

**Tornadoes Identify.** Violent whirling wind accompanied by a funnel-shaped cloud is classified as a tornado. Severe weather conditions, such as a thunderstorm or hurricane, can produce a tornado. The extension may be up to 50 miles and move at speeds of 10 to 50 miles per hour. Through combined action of strong rotary winds and the impact of wind-born debris, destruction occurs. The official tornado season begins in March and continues through August, but may occur throughout the year. Weather band radios, tie-downs for mobile homes and warning systems are mitigating activities. Search and rescue damage assessment, and public information training are preparedness areas. Safe shelter-in-place is a key to response as well as assistance to persons injured, fires, and looting. After the tornado strikes, search and rescue, sheltering, provision of food and clothing to victims, and damage assessment are essential. Recovery may require total support to clear debris, repair utilities, rebuild, and return to a life of normalcy.

## 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@worthcountybo.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; warmclung1@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

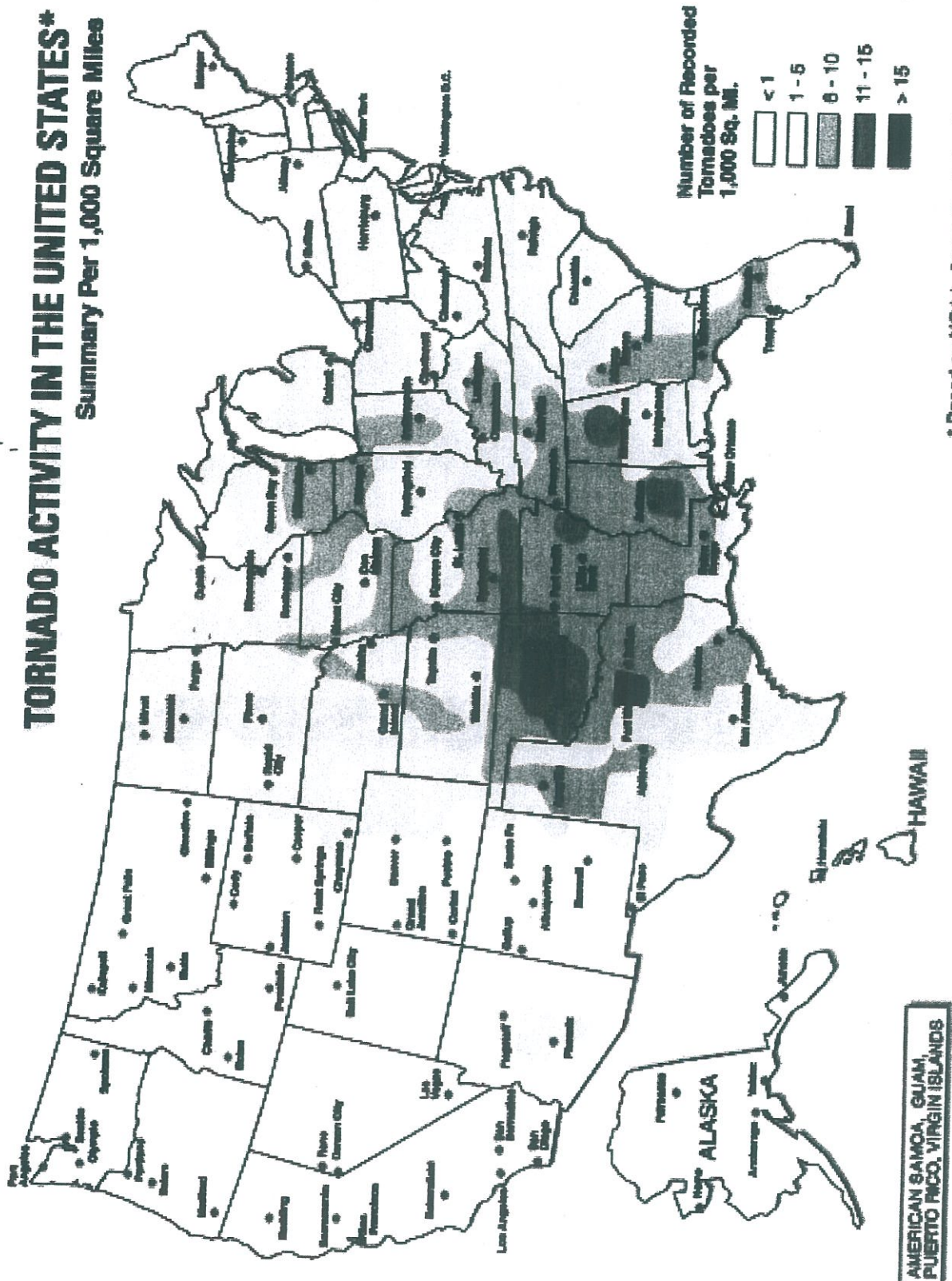
Flood: 1 = low, 4 = high

R. Alan Sloan, MPA  
Hazard Mitigation Planner  
Georgia Emergency Management Agency  
P.O. Box 5826  
Cordele, GA 31010  
Office: (229)276-2773  
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Pager: (404)655-6116  
FAX: (229)276-2733  
GEMA: 1-800 TRY GEMA  
[asloan@gema.state.ga.us](mailto:asloan@gema.state.ga.us)



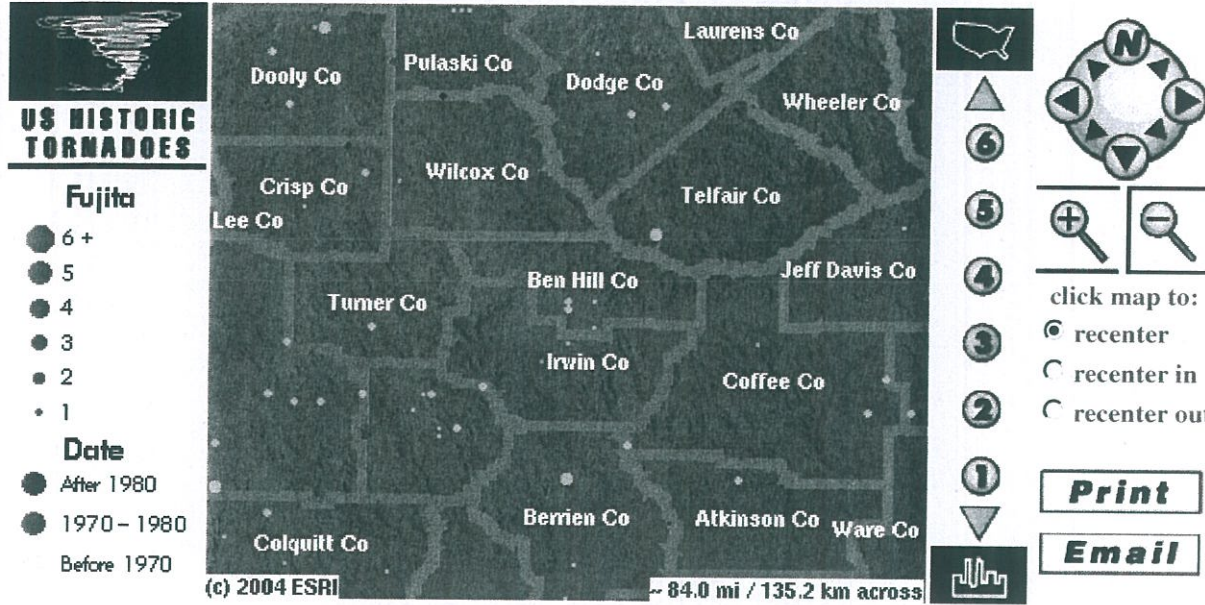
# TORNADO ACTIVITY IN THE UNITED STATES\*

Summary Per 1,000 Square Miles



\* Based on NOAA, Storm Prediction Center Statistics

Figure I.1 The number of tornadoes recorded per 1,000 square miles



do you know your RISKS?

Hazard Information and Awareness

Map navigation controls including a compass, zoom in (+) and zoom out (-) buttons, and a "click map to:" menu with options: recenter, recenter in, and recenter out. Below these are buttons for "Print" and "Email".

**Map Notes:** The historic tornado touchdown data displayed on this site has been assembled by ESRI from various sources. The maps indicate the relative intensity of the historic tornadoes as measured on the **Fujita Scale**. This intensity data is not available for all tornadoes in the data set. For more information on tornado hazards and how you can defend against them, please visit the **National Weather Service** Web site.

**Current Map View:**

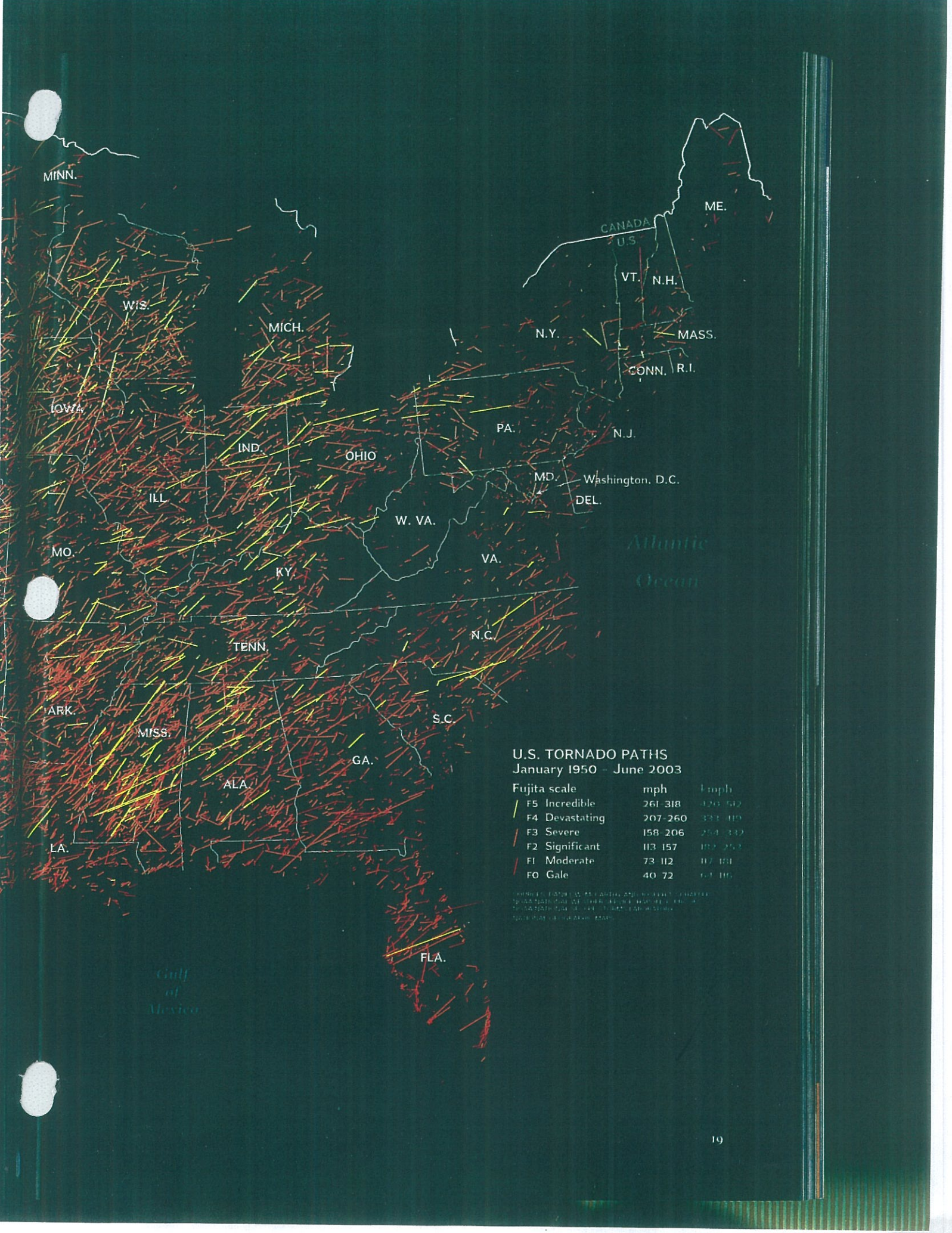
Historic Tornadoes

**Change View**

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Tue Nov 16 09:07:25 2004



**U.S. TORNADO PATHS**  
January 1950 - June 2003

Fujita scale	mph	kmph
F5 Incredible	261-318	420-512
F4 Devastating	207-260	333-419
F3 Severe	158-206	254-332
F2 Significant	113-157	182-253
F1 Moderate	73-112	117-181
F0 Gale	40-72	64-116

THESE PATHS ARE BASED ON THE BEST AVAILABLE DATA AND ARE NOT GUARANTEED TO BE COMPLETE. THE DATA IS BASED ON THE NATIONAL TORNADO DATA CENTER ARCHIVES. SOURCE: NATIONAL TORNADO DATA CENTER.



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## Query Results

**11 TORNADO(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
<a href="#">1 BEN HILL</a>	04/15/1961	0730	Tornado	F1	0	0	250K	0
<a href="#">2 BEN HILL</a>	06/14/1963	1700	Tornado	F2	0	2	250K	0
<a href="#">3 BEN HILL</a>	06/19/1967	1445	Tornado	F2	0	0	25K	0
<a href="#">4 BEN HILL</a>	05/28/1968	0030	Tornado	F1	0	0	3K	0
<a href="#">5 BEN HILL</a>	05/28/1968	0030	Tornado	F1	0	0	25K	0
<a href="#">6 BEN HILL</a>	01/15/1971	1230	Tornado	F1	0	0	25K	0
<a href="#">7 BEN HILL</a>	04/25/1982	1410	Tornado	F0	0	0	25K	0
<a href="#">8 BEN HILL</a>	12/05/1982	1315	Tornado	F1	0	0	25K	0
<a href="#">9 BEN HILL</a>	02/22/1983	1445	Tornado	F1	0	0	250K	0
<a href="#">10 BEN HILL</a>	05/16/1983	0800	Tornado	F1	0	0	250K	0
<a href="#">11 BEN HILL</a>	11/24/1992	1115	Tornado	F0	0	0	25K	0
<b>TOTALS:</b>					<b>0</b>	<b>2</b>	<b>1.153M</b>	<b>0</b>

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Search Field:

## Event Record Details

Event: **Tornado**  
Begin Date: **24 Nov 1992, 1115 EST**  
Begin Location: **Not Known**  
Begin **31°43'N / 83°15'W**  
LAT/LON:  
End Location: **Not Known**  
End LAT/LON: **31°49'N / 83°08'W**  
Length: **8 Miles**  
Width: **20 Yards**  
Magnitude: **F0**  
Fatalities: **0**  
Injuries: **0**  
Property **\$ 25.0K**  
Damage:  
Crop Damage: **\$ 0.0**

State: **Georgia**  
[Map of Counties](#)  
County: **Ben Hill**

Description:  
**None Reported**

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Search Field:

## Event Record Details

Event: **Tornado**  
Begin Date: **16 May 1983, 0800 CST**  
Begin Location: **Not Known**  
Begin **31°48'N / 83°18'W**  
LAT/LON:  
End Location: **Not Known**  
End LAT/LON: **31°50'N / 83°15'W**  
Length: **3 Miles**  
Width: **100 Yards**  
Magnitude: **F1**  
Fatalities: **0**  
Injuries: **0**  
Property **\$ 250.0K**  
Damage:  
Crop Damage: **\$ 0.0**

State: **Georgia**  
[Map of Counties](#)  
County: **Ben Hill**

Description:  
**None Reported**

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Search Field:

## Event Record Details

Event: **Tornado**  
 Begin Date: **22 Feb 1983, 1445 CST**  
 Begin Location: **Not Known**  
 Begin **31°43'N / 83°15'W**  
 LAT/LON:  
 End Location: **Not Known**  
 Length: **3 Miles**  
 Width: **50 Yards**  
 Magnitude: **F1**  
 Fatalities: **0**  
 Injuries: **0**  
 Property **\$ 250.0K**  
 Damage:  
 Crop Damage: **\$ 0.0**

State: **Georgia**  
[Map of Counties](#)  
 County: **Ben Hill**

Description:  
**None Reported**

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Search Field:

## Event Record Details

Event: **Tornado**  
Begin Date: **05 Dec 1982, 1315 CST**  
Begin Location: **Not Known**  
Begin **31°43'N / 83°15'W**  
LAT/LON:  
End Location: **Not Known**  
Length: **0 Mile**  
Width: **20 Yards**  
Magnitude: **F1**  
Fatalities: **0**  
Injuries: **0**  
Property **\$ 25.0K**  
Damage:  
Crop Damage: **\$ 0.0**

State: **Georgia**  
[Map of Counties](#)  
County: **Ben Hill**

Description:  
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Search Field:

### Event Record Details

Event: **Tornado**  
 Begin Date: **25 Apr 1982, 1410 CST**  
 Begin Location: **Not Known**  
 Begin **31°42'N / 83°18'W**  
 LAT/LON:  
 End Location: **Not Known**  
 Length: **1 Mile**  
 Width: **30 Yards**  
 Magnitude: **F0**  
 Fatalities: **0**  
 Injuries: **0**  
 Property **\$ 25.0K**  
 Damage:  
 Crop Damage: **\$ 0.0**

State: **Georgia**  
[Map of Counties](#)  
 County: **Ben Hill**

Description:  
**None Reported**

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## Event Record Details

Event: **Tornado**  
Begin Date: **15 Jan 1971, 1230 CST**  
Begin Location: **Not Known**  
Begin **31°42'N / 83°15'W**  
LAT/LON:  
End Location: **Not Known**  
Length: **1 Mile**  
Width: **30 Yards**  
Magnitude: **F1**  
Fatalities: **0**  
Injuries: **0**  
Property **\$ 25.0K**  
Damage:  
Crop Damage: **\$ 0.0**

State: **Georgia**  
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County: **Ben Hill**

Description:  
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Search Field:

## Event Record Details

Event: **Tornado**  
Begin Date: **28 May 1968, 0030 CST**  
Begin Location: **Not Known**  
Begin **31°43'N / 83°12'W**  
LAT/LON:  
End Location: **Not Known**  
Length: **2 Miles**  
Width: **37 Yards**  
Magnitude: **F1**  
Fatalities: **0**  
Injuries: **0**  
Property **\$ 25.0K**  
Damage:  
Crop Damage: **\$ 0.0**

State: **Georgia**  
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Description:  
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Search Field:

### Event Record Details

Event: **Tornado**  
 Begin Date: **28 May 1968, 0030 CST**  
 Begin Location: **Not Known**  
 Begin **31°43'N / 83°12'W**  
 LAT/LON:  
 End Location: **Not Known**  
 Length: **1 Mile**  
 Width: **33 Yards**  
 Magnitude: **F1**  
 Fatalities: **0**  
 Injuries: **0**  
 Property **\$ 2.5K**  
 Damage:  
 Crop Damage: **\$ 0.0**

State: **Georgia**  
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 County: **Ben Hill**

Description:  
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## Event Record Details

Event: **Tornado**  
 Begin Date: **19 Jun 1967, 1445 CST**  
 Begin Location: **Not Known**  
 Begin **31°42'N / 83°15'W**  
 LAT/LON:  
 End Location: **Not Known**  
 Length: **1 Mile**  
 Width: **33 Yards**  
 Magnitude: **F2**  
 Fatalities: **0**  
 Injuries: **0**  
 Property **\$ 25.0K**  
 Damage:  
 Crop Damage: **\$ 0.0**

State: **Georgia**  
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 County: **Ben Hill**

Description:  
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## Event Record Details

Event: **Tornado**  
Begin Date: **14 Jun 1963, 1700 CST**  
Begin Location: **Not Known**  
Begin **31°43'N / 83°15'W**  
LAT/LON:  
End Location: **Not Known**  
Length: **1 Mile**  
Width: **33 Yards**  
Magnitude: **F2**  
Fatalities: **0**  
Injuries: **2**  
Property **\$ 250.0K**  
Damage:  
Crop Damage: **\$ 0.0**

State: **Georgia**  
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