

Hurricane/Tropical Storm Identify. A tropical cyclone above 74 miles per hour is considered a hurricane and poses threats such as storm surge, high winds, and rainfall. A cyclone develops over tropical waters, generally far removed from land areas and usually moves westward under the influence of easterly winds. Over the Atlantic, Caribbean, and Gulf of Mexico, a storm may move westward until it strikes, moving under the influence of westerly winds of middle latitude and recurring northeastward. Most storms in Georgia approach from the southeast or southwest. Secondary effects, such as tornadoes and flooding, can result from a hurricane and greatly impact inland communities. The period of vulnerability extends from June through November. Mitigation includes activities to lessen the damage from such storms, including identification of floodplains for preservation of lives and property. The development of a plan to evacuate and shelter people ahead of the storm is a component of preparedness. Response and recovery involves assisting with damage assessment, debris removal, securing the perimeter, search and rescue, and providing health-related services along with re-entry into the community.

Hazard Scores

Flood Hazard Scores

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.

Score	Original Value	Description
4	Floodway	Floodway (within zone AE)
	V	1% with Velocity no Base Flood Elevation (BFE)
	VE	1% with Velocity BFE
3	A	1% Annual Chance no BFE
	A99	1% Federal flood protection system
	AE	1% has BFE
	AH	1% Ponding has BFE
	AO	1% Sheet Flow has depths
	AR	1% Federal flood protection system
2	X500	0.2% Annual Chance
1	ANI	Area not included in survey
	D	Undetermined but possible
0	UNDES	Undesignated
	X	Outside Flood Zones

SLOSH Hazard Scores

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.

Score	Original Value	Description
5	1	Inundated By a Category 1 Hurricane
4	2	Inundated By a Category 2 Hurricane
3	3	Inundated By a Category 3 Hurricane
2	4	Inundated By a Category 4 Hurricane
	5	Inundated By a Category 5 Hurricane

Seismic Hazard Scores

The seismic hazard layer is based on the USGS Probabilistic Seismic Hazard Map, showing the percentage of gravity that the area has a 2 percent probability of exceedance in 50 years. The score classification reflects that used by the IRC Seismic Design Categories. The horizontal positional accuracy is unknown for this layer.

Score	Original Value	Description
4	D1	50 - 83% gravity
3	C	33 - 50% gravity
2	B	17 - 33% gravity
1	A	0 -17% gravity

Wildfire Risk Scores

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.

Score	Original Value	Description
4	5	High

3	4	Moderate
2	3	Low
1	2	Very Low
0	1	No Houses
	7	Agriculture
	8	Water
	9	City

Wind Hazard Scores

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	

Marty LeFiles

From: asloan@gema.state.ga.us
Sent: Monday, March 21, 2005 3:54 PM
To: cliff.atkinson@gmail.com; ajbelinc@msn.com; bhso17@mchsi.com; tema911@alltel.net; chiefbrooksdfd@alltel.net; Sherry Davidson; ddrake@swgrdc.org; ellisjim@alltel.net; mikef@tifton.net; emawc@worthcountyvoc.com; stacygriffin@alltel.net; mvjsegardc@accessatc.net; rayj@alltel.net; tcf@rose.net; nlacey@lowndescounty.com; alamb@camillaga.net; RLand@columbusga.org; jalsegardc@accessatc.net; Marty LeFiles; ccema@alltel.net; warmcclung1@aol.com; colquittcode@yahoo.com; Quitman/County/GEMA@gema.state.ga.us; mkp@alltel.net; mcomm@surfsouth.com; claycountysheriff@alltel.net; brks911@surfsouth.com; Eric Vorwald; emaberrien@alltel.net; jlmbc@surfsouth.com; dylan0315@alltel.net; icema@alltel.net; cholmsley@lcrdc.org
Subject: Critical Facilities hazard layers scores

Good afternoon, all!

Over the past few weeks, there have been some questions regarding the scoring on the hazard layers within the ITOS Critical Facilities database. While I apologize for the time it has taken for me to get this to you, here are the answers:

SLOSH: 2 = low, 5 = high

seismic: 1 = low, 4 = high

Land Slide: 1 = High, 0 = none (0 always equal none and, since there are only two options for this one - yes or no - 1 is high)

Wind: 1 = low, 5 = high

Wildfire: 1 = low, 4 = high

Flood: 1 = low, 4 = high

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Search Field:

Query Results

3 HURRICANE & TROPICAL STORMS event(s) were reported in **Ben Hill County, Georgia** between **01/01/1950** and **12/31/2004**.

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

*Click on **Location or County** to display Details.*

Georgia

Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
1 Southwest And South C	10/04/1995	0000	Hurricane Opal	N/A	0	0	0	0
2 GAZ121 - 124>125 - 127 - 129>131 - 142>143 - 145 - 148 - 155>157 - 159>161	09/03/1998	12:00 AM	Tropical Storm	N/A	0	0	650K	0
3 GAZ125>127 - 129>131 - 143>148 - 156>161	09/26/2004	06:00 PM	Tropical Storm	N/A	0	0	2.2M	0
TOTALS:					0	0	2.870M	0

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Search Field:

Event Record Details

Event: **Tropical Storm**
 Begin Date: **26 Sep 2004, 06:00:00 PM EST**
 Begin Location: **Not Known**
 End Date: **27 Sep 2004, 09:00:00 PM EST**
 End Location: **Not Known**
 Magnitude: **0**
 Fatalities: **0**
 Injuries: **0**
 Property \$ **2.2M**
 Damage:
 Crop Damage: **\$ 0.0**

State: **Georgia**
[Map of Counties](#)
 Forecast **Baker, Ben Hill,**
 Zones **Berrien, Brooks,**
 affected: **Colquitt, Cook,**
Decatur, Dougherty,
Grady, Irwin, Lanier,
Lee, Lowndes, Miller,
Mitchell, Thomas,
Tift, Worth

Description:

Tropical Storm Jeanne moved north across south central Georgia during the early morning hours of September 27. Maximum sustained winds up to 40 knots with peak gusts to 50 knots were reported. The lowest sea-level pressure was 987.8 mb at Valdosta, GA. Rainfall totals varied from an inch at Albany, GA to nine inches at Tifton, GA. Widespread areal flooding was reported over portions of south central Georgia. In Lowndes County, high water forced 700 residents of a Valdosta subdivision to evacuate. The Withlacoochee River near Valdosta rose above flood stage. Many county and dirt roads were washed out. Schools and local businesses were closed on September 27. There were numerous reports of downed trees and power lines. An estimated 36,000 customers were without power. Many homes were damaged by fallen trees. A state of emergency was declared for the affected counties, with a request for federal assistance.

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Search Field:

Event Record Details

Event: **Tropical Storm**

Begin Date: **03 Sep 1998, 12:00:00 AM EST**

Begin Location: **Not Known**

End Date: **04 Sep 1998, 12:00:00 PM EST**

End Location: **Not Known**

Magnitude: **0**

Fatalities: **0**

Injuries: **0**

Property **\$ 650.0K**

Damage:

Crop Damage: **\$ 0.0**

State: **Georgia**

[Map of Counties](#)

Forecast **Ben Hill, Berrien,**
Zones **Brooks, Clay,**
affected: **Decatur, Dougherty,**
Early, Grady, Irwin,
Lanier, Lowndes,
Miller, Mitchell,
Seminole, Terrell,
Tift, Worth

Description:

Tropical Storm Earl produced widespread moderate to heavy rain and strong winds as it trekked northeast from Southwest to East-central Georgia. Rainfall totals associated with Earl ranged from three to six inches. Peak wind gusts of 40 to 50 mph were common. Ben Hill County officials reported several county roads closed due to high water, flooding of low-lying areas, and sporadic power outages. Berrien, Irwin, and Worth counties sustained minor flooding, downed trees and power lines. In Clay County, GA 37 and 39 were closed to high water and scattered debris. Several downed trees and power lines reported in Fort Gaines. Across Brooks, Grady, Miller, Tift, and Seminole counties, several county roads were closed to high water, downed trees and power lines. Dougherty County officials estimated 100 families were displaced to area shelters due to widespread flooding in Albany. GA 97 and 256 were closed to flooding and debris in Decatur County. Throughout Lanier County, numerous trees and power lines were down with roof damage to several residences. U.S. 27 south of Blakely and GA 45 from Arlington to Colquitt were closed to flooding. In Lowndes County, numerous trees littered roadways and some fell onto homes and vehicles. Scattered power outages affected 7,000 customers. In Mitchell County, a large tree fell onto a power line disrupting service to 3,400 customers. Terrell County officials reported several downed trees and power lines. A few homes sustained light to moderate damage from fallen trees. The Kinchafoonee Creek at Dawson, where the flood stage is 13 feet, crested at 13.6 feet on September 5.



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Search Field:

Event Record Details

Event: **Hurricane Opal**
 Begin Date: **04 Oct 1995, 0000 EST**
 Begin Location: **Southwest And South C**
 End Location: **Not Known**
 Magnitude: **0**
 Fatalities: **0**
 Injuries: **0**
 Property Damage: **\$ 0.0**
 Crop Damage: **\$ 0.0**

State: **Georgia**
[Map of Counties](#)
 Forecast **Baker, Ben Hill,**
 Zones **Berrien, Brooks,**
 affected: **Calhoun, Clay,**
Colquitt, Cook,
Decatur, Dougherty,
Early, Grady, Irwin,
Lanier, Lee,
Lowndes, Miller,
Mitchell, Randolph,
Seminole, Terrell,
Thomas, Tift,
Turner, Worth

Description:

The eastern fringes of Hurricane Opal caused mainly tree and power line damage especially across the westernmost counties.

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Fitzgerald city	Other	Ben Hill County Federal Building						X	X	X	X	X	X	8,124	\$135,000	2004				No value
Fitzgerald city	Other	Ben Hill County Health Department	X					X	X	X	X	X	X	5,544	\$400,000	2004				No value
Fitzgerald city	Other	Council Chambers/Old City Hall					X	X						11,460	\$605,115	2004	\$55,345			No value
Fitzgerald city	Other	Mayor's Office/Roof Garden/Grand Theatre Main Street office	X				X	X	X	X	X	X	X	29,006	\$2,830,590	2004	\$635,100			No value
Fitzgerald city	Police Station	Fitzgerald Police Department	X				X							2,500	\$40,000	2005				No value
Fitzgerald city	Police Station	Old Police Station										X	X	3,699	\$233,037	2004	\$131,300			No value
Fitzgerald city	Primary School	Ben Hill County Primary School	X	X	X	X	X	X	X	X	X	X	X	66,370	\$8,000,000	2004				No value
Ben Hill County	Private School	Bowen's Mill Christian Center					X	X	X	X	X	X	X	6,354	\$443,000	2004				No value
Ben Hill County	Public Vocational Technical School	East Central Technical Institute	X	X	X	X	X	X	X	X	X	X	X	164,910	\$28,747,705	2004				No value
Totals for: Ben Hill , Hazard Score = No Value														915,290 ²	\$119,879,572		\$1,096,745	\$0	\$0	0

	Size of Bldg. (sq. ft.)	Replace Value(\$)	Contents Value	Functional Value(\$)	Displace Cost (\$ per day)	Occupancy
Grand Totals:	915,290 ²	\$119,879,572	\$1,096,745	\$0	\$0	0

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- Fiscal Year: 2003
- Report created: Jun 30, 2005
- For more information call GEMA Pre-Disaster Mitigation at 1-800-TRY-GEMA

Reporting for Slush Hazard by Jurisdiction Grouped by Hazard Score

NOTE: Only completed facilities will be reported

Government Jurisdiction	Type	Name or Structure Description	Essential Facility	Transportation System	Lifeline System	High Potential Loss	Haz Mat Facility	Important Facility	Vulnerable Population	Economic Assets	Special Considerations	Historic Considerations	Other	Size of Bldg. (sq. ft.)	Replace Value (\$)	Replace Value Year	Contents Value	Contents Value Year	Functional Value	Displace Cost (\$per day)	Occupancy	Hazard Score
Ben Hill County	Fire Station	Ben Hill Volunteer Fire Department Station 01	X	X	X	X	X	X						760	\$20,000	2004						No value
Ben Hill County	Fire Station	Ben Hill Volunteer Fire Department Station 02	X	X	X	X	X	X						760	\$20,000	2004						No value
Ben Hill County	Fire Station	Ben Hill Volunteer Fire Department Station 04	X	X	X	X	X	X						760	\$20,000	2004						No value
Ben Hill County	Fire Station	Ben Hill Volunteer Fire Department Station 05	X	X	X	X	X	X						760	\$20,000	2004						No value
Ben Hill County	Fire Station	Ben Hill Volunteer Fire Department Station 06	X	X	X	X	X	X						760	\$20,000	2004						No value
Ben Hill County	Fire Station	GA Forestry Commission	X	X	X	X	X	X		X				4,324	\$226,200	2004						No value
Ben Hill County	Private School	Bowen's Mill Christian Center				X	X	X	X		X			6,354	\$443,000	2004						No value
Ben Hill County	Public Vocational Technical School	East Central Technical Institute	X	X	X	X	X	X	X	X	X			164,910	\$28,747,705	2004						No value
Totals for: Ben Hill County , Hazard Score = No Value																						

Fitzgerald city	Other	Ben Hill County Health Department	X	X	X	X	X	X	X	X	5,544	\$400,000	2004	No value		
Fitzgerald city	Other	Council Chambers/Old City Hall						X	X	X	11,460	\$605,115	2004	\$55,345		
Fitzgerald city	Other	Mayor's Office/Roof Garden/Grand Theatre Main Street office						X	X	X	29,006	\$2,830,590	2004	\$635,100		
Fitzgerald city	Police Station	Fitzgerald Police Department	X								2,500	\$40,000	2005	No value		
Fitzgerald city	Police Station	Old Police Station								X	3,699	\$233,037	2004	\$131,300		
Fitzgerald city	Primary School	Ben Hill County Primary School	X	X	X	X	X	X	X	X	66,370	\$8,000,000	2004	No value		
Totals for: Fitzgerald city , Hazard Score = No Value											735,902 ²	\$90,362,667		\$0	\$0	0

Grand Totals:	Size of Bldg. (sq. ft.)	Replace Value(\$)	Contents Value	Functional Value(\$)	Displace Cost (\$ per day)	Occupancy
	915,290 ²	\$119,879,572	\$1,096,745	\$0	\$0	0

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