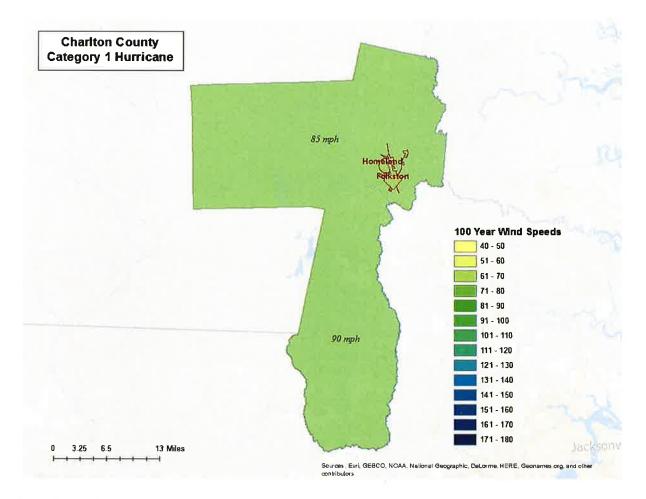


Figure 3: Wind Speeds by Storm Category

### Wind-Related Building Damages

Buildings in Charlton 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 Charlton 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.

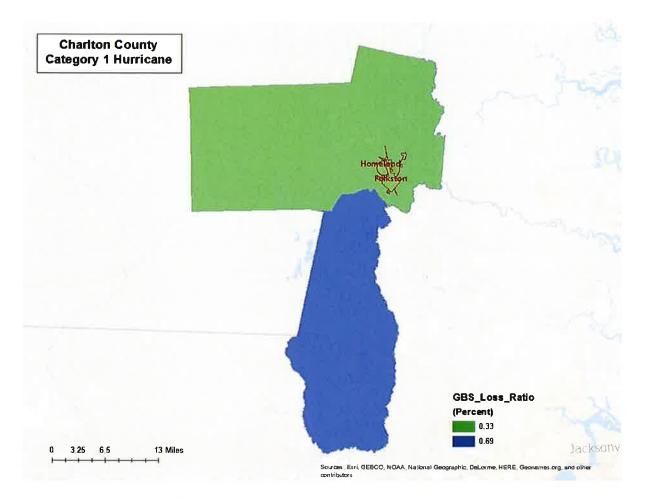


Figure 4: Hurricane Wind GBS Loss Ratios

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

Storm Classification	Number of Damaged Buildings	Building Damages	Tota	Economic Loss	Loss Ratio
Category 1	156	\$ 2,759,610	\$	3,979,840	0.4

### **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 34 essential facilities in Charlton County.

Classification	Number
EOC	1
Care	8
Fire	8
Police	6
School	11
Total	34

Table 6: Wind-Damaged Essential Facility Losses

Storm	Facilities Moderately	Facilities Completely	Facilities with
Classification	Damaged (>50%)	Damaged (>50%)	expected loss (<1day)
Category 1	0	0	34

### **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	1	0

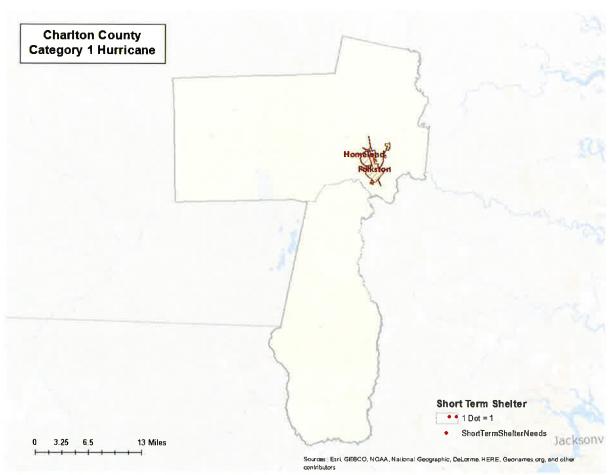


Figure 5: Hurricane Wind Shelter Requirements

### 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	291		7,915	246,435	254,641

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.

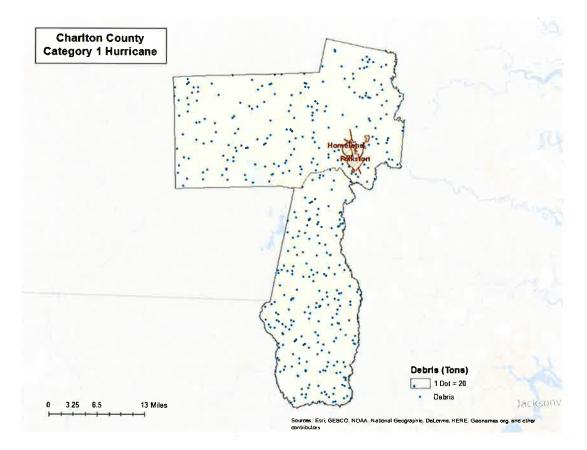


Figure 6: Wind-Related Debris Weight (Tons)

## 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 (1percent-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 Charlton 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 October 2017. 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.

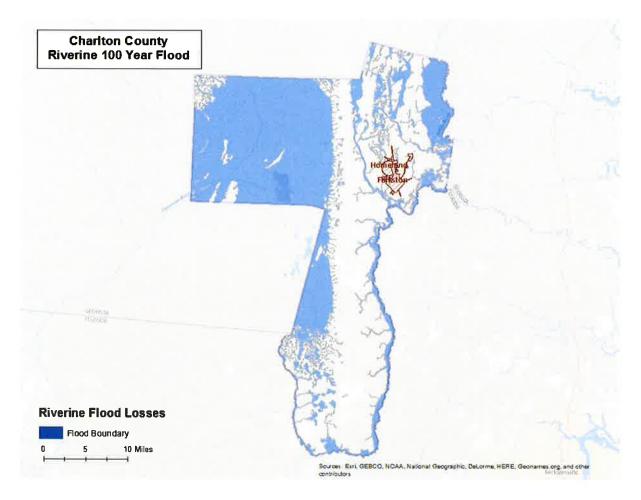


Figure 7: Riverine 1% Flood Inundation

### **Riverine 1% Flood Building Damages**

Buildings in Charlton 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 Charlton 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.

Occupancy	Total	Total Buildings		Total	То	tal Losses to	Loss Ratio of
Classification	Buildings	Damaged	Bu	ilding Exposure		Buildings	<b>Exposed to Damaged</b>
				Folkston			
Residential	784	1	\$	103,691,765	\$	36,498	0.04%
Industrial	58	1	\$	58,855,142	\$	574	0.00%
Commercial	159	1	\$	70,562,718	\$	444	0.00%
				Homeland			
Residential	339	2	\$	25,418,442	\$	16,390	0.06%
				Unincorporated			
Residential	2,976	89	\$	274,860,428	\$	1,570,140	0.57%
				<b>County Total</b>			
Total	4,316	94		533,388,495		1,624,046	

Table 9: Charlton County Riverine 1% Building Losses

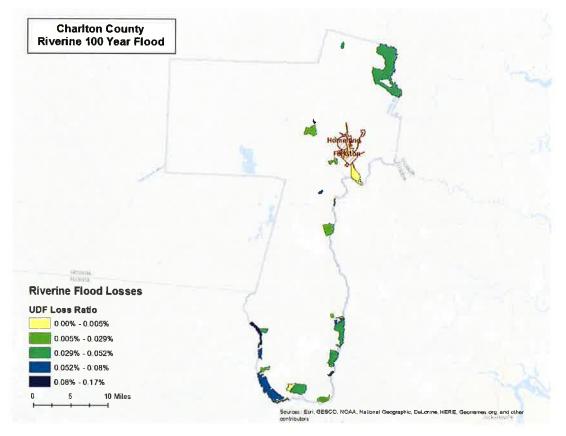


Figure 8: Potential UDF Loss Ratios from the 1% Riverine Flood

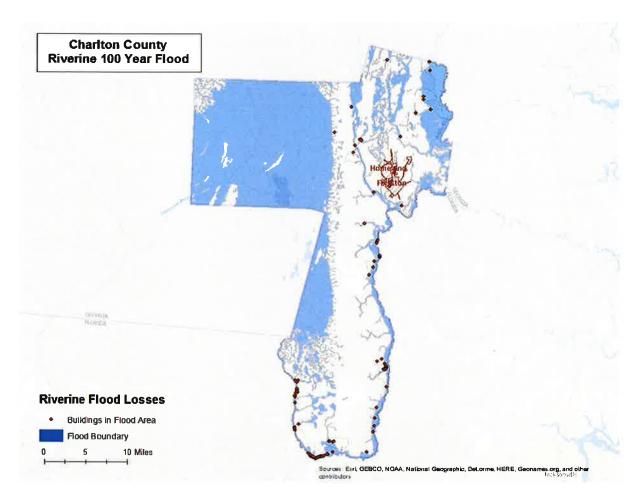


Figure 9: Damaged Buildings in 1% Riverine Flood

### **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 Charlton County riverine 1% probability floodplain.

Classification	Total	Moderate	Substantial	Loss of Use
Fire Station	8	0	0	0
Hospitals	7	0	0	0
Police Stations	6	0	0	0
Schools	11	0	0	0
EOCs	0	0	0	0

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

### **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 332 households might be displaced due to the flood. Displacement includes households evacuated within or very near to the inundated area. Displaced households represent 997 individuals, of which 473 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).

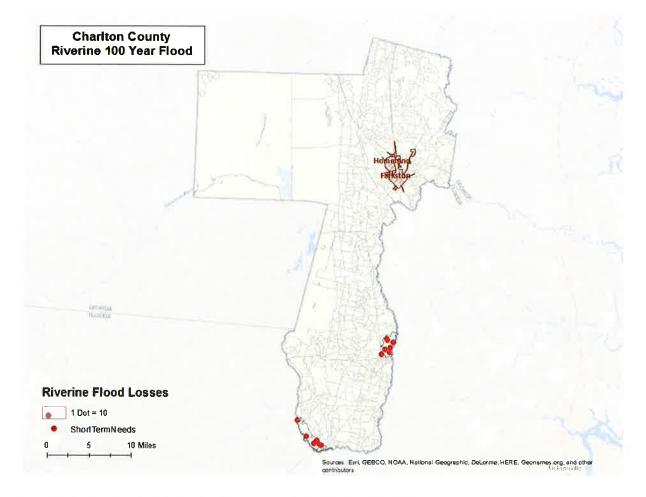


Figure 10: Estimated Flood Shelter Requirements in 1% Riverine Flood

### **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 3,437 tons of debris might be generated: 1) Finishes – 1,205 tons; 2) Structural - 790 tons; and 3) Foundations- 1,442 tons. The results are mapped in Figure 11.

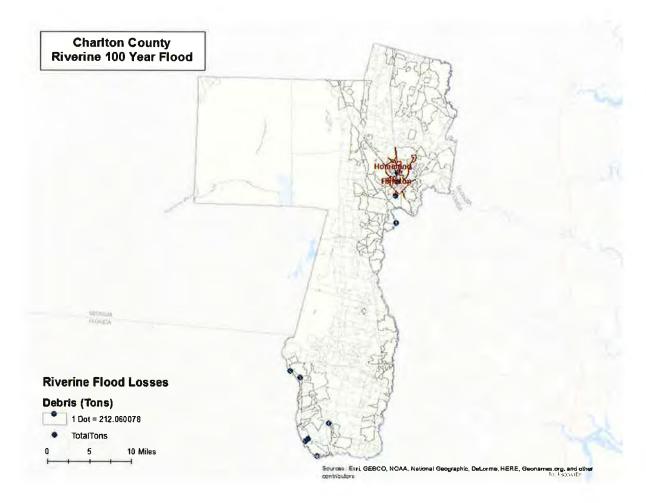


Figure 11: Flood Debris Weight (Tons) in 1% Riverine Flood

## 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.

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 <i>Moderate</i>	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.

### Table 11: Enhanced Fujita Tornado Rating

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 Folkston. 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.

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%

Table 12: Tornado Path Widths and Damage Curves

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.

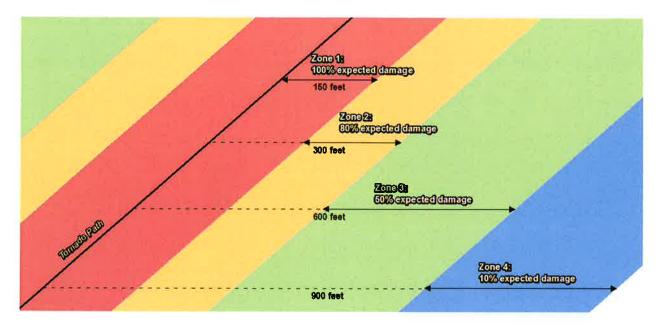


Figure 12: EF Scale Tornado Zones

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 Torna	ado Zones and Damage C	urves
Zone	Buffer (feet)	Damage Curve
1	0-150	80%
2	150-300	50%
3	300-600	10%
4	600-900	0%



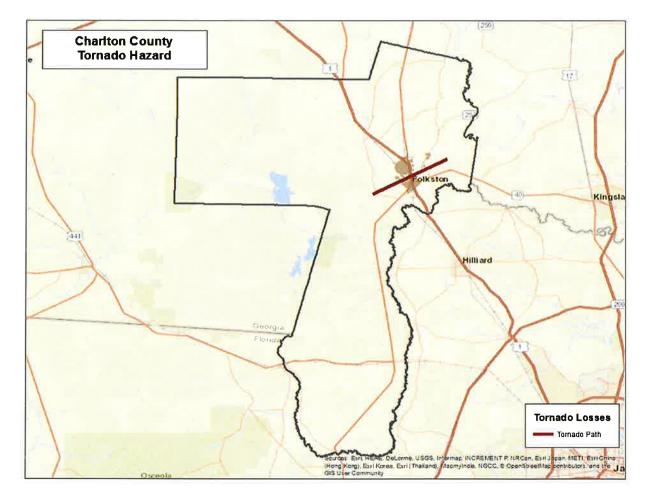


Figure 13: Hypothetical EF3 Tornado Path

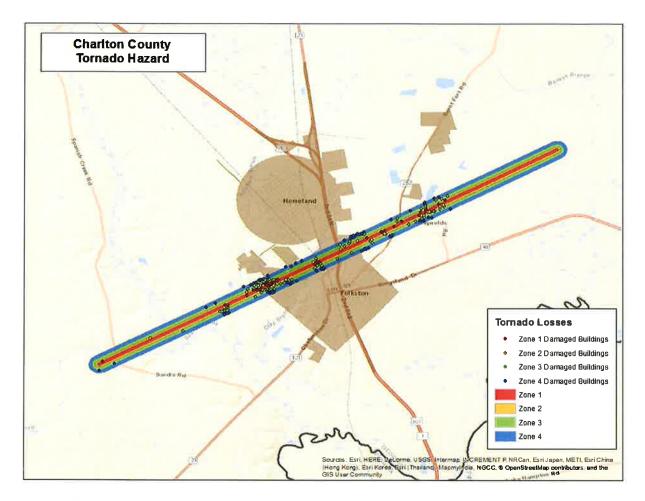


Figure 14: Modeled EF3 Tornado Damage Buffers

### EF3 Tornado Building Damages

The analysis estimated that approximately 260 buildings could be damaged, with estimated building losses of approximately \$7.1 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 Charlton 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.

Occupancy	Buildings		Building Losses	
Classification	Damaged			
Commerical	5	\$	207,447	
Educational	3	\$	1,228,751	
Industrial	2	\$	20,275	
Religious	2	\$	491,474	
Residential	248	\$	5,193,128	
Total	260	\$	7,141,075	

Table 14: Estimated Building Losse	es by Occupancy Type
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#### EF3 Tornado Essential Facility Damage

There were 5 essential facilities located in the tornado path according to the modeling, these 5 facilities would suffer moderate to major damage should such a tornado strike occur.

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

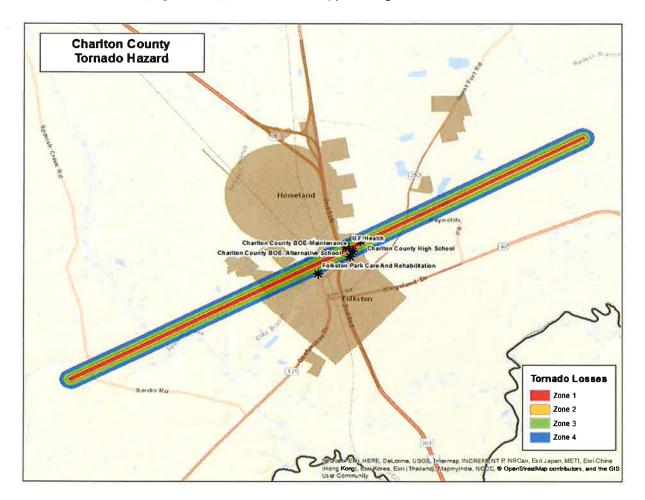


Figure 15: Modeled Essential Facility Damage in Charlton County

## **Exceptions Report**

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

Statewide facility data were supplied by GEMA through the GMIS in June 2015. The Regional Commission updated the essential facilities in 2017. 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 Charlton County.

Occupancy	Default	Updated			
Classification	Replacement Cost	Default Count		Replacement Cost	Updated Count
Care	\$ 24,583,000	7	\$	17,894,000	8
EOC	\$ 880,000	1	\$	880,000	1
Fire	\$ 8,686,000	10	\$	5,775,000	8
Police	\$ 15,150,000	9	\$	11,542,000	6
School	\$ 61,761,000	9	\$	121,130,000	11

#### Table 15: Essential Facility Updates

## **County Inventory Changes**

The GBS records for Charlton County were replaced with data derived from parcel and property assessment data obtained from Charlton County. The county provided property assessment data was current as of August 2017 and the parcel data current as of August 2017.

### **General Building Stock Updates**

The parcel boundaries and assessor records were obtained from Charlton 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 Charlton County was 96.8%.

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 Charlton County records.

Billion Billio				
Type of Adjustment	Building Count	Percentage		
Area Unknown	413	9%		
Construction Unknown	430	10%		
Condition Unknown	162	4%		
Foundation Unknown	431	10%		
Year Built Unknown	139	3%		

Table 16: Building Inventory	Default Adjustment Rates
------------------------------	--------------------------

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 Charlton 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.

4,473	\$682,901,401
159	\$15,349,722
	,

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

Appendix D – Worksheets used in planning processI.Completed GEMA/local worksheets except Worksheet 3A

# CHARLTON COUNTY (INCLUDING THE CITIES OF FOLKSTON AND HOMELAND) HAZARD FREQUENCY TABLE

	Number of Events in Historic	Number of Years in Historic	Number of Events in Past 10	Number of Events in Past 20	Number of Events in Past 50	Historic Recurrence Interval	Historic Frequency % chance/	Past 10 Year Record Frequency	Past 20 Year Record Frequency	Past 50 Year Record Frequency
	Record	Record	Years	Years	Years	(years)	year	Per Year	Per Year	Per Year
Hazard										
Hurricane/Tropical Storm	6	68	3	6	6	11.33	8.82	0.3	0.3	0.12
Flood/SLOSH	19	68	6	17	19	3.58	27.94	0.6	0.85	0.38
Wildfire	3623	50	465	1106	3623	0.01	7246.00	46.5	55.3	72.46
Tornado	11	68	3	7	11	6.18	16.18	0.3	0.35	0.22
Thunderstorm/Wind	104	68	40	89	104	0.65	152.94	4	4.45	2.08
Severe Winter Storm	13	56	2	12	12	4.31	23.21	0.2	0.6	0.24
Hail	49	68	12	46	49	1.39	72.06	1.2	2.3	0.98
Drought	303	18	148	303	303	0.06	1683.33	14.8	15.15	6.06
Lightning	1	68	1	1	1	68.00	1.47	0.1	0.05	0.02
Extreme Heat	39	12	32	39	39	0.31	325.00	3.2	1.95	0.78

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

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

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

## **GEMA Worksheet #1**

**Identify the Hazard** 

Step 1

Date: 8/9/2016

What kinds of natural hazards can affect you?

#### Task A. List the hazards that may occur.

- 1. Research newspapers and other historical records
- 2. Review existing plans and reports.
- 3. Talk to the experts in your community, state, or region.
- 4. Gather information on Internet Websites.
- 5. Next to the hazard list below, put a 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.
- 3. Determine whether you are in a high-risk area. Get more localized information if necessary.
- 4. Next to the hazard list below, put a check mark in the Task B boxes beside all hazards that post a significant threat.

	A	D	will be used and him a data of a data		~	Zurus you
A 1 1	Α	В	will be researching. Attach addition	onai pages as ne	ecessary.	
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 Attached Sheets	See	See	See
Extreme Cold				Attached	Attached	Attached
Extreme Heat	X	X		Sheets	Sheets	Sheets
Flood	Χ	Х				
Hailstorm	X	X				
Hurricane	X	Χ				
Land Slide	_					
Severe Winter Storm	X	X				
Tornado	X	X				
Tsunami	1.1					
Volcano					1	
Wildfire	X	X				
Windstorm	X	X				
Chemical Release						
<b>Biological Release</b>		_				1
Radiological Release	100					1.0.00
Explosive Device		_				
Active Shooter				h		
Public Health Emer.	x	x	-			
Other Lightning	X	X				
outor <u>Digitating</u>	<b>4 b</b>	<b>4 h</b>				
					( L	
Note: <b>Bolded</b> hazard.	s are ad	drossod				
more, Domen na2ara	s ure uu	nicodeu				

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

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

### GEMA Worksheet #2

**Profile Hazard Events Step 2** 

County: Charlton

Date: 8/9/2016

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.

You can use existing maps from:

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

Title of Map	Scale	Date
USGS Topographic Quarter Quad Maps	1: 12,000	Various
	-	
· · · · · · · · · · · · · · · · · · ·		
		· · · · · ·

Task B. Obtain a hazard event profile.	Task C. Record your hazard event profile information.
Avalanche	
<ol> <li>Coastal Storm / Coastal Erosion         <ol> <li>Get a copy of your FIRM</li></ol></li></ol>	<ol> <li>Transfer the boundaries of your coastal storm hazard areas onto your base map.</li> <li>Transfer the BFEs onto your base map.</li> <li>Record the erosion rates on your base map:</li> <li>Record the design wind speed here and on your base map:</li> </ol>
Dam Failure X	
Drought X	
<ul> <li>Earthquake</li> <li>1. Go to the <u>http://geohazards.cr.usgs.gov</u> Website.</li> <li>2. Locate your planning area on the map.</li> <li>3. Determine your PGA.</li> </ul>	<ol> <li>Record your PGA:</li> <li>If you have more than one PGA print, download or order your PGA map.</li> </ol>
Expansive Soils	
Extreme Heat X	
<ul> <li>Flood X</li> <li>1. Get a copy of your FIRM. Various</li> <li>2. Verify the FIRM is up-to-date and complete. 9/08</li> </ul>	<ol> <li>Transfer the boundaries from your firm onto your base map (floodway, 100-yr flood, 500-yr flood).</li> <li>Transfer the BFEs onto your base map.</li> </ol>
Hailstorm X	
Hurricane X	
Land Subsidence	
Landslide <ol> <li>Map location of previous landslides.</li> <li>Map the topography</li></ol>	<ol> <li>Mark the areas susceptible to landslides onto you base map.</li> </ol>
Severe Winter Storm X	
Tornado X 1. Find your design wind speed. 90-99, 100-109	<ol> <li>Record your design wind speed: 90-99/100-109</li> <li>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.</li> </ol>
Tsunami	
<ol> <li>Wildfire X</li> <li>Map the fuel models located within the urban- wildland interface areas. GFC</li> <li>Map the topography. GFC</li> <li>Determine your critical fire weather frequency. GFC</li> <li>Determine your fire hazard severity. GFC</li> </ol>	<ol> <li>Draw the boundaries of your wildfire hazard areas onto your base map.</li> </ol>
Other: Windstorm, Lightning, Public Health Emer. 1. Map the hazard. Yes	1. Record hazard event info on your base map,

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.

Goal: Mitigation Goal #1 – Prevent or reduce damage caused by Hurricanes/Tropical Storms in Charlton County, the City of Folkston and the City of Homeland.

**Objective:** Objective #1 - Minimize losses to existing and future structures, especially Critical Facilities and Infrastructure, and the public, due to Hurricanes/Tropical Storms.

STAPLEE Criteria		S cial)	Te	T	cal)	{Adr	A ninist	rative)	(P	Politic	al)		L (Lega	1)	1	(Ecc	E	c)		(E)	E	mental)	
Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility				Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	1.00	Potential Legal Challenge	Benefit of Action	Cost of Action	-	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HaZMAT / Waste Sites	Consistent with Community Environmentul Goals	Consistent With
Continue to work with C.E.R.Ts (Community Emergency Response Teams) in Charlton County and the Cities of Folkston and Homeland.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
If possible, design new educational facilities to the level that they could be used as public shelters for emergency purposes and test current shelters and educational facilities for safety and effectiveness in Charlton County and the Cities of Folkston and Homeland.	+	+	+	+	+	+	+	÷	+	+	+	+	+	+	+	+	+	÷	N/A	N/A	N/A	N/A	N/A
Work with GDOT to improve unsafe roads in Charlton County and in the Citles of Folkston and Homeland that already are, or could be, evacuation routes including St. Mary's River Bluff Road.	+	+	÷	+	+	+	+	+	÷	+	+	+	+	÷	+	+	÷	÷	N/A	N/A	N/A	N/A	N/A
Construct a storage building for storage of emergency materials needed for shelters, etc., relocate materials from other areas, secure additional cots and materials, medications and dehydrated foods for shelters.	+	+	+	+	+	+	÷	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Cut made to fit plywood window covers and install construction materials necessary for use during Hurricanes/Tropical Storms at Critical Facilities in Charlton County and the Cities of Folkston and Homeland.		+																	N/A	N/A	N/A	N/A	N/A

Designate and attempt to supply new Red Cross Shelters in Chartton County and the Cities of Folkston and Homeland.	÷	+	+	÷	+	+	+	+	+	+	+	+	+	+	÷	+	÷	+	N/A	N/A	N/A	N/A	N/A_
Work with GDOT to improve highways in Charlton County and in the Cities of Folkston and Homeland that already are, or could be, evacuation routes., including US 1 in Downtown Folkston, SR 40 at same spot previously expanded,	+	+	+	+	÷	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Order 2 new ambulances, an assisted lift mechanism, cardiac monitors, additional Supplies and Equipment for Chartton County EMS.	+	+			+	+			+		+				+			+	N/A	N/A	N/A	N/A	N/A

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.

Goal: Mitigation Goal #1 – Prevent or reduce damage caused by Hurricanes/Tropical Storms in Charlton County, the City of Folkston and the City of Homeland.

Objective: Objective #2 - Advise the public of health & safety precautions and procedures necessary during Hurricanes/Tropical Storms and other events and on hazard mitigation, in general, in Charlton County, the City of Folkston and the City of Homeland.

STAPLEE Criteria		S cial)	(Teo	T	al)	(Adr	A	rative)	(P	Politic	al)	8	L (Lega	1)		(Ecc	E	c)		(E	E	mental)	
Considerations → for Alternative Actions	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Altocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangerad Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Acquire and distribute literature from state agencies regarding disaster health & safety issues in Charlton County and the Cities of Folkston and Homeland.	+	+	*	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Order additional road signage for emergency traffic circulation and publish most efficient routes in advance in Charlton County and the Cities of Folkston and Homeland.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Distribute information concerning hazard mitigation to area news markets and by speaking at schools and civic clubs in Charlton County and the Cities of Folkston and Horneland.	+	+	+	+	+	+	+	+	÷	+	+	+	+	+	+	+	÷	÷	N/A	N/A	N/A	N/A	N/A
Provide funding for programs that enhance public safety and health in																							

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.

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Goal: Mitigation Goal #1 – Prevent or reduce damage caused by Hurricanes/Tropical Storms in Charlton County, the City of Folkston and the City of Homeland.

Objective: Objective #3 - Ensure reliable electrical power and communications efficiency at Critical Facilities and among agencies during Hurricanes/Tropical Storms and other events in Charlton County, the City of Folkston and the City of Homeland.

STAPLEE Criteria		S cīal)	(Te	T chnic	al)	(Adr	A ninist	rative)	(P	P	al)	1.	L (Lega	0	1		E	c)	1	(E	E	mental)	
Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility		0		Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support		1000	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals		Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Purchase generators and trailer for use at Critical Facilities (including EMS/EMA Main Building, Folkston Elementary School Shelter serving 500, First Baptist Church serving 100, St. George Church of God serving 100, Camp Pinckney Baptist Church serving 100, St. George New Life Baptist Church serving 60, Winoker EOC, Folkston EOC, St, George EOC, Charlton Rd Dept Fuel Pumps, Charlton Road Dept. St. George Fuel Pumps, Lift Station Portable and pre-wire Critical Facilities & gas pumps for generator use in Charlton County and the Cities of Folkston and Homeland.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Purchase communications equipment (radios, pagers, batteries and chargers) that have multi-channel capabilities and store them at certain Critical Facilities in Charlton County and the Cities of Folkston and Homeland.	+	+	+	+	+	+	+	+	÷	+	+	+	÷	+	+	+	÷	÷	N/A	N/A	N/A	N/A	N/A
Install new and/or repair existing radio repeaters and antennas, which will be automated and zone specific, in Charlton County (especially at Winoker, Race Pond, Georgia Bend and Rayonnier Land at south end of county) and in the Cities of Folkston and Homeland.	+	+	+	+	+	+	+	+	÷	+	+	+	+	+	+	4	+	+	N/A	N/A	N/A	N/A	N/A

Install GPS location systems in Emergency Vehicles	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N//
In Charlton County, purchase 15 Sheriff Vehicles for emergency use.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N
In the City of Homeland, purchase 1 Police Vehicle for emergency use	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		N/A	N/A	N/A	N
In the City of Folkston, purchase 5 Police Vehicle for emergency use.	+	+	+	÷	+	+	+	+	+	÷	+	÷	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/
In the City of Homeland, purchase 2 generators for water facilities use during emergencies and pre-wire for generators, to serve entire population of 910 persons.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N
In the City of Folkston, purchase 6 generators for the 3 water facilities use during emergencies and pre-wire for generators, to serve entire population of 2,502 persons	÷	+	+	+	+	+	+	÷	+	+	+	+	÷	+	+	+	+	+	N/A	N/A	N/A	N/A	N/
Identify kitchens, restaurants and fast food establishments that use natural gas or propane for use if electricity is out for long periods during emergency situations.	+										+	+	+		+	+	+	+		N/A		N/A	N

Alternative Actions	Comments

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).

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Goal: Mitigation Goal #1 – Prevent or reduce damage caused by Floods/SLOSH in Charlton County, the City of Folkston and the City of Homeland.

**Objective:** Objective #1 - Minimize losses to existing and future structures, especially Critical Facilities and Infrastructure, due to Floods/SLOSH.

STAPLEE Criteria		S icial)	Tri	T		14.3	A	rative)	10	Politic			L			15	E	4		15.	E	mental)	
Considerations → for Alternative Actions ↓	Community Acceptance	Effection Segment of Population		Long-term Solution			Funding Allocated	Maintenance / Anno Operations	Political Support	ocal Champion	Public Support	State Authority	Existing Local Authority 55		Benefit of Action	Cost of Action	Contributes to Economic Goals	1-11	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT	Consistent with Community Environmental Goals	Consistent With
Conduct studies of and implement projects to protect the Critical Facilities & Infrastructure from Flood/SLOSH damages in Charlton County and the Cities of Folkston and Homeland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Conduct storm-water drainage replacement, repair & cleaning and maintain canals in Chartton County and the Cities of Folkston and Homeland.	+	+	÷	+	+	÷	÷	+	÷	+	+	÷	+	+	+	+	+	+	+	+	N/A	+	+
Plan flood and drainage projects in Chariton County on Allen O' Berry Road, Bilaie Thrift Road, Black River Area (Saint Mary's), B.M. Prescott Road, Bragg Street (St. George), Canady Loop, Chancey Road Bridge, Creek Landing Road, Ernmaus Church Road, Forrest Lake Area, GA Hwy. #94, GA Hwy. #98, GA Hwy. #121 near 12 mile marker, GA Bend Area, Jimmy Todd Road, Lavender Road, Lowther Road, Lowther Road, Newell Road, Paxton Road (at Sardis Road), Pinehurst Area (out GA Hwy. #40), Ralph Davis Road, Saint Mary's Bluff Road, Saint Mary's River Area, Willie Dixon Road, Roddenberry Road and in other	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	+	+
Update & enforce laws prohibiting developers from filling in drainage																							

	-	-	r	-	-	-	-	_	r	-	-	_	_	-	-	-	-		-	-	-	r—	
Attempt to take precautions at water facilities in unincorporated Charlton County and in the City of Folkston and the City of Homeland to insure flood protection, as funds become available to do so	+	+	÷	+	+	+	+	+	+	+	÷	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Enact a public awareness campaign regarding Floods/SLOSH and develop brochures for developers & the public regarding land clearing, roads, erosion and building in unincorporated Charlton County and in the City of Folkston and the City of Homeland to insure Flood/SLOSH protection, as funds become available to do so.	÷	+	+	+	+	+	÷	+	+	+	+	+	+	÷	+	+	+	÷	N/A	N/A	N/A	N/A	N/A
Provide funding for the support of the St, Marys River Management Committee and contribute funding to support GA DNR programs that study the St, Marys and Satilla Rivers.	+	÷	÷	+	+	+	÷	+	+	+	+	+	+	ŧ	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Update & enforce laws regarding proper drainage (2000+ properties w/out culvert pipes), purchase pipes for public sale, change mail box locations, explore replacing undersized pipes with at least 18" & 24" pipes, construct more outfall ditches & acquire more drainage easements, do regular maintenance on drainage/outfall ditches in Charlton County and in the City of Folkston and the City of Homeland.			+		+				+		+	+				+	+	+		+		+	

Work to alleviate present & future evacuation & emergency access problems in subdivision areas in Charlton County and the City of Folkston and the City of Homeland.	+	+	+	+	+	+	+	+	+	+	+	+	+	÷	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Work to preserve wetland areas in Charlton County and the City of Folkston and the City of Homeland to assure that excess water can be captured.	+	+	+	+	+	+	+	÷	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
After Flood/SLOSH events, or other hazard events in Charlton County and the City of Folkston and the City of Homeland, attempt to perform analysis on properties effected to determine if events have occurred in the past and attempt to mitigate or purchase, if necessary.		+	+	+	+	+	+	+	+	+	+	+	+	+	÷	+	+	+	+	+	+	+	+
Plan flood and drainage projects in the City of Homeland in Nature Trail Estates area and in other flood-prone areas including installing and replacing culverts.	ŧ	+	+	+	+	÷	+	+	+	+	+	+	+	+	+	+	+	+	+	÷	+	÷	+
Continue membership in the NFIP by adopting updated ordinances and FIRM maps as updates are available																			N/A	N/A	N/A	N/A	N//

Alternative Actions	Comments
-	
-	

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Goal: Mitigation Goal #1 – Prevent or reduce damage caused by Wildfire in Charlton County, the City of Folkston and the City of Homeland.

**Objective:** Objective #1 - Minimize losses to existing and future structures, especially Critical Facilities and Infrastructure, and woodlands due to Wildfire.

STAPLEE Criteria		S cial)	(Te	T	al)	(Adr	A ninist	rative)	(P	Politic	al)		L (Leg:	al)		(Ecc	E	c)	1	(E		mental)	
Considerations → for Alternative Actions	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Statting	Funding Allocated	Mainténance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Action Step #1: Provide additional first responder training, training manequins, extrication equipment, air units, air unit chargers, 1 Class A Pumper and/or Fire Knocker trucks, tankers, and other equipment to all Charlton County Volunteer Fire Stations for Wildfire use.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #2: Plan to acquire property for new Charlton County Volunteer Fire Stations (including Georgia Bend [New], moving Race Pond Station, & Station #1), new additions & modifications to existing stations.	+	+	+	+	+	+	+	+	÷	+	+	+	÷	+	+	+	+	+	+	N/A	N/A	N/A	N/A
Action Step #3: In the City of Folkston and the City of Homeland (on Reynolds Road [New], Robin Lane [New], Paxton Road area and other areas), replace the four inch (4") or less water lines with 6" to 8"water lines with 6" to 8"water lines and hydrants, tie in Robin Lane and connect Homeland Water System.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A
Action Step #4: In the City of Folkston, extend water into the Spring Lake areas.	+	+	+	+	+	+	+	+	+	+	+	+	+	÷	+	+	÷	+	+	N/A	N/A	N/A	N/A
Action Step #5: In the City of Folkston, improve accuracy, effectiveness, efficiency and safety of the City's water supply.	+	+	+	+	+	÷	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A

Action Step #6: In the City of Folkston, complete the preparation of a comprehensive set of water system maps to identify problem areas.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #7: Work with CSX and other railroads to reduce inadequate slopes that impeded heavy fire equipment from crossing tracks including: Maddox Rd. (marginal), Martha Dowling Rd. (poor), Mizell Rd. (poor), Sawfly Rd. (poor), Old Racepond Rd. (not passable), Lidia Rd. (not passable) and others.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #8: Install four (4) deep wells and generator systems to run them with one (1) in Moniac and the other three (3) in roughly each county quadrant for emergency water usage, slowly replacing dry hydrants in those areas.	+	+			+	+	+	+		+	+	+	+	+	+	+	+	+	+	N/A	N/A	+	

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Goal: Mitigation Goal #1 – Prevent or reduce damage caused by Wildfire in Charlton County, the City of Folkston and the City of Homeland.

Objective: Objective #2– Obtain a FireWise Community Status by educating the Charlton County, City of Folkston and the City of Homeland Fire Department personnel and the public on the hazards of Wildfire and the pre-disaster mitigation thereof.

STAPLEE Criteria		S ocial)	(T	T	ical)	(Adı	A	rative)	(P	Politic	al)		L (Lega	1)		(Eco	E	:)	2	(E	E	mental)	
Considerations → for Alternative Actions	Community Acceptance	Effect on Segment of Proutation	Technical	Long-term	Socondary Secondary Impacts	Staffing,	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goats	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HaZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With
Action Step #1: Maintain good public relations between the citizens of Charlton County and the City of Folkston and the City of Homeland and the County Fire Departments and plan to increase levels of awareness and resources during peak hazard conditions through the use of education sessions, community meetings, citizens academy, etc.	+	+	+	+	+	+	+	+	+	+	+	+	÷	+	+	+	+	+		N/A	N/A	N/A	N/A
Action Step #2: Partner with the Georgia Forestry Commission to provide education to Chartton County and City of Folkston and the City of Homeland communities and citizens on the pre- disaster mitigation of Wildfire ar.d use & develop grade school based programs to educate children.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #3: Plan RFD meetings in Charlton County and the Cities of Folkston and Homeland and hold joint mock fire drills for all fire stations.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #4: Work to implement the National Cohesive Wildland Fire Management Strategy and educate the public on its merits. Action Step #5:	+	+	+	+	+	÷	+	+	+	+	+	+	+	÷	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Work to bring a Prevention Education Team (FPET) or Community Mitigation Assistance Team (CMAT) event to the area during periods of high wildfire activity or preparedness.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

Work to bring fire and fire prevention training events to the area twice a year such as wildlands, major and commercial structural, haz-mat, etc.	÷	+	÷	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
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Goal: Mitigation Goal #1 – Prevent or reduce damage caused by Wildfire in Charlton County, the City of Folkston and the City of Homeland.

**Objective: Objective #3: Implement priorities, projects and recommendations contained in GA Forestry Commission's "Community Wildfire Protection Plan".** 

STAPLEE Criteria		S cial)	ITe	T	all	Adr	A	rative)	IP	Politic	all		L (Lega			IEco	E	-1	1	(E)	E	mental)	
Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technicai Feasibility	Long-term Solution			Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support		Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT	Consistent with Community Environmental Gaals	Consistent With Federal Laws
Action Step #1: Create a minimum of 50 feet of defensible space around all governmental structures and recommend to homeowners & community stakeholders that they create same space through the trimming of shrubs and vines, overhanging limbs, replacement of flammable plants with less flammable varieties and remove vegetation around chimneys.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	+	+
Action Step #2: Reduce structural ignitability by cleaning flammable vegetative materials from roofs and gutters, store firewood appropriately, install skirting around raised structures, store water hoses for easy access and replace pine straw and mulch around plantings with less flammable andscaping materials around all governmental structures and recommend same to homeowners and community stakeholders.																			N/A	N/A	N/A	N/A	N/A
Action Step #3: Hold Community Spring Clean Up Day on the 3rd Saturday in May and cut, prune and mow vegetation in shared community																							19/17
shared community spaces. Action Step #4: Insure Driveway Access/Right-Of-Way Clearance by maintaining vertical and horizontal clearance for emergency equipment and seeing that adequate engths and weight bearing capacity of culverts are installed	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

Action Step #5: Insure Road Access by identifying needed																							
road improvements and as roads are upgraded, widen to minimum standards with at least 50 foot diameter cul-de-sacs																							
or turn arounds.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A
Action Step #6: Examine existing codes and ordinances and amend and enforce existing building codes as they relate to skirting, propane tank locations, public nuisances (trash/debris on property), property address marking standards and other relevant concerns; Review subdivision and development ordinances for public safety concerns; Enact and enforce uniform addressing ordinance; Ensure and enforce offset clearances for																							
structures from woodlands and	+	+		+		+	+		+			+	+	+		+		+					N/A
undeveloped areas. Action Step #7: Pass Resolutions to State of Georgia that recommend GA Forestry Commission not charge for prescribed burning in WUI areas.		÷	+	+	+	+	÷	+	+	+	+	+	+	+	+	+	+	+		N/A	N/A	N/A N/A	N/A
Action Step #8: On adjacent WUI Lands, reduce hazardous fuels by encouraging prescribed burning for private landowners and industrial timberlands particularly adjacent to residential areas; Seek grant for WUI Mitigation Team.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A
Action Step #9: Encourage railroads to better maintain their ROW eliminating brush and grass through herbicide and mowing. Maintain firebreaks along ROW adjacent to																							

Action Step #10: Improve existing fire lines by reducing hazardous fuels through the cleaning and re-harrowing of existing lines	+	+	+	+	+	+	+	÷	+	+	÷	+	+	+	÷	+	+	+	+	N/A	N/A	N/A	N/A
Action Step #11: Insure access to water sources and dry hydrants by inspecting, maintaining and improving access to existing dry hydrants, adding signage along roads to mark the																							
hydrants and locating additional dry hydrants as needed.	+	+	+	+	+	+	+	+	+	+	+	÷	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #12: Insure all fire stations and firefighters are equipped with wildland hand tools & lightweight PPE gear and investigate need for brush trucks.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #13: Investigate need for additional drafting pumps and apply for grants, if necessary.	+	+	+	+	+	+	+	+	+	+	+	+	÷	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #14: Insure that all personnel are trained in Wildfire Suppression.	+	+	+	+	+	+	÷	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #15: Conduct "Fire Adapted Communities" Workshop for Charlton County residents.	+	+	+	÷	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #16: Conduct "Fire Adapted Communities" Workshop for Charlton County community leaders,	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #17: Develop and distribute Fire Adapted Communities informational packets to code enforcement, realtors & insurance agents.	+	+	+	+	+	÷	+	+	+	+	+	+	÷	÷	+	+	÷	+	N/A	N/A	N/A	N/A	N/A

Action Step #18: Create and Exhibit a Wildfire Protection Display for the general public at the local events. The display can be independent or combined with the GA Forestry Commission display.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #19: Invite Folkston & Waycross news media to community 'Fire Adapted Communities'' functions for news coverage and regularly submit press releases documenting wildfire risk improvements in Charlton County.	+	+	+	+	+	+	+	+	+	+	+	+	+	÷	+	+	÷	÷		N/A	N/A	N/A	N/A
Action Step #20: Create a Charlton County WUI Fire Council to review progress towards mitigation goals, appoint & delegate special activities, work with Federal, State and Local officials to assess progress and develop future goals & action plans and work with residents to implement projects and Fire Adapted Communities activities.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #21: Work to implement he Ready, Set, Go! (RSG) Program and aducate the public on ts merits.		+		+	+				+		+								N/A	N/A	N/A	N/A	N/A

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Goal: Mitigation Goal #1 – Prevent or reduce damage caused by Wildfire in Charlton County, the City of Folkston and the City of Homeland.

Objective: Objective #4: Obtain Fire Adapted Communities status for St. George and Georgia Bend (both new Firewise Communities), and other areas, by starting work on multi-agency, multi-county and multi-state (GA & FL) wildfire mitigation projects to address Wildfire risks.

STAPLEE Criteria		S (Social)		T (Technical)			A minist	P (Political)			1	L (Lega	()	E (Economic)				E (Environmental)					
Considerations → for Alternative Actions ↓	Community Acceptance	gment	Technical Feasibility		Secondary Impacts		Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Action Step #1: Maintain good public relations between the citizens of Charlton County and the City of Folkston, the City of Homeland and the surrounding Georgia counties of Brantley, Camden, Clinch and Ware & the Florida counties of Baker, Columbia & Nassau.	+	+	÷	+	+	÷	*	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #2: Coordinate work with all adjoining counties, planning increased levels of awareness and resources during peak wildfire hazard conditions through the use of education sessions, community meetings, citizen academies, etc.	+	+	+	+	+	+	÷	÷	÷	÷	+	+	÷	÷	+	+	÷	÷	N/A	N/A	N/A	N/A	N/A
Action Step #3: Participate annually in National Community Wildfire Preparedness Day.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

Alternative Actions	Comments

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.

Goal: Mitigation Goal #1 – Prevent or reduce damage caused by Tornadoes in Charlton County, the City of Folkston and the City of Homeland.

**Objective:** Objective #1 - Minimize losses to existing and future structures, especially Critical Facilities and Infrastructure, due to Tornadoes.

STAPLEE Criteria Considerations → for Alternative Actions ↓		S ocial)		T		A (Administrative)			10	P	and the		L			15.	E		E (Environmental)				
	Community Acceptance	Inent	_		Secondary		Funding Allocated	Maintenance / Derations	Political Support	Local Champion	Public Support	State Authority	Existing Local T		Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT //Waste Sites	Consistent with Community Environmental Goals	Consistent With Fadaral Laws
Use building inspection program to inspect for adequate tie-downs on manufactured housing in Charlton County and the City of Folkston and the City of Homeland.	+	+	+	+	+	+	+	+	+	+	+	÷	+	+	÷	+	+	+	N/A	N/A	N/A	N/A	N/A
Plan for pre-disaster mitigation in Tornado & other hazard seasons by preparing public service annouricements, brochures and solicit business participation in distributing information	+	+	+	+	+	÷	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Promote safe shelter rooms in areas of Charlton County and the City of Folkston and the City of Homeland where Tornadoes and other disasters frequent.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	+	÷	+	N/A	N/A	N/A	N/A	N/A
Develop grid pattern/address based system to physically notify and check on high risk residents both before and after natural disaster events in the City of Folkston, the City of Homeland and in populated areas of Charlton County.	+	+	÷	+	+	+	÷	+	+	+	+	+	+	÷	+	+	+	+		N/A	N/A		N/A
Apply for Response & Recovery Grant and secure funding for an automated hazardous weather alert system in Charlton County, the City of Folkston and the City of Homeland,	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
GPS 3 mile radius around Okefenokee Swamp	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

Alternative Actions	Comments

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.

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Goal: Mitigation Goal #1 – Prevent or reduce damage caused by Thunderstorms & Wind in Charlton County, the City of Folkston and the City of Homeland.

**Objective:** Objective #1 - Minimize losses to existing and future structures, especially Critical Facilities and Infrastructure, due to Thunderstorms & Wind.

STAPLEE Criteria		S ocial)	(Te	T chnie	cal)	(Adr	A ninist	rative)	(P	Politic	al)		L (Lega	l)		(Eco	E nomia	1		(E		mental)	
Considerations → for Alternative Actions ↓		ment			Secondary Impacts		Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	1	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action		Contract of	Effect on Land / Water	1	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Increase public awareness of weather radio distribution, shelters, emergency procedures and the use of a local radio station as the emergency broadcast system station in Charlton County and in the Cities of Folkston and Homeland through public safety announcements, publications and other means.	t	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		N/A	N/A	N/A	N/A
If possible, design new educational facilities to the level that they could be used as public shelters for emergency purposes and test current shelters and educational facilities for safety and effectiveness in Chartton County and the Citles of Folkston and Homeland.	+	÷	+	+	+	÷	÷	+	+	+	+	+	÷	+	+	+	+	÷	N/A	N/A	N/A	N/A	N/A
Determine wind ratings and plan to wind retrofit Critical Facilities, in Charlton County and in the Cities of Folkston and Homeland as funds become available to do so.		+	÷	+	+	+	+	+	÷	+	+	+	+	÷	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Disseminate information to the public concerning wind ratings and champion new construction being built to those minimum wind standards, and champion the wind retrofitting of existing buildings, in Chartton County and the Cities of Folkston and Homeland.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

Enforce existing dangerous building ordinances to prevent or reduce the amount of loose materials blowing around and causing damage in Charlton County and the Cities of Folkston and Homeland.		+	+	+	+	÷	+	÷	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
--	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-----	-----	-----	-----	-----

Alternative	Comments
Actions	
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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.

Goal: Mitigation Goal #1 – Prevent or reduce damage caused by Severe Winter Storms in Charlton County, the City of Folkston and the City of Homeland.

**Objective:** Objective #1 - Minimize losses to existing and future structures, especially Critical Facilities and Infrastructure, due to Severe Winter Storms.

STAPLEE Criteria		S cial)	(Ter	T	al)	(Adr	A ninist	rative)	(P	P olitic	all		L (Lega	in		(Eco	E	1	11	(E	E	mental)	
$\begin{array}{l} \text{Considerations} \rightarrow \\ \text{for} \\ \text{Alternative Actions} \\ 1 \end{array}$	Community Acceptance	Effect on Segment of Population		Long-term Solution			Funding Allocated	Maintenanca / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Cornsistent with Community Environmental Goals	Consistent With Factors Laws
Continue the policy of wrapping exposed piping with insulation and installing new insulation layers at Critical Facilities in Chariton County and the City of Folkston and the City of Homeland.		+	÷	+	+	+	+	+	ŧ	+	÷	+	+	+	+	+	+	+		N/A	N/A	N/A	N/A
Maintain temperatures above 32 degrees to prevent freezing in government owned occupied and unoccupied structures in Charlton County and the City of Folkston and the City of Homeland.	÷	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Disseminate information to the public concerning Severe Winter Storms, champion new construction being built to appropriate low temperature ratings and existing buildings being retrofitted in Chartton County and in the City of Folkston and the City of Homeland.		÷	+	+	+	+	÷	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

Alternative Actions	Comments
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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.

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Goal: Mitigation Goal #1 – Prevent or reduce damage caused by Hail in Charlton County, the City of Folkston and the City of Homeland.

**Objective:** Objective #1 - Minimize losses to existing and future structures, especially Critical Facilities and Infrastructure, due to Hail.

STAPLEE Criteria		S cial)	ITe	T	all	(Adu	A	rative)	(P	Politic	all	4	L (Lega	u)		(Eco	E	1		(E)	E	mental)	
Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility				Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	-	Consistent With Federal Laws
Install storm windows and/or ballistic film on new and existing Critical Facilities and promote their installation on new and existing private buildings in Charton County and the City of Folkston and the City of Homeland.	+	÷	+	÷	+	+	*	+	+	+	+	+	+	+	÷	÷	÷	+	N/A	N/A	N/A	N/A	N/A
Encourage public to include hail damage under insurance coverage and store equipment & vehicles under shelters in Charton County and the Cities of Folkston and Homeland.																			N/A	N/A	N/A	N/A	N/A

Comments

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.

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Goal: Mitigation Goal #1 – Prevent or reduce damage caused by Drought in Charlton County, the City of Folkston and the City of Homeland.

**Objective:** Objective #1 - Minimize losses to existing and future structures, especially Critical Facilities and Infrastructure, due to Drought.

STAPLEE Criteria		S cial)	(Ter	T	cal)	(Adr	A	rative)	(P	P	al)	1	L (Lega	il)			E	c)		(E	Environ	mental)	
Considerations → for Alternative Actions	Community Acceptance	Effect on Segment of Population		Long-term Salution			Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Looal Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect an Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goats	Consistent With Federal Laws
Seek input from State and Federal agencies to enact procedures during Drought to limit water usage in Charlton County and the City of Folkston and the City of Homeland		+	+	+	+	+	+	*	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Replace antiquated water & sewer lines and equipment prone to failure in the City of Folkston and the City of Homeland through CDBG grant funds and other funds when available.	+	+	+	+	+	+	+	+	+	+	+	÷	÷	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Work with the County Extension Agent to distribute literature related to best management practices in Charlton County and the City of Folkston and the City of Homeland.	+	+	+	+	+	+	÷	+	÷	+	+	+	÷	+	÷	+	÷	+ .	N/A	N/A	N/A	N/A	N/A
Promote increased usage of surface water and surface artesian flow for irrigation instead of well systems in Charton County and the City of Folkston and the City of Homeland.	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	N/A		N/A	N/A	N/A

Comments

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.

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Goal: Mitigation Goal #1 – Prevent or reduce damage caused by Lightning in Charlton County, the City of Folkston and the City of Homeland.

**Objective:** Objective #1 - Minimize losses to existing and future structures, especially Critical Facilities and Infrastructure, due to Lightning.

STAPLEE Criteria	and the second sec	S cial)	(Ter	T	cal)	(Ad	A ninist	rative)	(P	P	al)		L (Lega	(1)		(Eco	E	c)	-	(E	Environ	mental)	
Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites.	Consistent with Community Environmental Goals	Consistent With Federal Laws
Provide every public outdoor recreation facility and every public school outdoor recreation facility with automatic warning device, if feasible.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Educate the public on the risks of Lightning	+	+	+	+	+	+	+	+	+	÷	+	+	+	+	÷	+	+	+	N/A	N/A	N/A	N/A	N/A

Alternative Actions	Comments
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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.

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Goal: Mitigation Goal #1 – Ensure the citizens of Charlton County, the City of Folkston and the City of Homeland are warned about the dangers of Extreme Heat.

**Objective: Objective #1 - Educate area citizens about the dangers of Extreme Heat events.** 

STAPLEE Criteria	1000	S clal)	(Te	T chnica	0 0	Admi	A	ative)	(P	Politic	al)		L (Lega	al)		(Ecc	E	c)		(E	Environ	mental)	
Considerations → for Alternative Actions	Community Acceptance	Effect on Segment of Population		Long-term Solution		Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With
Provide community education materials	+	+	+	+ +	+	+		+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

Alternative Actions	Comments	

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Goal: Mitigation Goal #1 – Protect the population of Charlton County from the effects of Public Health Emergencies.

Objective: Objective #1 – Prepare ways to reduce public exposure to potential or active Public Health Emergencies.

STAPLEE Criteria	1.0000	S cial)	(Te	T	cal)	(Adı	A ninist	rative)	(P	P	cal)		L (Lega	il)	T	(Ecc	E	=)		(E		imental)	
Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-lerm Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Action Step #1: Increase immunization education, prevention and pre-planning efforts, particularly for the homeless and low income individuals in the community, and host flu shot and other immunization clinics.	+	+	+	+	+	+	+	÷	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #2: Identify vulnerable populations (homeless, migrants, low income, etc.) and identify community groups to work with in order to reach and educate these populations regarding health issues.	+	+	+	÷	+	÷	+	+	+	÷	+	+	+	+	÷	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #3: Develop plan to identify community locations to obtain and distribute medical countermeasures, safe drinking water, food, ice, tarps, etc.	+	+	+	+	+	+	+	+	+	+	+	+	÷	+	+	+	÷	+	N/A	N/A	N/A	N/A	N/A
Action Step #4: Aproach large businesses about working witht eh EMA on developing public health emergency plans.																							

Alternative Actions	Comments

- AppendixE Copies of Required Planning DocumentationI.Public Notices (notice for 2<sup>nd</sup> public hearing is pending)II.Sign-In Sheets

  - III. Adoption Resolutions (pending adoption)

I. Public Notices

# **Public Notices Continued**

according to the said plat contains 0.5203 acre; and all of Lot 18 which accord-ing to the said plat contains 0.5203. Reference is mode to the aforessid plat for de-(Continued from Page 10) NOTICE OF SALE UN-

DER POWER, CHARLTON COUNTY Pursuant to the Power of Sale contained in a Security Deed given by Joel J. Kern

and C

ription purposes The debt secured by said Detti given to yote J. Kerni and Ciara R. Kerni to Mori-agae Electronic Registration Systems, Luc. as nomineer for Sidus Financial LLC dail-ed 122/12/000 and recorded in Deed Book 149 Page 642 Challan Coundy, Georgia records: as last transferred to or acquired by BANK OF AMERICA, N.A., conveying the after-described puperty to excure a Note in the org-inal principal amount of \$ 132,500 00, with interest at the rate specified durrein, there will be sold by the un-dersigned at public autory to ara R. Kern to Mort-Security Deed has be is hereby declared due be-cause of, among other possi-ble events of default, failure to pay the indebtedness as and when due and in the manner provided in the Note and Security Dead The debt remaining in default, this sale will be made for the purpose of paying the same and all expenses of this sale, as provided in the Security Deed and by law, including atterney's fees (notice of text to collect attorney's fees hwing been given) is hereby declared due betent to collect attorney's fees having been given) Said property is common-ly known as 87 Bird Lanc, , Folkston, GA 31537 togethdersigned at public outcry to the highest bidder for each outerv to before the Courthouse door of Charlton County, Geor-

Pollston, GA 31537 togeth-er with all fatures and per-sonal property attached to and constituting a part of said property, if any To the best knowledge and belief of the subject property is (are). Juel Jackson Kern and Cia-rai R. Kern er tenant er ten-ants Bank of America is the entity or individual des-ignated who shall have full authority to aegotiac, samend and modify all terms of the morigage of Charlon County, Geor-gia for such other area as designated by Order of the Superior Court of said county is an experiment of the super-ormal of the said such as and much unless said date fails on a Federal Holiday, in which case being the first Wednesday of said month, the following described property: property: All that tract or parcel of land lying and being in the 32nd G M District of Charl-

ton County, Georgia, more particularly described with reference to that certain plat by Mr Sidney L Gow-

of the mortgage Bank of America Home Loun Assistance Depl 7105 Curporate Drive

7105 Curporate Drive Pluno, TX 75024 (800) 846-2222 Note, howeves, that such entity or individual is not required by law to negotiate, umend or mudify the terms

uckers The key to keeping what

n and

of the Joan Suid property will be sold subject to: (a) any out-standing ad valorem traces (including laws which ure a lien, but not yet due and payable), (b) umpaid water or sewage bills that constitute a lien against the property whether due and payable or out yet due and payable and Whether due and payable or not yet due and payable and which may not be of record, (c) the right of redemption of any taxing authority, (d) any matters which might of any taxing authority, (d) any matters which might be disclosed by an accurate survey and inspection of the property, and (e) any assessments, liens, exclum-brances, zoning ordinances, restrictions, covenania, and matters of record superior to the Security Deed first set out above: L.

out above. The all will be can-ducted subject to (1) confir-mation that the sale is not prohibited under the US Bankruptcy Code; and (2) final confirmation and sudi; of the status of the loan with of the status of the losm with the bolder of the Security Deed Pursuant to O.C.G.A. Section 9-13-1721, which allows for certain proce-dures regarding lhe rescis-sion of judicial and bon-ju-dicial sales in the State of Georgia, the Deed Under Power and other foreclosure documents may not be pro-Power and other foreclosure documents may not be pro-vided until final confirma-

### **News Briefs**

### Bento boxes offer kids a fun way to try new foods

sized pieces of vegetables and fruit, pieces of meat or tea-sized sandwiches and By MERRITT MELANCON, UNIVERSITY OF GEORGIA

en, County Surveyor, dated January 31, 1985, which has

been recorded with the land records of the Clerk for the

Charlton County Superior Court in Folkston, Georgia

Court in Folkston, Georgis in Plat Book C, page 155; being all of Lot 17 which

For generations of slu-dents, the sandwich has been the center of the sack lunch universe But today some parents are borrowing lunch ideas from other cul-tures in an effort to boast variety in their children's dieta. Bento boase, which, until recently, were used orimany croc

Bento boxes, which, until recently, were used primar-ily hy Japanese schoolchil-dren, have become increas-ingly popular in the United States What separates a bento

them less intimidating '

AIRLINE

CAREERS

START HERE

The key to keeping what is basically a collection of sancke healthy is the ra-tion the bases should have four parts healthy carbo-ludrates, like whole wheat crackers er melded braving part fruits, like slited ap-ples; and one part vegeta-bles, like carrot sticks The US Department of Agriculture's Choose-MyPlate gov website has a detailed background on recommended partion sizes box from a traditional lunch box is a series of compari-ments that hold separate servings of prolein, rice, vegetables or fruit recommended portion sizes for kids of all ages and has

vegetables or fruit Bento lunches are also known for being cute The internet is full of bento phosome great suggestions for new lunch box favorites Unless the lunch box can be kept cool in a refrigera-tor or with an ice pack, it's important to pack food that will be safe to eat at room tos featuring rice mounds painstakingly pressed into the shape of dolphins, and flowers made out of ham

flowers rande out of ham slices. Will that effort entire children to try new thing? Passibly, said University of Georgia Cooparative Exten-sion health and nutrition specialist Alison Berg But she adds that you don't have to make every lunch an aris and crafts project to give bento boxes a try. temperature One of the key concepts

project to give any a try. "I think it's a good option in terms of exposing kids to a larger variety in a way that is developmentally ap-proprinte," soid Berg, who is also an assistant professor of foods and nutrition in the Data Colume of Family and

temperature. One of the key concepts that parents need to remem-her when introducing new faods into a child's lunch box — like swapping those carrot sticks for cavilidower florets — is to keep sformig them and to keep some old standbys in there. A bento box full of new foods might read! not need to be a set of the foring one or two new items a day will eventually bread-unchildren's palates. "Kids might need 20 to 30 separate foods in a way that's fun and easy for them, like finger foods in a bento box, might help speed up the process, and that's good for kids and their parents." of foods and nutrition in the UGA College of Family and Consumer Sciences "Finger foods are great for that because kids find for kids and their pa Bento box lunches usual-ly contain portions of bite-Beig said

AM

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tion and audit of the status of the Joan as provided im-mediately above. BANK OF AMERICA, N.A. as ugent and Attorney in Fact for Joel J. Kern and Charle J. Kern and

Ciara R Kern Aldridge Pite, LLP (for-merly known as Aldridge Connurs, LLP), 15 Piedmont Center, 3575 Piedmont Road, N.E., Suite 500, Atlanta, Georgia 30305, (404)

lanta, Georgia 30305, (404) 994-7400 1016-667501451A THIS LAW FIRM MAY BE ACTING AS A DEBT COLLECTOR ATTEMPT-ING TO COLLECT A DEBT ANY INFORMATION OB-TAINED WILL BE USED FOR THAT FURPOSE. 1016-667501461A B88 705-720 888 7/6-7/27 IN THE SUPERIOR IN THE SUPERIOR COURT OF CHARLTON COUNTY STATE OF GEORGIA

NOTICE OF PETITION NOTICE OF PETITION TO CHANCE NAME IN RE: EVELYN WYLINE STORY, Civil Ac-tion File No 16 V-089, AN ADULT Notice is hereby given that EVELYN WYLINE STORY, the undersigned, filed a Petition in the Supe-rior Court of Charlton Court-ty, Genrafia, on the 28th day of June, 2016, praying for 1

farmed

plexed

Marine Corps League

Marine Corps League searching for velerans. The Mirin Corps League (MCL) is still seeking infor-mation about returning ver-erans from any branch of ser-vice, either from deployment or discharge. The league would like its hower them and let them how what the local commu-nities support their service. If you have a relative or forw of a returning member of the armed services, coutact the Marine Corps League De-tachment 1333 as they can coordinate a" Welcome Home Veteran" observance in accor-dance with the wides of the veterans and their families. Several hostinasses are auporting this effort, and read as much afrance infor-

mation as possible Call Commandant Paul Guyer at (912) 449-2370 or Sr Vice-Commandant Mer-rill Tindall at (912) 614-4374 with the serviceman's expect-ed date of return, expected duration of stay, and any oth-er pertinent information. Returning servicemen and

Recurring servicement and their families are also invited to attend the Marine Corps Lengue Detachment 1333 Family Day activities

Regular monthly meetings are held on the third Thursday each month at Captain Joe's, located at 2010 Plant Avenue, Waycross, at 6 pm and will resume on July 21.

### Charlion Extension is looking for farmers

No matter whether you farm a small backyard garden or a 500 acre spread, we would like to hear from you The office would like to recognize all the people who produce or have produced

vegetables, livestock of any type, timber or timber by products, animal feed or any other agricultural commodi

ly in our county You may call the office at 496-2040 or drop by 55 Kingsland Dr. and give us your name, what you grow and how long you have

be the diversity of crops pro duced in Charlton County. main project work sharing/ helping and leadership ac-

duced in Charlton County. "Does anyone still pro-duce turpentine in Charlton County?" was a question asked several weeks ago by u young lady preparing for the State Forestry Pageant. This one had all uf us per-nexed

4-H Project District

Extension This class is open to chil-dren of all ages, but will be geared for nine years old and above as we will be writing thank you notes Workshop is Aug. 3 Any nine year old-12 grade who is planning to at-Good manners help on to face the future with char tend DPA this year is urged to allend the 4-H District Project Achievement Workactor and integrity They are also ways you behave and treat others

op. It will be held August 3, 11:00 a m until 1:00 p m. Extension Office meeting room Lunch will be provid-

ed During this meeting you will be given info on what you will need to do to com-petch this year. Nine year olds through sixth graders will compete at Cloverleef DPA in No-vember an this is extremely important for you to select your project and hegin to work on it. You will be re-

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a change in the name of the Petitioner from "EVE-LNN MYLINE STORY' to EVELIN WILENE STORY' to EVELIN WILENE STO-RY-SWINDELLA" Notice is hereby given pursuant to law to any in-terasted or affected person to appear in said Court and file objections to such name change. Objections must be filed with asia to court within 30 days of the filing of asid Petition Petition This the 28th day of June,

1 Nis the 26th day of June, 2016 Wendy Whitaker, Clerk, Superior Court Watycross Judicial Circuit Mathew D. Vincel, Ga Bar No 342551 Ga Legal Services Pro-

Ga Legal Services Pro-gram® Brunswick Regional Office 1607 Union St Brunswick, Georgia 31520 Ph: (912) 264 7301 Fax: (912) 262 2312 mvincelfielden act

mvincel@glsp org 889 7/6-7/27 IN THE PROBATE

IN THE PROBATE COURT CHARLTON COUNTY, GEORGIA All creditors of the Es-tate of Wayne Morgan, de-ceased, late of Charlton County, Georgia, are hereby notified to render their de-

mands to the undersigned according to law, and all persons indebted to said es-tate are required to make immediate payment to the undersigned This 6th day of July 2016 Cheryl Raulerson, Executivs P O, Box 399

# Hilliard, FL 32046

James F. Thomas, Jr. Attorney at Law Post Office Box 98

Waycross, Georgia 31502-0098 891 7/13-8/3

NOTICE GEORGIA, CHARLTON COUNTY. All of the creditors of the estate of JEFF ALLEN BRANNON, decensed, late of Charlton County, Geor-gia, are hereby notified to render in their demands to the undersigned according (o luw and all persons inc to law, and all persons in-debted to said estate are required to make immediate payment to the undersigned This the 14th day of July, 2016 Nannette M. Brannon, Administrator do THOMAS & SETTLE, Altorneys PO Box 980/800 Plant

Ave Waycross, GA 31501

iquelle are based on prin-ciples of kindness and dhoughtuliness. Through good manners, we demo-atrate consideration of oth-ers. Manners are inportant at home, as well as when you are not at home. Social Paychologists tell us that it only takes a fow seconds for a person to form a first impression. We want, to make sure that the first impression of us is one of respect, kindness and pride. Therefore, it is always important to be propared and to know the correct pro-tocol for any situation

and to know the correct pro-tocol for any situation In this class you will be given instructions on meet-ing and greeting", dining out, dining cliquetto and how to write a thank you

Now to write a traine year note. Cost is \$5,00 on July 29, 11:00 a m -1:00 p m - Lunch will be provided Call the Extension Office at 496-2040 to regular.

Chamber of Commerce

gives dates The Okefenokee Pageant will be held Saturday, September 17

tember 17 The Okefenokee Festival will be held Saturdøy, Oc-tuber 8. Accepting applications now

BUILD 912-496-4797 Mendey-Fridey 7 AM - 5 FM Saturday 8 AM - 12 Nean

une

Manners or rules of el-

### PUBLIC HEARING

Charlton County Including the Cilies of Folkston and meland and All Unincorporated Areas Public Hearing for the Charlton County Hazard Mitigation Plan Update

The Charlion County Emergency Management Agency, In cooperation with the Southern Georgia Regional Commission (SGRC), invites the public to allend a Public Hearing to review the update regularements and prozess of the Charlion Coun-ty Hazard Miligation Plan outpdate. The plan update is being developed in accordance with the Ibaster Mitigaton Act of 2000, which requires local governments to have an approved Hazard Miligation Plan addressing nature Ibaster & Stagaton Act of 2000, which requires local governments to have an approved Hazard Automation of the stagaton and the stage of the Act of 2000, and the stage of the stage o

A Public Hearing/Open House will be held on July 26, 2016 at 1 pm al the Charlton County Commission Offices, 68 Kingsland Drive, Room 117, Folkston, GA 31537

Comments are being accepted by email at coderk@windstream net, by fax at 912-496-1156, or by mailing them to the Charlton County Commission, 68 Kingsland Drive, Suite B, Folkston, GA 31537

For more information please call Michael Jacobs, SGRC Senior Planner at 912-285-6097.



Charleon County Herald . Wednesday, July 20, 2016 . Page 11



farmed It will be interesting to see who the oldest and youngest farmers are. Also another interesting fact will

tivilies. Please call 496-2040 and register an we can prepare enough food for lunch

4-H Summer Program "Manners Worth Mil-lions" will be the last of the 4-H Summer Programs of-fered this year by Charlton Extension

Please respond and help make this a fun survey Thank you in advance for ralling in

II. Sign-In Sheets

	Charlt	Hazard Mitigation Meeting Date: 7/26/2016									
Name		Organization	Position	Phone	Email						
BRUCE YO	NUNG	CHARITON EMA	EMA DIRECTOR	912-496-1050	CHARLTONEMA & GMAJLEOM						
Show Boat	ryst	chillen Bac	County Administrator	912-390-0080	Sbootright @charlton county ge .gov						
	'	GEMHSA	Mitigation Playner		SLott Sherman Docura. 30 BOV						
Roga Toli	£	Georgic Forestit Comm	Chief Ranger		rtode gfc. state.go. us						
Terry Ja	ohnson	Char Har County F/R	Fireching	912-390-2753	charlton firechief amail. Oour						
EGRAD H.	Lloyd	City of Forkston	City Mgs.		forkstor 1 @ windstream. NET						
Aller Agen	4	SGAC									
/											

	Charlt	ton County	Hazard Mitigation Meeting Date: 8/9/2016									
Name		Organization	Position	Phone	Email							
Shawn Banting	1J	Adaiaistration	County Administrator	9/2 - 390 -0080	Sboatright @ Charlton County ga. gov							
Terry John	son	CCFR	Firechief Supervisor of	912-390-2753	chartton fire chief @ qmail,							
		Charlton County			V							
Brenda Hudi	ges	Commission	Elections	912-390-1786	bhodges@charltoncountyga.gov							
BRUCE YOUR	JG	CHARLTON EMA	EMA DIRECTOR	912.396-2022	CHARLETONY EMA COMMEL. COM							
Chris Me	hr	GFC	Ranger		cmehr@gle.state.us.gov							
-konard H. L	لحرحا		U		penderland e yonce. com							
NARTHA OBER	SDORF	er NASSAU EM	SR PLANNER	904 548 0900	MLWAGAMAN @NASSAUSO.COM							
Mik Ja	als	Sare										

	Charlt	on County	Hazard Mit	tigation Meet	ing Date: 8/30/2016
Name		Organization	Position	Phone	Email
TERRY JENKIN	'S	US FUS CKelender NU	Flee MGT Specialist	912.313.4225	terri-jenkins@fws.gov
BRICE YOUNE		CHARITE	EMA DIRECTOR	912-496-1040	CHARITONEMA & GMAIL. COM
Brenda Hoc	lars	Char Hon County	Supervisor of Ekchins	912-3910-	bhodges @ charlton countyga .c
~	0	chaulton Cu.	Doal Sup	617-528-09pm	char Honmade gmail con
Enin Ki	_	Charton Co	Public Works	Cord. 912-440 4321	9-
BLAIR N	ixed	Lity of Homelan	PW Sup	496-1332	city of home land pychoo. com
Shewa Boatri	3LD	Charlton County	Campy Administrator	912-396-0080	Sboatright Ocher Hancountyge, gov
Darlene Wi	llianson	City of Folkston	City Clerk	912-496-2563	dwilliamson@ eity of folkston-gag
OuitAJ	ohnsin	Homeland	Mayor	912 496 7332	Homel And City Q. Com
Joseph K Mike JA	-	Homeland 4410	Counkilman	720 854 4968	IKT628 @ 9MA: 1. Com

9/27/16

Mike pools

Terry Johnson Terri Jenkins

BRUCE Young Darlene Williamson

BLAIR NIXON Shawn Boatright PEndere LloxD Ourida Jahma

5610

CCFR

USFWS

CHARLTON ENAA City of Folkston City of Floridand

Charlton County City of Forkston Nomband

MVjACODS & SGrc. US Johnson. H. Dott. Net

terri-jenkins@fus.gov byouncechartoncounty GA.GOU dwilliamsm@cityoffolkston-ga.gou

cityofhomiland @ yahoo, com

sboatright @ charlfon Countyge.gov

penderlland & yahra.com City Houles @ yehro . Com

912. 3856091 912-390-2753

912-496 · 7366x23; 912 - 496 - 1080 912 - 496-2563

912-276-1340

912-390-0080

912-496-2563

	Charlt	Hazard Mitigation Meeting ton County Date: 1/31/2017									
Name		Organization	Position	Phone	Email						
BRUCE YO	ounle	CHARLETON CO EMA	EINA DIRECTOR	92-350-2022	BYOUND CONNTON COUNTY GA. GOV						
OuidaJ	Johnson	Hemdrand Cra	MAYOF	912-496-7332	Hondond City Hall QYARIO. Com						
BLAIR N	VIXON	City of Homeland	PW Super		Rity of Home and sychoo. com						
Enn?	King	(RD Dept) Charlton COBO			eking@charltmcaintyga.ga						
Shain Bray	dight	Charlton County	County Alexinistation	- 912-382-0080	sboatright Charlton comby ge. 964						
Ender C	, ,	Folkston	City Mge.	912-717-0320	0 000						
Brendat	todges	Charllon County	Supervisor of Electricus	912-390-1786	bhodges@chariton countyga.gov						
C.L. Lewis	5	Charlton County	Five Chief		charlton deputy fire chief @ gma						
		j.									

0	Charlt	on County	Hazard Mi	Mitigation Meeting Date: 2/28/2017							
Name		<b>Organization</b>	Position	Phone	Email						
Shown Boabrigh	F	Charlton Kondy	Administrator	912-496-2849	Sboatright Ocher Honcounty ga. go						
BLALE NIXON	J	CITY OF HOMELAND	PW Supervisin	912-446-7332	cty of homeland a yabor. com						
C.L. Lewis		Charlton County Fire Ros	we chief	912-390-9688	Clewis & charlton downty gas Gol						
Ouida John	H 50 ฟ	City of Homeland	MAYOF	912-496 7332	City of Homband Quehas. Es m						
I undere Llog	I a	lity of Farkson	Lity Manager	912-496-2563							
BRUCE YOLE	N6- (	CHOMITON EMA	DEREZION	912-3902002							

Hazard Mitigation Plan Update – Final Public Hearing Date: August 28, 2018									
Name	Organization	Title	Email						
Hampton Raulerson	Charlton County BOC	County Admin,	hran erson Char Honcountyga, e						
BRUCE YOUNG	CHARLTON COUNTY	EMA DIRECTOR	WYDUNG PCHARITONCOUNTY GA. GOU						
Roger Todd	Georgia Foresty Commission	Chief Ranger	rtoddegfc. State.ge. US						
Brenda Hodges	Chariton County	Supervisor of Election	s bhodges @ chariton countyga,a						
C.L. Lewis	Charlton County	Fire Chief	clewis @charltoncounty gg.g.						
Duida Johnson	Homeland	Mayor	Here Eity of Homeland Quahoo.						
Artel Godwin	SERC	Planner	agodivin @sgrc. vs						
	-								

III. Adoption Resolutions

## A RESOLUTION OF THE CHARLTON COUNTY BOARD OF COMMISSIONERS PURSUANT TO THE DISASTER MITIGATION ACT OF 2000 AUTHORIZING ADOPTION OF THE CHARLTON COUNTY HAZARD MITIGATION PLAN

WHEREAS, Charlton County and its municipal governments 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, Charlton 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 CHARLTON COUNTY COMMISSION FORMALLY ADOPTS THIS UPDATED HAZARD MITIGATION PLAN.

RESOLVED THIS 4th DAY OF \_\_\_\_, 2018

Signed: Chairman James Everett Charlton County Commission Chairman

MI IIII

Attest: Jennifer Nobles Charlton County County Clerk

(County Seal)

## A RESOLUTION OF THE FOLKSTON CITY COUNCIL PURSUANT TO THE DISASTER MITIGATION ACT OF 2000 AUTHORIZING ADOPTION OF THE CHARLTON COUNTY HAZARD MITIGATION PLAN

WHEREAS, Charlton County and its municipal governments 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, Charlton 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 FOLKSTON CITY COUNCIL FORMALLY ADOPTS THIS UPDATED HAZARD MITIGATION PLAN.

RESOLVED THIS 17 DAY OF 69, 2018

Signed: Honorable Lee Gowen City of Folkston Mayor

Attest: Darlene Williamson City of Folkston City Clerk



## A RESOLUTION OF THE HOMELAND CITY COUNCIL PURSUANT TO THE DISASTER MITIGATION ACT OF 2000 AUTHORIZING ADOPTION OF THE CHARLTON COUNTY HAZARD MITIGATION PLAN

WHEREAS, Charlton County and its municipal governments 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, Charlton 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 HOMELAND CITY COUNCIL FORMALLY ADOPTS THIS UPDATED HAZARD MITIGATION PLAN.

RESOLVED THIS 18 DAY OF (ct., 2018

ucla

Signed: Honorable Ouida Johnson City of Homeland Mayor

Attest: Bernice Pascal City of Homeland City Clerk

(City Seal)

Search Results for Charlton County, Georgia

Event Types: Hurricane (Typhoon), Tropical Storm

Charlton county contains the following zones:

'Charlton'

6 events were reported between 01/01/1950 and 12/31/2017 (24837 days)

#### Summary Info:

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:	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.

							Sort	By:	Date	e/Time (C	ldest) ▼
Location	County/Zone	<u>St.</u>	Date	<u>Time</u>	<u>T.Z.</u>	<u>Type</u>	<u>Mag</u>	<u>Dth</u>	<u>Inj</u>	<u>PrD</u>	<u>CrD</u>
Totals:								0	0	0.00K	0.00K
CHARLTON (ZONE)	CHARLTON (ZONE)	GA	09/05/2004	00:01	EST	Tropical Storm		0	0	0.00K	0.00K
CHARLTON (ZONE)	CHARLTON (ZONE)	GA	09/25/2004	12:00	EST	Tropical Storm		0	0	0.00K	0.00K
CHARLTON (ZONE)	CHARLTON (ZONE)	GA	06/01/2007	16:38	EST-5	Tropical Storm		0	0	0.00K	0.00K
CHARLTON (ZONE)	CHARLTON (ZONE)	GA	09/01/2016	07:00	EST-5	Tropical Storm		0	0	0.00K	0.00K
CHARLTON (ZONE)	CHARLTON (ZONE)	GA	10/06/2016	07:00	EST-5	Tropical Storm		0	0	0.00K	0.00K
CHARLTON (ZONE)	CHARLTON (ZONE)	GA	09/10/2017	11:00	EST-5	Tropical Storm		0	0	0.00K	0.00K
Totals:								0	0	0.00K	0.00K

Search Results for Charlton County, Georgia

Event Types: Flash Flood, Flood, Heavy Rain

Charlton county contains the following zones:

'Charlton'

19 events were reported between 01/01/1950 and 12/31/2017 (24837 days)

Summary Info:

Number of County/Zone areas affected:	2
Number of Days with Event:	15
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:	3

Column Definitions:

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

#### Click on Location below to display details.

							S	ort B	y:[	Date/Time (C	Oldest) 🔻
Location	County/Zone	<u>St.</u>	<u>Date</u>	<u>Time</u>	<u>T.Z.</u>	<u>Type</u>	<u>Mag</u>	<u>Dth</u>	<u>lnj</u>	<u>PrD</u>	<u>CrD</u>
Totals:								0	0	225.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	09/30/1996	09:55	EST	Flash Flood		0	0	15.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	10/07/1996	12:30	EST	Flash Flood		0	0	160.00K	0.00K
CHARLTON (ZONE)	CHARLTON (ZONE)	GA	03/01/1998	00:01	EST	Flood		0	0	25.00K	0.00K
COUNTYWIDE	CHARLTON CO.	GA	09/29/1998	23:00	EST	Flash Flood		0	0	10.00K	0.00K
NORTH PORTION	CHARLTON CO.	GA	10/04/1998	16:15	EST	Flash Flood		0	0	15.00K	0.00K
CHARLTON (ZONE)	CHARLTON (ZONE)	GA	09/09/2004	11:00	EST	Flood		0	0	0.00K	0.00K
CHARLTON (ZONE)	CHARLTON (ZONE)	GA	09/09/2004	11:00	EST	Flood		0	0	0.00K	0.00K
CHARLTON (ZONE)	CHARLTON (ZONE)	GA	09/10/2004	15:13	EST	Flood		0	0	0.00K	0.00K
CHARLTON (ZONE)	CHARLTON (ZONE)	GA	06/25/2005	12:55	EST	Flood		0	0	0.00K	0.00K
CHARLTON (ZONE)	CHARLTON (ZONE)	GA	06/25/2005	13:00	EST	Flood		0	0	0.00K	0.00K
CHARLTON (ZONE)	CHARLTON (ZONE)	GA	06/25/2005	13:00	EST	Flood		0	0	0.00K	0.00K
CHARLTON (ZONE)	CHARLTON (ZONE)	GA	06/25/2005	16:45	EST	Flood		0	0	0.00K	0.00K
CHARLTON (ZONE)	CHARLTON (ZONE)	GA	07/02/2005	13:40	EST	Flood		0	0	0.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	03/31/2009	20:07	EST-5	Heavy Rain		0	0	0.00K	0.00K
HOMELAND	CHARLTON CO.	GA	06/26/2010	16:55	EST-5	Heavy Rain		0	0	0.00K	0.00K
HOMELAND	CHARLTON CO.	GA	05/29/2012	23:21	EST-5	Heavy Rain		0	0	0.00K	0.00K
PAXTON	CHARLTON CO.	GA	06/25/2012	07:47	EST-5	Heavy Rain		0	0	0.00K	0.00K
TRADERS HILL	CHARLTON CO.	GA	08/04/2015	13:00	EST-5	Heavy Rain		0	0	0.00K	0.00K
RACEPOND	CHARLTON CO.	GA	06/11/2017	23:00	EST-5	Heavy Rain		0	0	0.00K	0.00K
Totals:								0	0	225.00K	0.00K

Search Results for Charlton County, Georgia

#### Event Types: Wildfire

Charlton county contains the following zones:

'Charlton'

4 events were reported between 01/01/1950 and 12/31/2017 (24837 days)

#### Summary Info:

Number of County/Zone areas affected:	2
Number of Days with Event:	4
Number of Days with Event and Death:	0
Number of Days with Event and Death or Injury:	0
Number of Days with Event and Property Damage:	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.

							So	rt By:	Da	te/Time (	Oldest) 🔻
Location	County/Zone	<u>St.</u>	Date	Time	<u>T.Z.</u>	<u>Type</u>	<u>Mag</u>	<u>Dth</u>	<u>lnj</u>	<u>PrD</u>	<u>CrD</u>
Totals:								0	0	0.00K	0.00K
COUNTYWIDE	CHARLTON CO.	GA	05/30/1999	16:00	EST	Wildfire		0	0	0.00K	0.00K
ST GEORGE	CHARLTON CO.	GA	07/11/2000	19:00	EST	Wildfire		0	0	0.00K	0.00K
CHARLTON (ZONE)	CHARLTON (ZONE)	GA	05/01/2007	00:00	EST-5	Wildfire		0	0	0.00K	0.00K
CHARLTON (ZONE)	CHARLTON (ZONE)	GA	05/01/2017	00:00	EST-5	Wildfire		0	0	0.00K	0.00K
Totals:								0	0	0.00K	0.00K

Acreage	Burned /Nu	umber of
_	Fires	
	Charlton Co	-
FO	FY 1968-20	
Year	Acreage Burned	
1968	967.81	60
1969	152.24	65
1970	78.41	44
1971	815.1	137
1972	150.08	84
1973	244.29	133
1974	238.66	80
1975	118.24	43
1976	722.5	162
1977	1,125.88	139
1978	257.44	112
1979	1,985.69	152
1980	101.4	64
1981	816.56	133
1982	803.39	104
1983	258.16	54
1984	414.32	89
1985	724.98	153
1986	240.98	67
1987	267.26	42
1988	649.61	100
1989	474.91	60
1990	503.49	66 65
1991 1992	2,899.62 339.79	65 76
1992	113.81	47
1993	454.41	53
1995	226.09	38
1996	573.1	57
1997	124.56	38
1998	16,451.78	73
1999	468.03	91
2000	8,931.82	103
2001	283.56	73
2002	314.72	44
2003	110.49	24
2004	692.39	54
2005	78.31	29
2006	177.03	41
2007	3,135.15	109
2008	519.91	51

Data Source: Georgia Forestry Commission

2009	281.36	29
2010	202	30
2011	7,366.94	101
2012	228	49
2013	196.74	19
2014	155.93	36
2015	380.64	50
2016	470.91	45
2017	29,180.07	55

Search Results for Charlton County, Georgia

Event Types: Funnel Cloud, Tornado

11 events were reported between 01/01/1950 and 12/31/2017 (24837 days)

#### Summary Info:

Number of County/Zone areas affected:	1
Number of Days with Event:	10
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:	4
Number of Days with Event and Crop Damage:	0
Number of Event Types reported:	2

Column Definitions:

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

#### Click on Location below to display details.

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

### Select: All Tornadoes

Select: All Tornadoes	▼							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>	<u>Dth</u>	<u>lnj</u>	<u>PrD</u>	<u>CrD</u>
Totals:								0	1	167.50K	0.00K
CHARLTON CO.	CHARLTON CO.	GA	03/31/1961	13:20	CST	Tornado	F1	0	1	0.00K	0.00K
<u>MATTOX</u>	CHARLTON CO.	GA	02/02/1996	19:20	EST	Tornado	F0	0	0	12.00K	0.00K
WINOKUR	CHARLTON CO.	GA	11/08/1996	11:15	EST	Tornado	F0	0	0	0.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	02/22/1998	17:05	EST	Tornado	F0	0	0	5.00K	0.00K
<u>MATTOX</u>	CHARLTON CO.	GA	08/14/1998	16:35	EST	Funnel Cloud		0	0	0.00K	0.00K
ST GEORGE	CHARLTON CO.	GA	03/30/2000	14:45	EST	Tornado	F0	0	0	0.50K	0.00K
WINOKUR	CHARLTON CO.	GA	12/24/2002	11:43	EST	Tornado	F1	0	0	100.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	12/24/2002	11:50	EST	Tornado	F0	0	0	50.00K	0.00K
<u>CLARKING</u>	CHARLTON CO.	GA	03/07/2008	10:20	EST-5	Tornado	EF1	0	0	0.00K	0.00K
ST GEORGE	CHARLTON CO.	GA	01/21/2010	12:45	EST-5	Tornado	EF0	0	0	0.00K	0.00K
TRADERS HILL	CHARLTON CO.	GA	04/23/2017	18:00	EST-5	Funnel Cloud		0	0	0.00K	0.00K
Totals:								0	1	167.50K	0.00K

Search Results for Charlton County, Georgia

Event Types: Thunderstorm Wind

104 events were reported between 01/01/1950 and 12/31/2017 (24837 days)

#### Summary Info:

Number of County/Zone areas affected:	1
Number of Days with Event:	86
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:	31
Number of Days with Event and Crop Damage:	2
Number of Event Types reported:	1

**Column Definitions:** 

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

Wind Magnitude Definitions:

Measured Gust:'MG', Estimated Gust:'EG', Measured Sustained:'MS', Estimated Sustained:'ES'

#### Click on Location below to display details.

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

<u>Location</u>	County/Zone	<u>St.</u>	<u>Date</u>	<u>Time</u>	<u>T.Z.</u>	<u>Type</u>	<u>Mag</u>	<u>Dth</u>	<u>lnj</u>	<u>PrD</u>	<u>CrD</u>
Totals:								0	2	216.50K	51.00K
CHARLTON CO.	CHARLTON CO.	GA	04/26/1975	18:15	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
CHARLTON CO.	CHARLTON CO.	GA	02/27/1984	09:30	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
CHARLTON CO.	CHARLTON CO.	GA	10/11/1990	18:30	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
CHARLTON CO.	CHARLTON CO.	GA	08/05/1992	18:15	PST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
CHARLTON CO.	CHARLTON CO.	GA	08/18/1992	17:15	PST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
<u>Folkston</u>	CHARLTON CO.	GA	02/11/1995	22:00	EST	Thunderstorm Wind	0 kts.	0	0	135.00K	50.00K
CHARLTON CO.	CHARLTON CO.	GA	11/07/1995	20:05	EST	Thunderstorm Wind	0 kts.	0	0	3.00K	0.00K
<u>RIVERSIDE</u>	CHARLTON CO.	GA	02/02/1996	19:00	EST	Thunderstorm Wind	55 kts.	0	0	0.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	02/02/1996	19:00	EST	Thunderstorm Wind	55 kts.	0	0	2.00K	0.00K
MATTOX	CHARLTON CO.	GA	02/02/1996	19:10	EST	Thunderstorm Wind	60 kts.	0	0	2.50K	0.00K
ST GEORGE	CHARLTON CO.	GA	06/07/1996	18:05	EST	Thunderstorm Wind	60 kts.	0	0	2.00K	0.00K
WINOKUR	CHARLTON CO.	GA	08/05/1996	16:50	EST	Thunderstorm Wind	60 kts.	0	0	2.00K	0.00K
WINOKUR	CHARLTON CO.	GA	09/16/1997	15:45	EST	Thunderstorm Wind		0	0	1.50K	0.00K
<u>FOLKSTON</u>	CHARLTON CO.	GA	11/02/1997	00:10	EST	Thunderstorm Wind		0	0	2.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	02/16/1998	10:00	EST	Thunderstorm Wind		0	0	2.00K	0.00K
ST GEORGE	CHARLTON CO.	GA	04/08/1998	13:40	EST	Thunderstorm Wind		0	0	2.00K	0.00K
WINOKUR	CHARLTON CO.	GA	04/08/1998	16:00	EST	Thunderstorm Wind		0	0	1.50K	0.00K
<u>FOLKSTON</u>	CHARLTON CO.	GA	06/19/1998	18:45	EST	Thunderstorm Wind		0	0	0.50K	0.00K
UPTONVILLE	CHARLTON CO.	GA	06/22/1998	16:45	EST	Thunderstorm Wind		0	0	1.00K	0.00K
<u>FOLKSTON</u>	CHARLTON CO.	GA	07/22/1998	15:25	EST	Thunderstorm Wind		0	0	1.50K	0.00K
<u>FOLKSTON</u>	CHARLTON CO.	GA	07/28/1998	16:30	EST	Thunderstorm Wind		0	0	1.50K	0.00K
ST GEORGE	CHARLTON CO.	GA	08/08/1998	13:30	EST	Thunderstorm Wind		0	0	1.50K	0.00K
ST GEORGE	CHARLTON CO.	GA	08/09/1998	14:20	EST	Thunderstorm Wind		0	0	1.50K	0.00K
<u>FOLKSTON</u>	CHARLTON CO.	GA	01/02/1999	22:50	EST	Thunderstorm Wind		0	0	1.50K	0.00K
<u>FOLKSTON</u>	CHARLTON CO.	GA	08/02/1999	19:45	EST	Thunderstorm Wind		0	0	3.50K	0.00K
FOLKSTON	CHARLTON CO.	GA	09/07/1999	16:38	EST	Thunderstorm Wind		0	0	2.50K	0.00K
FOLKSTON	CHARLTON CO.	GA	01/24/2000	08:11	EST	Thunderstorm Wind		0	0	2.50K	0.00K

FOLKSTON	CHARLTON CO.	GA 02/27/2000	13:45	EST	Thunderstorm Wind		0	0	0.50K	0.00
FOLKSTON	CHARLTON CO.	GA 03/27/2000	17:05		Thunderstorm Wind		0	0	2.50K	0.00
HOMELAND	CHARLTON CO.	GA 03/27/2000	17:30		Thunderstorm Wind		0	0	3.00K	0.00
FOLKSTON	CHARLTON CO.	GA 03/27/2000	19:40		Thunderstorm Wind		0	0	2.50K	0.00
FOLKSTON	CHARLTON CO.	GA 06/15/2000	17:00		Thunderstorm Wind		0		2.50K	0.00
FOLKSTON	CHARLTON CO.	GA 07/11/2000	18:00		Thunderstorm Wind		0	0	2.50K	0.00
FOLKSTON	CHARLTON CO.	GA 03/13/2001	05:00		Thunderstorm Wind		0	0	2.50K	0.00
FOLKSTON	CHARLTON CO.	GA 03/13/2001	05:00		Thunderstorm Wind		0	0	2.50K	0.00
FOLKSTON	CHARLTON CO.	GA 03/15/2001	16:10		Thunderstorm Wind		0	0	0.50K	0.00
ST GEORGE	CHARLTON CO.	GA 06/16/2001	16:35		Thunderstorm Wind		0	0	2.00K	0.00
FOLKSTON	CHARLTON CO.	GA 06/14/2002	20:30		Thunderstorm Wind		0	0	5.00K	0.00
ST GEORGE	CHARLTON CO.	GA 07/20/2002	14:20		Thunderstorm Wind		0	0	2.00K	0.00
MONIAC	CHARLTON CO.	GA 11/06/2002	05:40		Thunderstorm Wind		0	0	10.00K	0.0
FOLKSTON	CHARLTON CO.	GA 02/22/2003	15:10		Thunderstorm Wind	60 kts. EG	0	0	5.00K	0.00
FOLKSTON	CHARLTON CO.	GA 03/13/2003	11:15		Thunderstorm Wind	60 kts. EG	0	0	0.00K	0.00
ST GEORGE	CHARLTON CO.	GA 04/25/2003	12:45		Thunderstorm Wind	60 kts. EG	0	0	0.00K	0.00
FOLKSTON	CHARLTON CO.	GA 05/18/2003	17:00		Thunderstorm Wind	55 kts. EG	0	0	0.00K	0.00
COUNTYWIDE	CHARLTON CO.	GA 06/11/2003	16:00		Thunderstorm Wind	55 kts. EG	0	0	0.00K	0.00
ST GEORGE	CHARLTON CO.	GA 07/26/2003	17:00		Thunderstorm Wind	55 kts. EG	0	0	0.00K	0.00
FOLKSTON	CHARLTON CO.	GA 07/30/2003	14:35		Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00
RACEPOND	CHARLTON CO.	GA 01/26/2004	17:30		Thunderstorm Wind	50 kts. ES	0	0	0.00K	0.0
ST GEORGE	CHARLTON CO.	GA 06/01/2004	16:05		Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00
ST GEORGE	CHARLTON CO.	GA 06/03/2004	16:50		Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00
<u>ST GEORGE</u>	CHARLTON CO.	GA 06/29/2004	19:25		Thunderstorm Wind	56 kts. MG	0	0	0.00K	0.00
FOLKSTON	CHARLTON CO.	GA 07/15/2004	11:40	EST	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00
HOMELAND	CHARLTON CO.	GA 07/15/2004	11:55		Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00
	CHARLTON CO.	GA 07/15/2004 GA 07/15/2004	16:10		Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00
<u>WINOKUR</u> FOLKSTON	CHARLTON CO.	GA 05/10/2006	20:45		Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00
FOLKSTON	CHARLTON CO.	GA 07/29/2006	16:30				0	0	0.00K	0.00
FOLKSTON	CHARLTON CO.	GA 07/29/2006	16:30		Thunderstorm Wind Thunderstorm Wind	50 kts. EG 50 kts. EG	0	0	0.00K	0.00
HOMELAND	CHARLTON CO.	GA 03/02/2007		EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00
HOMELAND	CHARLTON CO.	GA 04/15/2007		EST-5	Thunderstorm Wind	52 kts. EG	0	0	0.00K	0.00
FOLKSTON	CHARLTON CO.	GA 06/11/2007		EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00
FOLKSTON	CHARLTON CO.			-	Thunderstorm Wind	50 kts. EG	0	-	0.00K	0.0
RACEPOND	CHARLTON CO.			EST-5			0	0	0.00K	0.00
	CHARLTON CO.	GA 07/20/2007	_	EST-5	Thunderstorm Wind Thunderstorm Wind	50 kts. EG		0	0.00K	0.0
PAXTON HOMELAND	CHARLTON CO.	GA 07/21/2007 GA 08/11/2007		EST-5	Thunderstorm Wind	50 kts. EG 50 kts. EG	0	0	0.00K	0.00
TRADERS HILL	CHARLTON CO.	GA 06/10/2008		EST-5	Thunderstorm Wind		0	0	0.00K	0.00
		GA 06/10/2008	_			50 kts. EG	0	-		_
	CHARLTON CO.			EST-5 EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00
HOMELAND HOMELAND	CHARLTON CO. CHARLTON CO.	GA 06/28/2008 GA 07/23/2008		EST-5	Thunderstorm Wind Thunderstorm Wind	50 kts. EG 50 kts. EG	0	0 0	0.00K 0.00K	0.00
HOMELAND	CHARLTON CO.			EST-5	Thunderstorm Wind			0	0.00K	0.0
HOMELAND	CHARLTON CO.	GA 08/13/2008 GA 08/13/2008		EST-5	Thunderstorm Wind	52 kts. EG 50 kts. EG	0		0.00K	0.0
	CHARLTON CO.	GA 08/13/2008 GA 08/13/2008	_	EST-5	Thunderstorm Wind		0	0	0.00K	0.00
HOMELAND HOMELAND	CHARLTON CO.	GA 08/13/2008 GA 08/13/2008	_	EST-5	Thunderstorm Wind	50 kts. EG 50 kts. EG	0	2 0	0.00K	0.00
	CHARLTON CO.			EST-5			0	0	0.00K	0.00
<u>WINOKUR</u> HOMELAND	CHARLTON CO.	GA 04/13/2009 GA 06/22/2009		EST-5	Thunderstorm Wind Thunderstorm Wind	50 kts. EG 50 kts. EG	0	0	0.00K	0.00
HOMELAND	CHARLTON CO.	GA 06/22/2009 GA 06/29/2009		EST-5 EST-5	Thunderstorm Wind	50 kts. EG	0		0.00K	0.00
							0	0		0.00
	CHARLTON CO.	GA 01/21/2010		EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	_
	CHARLTON CO.	GA 06/18/2010		EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00
HOMELAND	CHARLTON CO.	GA 06/26/2010		EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00
FOLKSTON	CHARLTON CO.	GA 06/26/2010		EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.0
ST GEORGE	CHARLTON CO.	GA 06/06/2011		EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00
HOMELAND	CHARLTON CO.	GA 06/23/2011		EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00
FOLKSTON	CHARLTON CO.	GA 06/23/2011	_	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00
HOMELAND	CHARLTON CO.	GA 06/23/2011	_	EST-5	Thunderstorm Wind	52 kts. EG 50 kts. EG	0	0	0.00K	0.00
COLERAIN	CHARLTON CO.	GA 09/20/2011		EST-5	Thunderstorm Wind		0	0	0.00K	0.00

 NEWELL
 CHARLION CO.
 GA |05/06/2012 | 15:30 | ESI-5 | Ihunderstorm Wind | 50 kts. EG | 0 | 0 | 0.00K | 0.00K |

 https://www.ncdc.noaa.gov/stormevents/listevents.jsp?eventType=%28C%29+Thunderstorm+Wind&beginDate\_mm=01&beginDate\_dd=01&beginDate... 2/3

Storm Events Database - Search Results | National Centers for Environmental Information

3/8/2018

PAXTON	CHARLTON CO.	GA	06/12/2012	12:20	EST-5	Thunderstorm Wind	45 kts. EG	0	0	0.00K	1.00K
UPTONVILLE	CHARLTON CO.	GA	07/30/2012	14:10	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
PAXTON	CHARLTON CO.	GA	08/15/2012	14:40	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
PAXTON	CHARLTON CO.	GA	09/18/2012	09:40	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
HOMELAND	CHARLTON CO.	GA	09/20/2012	13:08	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
PAXTON	CHARLTON CO.	GA	01/30/2013	09:30	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
STOKESVILLE	CHARLTON CO.	GA	05/19/2013	20:45	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
PAXTON	CHARLTON CO.	GA	02/21/2014	10:30	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
NEWELL	CHARLTON CO.	GA	06/20/2014	17:50	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
WINOKUR	CHARLTON CO.	GA	06/24/2014	17:13	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
HOMELAND	CHARLTON CO.	GA	08/19/2014	14:45	EST-5	Thunderstorm Wind	45 kts. EG	0	0	0.50K	0.00K
FOLKSTON	CHARLTON CO.	GA	04/19/2015	15:58	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	04/19/2015	21:00	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
HOMELAND	CHARLTON CO.	GA	06/30/2015	13:34	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
FOLKSTON DAVIS ARPT	CHARLTON CO.	GA	07/16/2016	16:17	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
HOMELAND	CHARLTON CO.	GA	07/16/2016	16:25	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
UPTONVILLE	CHARLTON CO.	GA	07/17/2016	16:26	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
HOMELAND	CHARLTON CO.	GA	01/22/2017	18:20	EST-5	Thunderstorm Wind	61 kts. EG	0	0	0.00K	0.00K
HOMELAND	CHARLTON CO.	GA	06/15/2017	16:35	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Totals:								0	2	216.50K	51.00K

Search Results for Charlton County, Georgia

Event Types: Blizzard, Cold/Wind Chill, Extreme Cold/Wind Chill, Freezing Fog, Frost/Freeze, Heavy Snow, Ice Storm, Sleet, Winter Storm, Winter Weather

Charlton county contains the following zones: 'Charlton'

1 events were reported between 01/01/1950 and 12/31/2017 (24837 days)

Summary Info:

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

Column Definitions:

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

Click on Location below to display details.

							S	ort By	: Da	ate/Time (	Oldest) 🔻
<u>Location</u>	County/Zone	<u>St.</u>	Date	Time	<u>T.Z.</u>	<u>Type</u>	<u>Mag</u>	<u>Dth</u>	<u>Inj</u>	<u>PrD</u>	<u>CrD</u>
Totals:								0	0	0.00K	0.00K
CHARLTON (ZONE)	CHARLTON (ZONE)	GA	01/29/2014	14:30	EST-5	Sleet		0	0	0.00K	0.00K
Totals:								0	0	0.00K	0.00K

Search Results for Charlton County, Georgia

Event Types: Hail

49 events were reported between 01/01/1950 and 12/31/2017 (24837 days)

#### Summary Info:

Number of County/Zone areas affected:	1
Number of Days with Event:	33
Number of Days with Event and Death:	0
Number of Days with Event and Death or Injury:	0
Number of Days with Event and Property Damage:	0
Number of Days with Event and Crop Damage:	0
Number of Event Types reported:	1

Column Definitions:

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

#### Click on Location below to display details.

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

#### Select: All Hail

Select: All Hail								Sort B	y: D	ate/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>Inj</u>	<u>PrD</u>	<u>CrD</u>
Totals:								0	0	0.00K	0.00K
CHARLTON CO.	CHARLTON CO.	GA	04/30/1971	07:00	CST	Hail	1.75 in.	0	0	0.00K	0.00K
CHARLTON CO.	CHARLTON CO.	GA	04/26/1975	18:00	CST	Hail	1.75 in.	0	0	0.00K	0.00K
<u>WINOKUR</u>	CHARLTON CO.	GA	09/16/1997	15:30	EST	Hail	0.75 in.	0	0	0.00K	0.00K
RACEPOND	CHARLTON CO.	GA	06/19/1998	16:45	EST	Hail	1.00 in.	0	0	0.00K	0.00K
<u>WINOKUR</u>	CHARLTON CO.	GA	06/19/1998	16:55	EST	Hail	0.75 in.	0	0	0.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	06/19/1998	17:35	EST	Hail	0.75 in.	0	0	0.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	06/28/1998	16:37	EST	Hail	0.75 in.	0	0	0.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	01/02/1999	17:40	EST	Hail	0.88 in.	0	0	0.00K	0.00K
ST GEORGE	CHARLTON CO.	GA	11/21/1999	13:50	EST	Hail	1.50 in.	0	0	0.00K	0.00K
RACEPOND	CHARLTON CO.	GA	03/27/2000	16:50	EST	Hail	1.75 in.	0	0	0.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	03/27/2000	17:00	EST	Hail	1.75 in.	0	0	0.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	03/27/2000	17:15	EST	Hail	2.00 in.	0	0	0.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	03/27/2000	17:30	EST	Hail	0.88 in.	0	0	0.00K	0.00K
RACEPOND	CHARLTON CO.	GA	03/27/2000	18:35	EST	Hail	1.75 in.	0	0	0.00K	0.00K
WINOKUR	CHARLTON CO.	GA	04/24/2000	12:50	EST	Hail	0.75 in.	0	0	0.00K	0.00K
WINOKUR	CHARLTON CO.	GA	04/24/2000	14:47	EST	Hail	0.88 in.	0	0	0.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	06/13/2000	16:45	EST	Hail	0.75 in.	0	0	0.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	05/27/2001	17:14	EST	Hail	0.75 in.	0	0	0.00K	0.00K
ST GEORGE	CHARLTON CO.	GA	06/18/2001	13:15	EST	Hail	0.75 in.	0	0	0.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	06/26/2001	18:15	EST	Hail	0.75 in.	0	0	0.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	05/31/2002	16:00	EST	Hail	0.75 in.	0	0	0.00K	0.00K
<u>WINOKUR</u>	CHARLTON CO.	GA	06/22/2004	13:45	EST	Hail	0.75 in.	0	0	0.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	07/15/2004	11:40	EST	Hail	0.75 in.	0	0	0.00K	0.00K
HOMELAND	CHARLTON CO.	GA	07/15/2004	11:55	EST	Hail	0.75 in.	0	0	0.00K	0.00K
<u>WINOKUR</u>	CHARLTON CO.	GA	07/15/2004	16:10	EST	Hail	0.75 in.	0	0	0.00K	0.00K
HOMELAND	CHARLTON CO.	GA	07/15/2004	16:45	EST	Hail	0.75 in.	0	0	0.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	03/14/2005	16:52	EST	Hail	0.75 in.	0	0	0.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	03/25/2005	06:15	EST	Hail	1.75 in.	0	0	0.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	03/26/2005	12:20	EST	Hail	0.75 in.	0	0	0.00K	0.00K
RACEPOND	CHARLTON CO.	GA	02/03/2006	19:00	EST	Hail	1.00 in.	0	0	0.00K	0.00K

3/8/2018

Storm Events Database - Search Results | National Centers for Environmental Information

0/2010	Clothin Evenila	Butubuo	e eeuren noeur						•		
FOLKSTON	CHARLTON CO.	GA	02/03/2006	20:40	EST	Hail	1.00 in.	0	0	0.00K	0.00K
MONIAC	CHARLTON CO.	GA	04/08/2006	17:35	EST	Hail	1.75 in.	0	0	0.00K	0.00K
ST GEORGE	CHARLTON CO.	GA	05/15/2006	13:00	EST	Hail	0.88 in.	0	0	0.00K	0.00K
ST GEORGE	CHARLTON CO.	GA	05/15/2006	15:15	EST	Hail	0.88 in.	0	0	0.00K	0.00K
RACEPOND	CHARLTON CO.	GA	05/15/2006	15:30	EST	Hail	1.00 in.	0	0	0.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	05/15/2006	18:15	EST	Hail	1.00 in.	0	0	0.00K	0.00K
HOMELAND	CHARLTON CO.	GA	06/13/2007	12:40	EST-5	Hail	1.00 in.	0	0	0.00K	0.00K
ST GEORGE	CHARLTON CO.	GA	06/25/2008	16:36	EST-5	Hail	0.75 in.	0	0	0.00K	0.00K
HOMELAND	CHARLTON CO.	GA	10/09/2008	11:30	EST-5	Hail	1.00 in.	0	0	0.00K	0.00K
<u>UPTONVILLE</u>	CHARLTON CO.	GA	10/09/2008	12:00	EST-5	Hail	0.75 in.	0	0	0.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	04/13/2009	16:40	EST-5	Hail	1.00 in.	0	0	0.00K	0.00K
HOMELAND	CHARLTON CO.	GA	04/13/2009	16:43	EST-5	Hail	1.25 in.	0	0	0.00K	0.00K
<u>MATTOX</u>	CHARLTON CO.	GA	06/18/2009	22:06	EST-5	Hail	0.88 in.	0	0	0.00K	0.00K
NEWELL	CHARLTON CO.	GA	04/25/2010	15:55	EST-5	Hail	1.00 in.	0	0	0.00K	0.00K
PAXTON	CHARLTON CO.	GA	05/21/2010	17:35	EST-5	Hail	1.75 in.	0	0	0.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	06/26/2010	16:18	EST-5	Hail	0.75 in.	0	0	0.00K	0.00K
TRADERS HILL	CHARLTON CO.	GA	05/12/2011	15:35	EST-5	Hail	0.75 in.	0	0	0.00K	0.00K
FOLKSTON	CHARLTON CO.	GA	05/14/2011	11:40	EST-5	Hail	1.00 in.	0	0	0.00K	0.00K
<u>WINOKUR</u>	CHARLTON CO.	GA	05/25/2014	15:40	EST-5	Hail	1.75 in.	0	0	0.00K	0.00K
Totals:								0	0	0.00K	0.00K

Search Results for Charlton County, Georgia

#### Event Types: Drought

Charlton county contains the following zones:

'Charlton'

1 events were reported between 01/01/1950 and 12/31/2017 (24837 days)

#### Summary Info:

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

Column Definitions:

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

#### Click on Location below to display details.

							So	rt By:	Da	te/Time (C	Oldest) 🔻
Location	County/Zone	<u>St.</u>	<u>Date</u>	<u>Time</u>	<u>T.Z.</u>	<u>Type</u>	<u>Mag</u>	<u>Dth</u>	<u>lnj</u>	<u>PrD</u>	<u>CrD</u>
Totals:								0	0	0.00K	0.00K
CHARLTON (ZONE)	CHARLTON (ZONE)	GA	12/01/2006	00:00	EST-5	Drought		0	0	0.00K	0.00K
Totals:								0	0	0.00K	0.00K

## CHARLTON COUNTY DROUGHT EVENTS 2000-2018

Source: US Drought Monitor Date: March 8, 2018

Row Labels	Sum of CountD4	Sum of CountD3-D4	Sum of CountD2-D4	Sum of CountD1-D4
2000	0	3	32	35
2001	0	6	21	39
2002	0	4	15	29
2003	0	0	0	0
2004	0	0	0	3
2005	0	0	0	0
2006	0	0	5	14
2007	0	6	15	35
2008	0	0	0	4
2009	0	0	0	7
2010	0	4	14	16
2011	3	46	52	52
2012	11	23	24	25
2013	0	1	8	12
2014	0	0	0	2
2015	0	0	5	9
2016	0	0	0	5
2017	0	3	8	16
2018	0	0	0	10
Grand Total	14	96	199	313

Sum of CountD0-D4	
-------------------	--

Search Results for Charlton County, Georgia

#### Event Types: Lightning

1 events were reported between 01/01/1950 and 12/31/2017 (24837 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.

								Sort E	3y: [	Date/Time (	Oldest) 🔻
Location	County/Zone	<u>St.</u>	Date	<u>Time</u>	<u>T.Z.</u>	<u>Type</u>	<u>Mag</u>	<u>Dth</u>	<u>lnj</u>	<u>PrD</u>	<u>CrD</u>
Totals:								0	0	2.00K	0.00K
HOMELAND	CHARLTON CO.	GA	08/15/2012	15:00	EST-5	Lightning		0	0	2.00K	0.00K
Totals:								0	0	2.00K	0.00K

Search Results for Charlton County, Georgia

#### Event Types: Excessive Heat

Charlton county contains the following zones:

'Charlton'

0 events were reported between 01/01/1950 and 12/31/2017 (24837 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.

									S	ort By: Date/Ti	me (Oldest) 🔻
Location	County/Zone	<u>St.</u>	<u>Date</u>	<u>Time</u>	<u>T.Z.</u>	<u>Type</u>	<u>Mag</u>	<u>Dth</u>	<u>Inj</u>	<u>PrD</u>	<u>CrD</u>
Totals:								0	0	0.00K	0.00K



# Hazard Risk Analyses Supplement to the Charlton County Joint Hazard Mitigation Plan



# TABLE OF CONTENTS

TABLE OF CONTENTS	1
Introduction	4
Risk Assessment Process Overview	4
County Inventory Changes	4
General Building Stock Updates	5
Essential Facility Updates	7
Assumptions and Exceptions	8
Hurricane Risk Assessment	9
Hazard Definition	9
Probabilistic Hurricane Scenario	12
Wind Damage Assessment	12
Wind-Related Building Damages	12
Essential Facility Losses	13
Shelter Requirements	14
Debris Generated from Hurricane Wind	15
Flood Risk Assessment	16
Hazard Definition	16
Riverine 1% Flood Scenario	17
Riverine 1% Flood Building Damages	18
Riverine 1% Flood Essential Facility Losses	19
Riverine 1% Flood Shelter Requirements	20
Riverine 1% Flood Debris	21
Tornado Risk Assessment	22
Hazard Definition	22
Hypothetical Tornado Scenario	23
EF3 Tornado Building Damages	25
EF3 Tornado Essential Facility Damage	26
Exceptions Report	27
Statewide Inventory Changes	27
County Inventory Changes	27
General Building Stock Updates	27
User Defined Facilities	29

### List of Tables

Table 1: GBS Building Exposure Updates by Occupancy Class*	5
Table 2: Updated Essential Facilities	7
Table 3: Saffir-Simpson Hurricane Wind Scale	10
Table 4: Tropical Systems affecting Charlton County	11
Table 5: Hurricane Wind Building Damage	13
Table 6: Wind-Damaged Essential Facility Losses	14
Table 7: Displaced Households and People	14
Table 8: Wind-Related Debris Weight (Tons)	15
Table 9: Charlton County Riverine 1% Building Losses	18
Table 10: Expected Damage to Essential Facilities in 1% Riverine Flood	19
Table 11: Enhanced Fujita Tornado Rating	22
Table 12: Tornado Path Widths and Damage Curves	23
Table 13: EF3 Tornado Zones and Damage Curves	24
Table 14: Estimated Building Losses by Occupancy Type	25
Table 15: Essential Facility Updates	27
Table 16: Building Inventory Default Adjustment Rates	28
Table 17: Building Count and Exposure for County and Riverine Flood Area	29

## List of Figures

Figure 1: Charlton County Overview	6
Figure 2: Continental United States Hurricane Strikes: 1950 to 2014	9
Figure 3: Wind Speeds by Storm Category	12
Figure 4: Hurricane Wind GBS Loss Ratios	13
Figure 5: Hurricane Wind Shelter Requirements	14
Figure 6: Wind-Related Debris Weight (Tons)	15
Figure 7: Riverine 1% Flood Inundation	17
Figure 8: Potential UDF Loss Ratios from the 1% Riverine Flood	18
Figure 9: Damaged Buildings in 1% Riverine Flood	19
Figure 10: Estimated Flood Shelter Requirements in 1% Riverine Flood	20
Figure 11: Flood Debris Weight (Tons) in 1% Riverine Flood	21
Figure 12: EF Scale Tornado Zones	23
Figure 13: Hypothetical EF3 Tornado Path	24
Figure 14: Modeled EF3 Tornado Damage Buffers	25
Figure 15: Modeled Essential Facility Damage in Charlton County	26

## 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 **2017**, 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 Charlton County.

## **Risk Assessment Process Overview**

Hazus-MH Version 2.2 SP1 was used to perform the analyses for Charlton 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. Charlton 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 (GBS) is an inventory category that consists of aggregated data (grouped by census geography — tract or block). Hazus-MH generates a combination of sitespecific and aggregated loss estimates based on the given analysis and user input. The GBS records for Charlton County were replaced with data derived from parcel and property assessment data obtained from Charlton County. The county provided property assessment data was current as of August 2017 and the parcel data current as of August 2017. 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 Charlton County is 96.8%. 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.

Occupancy Classification	Default Count	Updated Count	Defa	ault Exposure	Upc	ated Exposure
Agricultural	9	0	\$	2,279,000	\$	-
Commercial	151	208	\$	87,395,000	\$	92,936,000
Education	6	24	\$	9,223,000	\$	13,478,000
Government	5	20	\$	2,627,000	\$	72,548,000
Industrial	43	76	\$	22,600,000	\$	75,143,000
Religious	25	46	\$	15,063,000	\$	24,816,000
Residential	4336	4099	\$	591,524,000	\$	403,964,000
Total	4575	4473	\$	730,711,000	\$	682,885,000

Table 1: GBS Building	Exposure U	pdates by	Occupancy	/ Class*
	Exposure o	paaces og	occapane	0.000

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

For Charlton 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.

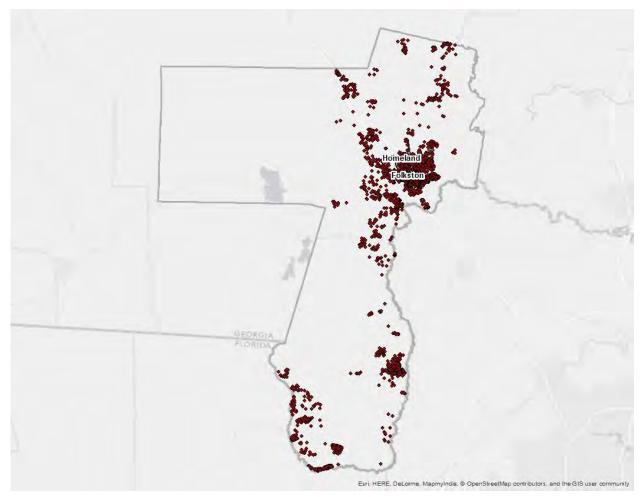


Figure 1: Charlton County Overview

<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. Opualeu Essential Facilities				
Classification	Updated Count	Upda	ited Exposure	
	Charlton Cou	nty		
EOC	1	\$	880,000	
Care	8	\$	17,894,000	
Fire	8	\$	5,775,000	
Police	6	\$	11,542,000	
School	11	\$	121,130,000	
Total	34	\$	157,221,000	

### Table 2: Updated Essential Facilities

Classification	Updated Count	Upda	ted Exposure
	Homeland		
EOC	0	\$	-
Care	0	\$	-
Fire	0	\$	-
Police	1	\$	153,000
School	0	\$	-
Total	1	\$	153,000

Classification	Updated Count	Upo	dated Exposure
	Folkston		
EOC	0	\$	-
Care	6	\$	13,185,000
Fire	1	\$	1,743,000
Police	4	\$	9,387,000
School	7	\$	111,563,000
Total	18	\$	135,878,000

## Assumptions and Exceptions

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

- The Charlton 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 Charlton 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.

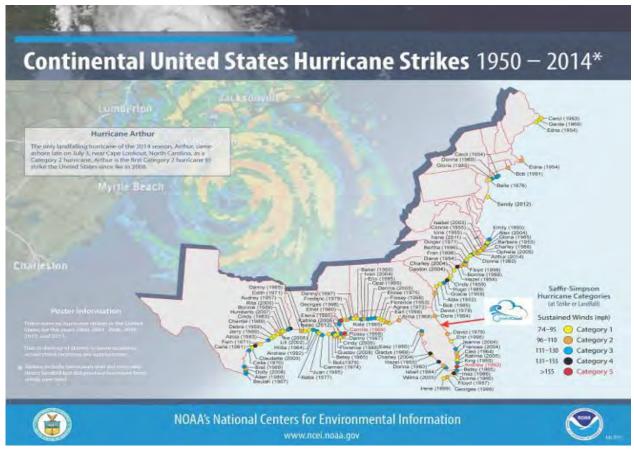


Figure 2: Continental United States Hurricane Strikes: 1950 to 2014<sup>3</sup>

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.

<sup>&</sup>lt;sup>2</sup> 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>&</sup>lt;sup>3</sup> Source: NOAA National Climatic Data Center

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

#### Table 3: Saffir-Simpson Hurricane Wind Scale

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 Charlton County by creating a 20-mile buffer around the county to include storms that didn't make direct landfall in Charlton County but impacted the county. Since 1851, Charlton County has had 76 tropical systems within 20 miles of its county borders (Table 4).

### Table 4: Tropical Systems affecting Charlton County

Vear         Month         Day         Name         Wind (Knots)         Category           1868         October         4         NOTNAMED         50         TS         1926         July         28         NOTNAMED         60         TS           1868         October         5         NOTNAMED         60         TS         1928         September         18         NOTNAMED         40         TS           1871         August         18         NOTNAMED         60         TS         1932         September         18         NOTNAMED         40         TS           1871         August         28         NOTNAMED         60         TS         1946         October         8         NOTNAMED         40         TS           1871         August         23         NOTNAMED         50         TS         1946         October         8         NOTNAMED         40         TS           1871         August         2         NOTNAMED         40         TS         1947         September         2         NOTNAMED         40         TS           1873         June         2         NOTNAMED         40         TS         1947         Septem	Table 4: Tropical Systems affecting Chariton County								_			
1868         October         5         NOTNAMED         40         TS         1928         September         18         NOTNAMED         80         H1           1871         August         18         NOTNAMED         60         TS         1932         September         15         NOTNAMED         40         TS           1871         August         18         NOTNAMED         60         TS         1946         October         8         NOTNAMED         40         TS           1871         August         23         NOTNAMED         50         TS         1946         October         8         NOTNAMED         25         TD           1871         August         23         NOTNAMED         50         TS         1946         November         2         NOTNAMED         50         TS           1873         June         2         NOTNAMED         40         TS         1947         September         24         NOTNAMED         40         TS           1873         September         20         NOTNAMED         40         TS         1950         September         20         NOTNAMED         40         TS           1873         Septemb	Year	Month	Day	Name	Wind (Knots)	Category	Year	Month	Day	Name	Wind (Knots)	Category
1871         August         18         NOTNAMED         60         TS         1932         September         15         NOTNAMED         45         TS           1871         August         18         NOTNAMED         60         TS         1938         October         24         NOTNAMED         40         TS           1871         August         23         NOTNAMED         50         TS         1946         October         8         NOTNAMED         40         TS           1871         August         23         NOTNAMED         50         TS         1946         November         2         NOTNAMED         25         TD           1871         September         6         NOTNAMED         40         TS         1947         September         2         NOTNAMED         40         TS         1947         October         7         NOTNAMED         40         TS         1947         October         7         NOTNAMED         40         TS         1953         September         20         NOTNAMED         40         TS         1953         September         20         NOTNAMED         40         TS         1953         September         30         TD	1868	October	4	NOTNAMED	50	TS	1926	July	28	NOTNAMED	60	TS
1871       August       18       NOTNAMED       60       TS       1938       October       24       NOTNAMED       40       TS         1871       August       23       NOTNAMED       50       TS       1946       October       8       NOTNAMED       40       TS         1871       August       23       NOTNAMED       50       TS       1946       November       2       NOTNAMED       25       TD         1871       August       23       NOTNAMED       50       TS       1946       November       2       NOTNAMED       25       TD         1873       June       2       NOTNAMED       40       TS       1947       September       24       NOTNAMED       40       TS         1873       September       28       NOTNAMED       60       TS       1947       October       7       NOTNAMED       40       TS         1875       September       20       NOTNAMED       40       TS       1950       September       7       NOTNAMED       40       TS         1875       September       20       NOTNAMED       40       TS       1956       June       6       NOTNAMED <td>1868</td> <td>October</td> <td>5</td> <td>NOTNAMED</td> <td>40</td> <td>TS</td> <td>1928</td> <td>September</td> <td>18</td> <td>NOTNAMED</td> <td>80</td> <td>H1</td>	1868	October	5	NOTNAMED	40	TS	1928	September	18	NOTNAMED	80	H1
1871       August       18       NOTNAMED       50       TS       1946       October       8       NOTNAMED       35       TS         1871       August       23       NOTNAMED       50       TS       1946       Noteber       2       NOTNAMED       35       TS         1871       August       23       NOTNAMED       50       TS       1946       November       2       NOTNAMED       25       TD         1871       September       6       NOTNAMED       40       TS       1947       September       24       NOTNAMED       50       TS         1873       June       2       NOTNAMED       40       TS       1947       September       24       NOTNAMED       40       TS         1873       September       28       NOTNAMED       60       TS       1947       October       7       NOTNAMED       40       TS         1877       September       20       NOTNAMED       40       TS       1950       September       20       NOTNAMED       40       TS         1878       October       11       NOTNAMED       40       TS       1964       June       6       NOTNAMED<	1871	August	18	NOTNAMED	60	TS	1932	September	15	NOTNAMED	45	TS
1871       August       23       NOTNAMED       60       TS       1946       October       8       NOTNAMED       35       TS         1871       August       23       NOTNAMED       50       TS       1946       November       2       NOTNAMED       25       TD         1873       June       2       NOTNAMED       40       TS       1947       September       24       NOTNAMED       45       TS         1873       June       2       NOTNAMED       40       TS       1947       September       24       NOTNAMED       40       TS         1873       September       28       NOTNAMED       60       TS       1947       October       7       NOTNAMED       40       TS         1875       September       28       NOTNAMED       40       TS       1950       September       7       EASY       40       TS         1875       September       20       NOTNAMED       40       TS       1950       September       20       NOTNAMED       40       TS         1878       October       11       NOTNAMED       40       TS       1964       June       6       NOTNAMED	1871	August	18	NOTNAMED	60	TS	1938	October	24	NOTNAMED	40	TS
1871         August         23         NOTNAMED         50         TS         1946         November         2         NOTNAMED         25         TD           1871         September         6         NOTNAMED         50         TS         1946         November         2         NOTNAMED         25         TD           1873         June         2         NOTNAMED         40         TS         1947         September         24         NOTNAMED         40         TS           1873         September         19         NOTNAMED         60         TS         1947         October         7         NOTNAMED         40         TS           1875         September         20         NOTNAMED         60         TS         1947         October         7         NOTNAMED         40         TS           1877         September         20         NOTNAMED         40         TS         1950         September         20         NOTNAMED         40         TS         1964         June         6         NOTNAMED         30         TD           1880         September         10         NOTNAMED         40         TS         1964         October <t< td=""><td>1871</td><td>August</td><td>18</td><td>NOTNAMED</td><td>50</td><td>TS</td><td>1946</td><td>October</td><td>8</td><td>NOTNAMED</td><td>40</td><td>TS</td></t<>	1871	August	18	NOTNAMED	50	TS	1946	October	8	NOTNAMED	40	TS
1871         September         6         NOTNAMED         50         TS         1946         November         2         NOTNAMED         25         TD           1873         June         2         NOTNAMED         40         TS         1947         September         24         NOTNAMED         50         TS           1873         September         19         NOTNAMED         60         TS         1947         October         7         NOTNAMED         40         TS           1874         September         20         NOTNAMED         60         TS         1947         October         7         NOTNAMED         40         TS           1877         September         20         NOTNAMED         40         TS         1950         September         7         NOTNAMED         40         TS           1880         September         8         NOTNAMED         40         TS         1964         June         6         NOTNAMED         30         TD           1882         October         11         NOTNAMED         40         TS         1964         October         5         HIDA         35         E         1885         August         31 <td>1871</td> <td>August</td> <td>23</td> <td>NOTNAMED</td> <td>60</td> <td>TS</td> <td>1946</td> <td>October</td> <td>8</td> <td>NOTNAMED</td> <td>35</td> <td>TS</td>	1871	August	23	NOTNAMED	60	TS	1946	October	8	NOTNAMED	35	TS
1873         June         2         NOTNAMED         40         TS         1947         September         24         NOTNAMED         50         TS           1873         June         2         NOTNAMED         40         TS         1947         September         24         NOTNAMED         45         TS           1873         September         19         NOTNAMED         60         TS         1947         October         7         NOTNAMED         40         TS           1874         September         19         NOTNAMED         40         TS         1950         September         7         NOTNAMED         40         TS           1877         September         20         NOTNAMED         40         TS         1953         September         20         NOTNAMED         40         TS           1878         October         11         NOTNAMED         40         TS         1964         June         6         NOTNAMED         30         TD           1880         September         11         NOTNAMED         40         TS         1964         June         7         ABBY         50         TS           1885         September <td>1871</td> <td>August</td> <td>23</td> <td>NOTNAMED</td> <td>50</td> <td>TS</td> <td>1946</td> <td>November</td> <td>2</td> <td>NOTNAMED</td> <td>25</td> <td>TD</td>	1871	August	23	NOTNAMED	50	TS	1946	November	2	NOTNAMED	25	TD
1873       June       2       NOTNAMED       40       TS       1947       September       24       NOTNAMED       45       TS         1873       September       19       NOTNAMED       60       TS       1947       October       7       NOTNAMED       40       TS         1874       September       28       NOTNAMED       60       TS       1947       October       7       NOTNAMED       40       TS         1877       September       20       NOTNAMED       40       TS       1950       September       7       EASY       40       TS         1878       October       11       NOTNAMED       40       TS       1964       June       6       NOTNAMED       30       TD         1880       September       81       NOTNAMED       40       TS       1964       June       6       NOTNAMED       30       TD         1882       October       11       NOTNAMED       40       TS       1964       June       7       ABBY       50       TS         1885       September       30       NOTNAMED       40       TS       1970       May       25       ALMA       25<	1871	September	6	NOTNAMED	50	TS	1946	November	2	NOTNAMED	25	TD
1873         September         19         NOTNAMED         60         TS         1947         October         7         NOTNAMED         40         TS           1874         September         28         NOTNAMED         40         TS         1947         October         7         NOTNAMED         35         TS           1877         September         20         NOTNAMED         40         TS         1950         September         7         EASY         40         TS           1877         September         20         NOTNAMED         40         TS         1953         September         7         EASY         40         TS           1878         October         11         NOTNAMED         40         TS         1964         June         6         NOTNAMED         30         TD           1880         September         31         NOTNAMED         40         TS         1964         June         7         ABBY         50         TS           1885         September         30         NOTNAMED         40         TS         1970         May         25         ALMA         25         TD           1885         September	1873	June	2	NOTNAMED	40	TS	1947	September	24	NOTNAMED	50	TS
1874         September         28         NOTNAMED         60         TS         1947         October         7         NOTNAMED         35         TS           1877         September         20         NOTNAMED         40         TS         1950         September         7         EASY         40         TS           1877         September         20         NOTNAMED         40         TS         1953         September         20         NOTNAMED         40         TS           1878         October         11         NOTNAMED         40         TS         1964         June         6         NOTNAMED         30         TD           1880         September         8         NOTNAMED         40         TS         1964         June         6         NOTNAMED         30         TD           1885         September         1         NOTNAMED         40         TS         1964         October         7         ALMA         25         TD           1885         September         30         NOTNAMED         40         TS         1970         May         25         ALMA         25         TD           1885         September	1873	June	2	NOTNAMED	40	TS	1947	September	24	NOTNAMED	45	TS
1877         September         20         NOTNAMED         40         TS         1950         September         7         EASY         40         TS           1877         September         20         NOTNAMED         40         TS         1953         September         20         NOTNAMED         40         TS           1878         October         11         NOTNAMED         40         TS         1960         July         29         BRENDA         30         TD           1880         September         8         NOTNAMED         40         TS         1964         June         6         NOTNAMED         30         TD           1882         October         11         NOTNAMED         40         TS         1964         June         6         NOTNAMED         30         TD           1885         September         21         NOTNAMED         40         TS         1970         May         25         ALMA         25         TD           1885         September         30         NOTNAMED         50         TS         1972         May         23         SUBROP1         40         SS           1888         September         <	1873	September	19	NOTNAMED	60	TS	1947	October	7	NOTNAMED	40	TS
1877       September       20       NOTNAMED       40       TS       1953       September       20       NOTNAMED       40       TS         1878       October       11       NOTNAMED       40       TS       1960       July       29       BRENDA       30       TD         1880       September       8       NOTNAMED       40       TS       1964       June       6       NOTNAMED       30       TD         1882       October       11       NOTNAMED       40       TS       1964       October       5       HILDA       35       E         1885       September       21       NOTNAMED       40       TS       1968       June       7       ABBY       50       TS         1885       September       30       NOTNAMED       40       TS       1970       May       25       ALMA       25       TD         1885       September       30       NOTNAMED       50       TS       1970       May       23       ALPHA       30       SD         1888       September       9       NOTNAMED       40       TS       1976       May       23       SUBTROP1       40	1874	September	28	NOTNAMED	60	TS	1947	October	7	NOTNAMED	35	TS
1878         October         11         NOTNAMED         40         TS         1960         July         29         BRENDA         30         TD           1880         September         8         NOTNAMED         40         TS         1964         June         6         NOTNAMED         30         TD           1882         October         11         NOTNAMED         40         TS         1964         October         5         HILDA         35         E           1885         August         31         NOTNAMED         40         TS         1964         June         7         ABBY         50         TS           1885         September         21         NOTNAMED         40         TS         1970         May         25         ALMA         25         TD           1885         September         30         NOTNAMED         50         TS         1972         May         27         ALPHA         30         SD           1885         September         9         NOTNAMED         40         TS         1976         May         23         SUBTROP1         40         SS           1888         September         2	1877	September	20	NOTNAMED	40	TS	1950	September	7	EASY	40	TS
1880       September       8       NOTNAMED       40       TS       1964       June       6       NOTNAMED       30       TD         1882       October       11       NOTNAMED       50       TS       1964       October       5       HILDA       35       E         1885       August       31       NOTNAMED       40       TS       1968       June       7       ABBY       50       TS         1885       September       21       NOTNAMED       40       TS       1970       May       25       ALMA       25       TD         1885       September       30       NOTNAMED       30       TD       1970       May       25       ALMA       25       TD         1885       September       9       NOTNAMED       50       TS       1972       May       27       ALPHA       30       SD         1888       September       9       NOTNAMED       40       TS       1976       May       23       SUBTROP1       40       SS         1893       June       16       NOTNAMED       100       H3       1984       September       28       ISIDORE       45       TS<	1877	September	20	NOTNAMED	40	TS	1953	September	20	NOTNAMED	40	TS
1882       October       11       NOTNAMED       50       TS       1964       October       5       HILDA       35       E         1885       August       31       NOTNAMED       40       TS       1968       June       7       ABBY       50       TS         1885       September       21       NOTNAMED       40       TS       1970       May       25       ALMA       25       TD         1885       September       30       NOTNAMED       30       TD       1970       May       25       ALMA       25       TD         1885       September       9       NOTNAMED       45       TS       1972       May       27       ALPHA       30       SD         1888       September       9       NOTNAMED       40       TS       1976       May       23       SUBTROP1       40       SS         1888       September       29       NOTNAMED       100       H3       1984       September       28       ISIDORE       45       TS         1898       October       2       NOTNAMED       115       H4       1985       October       11       ISABEL       30       <	1878	October	11	NOTNAMED	40	TS	1960	July	29	BRENDA	30	TD
1885       August       31       NOTNAMED       40       TS       1968       June       7       ABBY       50       TS         1885       September       21       NOTNAMED       40       TS       1970       May       25       ALMA       25       TD         1885       September       30       NOTNAMED       30       TD       1970       May       25       ALMA       25       TD         1885       September       12       NOTNAMED       50       TS       1972       May       27       ALPHA       50       SS         1888       September       9       NOTNAMED       40       TS       1976       May       23       SUBTROP1       40       SS         1888       September       9       NOTNAMED       40       TS       1976       May       23       SUBTROP1       40       SS         1888       September       29       NOTNAMED       100       H3       1984       September       28       ISIDORE       45       TS         1898       October       2       NOTNAMED       115       H4       1985       October       11       ISABEL       30	1880	September	8	NOTNAMED	40	TS	1964	June	6	NOTNAMED	30	TD
1885         September         21         NOTNAMED         40         TS         1970         May         25         ALMA         25         TD           1885         September         30         NOTNAMED         30         TD         1970         May         25         ALMA         25         TD           1885         September         30         NOTNAMED         50         TS         1972         May         27         ALPHA         50         SS           1888         September         9         NOTNAMED         45         TS         1972         May         28         ALPHA         30         SD           1888         September         9         NOTNAMED         40         TS         1976         May         23         SUBTROP1         40         SS           1888         September         29         NOTNAMED         100         H3         1984         September         28         ISIDORE         45         TS           1896         September         2         NOTNAMED         100         H3         1985         October         10         ISABEL         35         TS           1898         October         2 </td <td>1882</td> <td>October</td> <td>11</td> <td>NOTNAMED</td> <td>50</td> <td>TS</td> <td>1964</td> <td>October</td> <td>5</td> <td>HILDA</td> <td>35</td> <td>Е</td>	1882	October	11	NOTNAMED	50	TS	1964	October	5	HILDA	35	Е
1885         September         30         NOTNAMED         30         TD         1970         May         25         ALMA         25         TD           1885         October         12         NOTNAMED         50         TS         1972         May         27         ALPHA         50         SS           1888         September         9         NOTNAMED         45         TS         1972         May         28         ALPHA         30         SD           1888         September         9         NOTNAMED         40         TS         1976         May         23         SUBTROP1         40         SS           1888         September         29         NOTNAMED         100         H3         1984         September         28         ISIDORE         45         TS           1896         September         2         NOTNAMED         100         H3         1985         October         10         ISABEL         35         TS           1898         October         2         NOTNAMED         115         H4         1985         October         11         ISABEL         30         TD           1900         October         1	1885	August	31	NOTNAMED	40	TS	1968	June	7	ABBY	50	TS
1885       October       12       NOTNAMED       50       TS       1972       May       27       ALPHA       50       SS         1888       September       9       NOTNAMED       45       TS       1972       May       28       ALPHA       30       SD         1888       September       9       NOTNAMED       40       TS       1976       May       23       SUBTROP1       40       SS         1893       June       16       NOTNAMED       50       TS       1976       May       24       SUBTROP1       40       SS         1896       September       29       NOTNAMED       100       H3       1984       September       28       ISIDORE       45       TS         1898       October       2       NOTNAMED       115       H4       1985       October       10       ISABEL       35       TS         1898       October       2       NOTNAMED       35       TS       1985       October       11       ISABEL       30       TD         1900       October       12       NOTNAMED       35       TS       1994       November       21       GORDON       20	1885	September	21	NOTNAMED	40	TS	1970	May	25	ALMA	25	TD
1888       September       9       NOTNAMED       45       TS       1972       May       28       ALPHA       30       SD         1888       September       9       NOTNAMED       40       TS       1976       May       23       SUBTROP1       40       SS         1893       June       16       NOTNAMED       50       TS       1976       May       24       SUBTROP1       40       SS         1896       September       29       NOTNAMED       100       H3       1984       September       28       ISIDORE       45       TS         1898       October       2       NOTNAMED       115       H4       1985       October       10       ISABEL       30       TD         1900       October       2       NOTNAMED       90       H2       1985       October       11       ISABEL       30       TD         1900       October       12       NOTNAMED       35       TS       1985       October       11       ISABEL       30       TD         1900       October       12       NOTNAMED       35       TS       1985       October       11       ISABEL       30<	1885	September	30	NOTNAMED	30	TD	1970	May	25	ALMA	25	TD
1888       September       9       NOTNAMED       40       TS       1976       May       23       SUBTROP1       40       SS         1893       June       16       NOTNAMED       50       TS       1976       May       24       SUBTROP1       40       SS         1896       September       29       NOTNAMED       100       H3       1984       September       28       ISIDORE       45       TS         1898       October       2       NOTNAMED       115       H4       1985       October       10       ISABEL       35       TS         1898       October       2       NOTNAMED       90       H2       1985       October       11       ISABEL       30       TD         1900       October       12       NOTNAMED       35       TS       1985       October       11       ISABEL       30       TD         1900       October       19       NOTNAMED       45       TS       1994       November       21       GORDON       20       TD         1910       October       19       NOTNAMED       45       TS       1996       October       8       JOSEPHINE	1885	October	12	NOTNAMED	50	TS	1972	May	27	ALPHA	50	SS
1893       June       16       NOTNAMED       50       TS       1976       May       24       SUBTROP1       40       SS         1896       September       29       NOTNAMED       100       H3       1984       September       28       ISIDORE       45       TS         1898       October       2       NOTNAMED       115       H4       1985       October       10       ISABEL       35       TS         1898       October       2       NOTNAMED       90       H2       1985       October       11       ISABEL       30       TD         1900       October       12       NOTNAMED       35       TS       1985       October       11       ISABEL       30       TD         1900       October       12       NOTNAMED       35       TS       1985       October       11       ISABEL       30       TD         1907       June       29       NOTNAMED       45       TS       1994       November       21       GORDON       20       TD         1910       October       19       NOTNAMED       45       TS       1996       October       8       JOSEPHINE <t< td=""><td>1888</td><td>September</td><td>9</td><td>NOTNAMED</td><td>45</td><td>TS</td><td>1972</td><td>May</td><td>28</td><td>ALPHA</td><td>30</td><td>SD</td></t<>	1888	September	9	NOTNAMED	45	TS	1972	May	28	ALPHA	30	SD
1896       September       29       NOTNAMED       100       H3       1984       September       28       ISIDORE       45       TS         1898       October       2       NOTNAMED       115       H4       1985       October       10       ISABEL       35       TS         1898       October       2       NOTNAMED       90       H2       1985       October       11       ISABEL       30       TD         1900       October       12       NOTNAMED       35       TS       1985       October       11       ISABEL       30       TD         1900       October       12       NOTNAMED       35       TS       1985       October       11       ISABEL       30       TD         1907       June       29       NOTNAMED       45       TS       1994       November       21       GORDON       20       TD         1910       October       19       NOTNAMED       45       TS       1994       November       21       GORDON       20       TD         1912       July       15       NOTNAMED       40       TS       1996       October       8       JOSEPHINE	1888	September	9	NOTNAMED	40	TS	1976	May	23	SUBTROP1	40	SS
1898       October       2       NOTNAMED       115       H4       1985       October       10       ISABEL       35       TS         1898       October       2       NOTNAMED       90       H2       1985       October       11       ISABEL       30       TD         1900       October       12       NOTNAMED       35       TS       1985       October       11       ISABEL       30       TD         1900       October       12       NOTNAMED       35       TS       1985       October       11       ISABEL       30       TD         1900       October       12       NOTNAMED       35       TS       1985       October       11       ISABEL       30       TD         1907       June       29       NOTNAMED       45       TS       1994       November       21       GORDON       20       TD         1910       October       19       NOTNAMED       45       TS       1996       October       8       JOSEPHINE       60       TS         1912       July       15       NOTNAMED       40       TS       1996       October       8       JOSEPHINE	1893	June	16	NOTNAMED	50	TS	1976	May	24	SUBTROP1	40	SS
1898       October       2       NOTNAMED       90       H2       1985       October       11       ISABEL       30       TD         1900       October       12       NOTNAMED       35       TS       1985       October       11       ISABEL       30       TD         1900       October       12       NOTNAMED       35       TS       1985       October       11       ISABEL       30       TD         1907       June       29       NOTNAMED       45       TS       1994       November       21       GORDON       20       TD         1910       October       19       NOTNAMED       50       TS       1994       November       21       GORDON       20       TD         1912       July       15       NOTNAMED       45       TS       1996       October       8       JOSEPHINE       60       TS         1912       July       15       NOTNAMED       40       TS       1996       October       8       JOSEPHINE       45       E         1914       September       17       NOTNAMED       40       TS       2000       September       18       GORDON <td< td=""><td>1896</td><td>September</td><td>29</td><td>NOTNAMED</td><td>100</td><td>H3</td><td>1984</td><td>September</td><td>28</td><td>ISIDORE</td><td>45</td><td>TS</td></td<>	1896	September	29	NOTNAMED	100	H3	1984	September	28	ISIDORE	45	TS
1900       October       12       NOTNAMED       35       TS       1985       October       11       ISABEL       30       TD         1907       June       29       NOTNAMED       45       TS       1994       November       21       GORDON       20       TD         1910       October       19       NOTNAMED       50       TS       1994       November       21       GORDON       20       TD         1912       July       15       NOTNAMED       45       TS       1996       October       8       JOSEPHINE       60       TS         1912       July       15       NOTNAMED       40       TS       1996       October       8       JOSEPHINE       45       E         1914       September       17       NOTNAMED       60       TS       1998       October       1       GEORGES       25       TD         1914       September       17       NOTNAMED       40       TS       2000       September       18       GORDON       40       TS         1915       August       2       NOTNAMED       40       TS       2000       September       18       GORDON	1898	October	2	NOTNAMED	115	H4	1985	October	10	ISABEL	35	TS
1907June29NOTNAMED45TS1994November21GORDON20TD1910October19NOTNAMED50TS1994November21GORDON20TD1912July15NOTNAMED45TS1996October8JOSEPHINE60TS1912July15NOTNAMED40TS1996October8JOSEPHINE45E1914September17NOTNAMED60TS1998October1GEORGES25TD1914September17NOTNAMED40TS2000September18GORDON40TS1915August2NOTNAMED40TS2000September18GORDON30TD1915August2NOTNAMED40TS2004August12BONNIE30TD1919October1NOTNAMED40TS2005October6TAMMY45TS	1898	October	2	NOTNAMED	90	H2	1985	October	11	ISABEL	30	TD
1910October19NOTNAMED50TS1994November21GORDON20TD1912July15NOTNAMED45TS1996October8JOSEPHINE60TS1912July15NOTNAMED40TS1996October8JOSEPHINE45E1914September17NOTNAMED60TS1998October1GEORGES25TD1914September17NOTNAMED40TS2000September18GORDON40TS1915August2NOTNAMED40TS2000September18GORDON30TD1915August2NOTNAMED40TS2004August12BONNIE30TD1919October1NOTNAMED40TS2005October6TAMMY45TS	1900	October	12	NOTNAMED	35	TS	1985	October	11	ISABEL	30	TD
1912July15NOTNAMED45TS1996October8JOSEPHINE60TS1912July15NOTNAMED40TS1996October8JOSEPHINE45E1914September17NOTNAMED60TS1998October1GEORGES25TD1914September17NOTNAMED40TS2000September18GORDON40TS1915August2NOTNAMED40TS2000September18GORDON30TD1915August2NOTNAMED40TS2004August12BONNIE30TD1919October1NOTNAMED40TS2005October6TAMMY45TS	1907	June	29	NOTNAMED	45	TS	1994	November	21	GORDON	20	TD
1912July15NOTNAMED40TS1996October8JOSEPHINE45E1914September17NOTNAMED60TS1998October1GEORGES25TD1914September17NOTNAMED40TS2000September18GORDON40TS1915August2NOTNAMED40TS2000September18GORDON30TD1915August2NOTNAMED40TS2004August12BONNIE30TD1919October1NOTNAMED40TS2005October6TAMMY45TS	1910	October	19	NOTNAMED	50	TS	1994	November	21	GORDON	20	TD
1914       September       17       NOTNAMED       60       TS       1998       October       1       GEORGES       25       TD         1914       September       17       NOTNAMED       40       TS       2000       September       18       GORDON       40       TS         1915       August       2       NOTNAMED       40       TS       2000       September       18       GORDON       30       TD         1915       August       2       NOTNAMED       40       TS       2004       August       12       BONNIE       30       TD         1919       October       1       NOTNAMED       40       TS       2005       October       6       TAMMY       45       TS	1912	July	15	NOTNAMED	45	TS	1996	October	8	JOSEPHINE	60	TS
1914         September         17         NOTNAMED         40         TS         2000         September         18         GORDON         40         TS           1915         August         2         NOTNAMED         40         TS         2000         September         18         GORDON         40         TS           1915         August         2         NOTNAMED         40         TS         2004         August         12         BONNIE         30         TD           1915         August         2         NOTNAMED         40         TS         2004         August         12         BONNIE         30         TD           1919         October         1         NOTNAMED         40         TS         2005         October         6         TAMMY         45         TS	1912	July	15	NOTNAMED	40	TS	1996	October	8	JOSEPHINE	45	Е
1915         August         2         NOTNAMED         40         TS         2000 September         18         GORDON         30         TD           1915         August         2         NOTNAMED         40         TS         2004         August         12         BONNIE         30         TD           1919         October         1         NOTNAMED         40         TS         2005         October         6         TAMMY         45         TS	1914	September	17	NOTNAMED	60	TS	1998	October	1	GEORGES	25	TD
1915         August         2         NOTNAMED         40         TS         2004         August         12         BONNIE         30         TD           1919         October         1         NOTNAMED         40         TS         2005         October         6         TAMMY         45         TS	1914	September	17	NOTNAMED	40	TS	2000	September	18	GORDON	40	TS
1919 October 1 NOTNAMED 40 TS 2005 October 6 TAMMY 45 TS	1915	August	2	NOTNAMED	40	TS	2000	September	18	GORDON	30	TD
	1915	August	2	NOTNAMED	40	TS	2004	August	12	BONNIE	30	TD
1924 September 16 NOTNAMED 40 TS 2007 June 2 BARRY 30 TD	1919	October	1	NOTNAMED	40	TS	2005	October	6	TAMMY	45	TS
	1924	September	16	NOTNAMED	40	TS	2007	June	2	BARRY	30	TD

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 90 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.

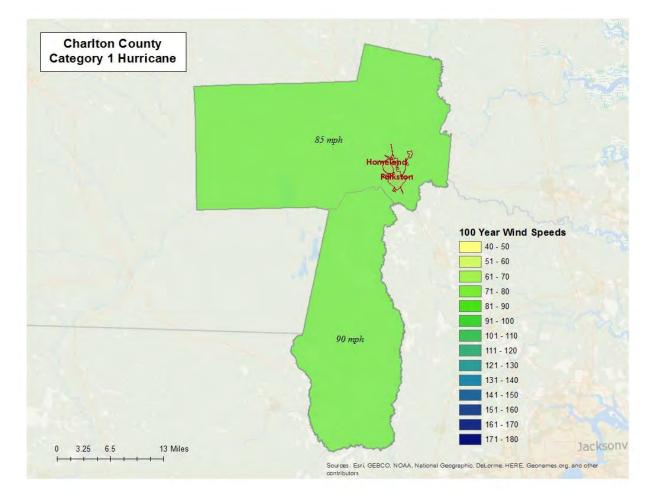


Figure 3: Wind Speeds by Storm Category

## Wind-Related Building Damages

Buildings in Charlton 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 Charlton County for the Category 1 (100 Year Event) storm. The loss ratio expresses building losses as a percentage of total building replacement cost in the county. Figure 4 illustrates the building loss ratios of the modeled Category 1 storm.

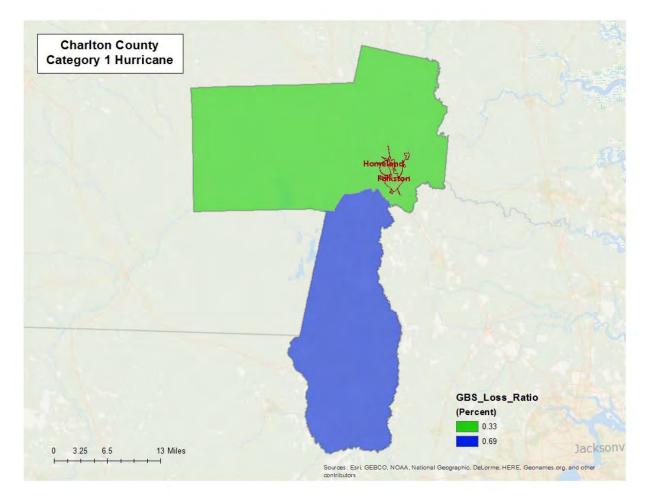


Figure 4: Hurricane Wind GBS Loss Ratios

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

Table 5: Hurricane Wind Building Damage
---

Storm	Number of	Building	Tot	al Economic	
Classification	Damaged Buildings	Damages		Loss	Loss Ratio
Category 1	156	\$ 2,759,610	\$	3,979,840	0.4

## **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 34 essential facilities in Charlton County.

Classification	Number	
EOC	1	
Care	8	
Fire	8	
Police	6	
School	11	
Total	34	

Stor		Facilities Moderately	Facilities Completely	Facilities with
Classifi		Damaged (>50%)	Damaged (>50%)	expected loss (<1day)
Categ	ory 1	0	0	34

## **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	1	0

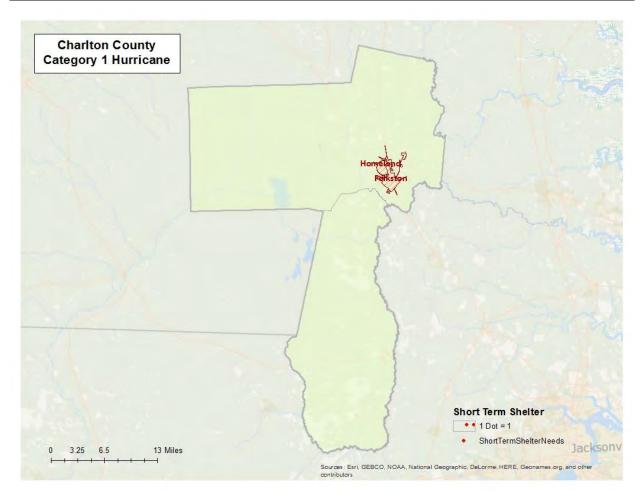


Figure 5: Hurricane Wind Shelter Requirements

## 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	<b>Concrete/Steel</b>	Tree Debris	Tree Debris	Total
Category 1	291	-	7,915	246,435	254,641

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.

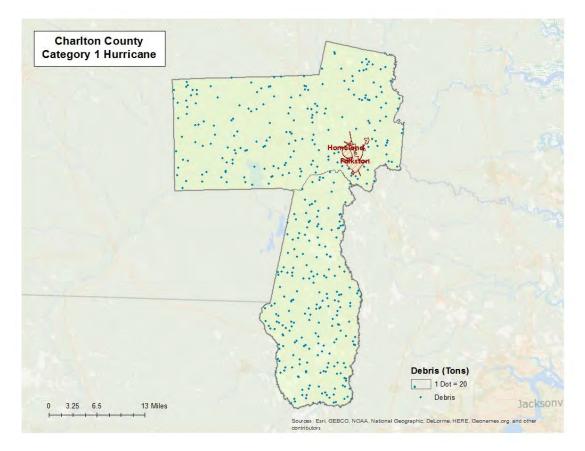


Figure 6: Wind-Related Debris Weight (Tons)

## 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 (1percent-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 Charlton 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 October 2017. 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 Charlton 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 Charlton 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.

		Total					
Occupancy	Total	Buildings		Total	Т	otal Losses to	Loss Ratio of
Classification	Buildings	Damaged	Bu	ilding Exposure		Buildings	Exposed to Damaged
				Folkston			
Residential	784	1	\$	103,691,765	\$	36,498	0.04%
Industrial	58	1	\$	58,855,142	\$	574	0.00%
Commercial	159	1	\$	70,562,718	\$	444	0.00%
				Homeland			
Residential	339	2	\$	25,418,442	\$	16,390	0.06%
				Unincorporated			
Residential	2,976	89	\$	274,860,428	\$	1,570,140	0.57%
				<b>County Total</b>			
Total	4,316	94		533,388,495		1,624,046	

### Table 9: Charlton County Riverine 1% Building Losses

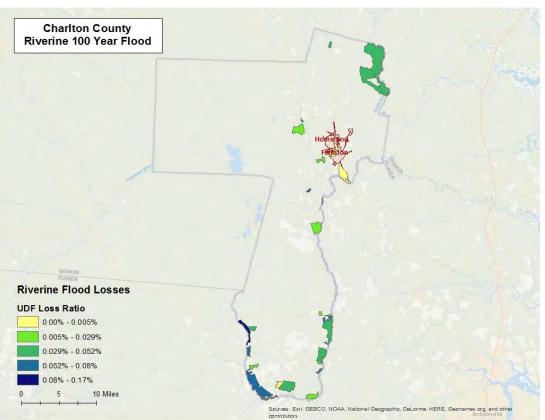


Figure 8: Potential UDF Loss Ratios from the 1% Riverine Flood

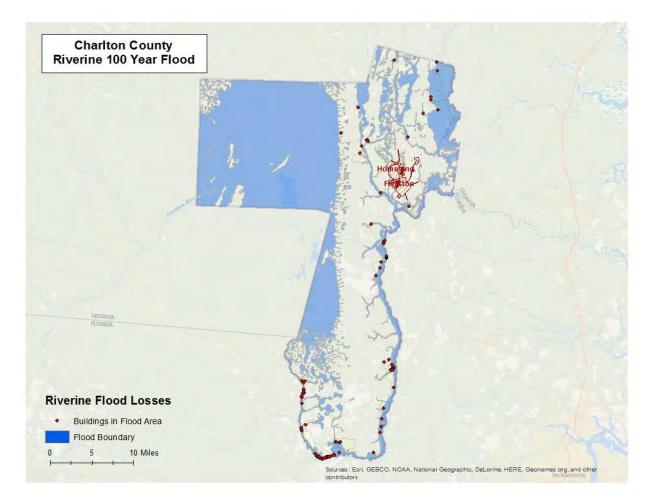


Figure 9: Damaged Buildings in 1% Riverine Flood

## 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 Charlton County riverine 1% probability floodplain.

Classification	Total	Moderate	Substantial	Loss of Use
Fire Station	8	0	0	0
Hospitals	7	0	0	0
Police Stations	6	0	0	0
Schools	11	0	0	0
EOCs	0	0	0	0

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

# **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 332 households might be displaced due to the flood. Displacement includes households evacuated within or very near to the inundated area. Displaced households represent 997 individuals, of which 473 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).

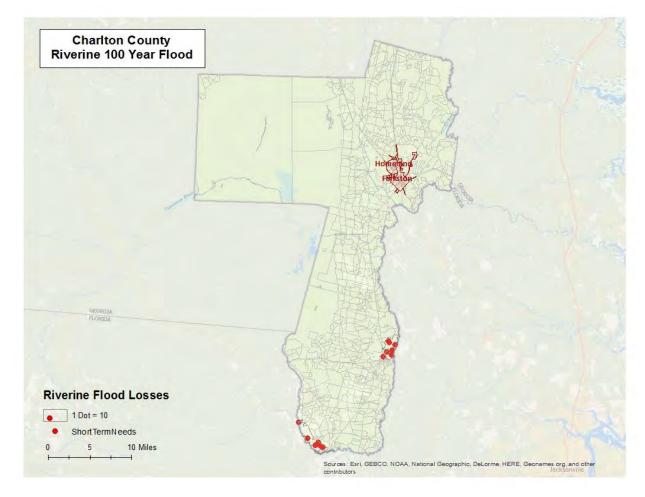


Figure 10: Estimated Flood Shelter Requirements in 1% Riverine Flood

## **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 3,437 tons of debris might be generated: 1) Finishes – 1,205 tons; 2) Structural - 790 tons; and 3) Foundations- 1,442 tons. The results are mapped in Figure 11.

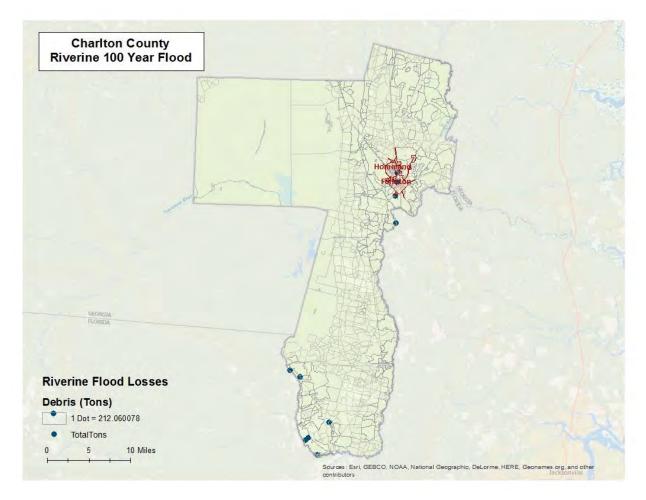


Figure 11: Flood Debris Weight (Tons) in 1% Riverine Flood

# 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.

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

### Table 11: Enhanced Fujita Tornado Rating

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 Folkston. 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.

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%

Table 12: Tornado Path Widths and Damage Curves

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.

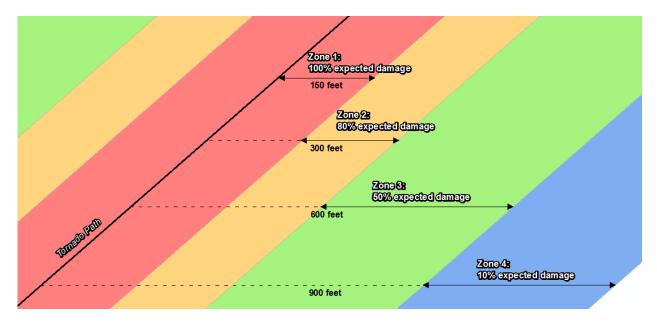


Figure 12: EF Scale Tornado Zones

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.

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



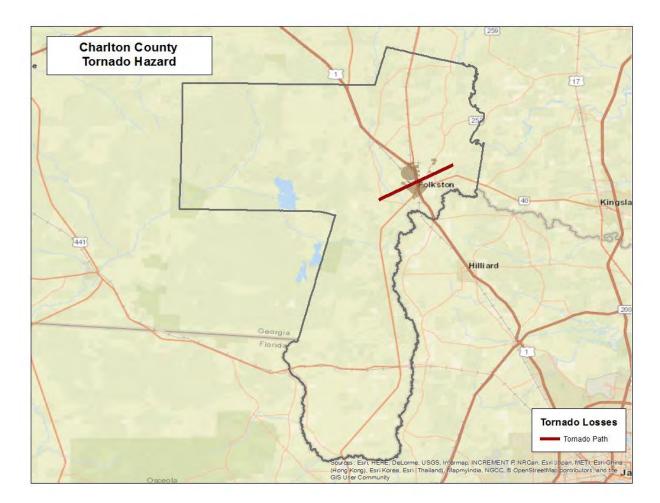


Figure 13: Hypothetical EF3 Tornado Path

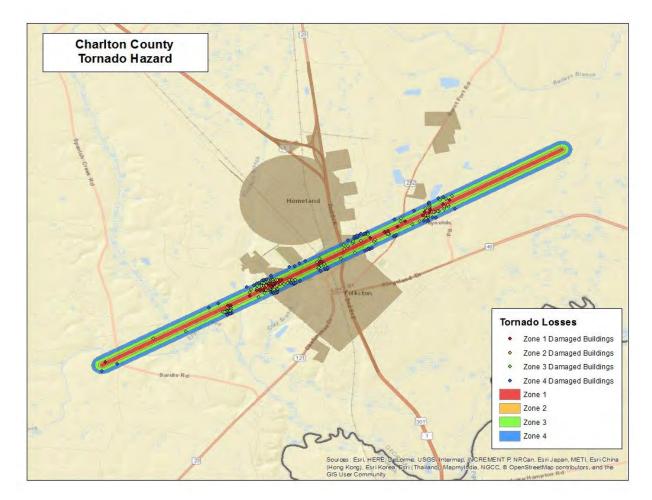


Figure 14: Modeled EF3 Tornado Damage Buffers

### EF3 Tornado Building Damages

The analysis estimated that approximately 260 buildings could be damaged, with estimated building losses of approximately \$7.1 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 Charlton 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.

Occupancy	Buildings	Building	
Classification	Damaged		Losses
Commerical	5	\$	207,447
Educational	3	\$	1,228,751
Industrial	2	\$	20,275
Religious	2	\$	491,474
Residential	248	\$	5,193,128
Total	260	\$	7,141,075

### Table 14: Estimated Building Losses by Occupancy Type

### EF3 Tornado Essential Facility Damage

There were 5 essential facilities located in the tornado path according to the modeling, these 5 facilities would suffer moderate to major damage should such a tornado strike occur.

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

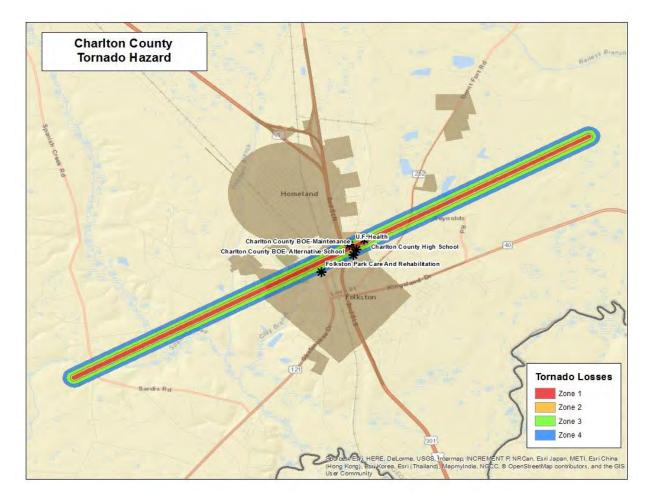


Figure 15: Modeled Essential Facility Damage in Charlton County

# **Exceptions Report**

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

Statewide facility data were supplied by GEMA through the GMIS in June 2015. The Regional Commission updated the essential facilities in 2017. 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 Charlton County.

Occupancy	Occupancy Default		Updated			
Classification		Replacement Cost	Default Count		Replacement Cost	Updated Count
Care	\$	24,583,000	7	\$	17,894,000	8
EOC	\$	880,000	1	\$	880,000	1
Fire	\$	8,686,000	10	\$	5,775,000	8
Police	\$	15,150,000	9	\$	11,542,000	6
School	\$	61,761,000	9	\$	121,130,000	11

#### Table 15: Essential Facility Updates

# **County Inventory Changes**

The GBS records for Charlton County were replaced with data derived from parcel and property assessment data obtained from Charlton County. The county provided property assessment data was current as of August 2017 and the parcel data current as of August 2017.

### General Building Stock Updates

The parcel boundaries and assessor records were obtained from Charlton 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 Charlton County was 96.8%.

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 Charlton County records.

Table 10. Building inventory berault Aujustinent Nates					
Type of Adjustment	<b>Building Count</b>	Percentage			
Area Unknown	413	9%			
Construction Unknown	430	10%			
Condition Unknown	162	4%			
Foundation Unknown	431	10%			
Year Built Unknown	139	3%			

Table 16: Building Inventory Default Adjustment Rates

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 Charlton 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.

Feature	Counts	Exposure
Total buildings in the County	4,473	\$682,901,401
Total buildings inside the 1% Annual Chance		
Riverine Flood Area	159	\$15,349,722

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