



US Army Corps of Engineers
BUILDING STRONG®

Hurricane Ian Advisory #6

For Planning Purposes Only!

WASHINGTON, DC
13:00:30
24 Sep 2022

CHICAGO
12:00:30
24 Sep 2022

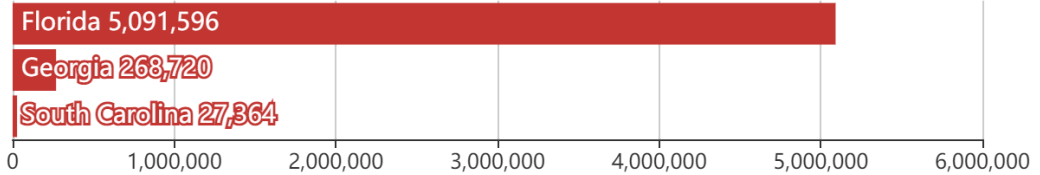
LOS ANGELES
10:00:30
24 Sep 2022

<https://simsuite.usace.army.mil/wab/v2.15/MissionModels/index.html#advid=260&oid=84&name=Hurricane%20Ian&advisory=Advisory%20%236&advlf=G>

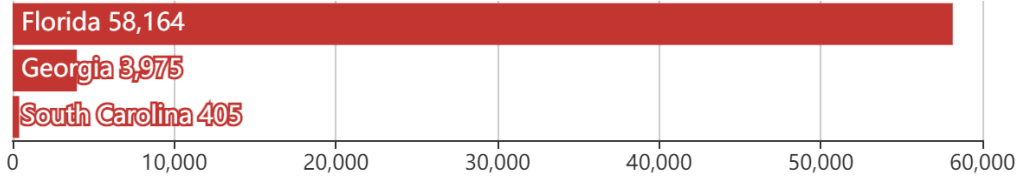
Updated as of 24 Sep 2022 (12:00 PM Central Daylight Time)

Debris

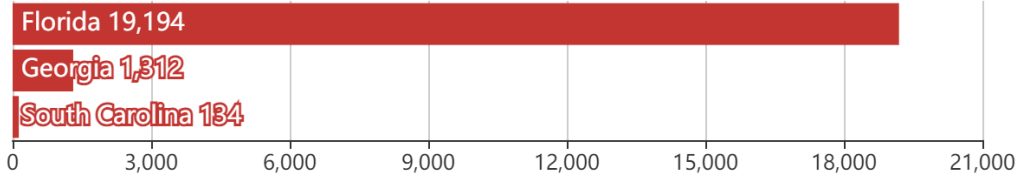
5.4M
cu. yd.



Est. Temp. Roofing
62.5K
units

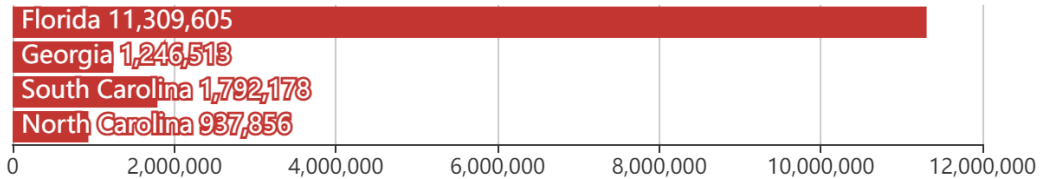


Act. Temp. Roofing
20.6K
units



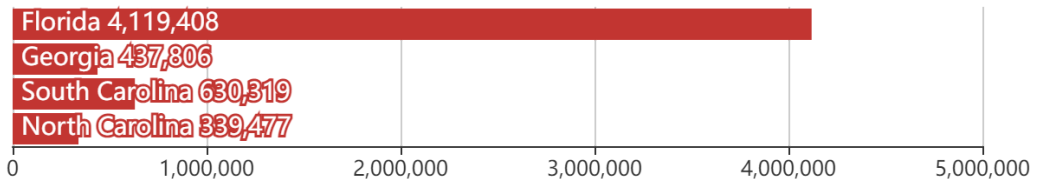
Population

15.3M
people



Households

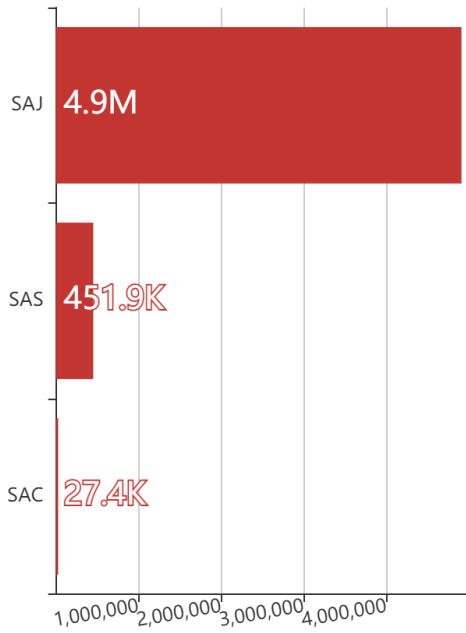
5.5M
households



Mission Model Summary

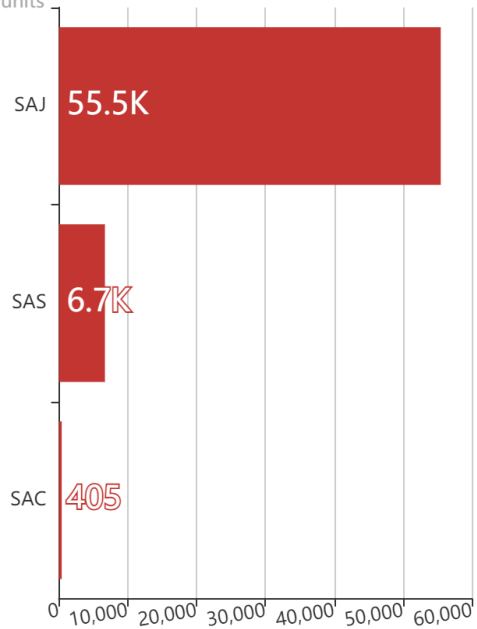
Debris By USACE District

cu. yd.

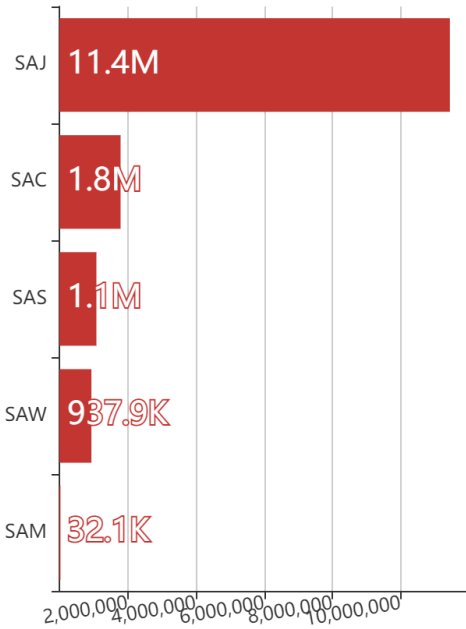


Est. Temp. Roofing By USACE District

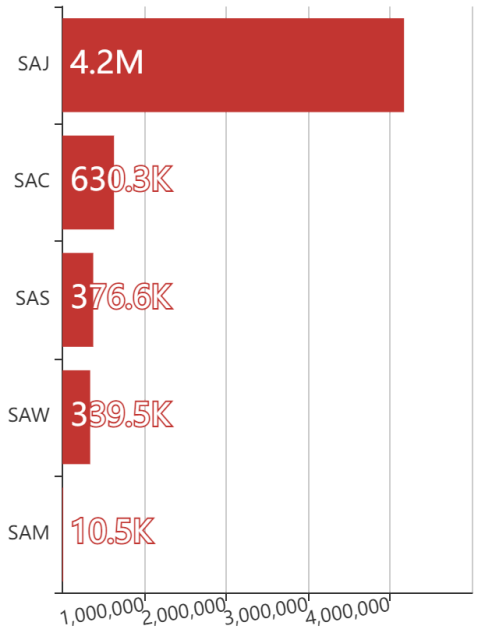
units



Population By USACE District



Households By USACE District





Key Messages for Tropical Storm Ian

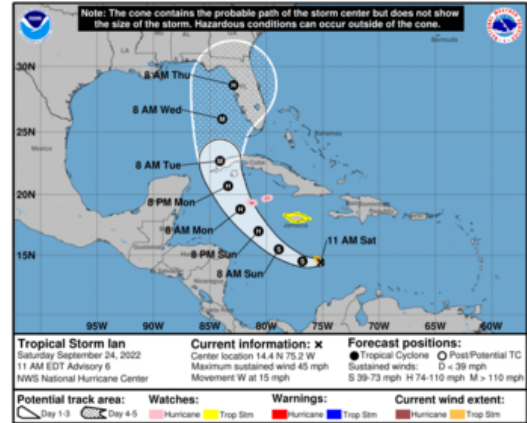
Advisory 6: 11:00 AM EDT Sat Sep 24, 2022



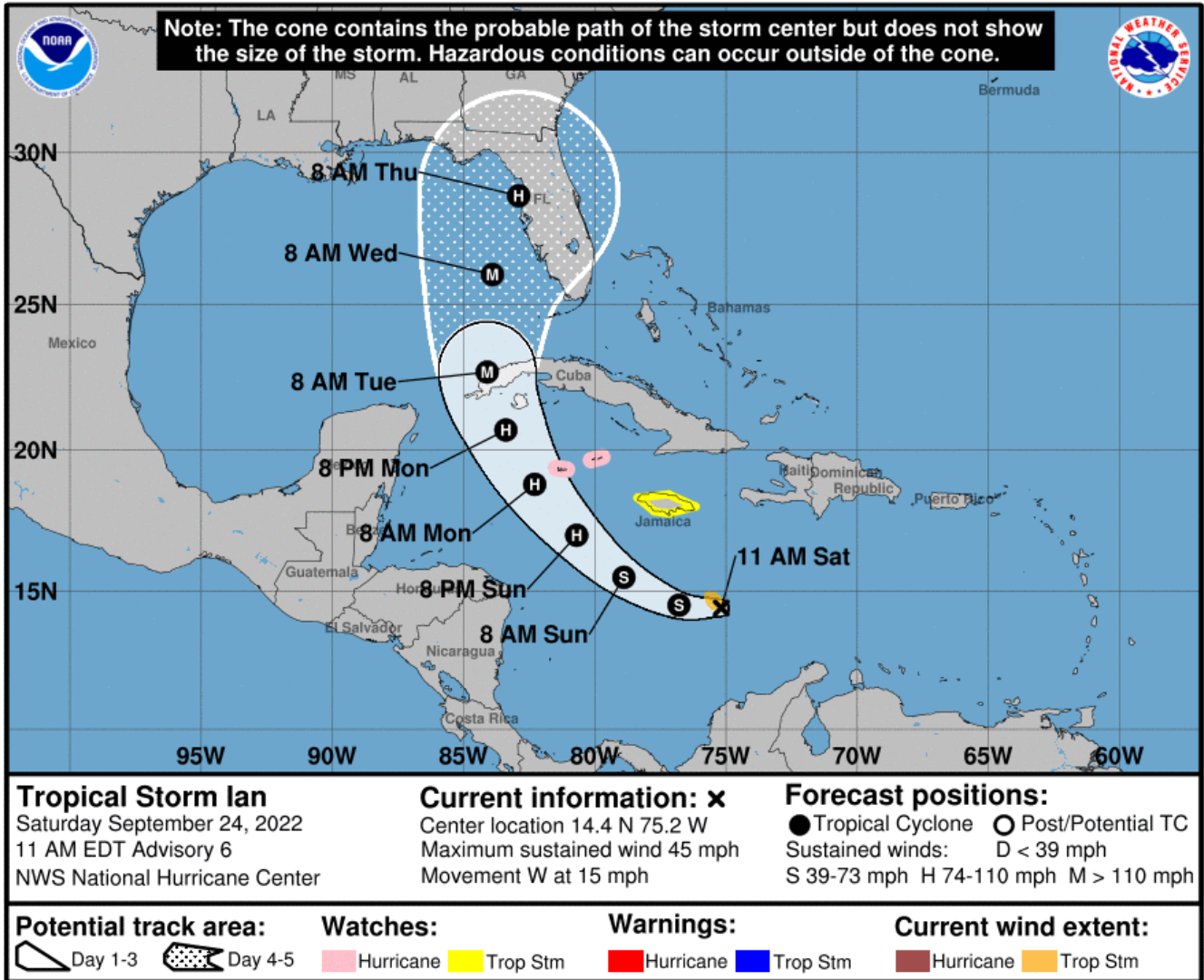
1. Ian is expected to produce heavy rainfall, flash flooding, and possible mudslides in areas of higher terrain, particularly over Jamaica and Cuba. Limited flash and urban flooding is possible with rainfall across the Florida Keys and Florida peninsula through mid next week.

2. Hurricane conditions are possible in the Cayman Islands by early Monday, with tropical storm conditions possible by late Sunday. Tropical storm conditions are possible in Jamaica on Sunday.

3. Ian is forecast to move near or over western Cuba and approach the west coast of the Florida peninsula at or near major hurricane strength early next week, where there is increasing confidence in multiple life-threatening hazards: storm surge, hurricane-force winds and rainfall flooding. While it is too soon to determine the exact magnitude and location of these hazards, residents in Cuba, the Florida Keys, and the Florida peninsula should ensure they have their hurricane plan in place, follow any advice given by local officials, and closely monitor updates to the forecast.

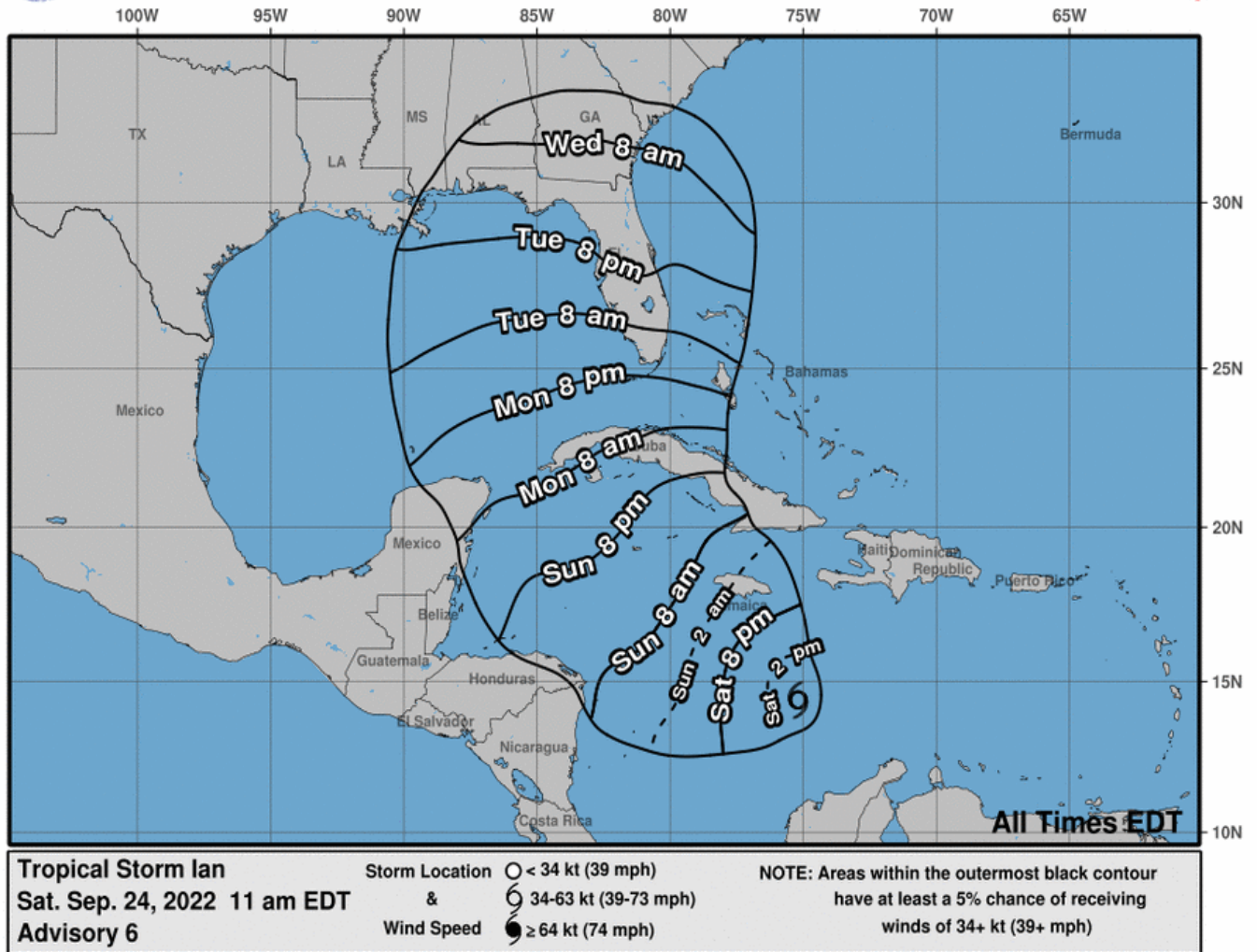


For more information go to hurricanes.gov

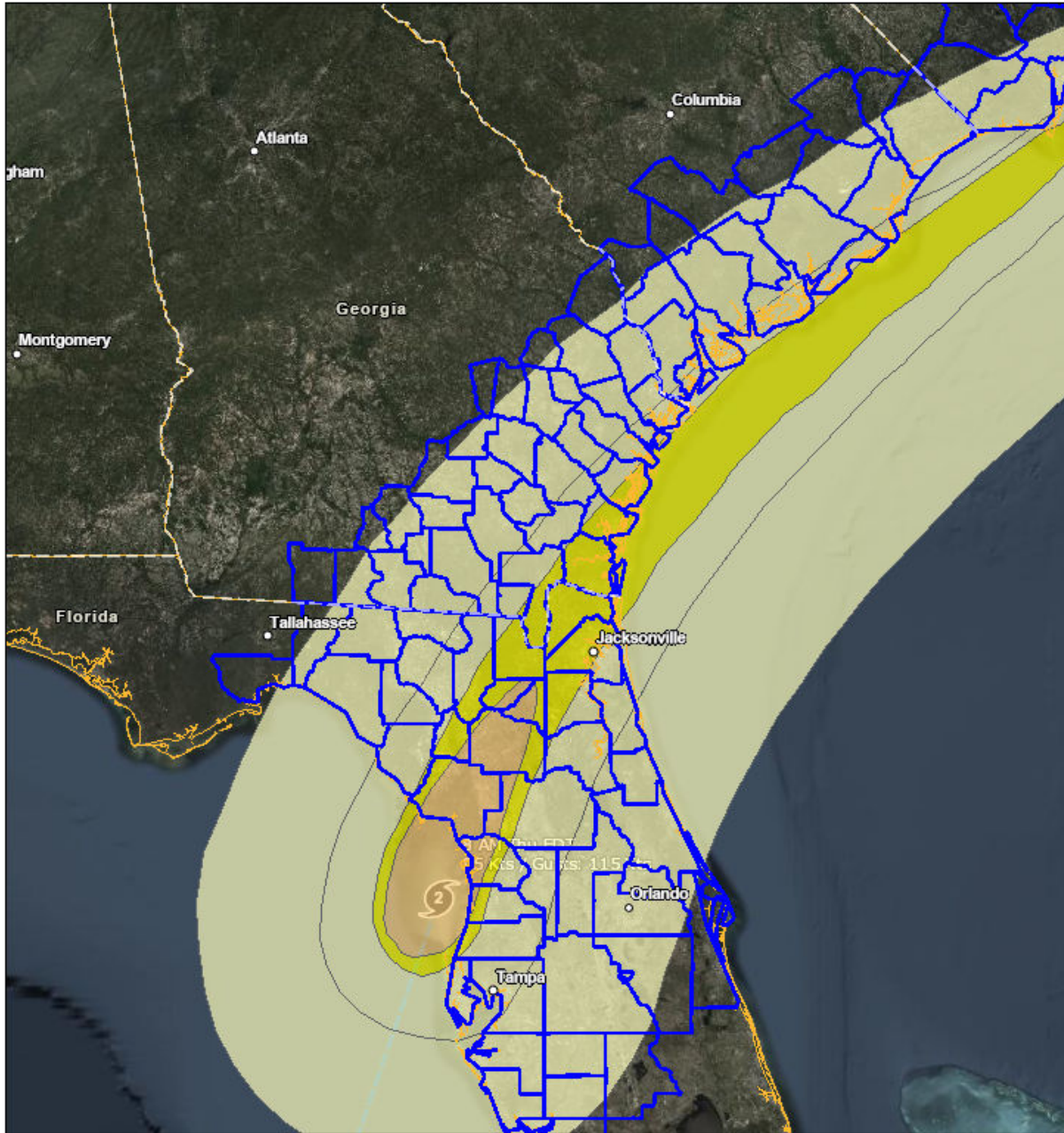




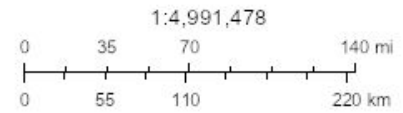
Earliest Reasonable Arrival Time of Tropical-Storm-Force Winds



Letter ANSI A Portrait



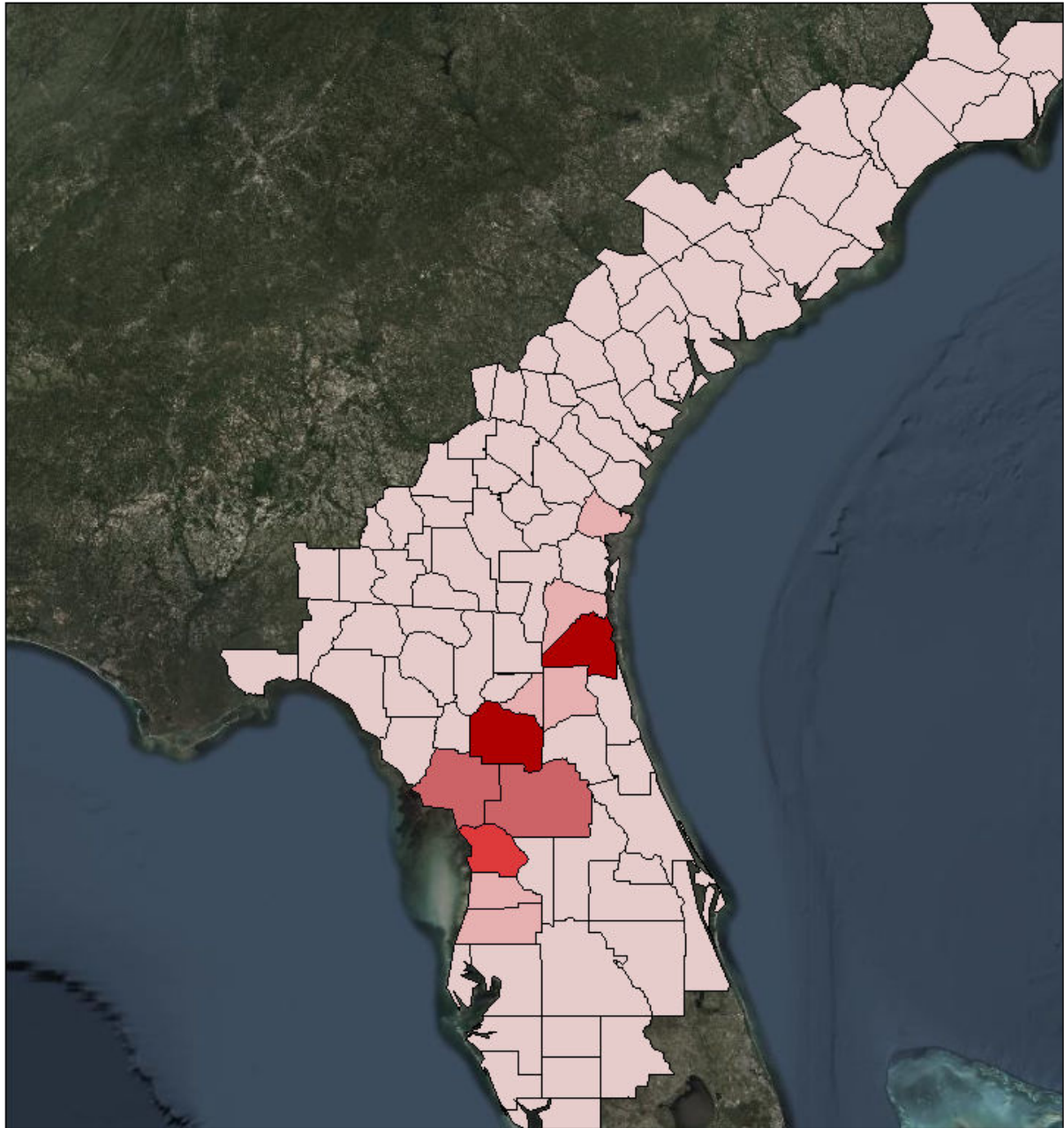
- Counties
- State Boundaries
- Mission Model Swaths
 - TS
 - Cat 1
 - Cat 2
- Tropical Cyclone Observed Surface Wind Swath
 - Observed (Best Track) Winds \geq 34 knots (39 mph)
 - Observed (Best Track) Winds \geq 50 knots (58 mph)
 - Observed (Best Track) Winds \geq 64 knots (74 mph)
- Observed (Best Track) Track Line
- Observed (Best Track) Center Position




FDEP, Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, Source: NOAA, Esri, NOAA/NOS/OCS nowCOAST, NOAA/NWS/NHC, NOAA/NWS/CPHC, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

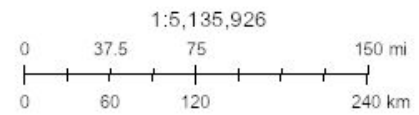
Created by SimSuite

Debris



Debris

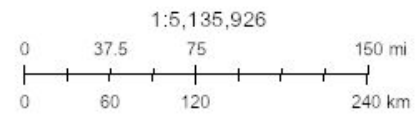
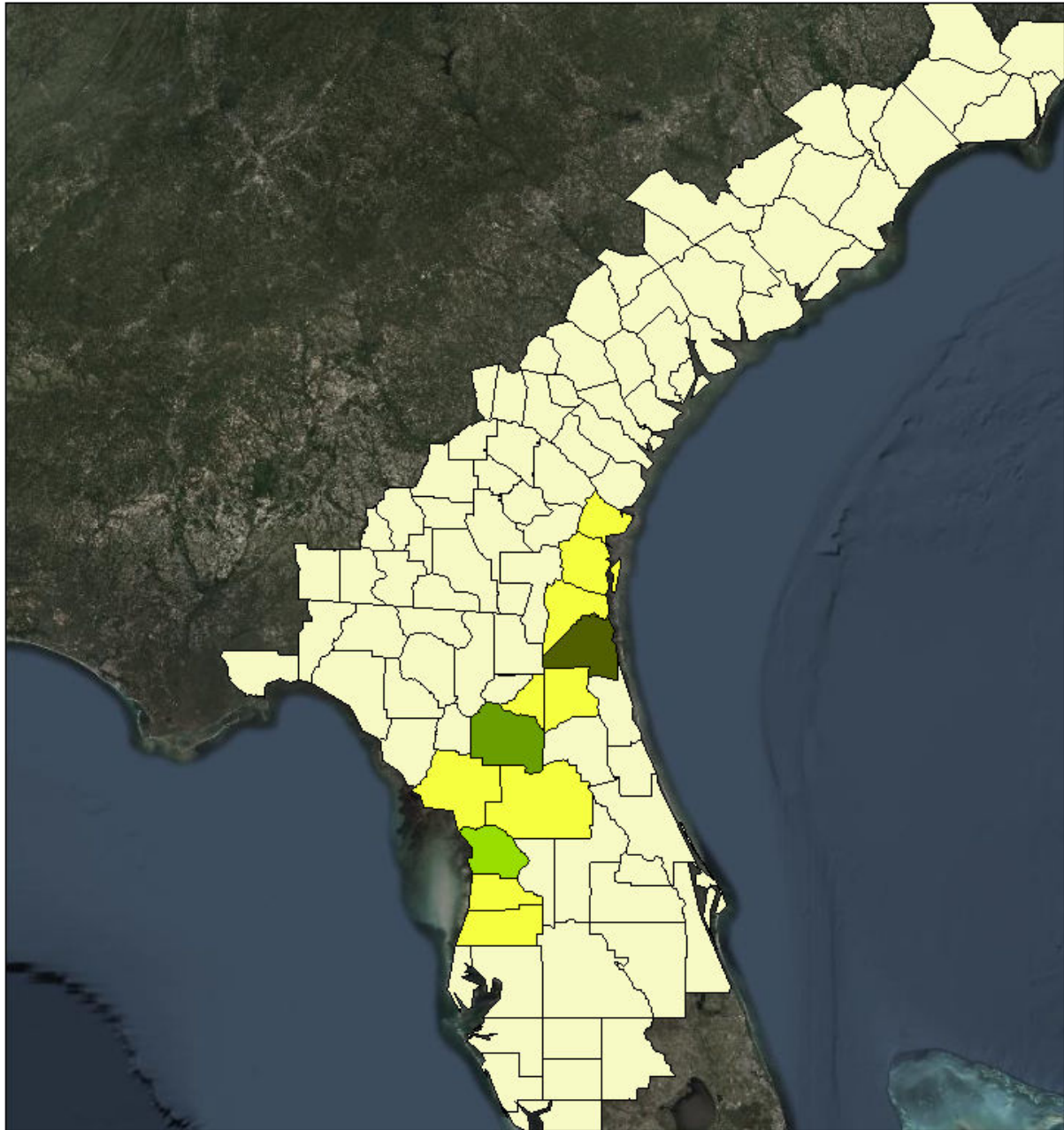
-  < 100,000 cubic yards
-  100,000 - 249,000 cubic yards
-  250,000 - 499,999 cubic yards
-  500,000 - 999,999 cubic yards



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Created by SimSuite

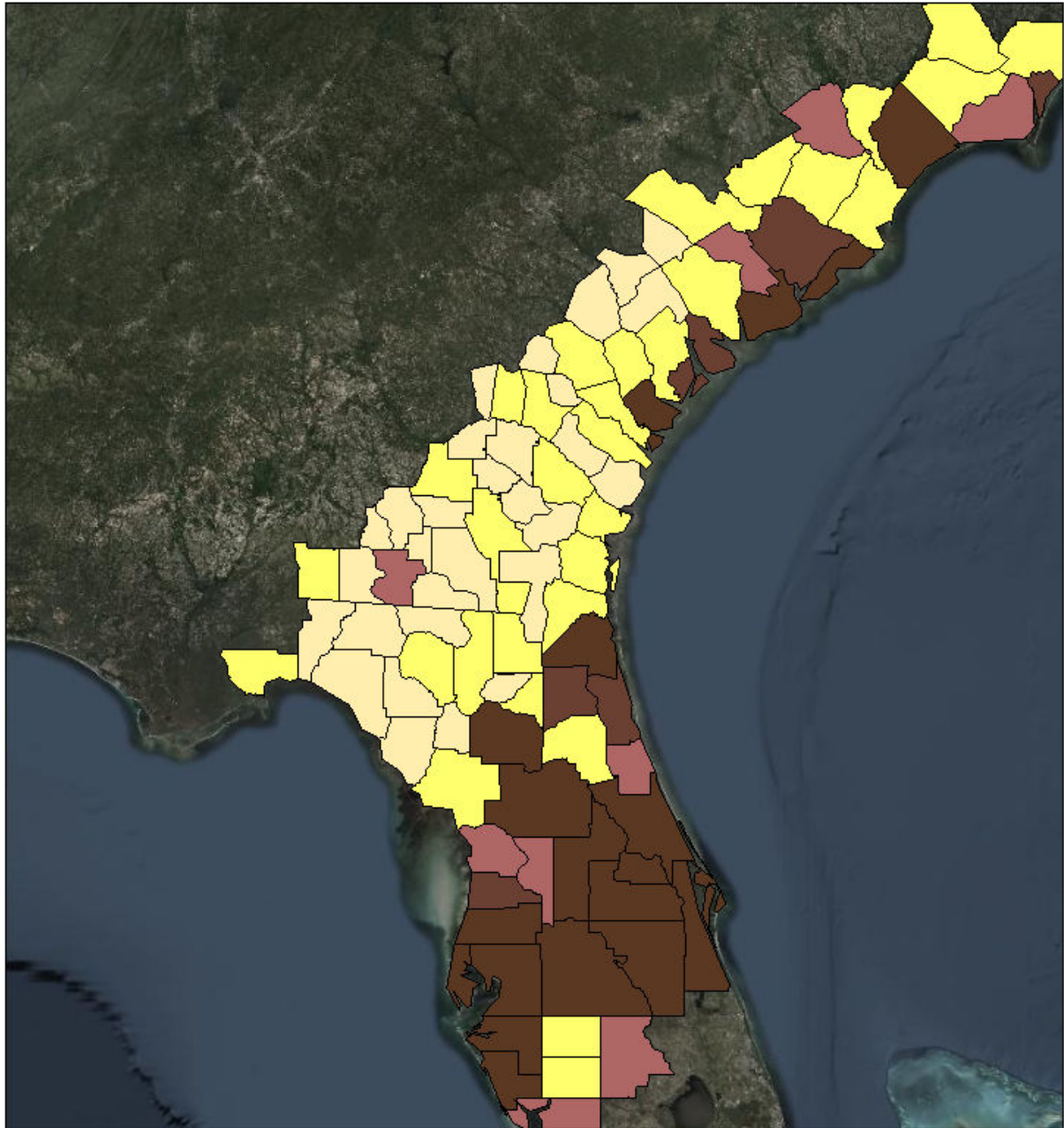
Est. Temp. Roofing



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

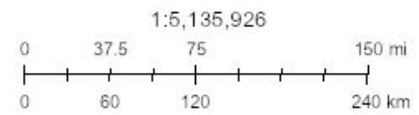
Created by SimSuite

Population



Population

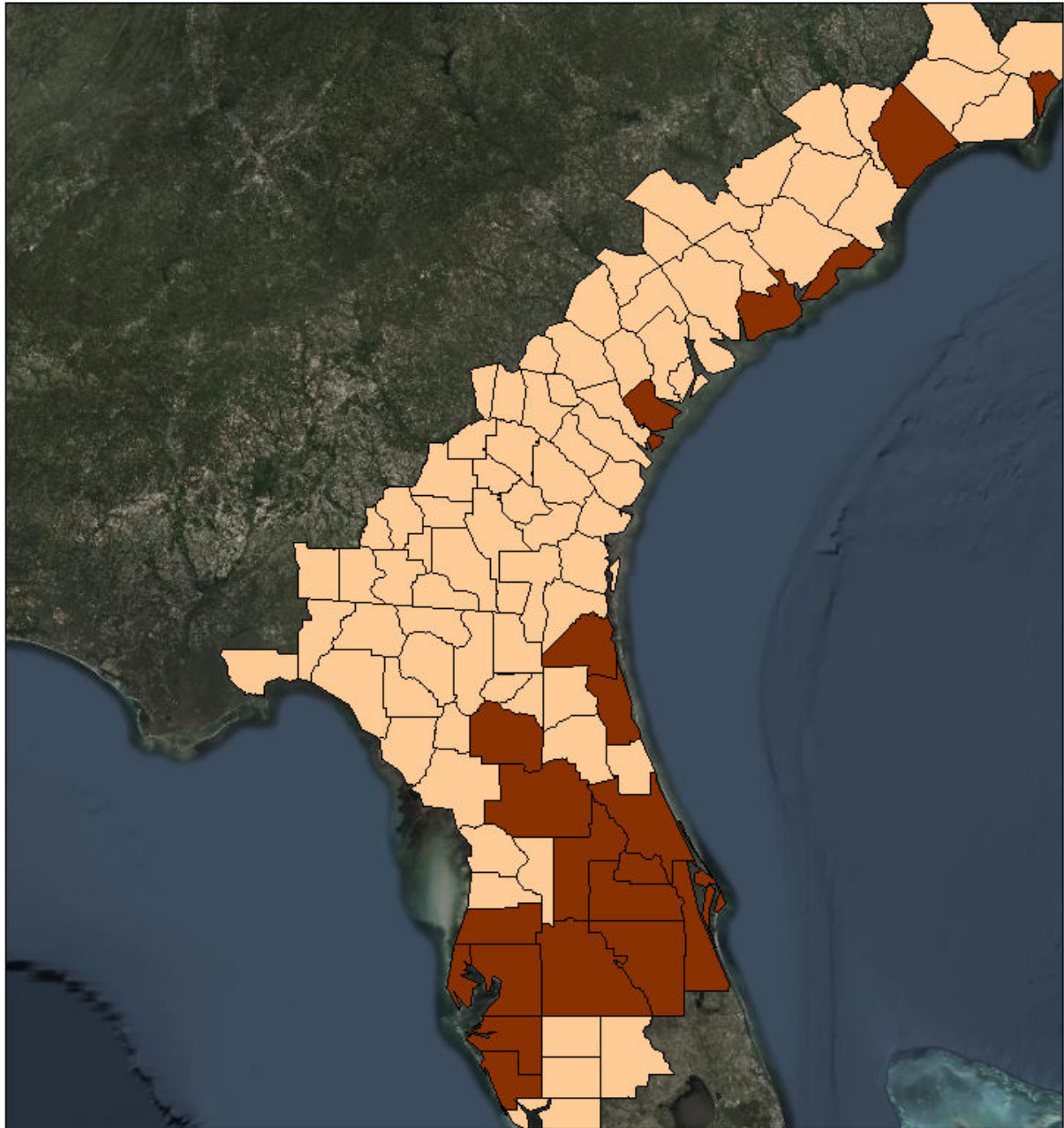
- < 25,000 persons
- 25,000 - 99,000 persons
- 100,000 - 174,999 persons
- 175,000 - 249,000 persons



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

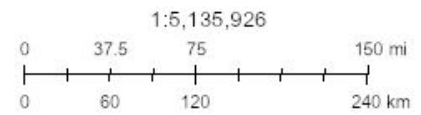
Created by SimSuite

Households



Households

- < 7,500 Households
- 15,000 - 24,999 Households
- 25,000 - 49,999 Households



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Created by SimSuite

Mission Summary



The mission models account for storm surge and wind damage only, but do not account for other related storm hazards that may affect the mission estimates.

Mission Summary	
Total Counties	28
Debris (cu. yd.)	5,387,680
Est. Temp. Roofing (units)	62,544
Act. Temp. Roofing (units)	20,639
Population	15,286,152
Households	5,527,010

Population Distribution	
Tropical Storm	12,230,413
Category 1	1,345,463
Category 2	365,283

FLORIDA	Yds of Debris (5,091,596)	Est. Roof Units (58,164)	Act. Roof Units (19,194)	Population (11,309,605)	Households (4,119,408)
Alachua	1,577,189	14,768	4,873	262,216	100,516
Baker	39,233	578	191	28,042	8,772
Bradford	133,046	1,298	428	26,996	9,479
Brevard	0	0	0	578,927	229,692
Charlotte	0	0	0	173,978	73,370
Citrus	614,297	5,851	1,931	144,825	63,304
Clay	200,673	2,969	980	209,524	68,792
Columbia	50,081	741	244	69,419	24,941
DeSoto	0	0	0	36,506	11,445
Dixie	1,644	24	8	16,299	6,316
Duval	1,172,805	17,349	5,725	932,755	342,450
Flagler	0	0	0	108,166	39,186
Gilchrist	37,610	454	150	17,436	6,121
Hamilton	0	0	0	14,344	4,617
Hardee	0	0	0	28,518	8,245
Hernando	205,152	2,311	763	182,273	71,745
Highlands	0	0	0	102,012	42,604
Hillsborough	0	0	0	1,382,695	474,030
Jefferson	0	0	0	14,547	5,646
Lafayette	0	0	0	8,476	2,580
Lake	0	0	0	339,742	121,289
Levy	296,615	2,703	892	41,097	16,404
Madison	0	0	0	18,862	6,985
Manatee	0	0	0	376,566	135,729
Marion	431,829	4,431	1,462	350,915	137,726
Nassau	145,986	2,160	713	80,628	28,794
Orange	0	0	0	1,332,714	421,847
Osceola	0	0	0	333,980	90,603
Pasco	125,322	1,854	612	512,082	189,612
Pinellas	9,692	143	47	968,279	415,876
Polk	0	0	0	662,431	227,485
Putnam	2,577	38	13	74,098	29,409
Sarasota	0	0	0	414,899	175,746
Seminole	0	0	0	457,650	164,706
St. Johns	0	0	0	238,439	75,338
Sumter	0	0	0	125,329	41,361
Suwannee	0	0	0	44,733	15,953
Taylor	0	0	0	22,641	7,920
Union	47,842	492	162	15,704	4,048
Volusia	0	0	0	528,719	208,236
Wakulla	0	0	0	32,143	10,490

GEORGIA	Yds of Debris (268,720)	Est. Roof Units (3,975)	Act. Roof Units (1,312)	Population (1,246,513)	Households (437,806)
Appling	0	0	0	18,451	6,969
Atkinson	0	0	0	9,278	2,983
Bacon	0	0	0	11,414	4,214
Berrien	0	0	0	19,179	7,443
Brantley	123	2	1	18,729	6,885
Brooks	0	0	0	15,810	6,457
Bryan	0	0	0	37,469	10,738
Bulloch	0	0	0	73,263	25,575
Camden	89,714	1,327	438	53,037	18,047
Candler	0	0	0	10,868	4,041
Charlton	9,562	141	47	13,121	3,927
Chatham	18,228	270	89	292,686	103,038
Clinch	0	0	0	6,915	2,572
Coffee	0	0	0	44,088	14,817
Cook	0	0	0	17,974	6,339
Echols	0	0	0	4,137	1,329
Effingham	0	0	0	60,602	18,092
Evans	0	0	0	11,202	4,033
Glynn	127,925	1,892	624	84,625	31,774
Jeff Davis	0	0	0	15,280	5,689
Lanier	0	0	0	10,158	3,608
Liberty	5,546	82	27	64,510	22,155
Long	0	0	0	18,728	5,023
Lowndes	0	0	0	114,022	39,747
McIntosh	15,538	230	76	13,862	5,971
Montgomery	0	0	0	9,422	3,287
Pierce	0	0	0	19,286	7,083
Screven	0	0	0	14,427	5,596
Tattnall	0	0	0	25,147	8,210
Thomas	0	0	0	46,458	17,573
Toombs	0	0	0	27,659	10,375
Ware	2,085	31	10	35,094	13,654
Wayne	0	0	0	29,612	10,562

NORTH CAROLINA	Yds of Debris (0)	Est. Roof Units (0)	Act. Roof Units (0)	Population (937,856)	Households (339,477)
Bladen	0	0	0	35,031	14,430
Brunswick	0	0	0	129,300	46,297
Carteret	0	0	0	71,014	28,870
Columbus	0	0	0	57,071	22,489
Craven	0	0	0	105,595	40,299
Dare	0	0	0	36,888	14,335
Hyde	0	0	0	5,432	2,119
Jones	0	0	0	10,345	4,167
New Hanover	0	0	0	225,895	86,046
Onslow	0	0	0	201,435	60,092
Pender	0	0	0	59,850	20,333

SOUTH CAROLINA	Yds of Debris (27,364)	Est. Roof Units (405)	Act. Roof Units (134)	Population (1,792,178)	Households (630,319)
Allendale	0	0	0	9,774	3,706
Bamberg	0	0	0	15,050	6,048
Beaufort	624	9	3	187,450	64,945
Berkeley	0	0	0	207,154	65,419
Charleston	26,339	390	129	403,176	144,309
Clarendon	0	0	0	34,844	13,132
Colleton	0	0	0	38,408	15,131
Dorchester	0	0	0	157,283	50,259
Florence	0	0	0	140,540	52,653
Georgetown	400	6	2	62,847	24,524
Hampton	0	0	0	21,006	7,598
Horry	0	0	0	327,500	112,225
Jasper	0	0	0	30,101	8,517
Marion	0	0	0	32,432	13,058
Orangeburg	0	0	0	91,282	35,788
Williamsburg	0	0	0	33,331	13,007

Critical Infrastructure (old)

Summary			
Total Critical Facilities		0	
Power Requirements (kW)		0.0	
Range (kW)			
Communications	# FED Gen Req	Range (kW)	Req kW
AM Antennas (0)	0.0	35 - 75	0.0
Cellular Towers (0)	0.0	35 - 75	0.0
FM Antennas (0)	0.0	35 - 75	0.0
Education	# FED Gen Req	Range (kW)	Req kW
Private Schools (0)	0.0	200 - 300	0.0
Public Schools (0)	0.0	200 - 300	0.0
Colleges and Universities (0)	0.0	200 - 300	0.0
Emergency Services	# FED Gen Req	Range (kW)	Req kW
911 Call Centers (0)	0.0	15 - 35	0.0
Emergency Medical Service (0)	0.0	15 - 35	0.0
Fire Stations (0)	0.0	15 - 35	0.0
Service Providers (0)	0.0	0 - 0	0.0
Healthcare	# FED Gen Req	Range (kW)	Req kW
Nursing Homes (0)	0.0	35 - 100	0.0
Hospitals (0)	0.0	800 - 2000	0.0
Urgent Care Facilities (0)	0.0	200 - 300	0.0
Military	# FED Gen Req	Range (kW)	Req kW
Air National Guard (ANG) Sites (0)	0.0	15 - 35	0.0
Army National Guard (ARNG) Sites (0)	0.0	15 - 35	0.0
National Security Government Military Facilities (0)	0.0	15 - 35	0.0
Law Enforcement	# FED Gen Req	Range (kW)	Req kW
Prison Points (0)	0.0	400 - 600	0.0
Local Police (0)	0.0	15 - 35	0.0
State Police (0)	0.0	15 - 35	0.0
Correctional Facilities (0)	0.0	400 - 600	0.0
State and Local EOC	# FED Gen Req	Range (kW)	Req kW
Local Emergency Operations Centers (0)	0.0	15 - 40	0.0
State Emergency Operation Centers (EOCs) (0)	0.0	15 - 35	0.0

State Facilities	# FED Gen Req	Range (kW)	Req kW
Governors Mansion (0)	0.0	100 - 200	0.0
Major State Government Building (0)	0.0	100 - 200	0.0

Transportation	# FED Gen Req	Range (kW)	Req kW
Ports (0)	0.0	600 - 1200	0.0
Amtrak Stations (0)	0.0	100 - 300	0.0
Bus Stations (0)	0.0	100 - 300	0.0
Intermodal Terminal Facilities (0)	0.0	100 - 300	0.0
Railroad Stations (0)	0.0	100 - 300	0.0
Public-Use Airports (0)	0.0	40 - 100	0.0

Water	# FED Gen Req	Range (kW)	Req kW
Water Treatment Facilities (0)	0.0	800 - 2000	0.0
Wastewater Treatment Plants (0)	0.0	800 - 2000	0.0

Report Generated by SimSuite

<https://simsuite.usace.army.mil/wab/v2.15/MissionModels/index.html#advId=260&oid=84&name=Hurricane%20Ian&advisory=Advisory%20%236&advlf=G>