US Army Corps of Engineers
BUILDING STRONG

Hurricane Ian Advisory #17

For Planning Purposes Only!

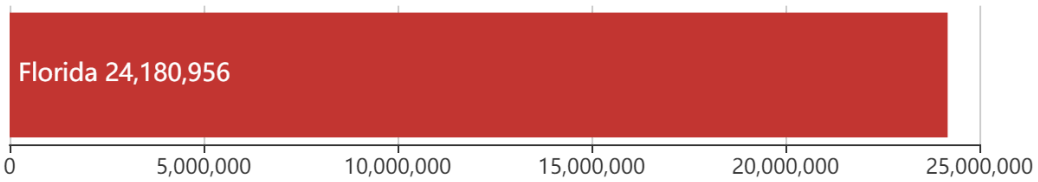
WASHINGTON, DC	CHICAGO	LOS ANGELES
07:17:04	06:17:04	04:17:04
27 Sep 2022	27 Sep 2022	27 Sep 2022

https://simsuite.usace.army.mil/wab/v2.15/MissionModels/index.html#advid=268&oid=84&name=Hurricane%20Ian&advisory=Advisory%20%2317&advlf=G

Updated as of 27 Sep 2022 (6:17 AM Central Daylight Time)

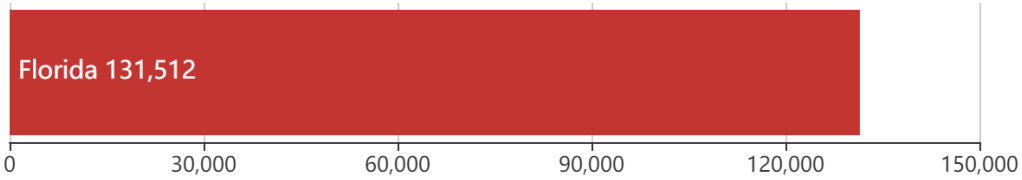
Debris

24.2M
cu. yd.



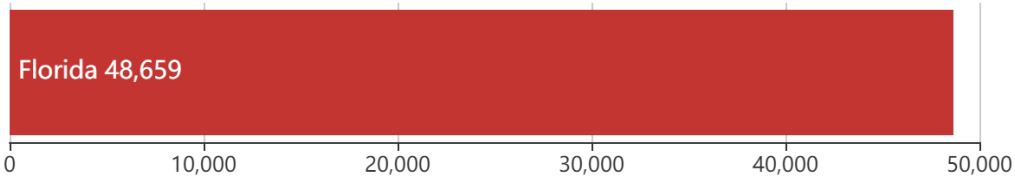
Temp. Roofing (eligible)

131.5K
units



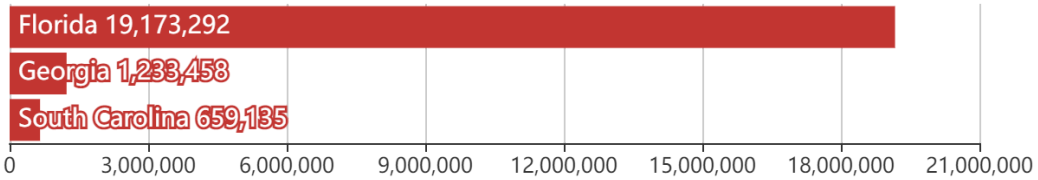
Temp. Roofing (actual)

48.7K
units



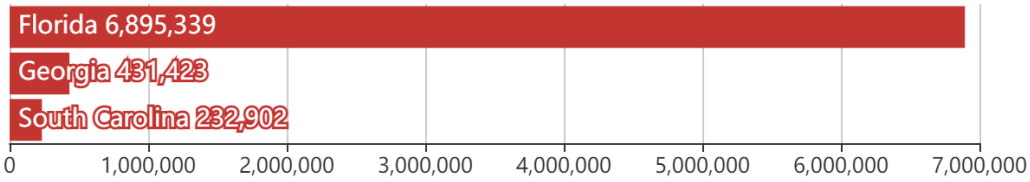
Population

21.1M
people



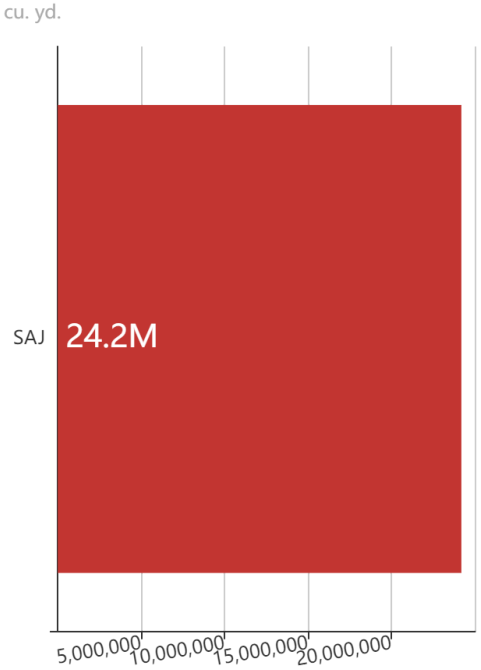
Households

7.6M
households

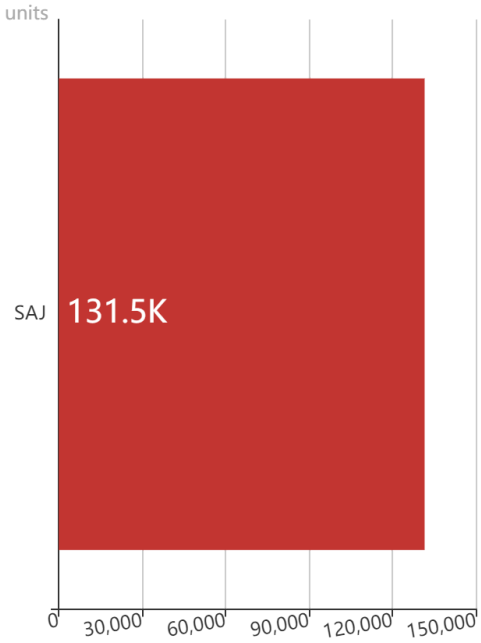


Mission Model Summary

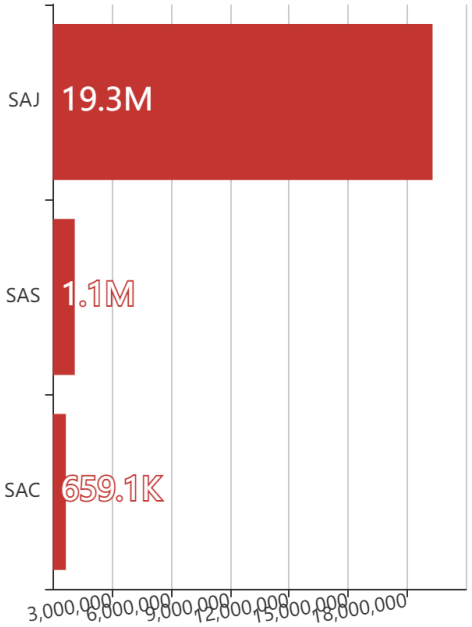
Debris By USACE District



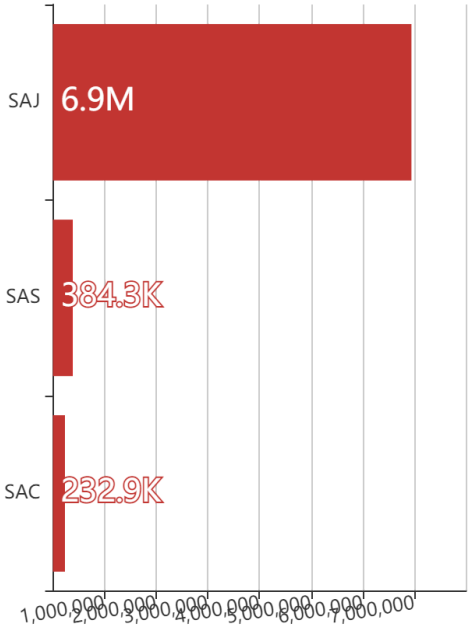
Est. Temp. Roofing By USACE District



Population By USACE District

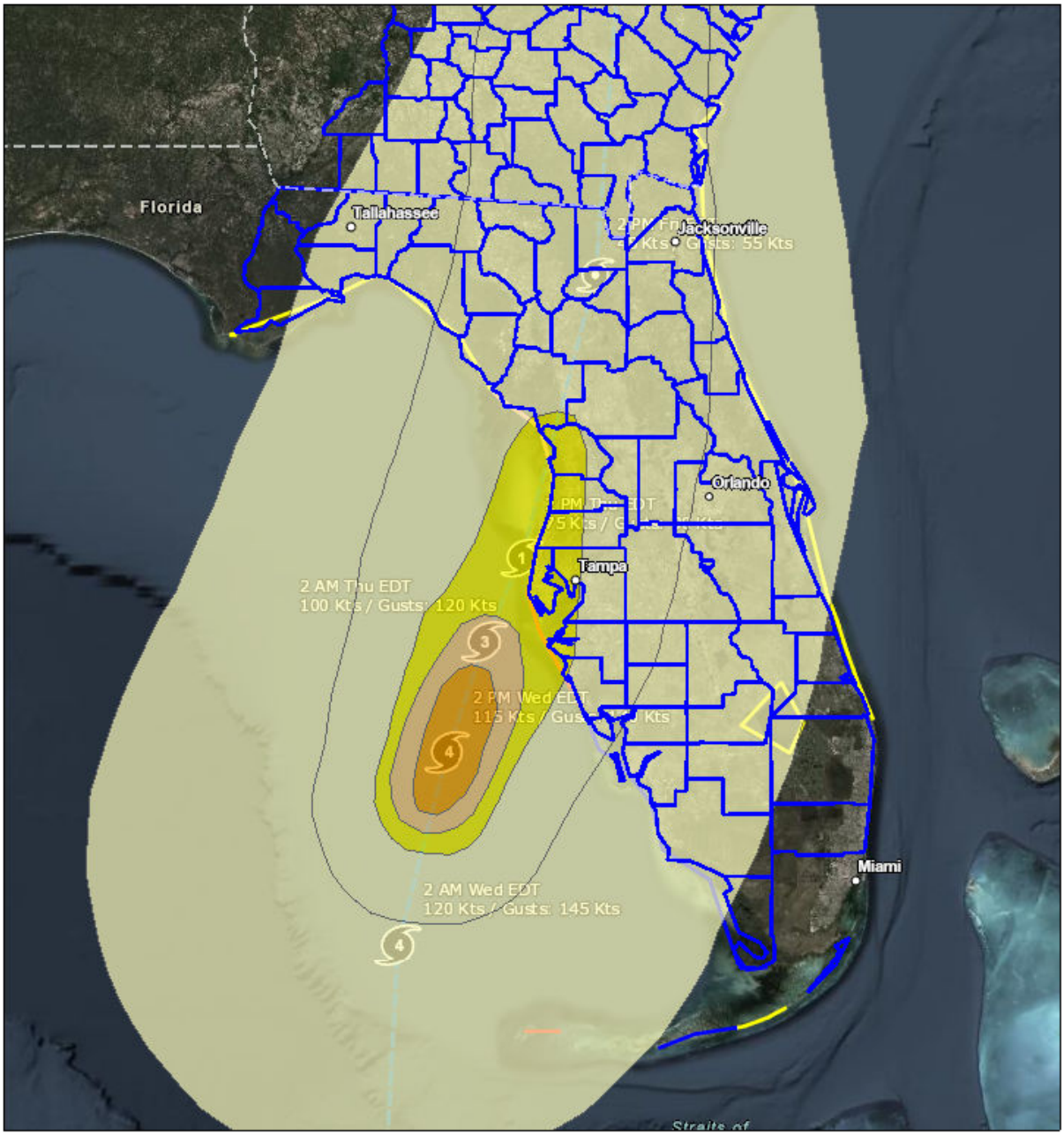


Households By USACE District



Critical Infrastructure Summary

Letter ANSI A Portrait



Counties

Mission Model Swaths

- TS
- Cat 1
- Cat 2
- Cat 3

Tropical Cyclone Observed Surface Wind Swath

- Observed (Best Track) Winds >= 34 knots (39 mph)
- Observed (Best Track) Winds >= 50 knots (58 mph)
- Observed (Best Track) Winds >= 64 knots (74 mph)
- Observed (Best Track) Track Line
- Observed (Best Track) Center Position

1:4,991,478

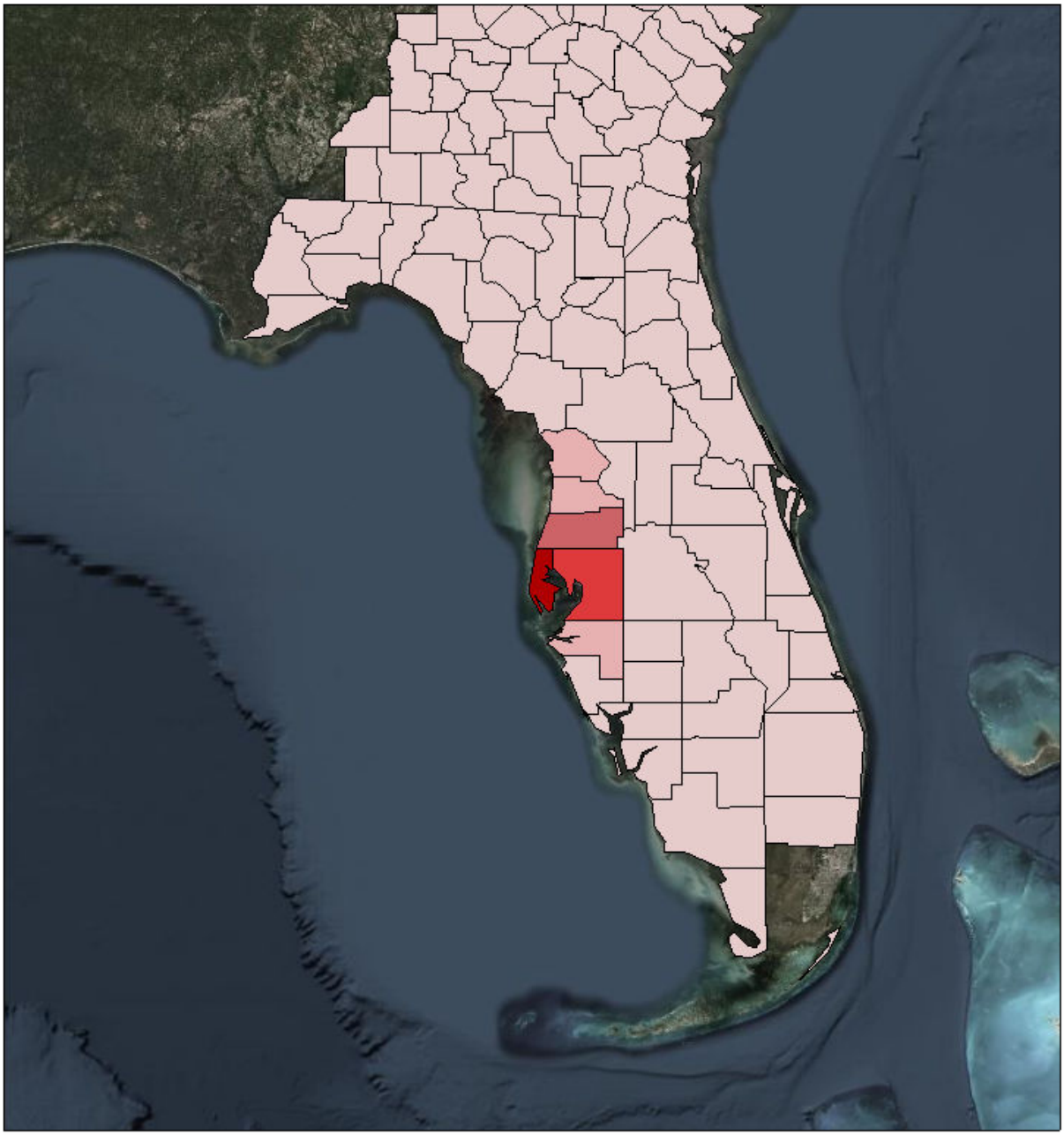
0 37.5 75 150 mi

0 60 120 240 km

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

1:5,135,926

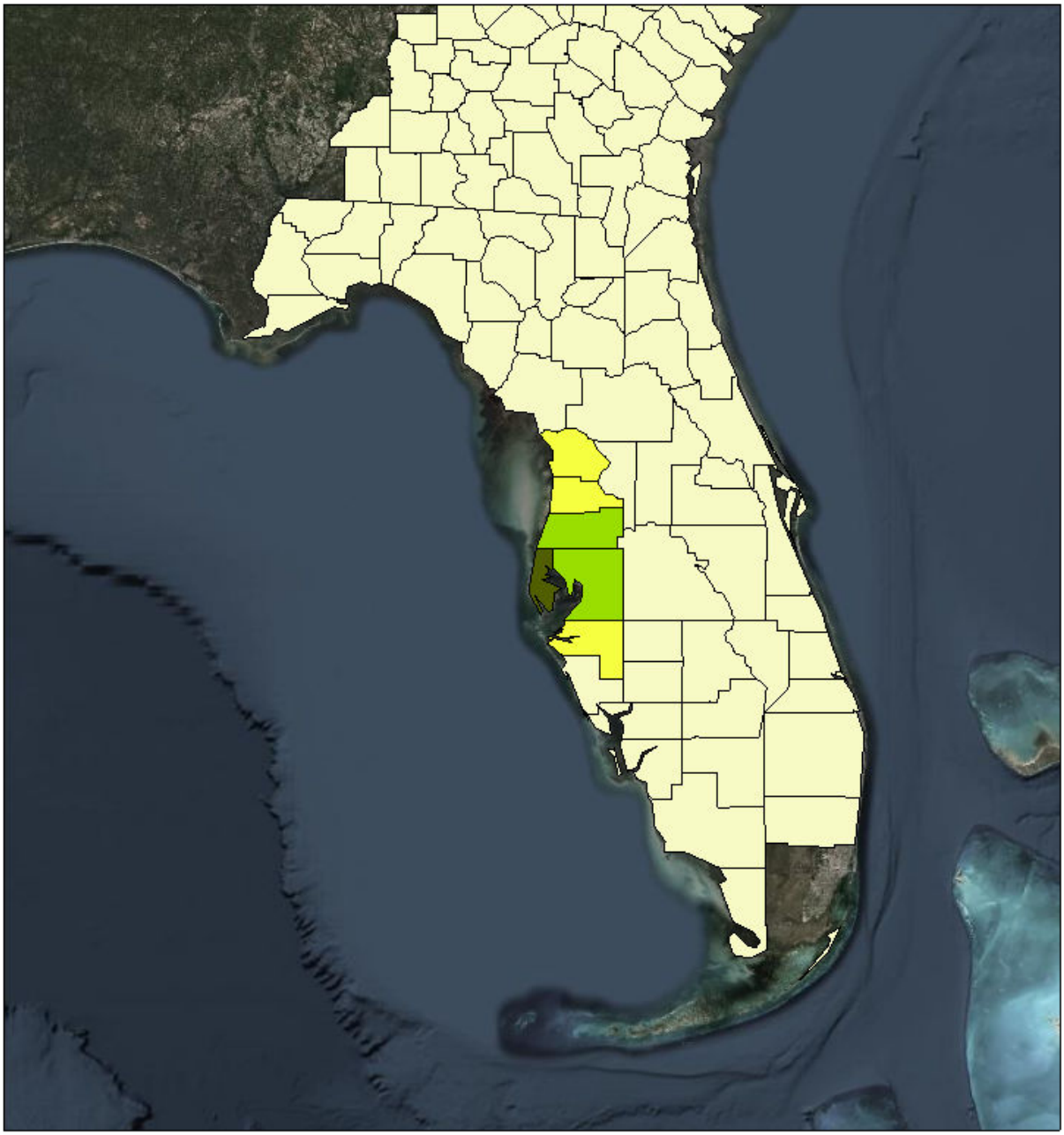
0 37.5 75 150 mi

0 62.5 125 250 km

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

Created by SimSuite

Est. Temp. Roofing



Est. Temp. Roofing

- < 1000 units
- 1000 - 4999 units
- 5000 - 9999 units

1:5,135,926

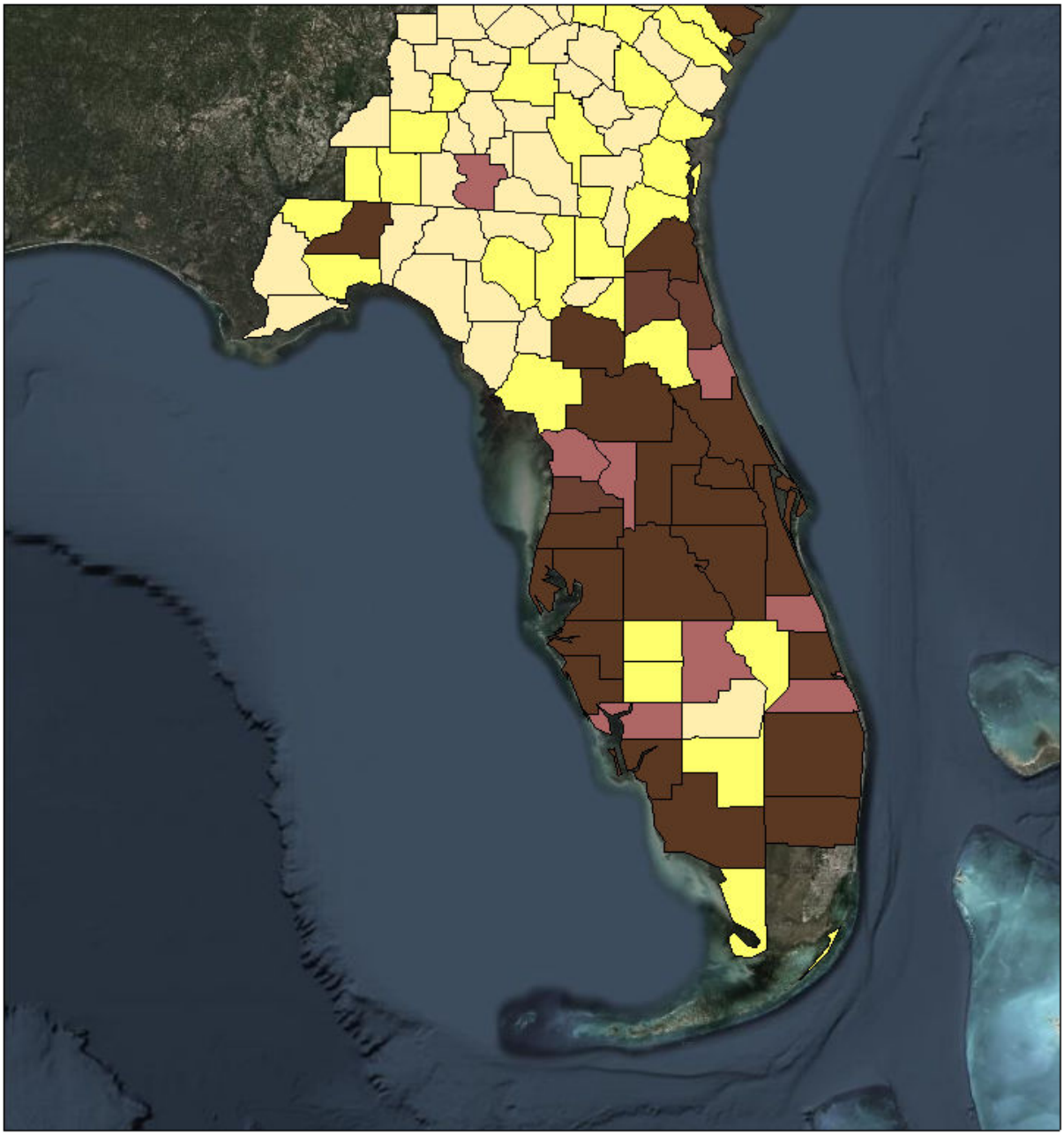
0 37.5 75 150 mi

0 62.5 125 250 km

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

Created by SimSuite

Population



1:5,135,926

0 37.5 75 150 mi

0 62.5 125 250 km

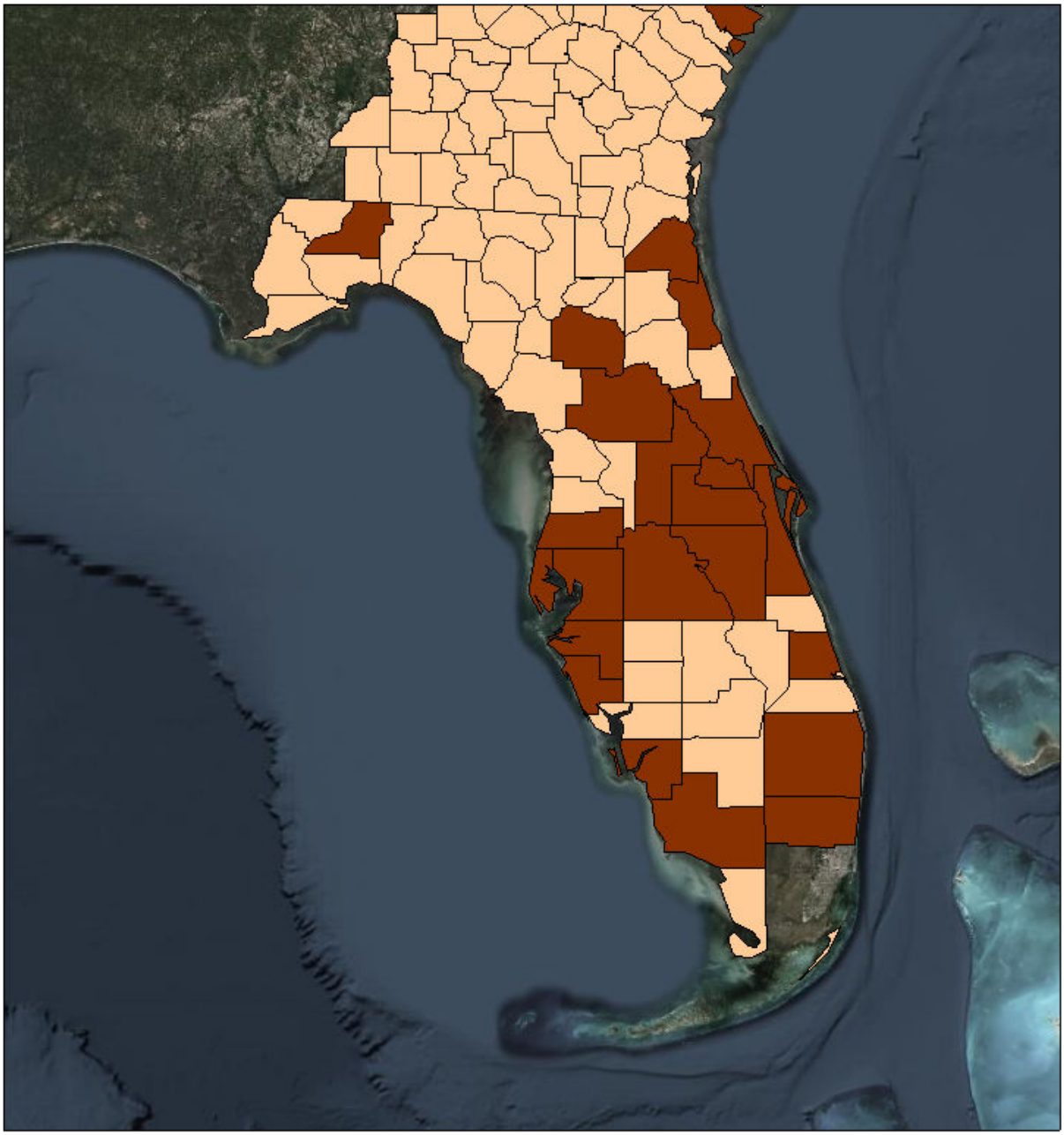
Population

- < 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

1:5,135,926

0 37.5 75 150 mi

0 62.5 125 250 km

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	12
Debris (cu. yd.)	24,180,956
Est. Temp. Roofing (units)	131,512
Act. Temp. Roofing (units)	48,659
Population	21,065,885
Households	7,559,664

Population Distribution	
Tropical Storm	12,361,258
Category 1	1,004,536
Category 2	1,718,675
Category 3	1,354,779

FLORIDA	Yds of Debris (24,180,956)	Est. Roof Units (131,512)	Act. Roof Units (48,659)	Population (19,173,292)	Households (6,895,339)
Alachua	0	0	0	262,216	100,516
Baker	0	0	0	28,042	8,772
Bradford	0	0	0	26,996	9,479
Brevard	0	0	0	578,927	229,692
Broward	0	0	0	1,883,555	686,047
Charlotte	14,153	210	78	173,978	73,370
Citrus	0	0	0	144,825	63,304
Clay	0	0	0	209,524	68,792
Collier	0	0	0	368,652	133,179
Columbia	0	0	0	69,419	24,941
DeSoto	1,305	19	7	36,506	11,445
Dixie	0	0	0	16,299	6,316
Duval	0	0	0	932,755	342,450
Flagler	0	0	0	108,166	39,186
Gilchrist	0	0	0	17,436	6,121
Glades	0	0	0	13,588	4,533
Hamilton	0	0	0	14,344	4,617
Hardee	9,062	122	45	28,518	8,245
Hendry	0	0	0	39,553	12,025
Hernando	66,217	978	362	182,273	71,745
Highlands	0	0	0	102,012	42,604
Hillsborough	10,153,345	48,793	18,054	1,382,695	474,030
Indian River	0	0	0	149,718	60,176

Jefferson	0	0	0	14,547	5,646
Lafayette	0	0	0	8,476	2,580
Lake	43,461	645	239	339,742	121,289
Lee	0	0	0	720,426	259,818
Levy	0	0	0	41,097	16,404
Madison	0	0	0	18,862	6,985
Manatee	2,873,529	13,025	4,819	376,566	135,729
Marion	0	0	0	350,915	137,726
Martin	0	0	0	156,333	63,899
Miami-Dade	0	0	0	2,702,302	867,352
Monroe	0	0	0	77,537	32,629
Nassau	0	0	0	80,628	28,794
Okeechobee	0	0	0	39,837	14,013
Orange	0	0	0	1,332,714	421,847
Osceola	0	0	0	333,980	90,603
Palm Beach	0	0	0	1,441,728	544,227
Pasco	1,253,536	12,136	4,490	512,082	189,612
Pinellas	6,869,283	36,560	13,527	968,279	415,876
Polk	428,887	4,925	1,822	662,431	227,485
Putnam	0	0	0	74,098	29,409
Sarasota	2,408,775	13,219	4,891	414,899	175,746
Seminole	0	0	0	457,650	164,706
St. Johns	0	0	0	238,439	75,338
St. Lucie	0	0	0	302,601	108,523
Sumter	59,404	878	325	125,329	41,361
Suwannee	0	0	0	44,733	15,953
Taylor	0	0	0	22,641	7,920
Union	0	0	0	15,704	4,048
Volusia	0	0	0	528,719	208,236

GEORGIA	Yds of Debris (0)	Est. Roof Units (0)	Act. Roof Units (0)	Population (1,233,458)	Households (431,423)
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	0	0	0	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	0	0	0	53,037	18,047
Candler	0	0	0	10,868	4,041
Charlton	0	0	0	13,121	3,927
Chatham	0	0	0	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	0	0	0	84,625	31,774
Irwin	0	0	0	9,302	3,495
Jeff Davis	0	0	0	15,280	5,689
Lanier	0	0	0	10,158	3,608
Liberty	0	0	0	64,510	22,155
Long	0	0	0	18,728	5,023
Lowndes	0	0	0	114,022	39,747
McIntosh	0	0	0	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
Telfair	0	0	0	16,196	5,543
Toombs	0	0	0	27,659	10,375
Ware	0	0	0	35,094	13,654
Wayne	0	0	0	29,612	10,562
Wheeler	0	0	0	7,905	2,152

SOUTH CAROLINA	Yds of Debris (0)	Est. Roof Units (0)	Act. Roof Units (0)	Population (659,135)	Households (232,902)
Beaufort	0	0	0	187,450	64,945
Charleston	0	0	0	403,176	144,309
Colleton	0	0	0	38,408	15,131
Jasper	0	0	0	30,101	8,517

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=268&oid=84&name=Hurricane%20Ian&advisory=Advisory%20%2317&advlf=G