

**Hazardous Materials Identify.**

Hazardous materials are substances which are harmful to the health and safety of people and property. A major source of hazardous material accidents are spills along roadways and railways. Jurisdictions with facilities that produce process or store hazardous materials are at risk, as are facilities that treat, store or dispose of hazardous wastes. Mitigation of this hazard may be accomplished by adherence to federal, state, and manufacturer safety standards. Proper packaging, storage, and handling will assist in elimination of hazardous materials incidents. Preparation of specialized equipment and training of personnel may be considered preparedness. Response may include a coordinated reaction to fires, injuries, environmental impacts, nuclear, biological, and chemical incidents. The rescue of injured or endangered persons, prevention of container failure, neutralization of the hazard, extinguishing an ignited material, and protection of exposure are considered responses. Salvage of materials, debris removal, and returning evacuees are a part of recovery.

## 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

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**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@worthcountyboc.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; choimsley@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

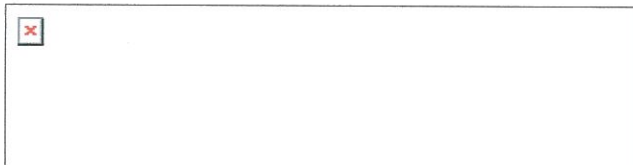
Land Slide: 1 = High, 0 = none (0 always equal none and, since there are only two options for this one - yes or no - 1 is high)

Wind: 1 = low, 5 = high

Wildfire: 1 = low, 4 = high

Flood: 1 = low, 4 = high

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**Emergency Response Team  
Incident Query System**

**Search results: 26 match(es)**

Date	Spill Number	Facility/Incident Name	Incident Location	City	County	Material	Waterway Impacted	Action	Referred To
24-APR-1990	1634	DELCO REMY	PERRY HOUSE ROAD		BEN HILL	OIL			
25-APR-1990	1637	DELCO REMY	PERRY HOUSE ROAD		BEN HILL	OIL		DDO-ONLY	
01-SEP-1990	2434	SOUTH GROVE APTS	PERRY HOUSE ROAD		BEN HILL	OTHER			
13-SEP-1990	2527	DELCO REMY	PERRY HOUSE ROAD		BEN HILL	HAZARDOUS MATERIAL			
27-JUN-1991	1038	BEN HILL COMPLAINT	NEAR CSX RAILYARD		BEN HILL	UNKNOWN	UNKNOWN		DNR-LE
28-AUG-1991	0376	GA POWER	200 KERRY STREET		BEN HILL	OIL		DDO-ONLY	
23-OCT-1991	0688	DELCO REMY	PERRY HOUSE ROAD		BEN HILL	OTHER			DNR-LE
18-FEB-1992	1239	CSX	RR TRACKS & HIGHWAY 129		BEN HILL	GASOLINE/FUEL OIL	DRAINAGE DITCH		WPB
26-MAY-1992	1807	DELCO REMY	PERRY HOUSE ROAD		BEN HILL	HAZARDOUS MATERIAL			ERT
05-JUL-1994	01	JAY SMITH TRUCKING	VACANT LOT BESIDE SHORT STOP GAS STATION	FITZGERALD	BEN HILL	DIESEL	NO		REGION
08-AUG-1994	01	EMPACK, INC	188 RIB WILEY RD	FITZGERALD	BEN HILL	12% SOLN SODIUM CHLORIDE	NONE	DDO-ONLY	
10-NOV-1994	04	EMPACK INC.	188 RIP WILEY ROAD AT RAILCAR CLEANING FAC	FITZGERALD	BEN HILL	UNKNOWN	NO	DDO-ONLY	

24-OCT-1995	04	GOLDEN PRODUCE	COUNTY ROAD	FITZGERALD	BEN HILL	DIESEL FUEL		DDO-ONLY
20-AUG-1997	15	AAA COOPER	GRANT AND ALFALFA	FITZGERALD	BEN HILL	DIESEL	N	DDO ONLY
30-MAR-1998	5	SEWAGE RELEASE	102 HEMLOCK ST	FRITZGERALD	BEN HILL	RAW SEWAGE		
23-JUL-1998	10	CSX R.R.	MILE POST AMB 660	FITZGERALD	BEN HILL	CLAY	NONE	DDO
20-SEP-1998	02	CSX	ON TRACK		BEN HILL	DIESEL	N	DDO ONLY
14-OCT-1998	10	SOUTHERN VERNER	IND PARK	FITZGERALD	BEN HILL	HYDROLIC FLUID	YES UNK	REGION
18-NOV-1998	02	PIONEER HOUSING	1 GLENN BASS ROAD	FITZGERALD	BEN HILL	PAINT	NO, POSSIBLY INTO A SETTLING POND	Region
29-JAN-1999	08	GILMAN PAPER	GILMAN BUILDING PRODUCT SAWMILL	FITZGERALD	BEN HILL	HYDRAULIC FLUID	NO	DDO ONLY
23-JUN-1999	05	ADM CORP	151 GLEN BASS RD	FITZGERALD	BEN HILL	PEANUT OIL	N/A	DDO ONLY
17-JAN-2000	6	Farmer Gin & Storage	408 Jacksonville Highway	Fritzgerald	Ben Hill	diesel fuel		DDO Only
18-JAN-2000	05	Delphi Automotive	342 Perry House Rd	Fitzgerald	BEN HILL	Sulfuric acid 50%	N/A	Region
28-JUN-2000	3		140 Banks Lane	Fitzgerald	BEN HILL	hydraulic oil		Region
27-JUL-2000	02	Vopak	222 Rip Whiley Rd	Fitzgerald	BEN HILL	Sulfur	N	DDO Only
29-SEP-2000	08	unk	1083 Jacksonville Hwy	Fitzgerald	BEN HILL	Diesel	Drainage ditch	DDO Only


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**U.S. Department of Transportation  
Hazardous Materials Safety  
Hazardous Materials Information System**

**Incidents By Mode and Incident Year**

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	Total
Air	817	925	1,031	1,386	1,582	1,419	1,083	732	751	995	10,721
Highway	12,869	12,034	11,932	13,111	14,953	15,063	15,806	13,505	13,599	12,977	135,849
Railway	1,155	1,112	1,102	989	1,073	1,058	899	870	802	753	9,813
Water	12	6	5	11	8	17	6	10	10	15	100
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>14,853</b>	<b>14,077</b>	<b>14,070</b>	<b>15,497</b>	<b>17,616</b>	<b>17,557</b>	<b>17,794</b>	<b>15,117</b>	<b>15,162</b>	<b>14,740</b>	<b>156,483</b>

**Deaths By Mode and Incident Year**

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	Total
Air	0	110	0	0	0	0	0	0	0	0	110
Highway	7	8	12	13	9	16	9	8	15	10	107
Railway	0	2	0	0	0	0	3	1	0	3	9
Water	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>7</b>	<b>120</b>	<b>12</b>	<b>13</b>	<b>9</b>	<b>16</b>	<b>12</b>	<b>9</b>	<b>15</b>	<b>13</b>	<b>226</b>

**Injuries By Mode and Incident Year**

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	Total
Air	33	33	24	20	12	5	13	4	1	12	157
Highway	296	216	152	151	217	164	109	118	105	156	1,684
Railway	71	926	45	22	35	82	46	14	13	121	1,375
Water	0	0	0	2	0	0	0	0	0	0	2
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>400</b>	<b>1,175</b>	<b>221</b>	<b>195</b>	<b>264</b>	<b>251</b>	<b>168</b>	<b>136</b>	<b>119</b>	<b>289</b>	<b>3,218</b>

**Damages By Mode and Incident Year**

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	Total
Air	100,431	87,188	336,178	266,628	286,104	271,629	309,189	108,630	100,483	189,086	2,055,546
Highway	22,141,089	29,256,951	24,741,052	28,668,607	34,359,418	50,907,424	47,738,359	43,972,178	47,780,670	39,076,970	368,642,718
Railway	8,485,159	17,385,078	8,418,188	16,242,506	30,694,452	26,546,958	21,247,655	9,745,140	4,126,165	11,635,633	154,526,934
Water	173,511	120,146	38,145	1,014,931	60,500	283,183	147,361	247,802	261,324	1,526,242	3,873,145
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>30,900,190</b>	<b>46,849,363</b>	<b>33,533,563</b>	<b>46,192,672</b>	<b>65,400,474</b>	<b>78,009,194</b>	<b>69,442,564</b>	<b>54,073,750</b>	<b>52,268,642</b>	<b>52,427,931</b>	<b>529,098,343</b>

## Ben Hill County Critical Facility Inventory – Hazardous Materials Release Hazard Zone

### Critical Facilities Located Within One Mile Buffer of Major Highways

**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 Fire Department Station 01	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	X		6,354	\$443,000	2004						No value
Totals for: Ben Hill County, Hazard Score = No Value																						
Fitzgerald city	City Hall	Fitzgerald City Hall	X					X						3,000	\$70,000	2005	\$0		\$0	\$0	0	No value
Fitzgerald city	City Jail	Ben Hill County Public Safety Complex	X	X	X	X	X	X	X	X	X			48,521	\$6,200,000	2004						No value
Fitzgerald city	Courthouse	Ben Hill County Courthouse	X			X	X	X	X	X	X	X		12,523	\$1,575,000	2004						No value



Fitzgerald city	Elementary School	Ben Hill County Elementary School	X	X	X	X	X	X	X	X	X	108,263	\$13,000,000	2004	No value
Fitzgerald city	Fire Station	Ben Hill Fire Volunteer Fire Department Station 03	X	X	X	X	X	X	X	X	X	2,320	\$45,000	2004	No value
Fitzgerald city	Fire Station	Fitzgerald Fire Department	X	X	X	X	X	X	X	X	X	4,000	\$60,000	2005	No value
Fitzgerald city	Fire Station	Fitzgerald Fire Station	X	X	X	X	X	X	X	X	X	11,250	\$840,000	2004	\$80,000
Fitzgerald city	High School	Fitzgerald High	X	X	X	X	X	X	X	X	X	196,701	\$23,137,000	2004	No value
Fitzgerald city	Hospital, Admissions Entrance	Dorminy Medical Center	X	X	X	X	X	X	X	X	X	121,000	\$21,642,925	2004	No value
Fitzgerald city	Library	Library	X	X	X	X	X	X	X	X	X	11,454	\$709,000	2004	\$195,000
Fitzgerald city	Middle School	Ben Hill Middle School	X	X	X	X	X	X	X	X	X	83,291	\$10,200,000	2004	No value
Fitzgerald city	Other	Ben Hill County Commission Office	X	X	X	X	X	X	X	X	X	5,876	\$630,000	2004	No value
Fitzgerald city	Other	Ben Hill County Federal Building	X	X	X	X	X	X	X	X	X	8,124	\$135,000	2004	No value

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

<b>Grand Totals:</b>					746,340 <sup>2</sup>			\$91,041,867	\$1,096,745	\$1,096,745	\$0	\$0	\$0	0
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- Pre-Disaster Mitigation
- Fiscal Year: 2003
- Report created: Oct 22, 2007
- For more information call GEMA Pre-Disaster Mitigation at 1-800-TRY-GEMA

**Ben Hill County Critical Facility Inventory – Hazardous Materials Release Hazard Zone**

**Critical Facilities Located Within One Mile Buffer of Railway**

**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						760	\$20,000	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	Airport	Fitzgerald Municipal Airport			X		X							1,000	\$10,000	2005	\$0	\$0	\$0	0		No value
Fitzgerald city	City Hall	Fitzgerald City Hall	X				X							3,000	\$70,000	2005						No value
Fitzgerald city	City Jail	Ben Hill County Public Safety Complex	X	X	X	X	X	X	X	X	X			48,521	\$6,200,000	2004						No value
Fitzgerald city	Courthouse	Ben Hill County Courthouse	X			X	X	X	X	X		X		12,523	\$1,575,000	2004						No value
Fitzgerald city	Fire Station	Ben Hill Volunteer Fire Department Station 03	X	X	X		X	X						2,320	\$45,000	2004						No value
Fitzgerald city	Fire Station	Fitzgerald Fire Department			X		X							4,000	\$60,000	2005						No value

Fitzgerald city	Fire Station	Fitzgerald Fire Station	X	X	X	X	X	X	X	11,250	\$840,000	2004	\$80,000	No value		
Fitzgerald city	High School	Fitzgerald High	X	X	X	X	X	X	X	196,701	\$23,137,000	2004		No value		
Fitzgerald city	Hospital, Admissions Entrance	Dorminy Medical Center	X	X	X	X	X	X	X	121,000	\$21,642,925	2004		No value		
Fitzgerald city	Library	Library			X					11,454	\$709,000	2004	\$195,000	No value		
Fitzgerald city	Other	Ben Hill County Commission Office	X		X	X	X	X		5,876	\$630,000	2004		No value		
Fitzgerald city	Other	Ben Hill County Federal Building			X	X	X	X		8,124	\$135,000	2004		No value		
Fitzgerald city	Other	Ben Hill County Health Department	X		X	X	X	X		5,544	\$400,000	2004		No value		
Fitzgerald city	Other	Council Chambers/Old City Hall			X	X	X	X		11,460	\$605,115	2004	\$55,345	No value		
Fitzgerald city	Other	Mayor's Office/Rooftop Garden/Grand Theatre Main Street office			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		3,699	\$233,037	2004	\$131,300	No value		
Totals for: Fitzgerald city , Hazard Score = No Value										477,978	\$59,162,667		\$1,096,745	\$0	\$0	0

Grand Totals:	Size of Bldg. (sq. ft.)	Replace Value(\$)	Contents Value	Functional Value(\$)	Displace Cost (\$ per day)	Occupancy
	643,648	\$87,930,372	\$1,096,745	\$0	\$0	0

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