

**Flood Identify.** Overflow of rivers and streams due to severe storms or torrential rains may result as a secondary effect of a tropical storm or hurricane. Different variables impact flooding: topography, ground saturation, previous rainfall, soil types, drainage, basin size, drainage patterns of streams, and vegetative cover. Georgia's red clay contributes to the problem in the piedmont area of the state. Flooding may occur slowly or become a flash flood, such as in the case of a dam failure. Mitigation of this hazard includes mapping floodplain areas. Preparedness is the process of identifying warning systems, evacuation routes, and shelters outside the floodplain. Response and recovery may encompass evacuation, search and rescue, sheltering, food, clothing, health and medical services, damage assessment, debris removal, dam repair, and temporary housing.

## 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	