



US Army Corps of Engineers  
BUILDING STRONG®

# Hurricane Ian Advisory #18

For Planning Purposes Only!

WASHINGTON, DC  
13:12:18  
27 Sep 2022

CHICAGO  
12:12:18  
27 Sep 2022

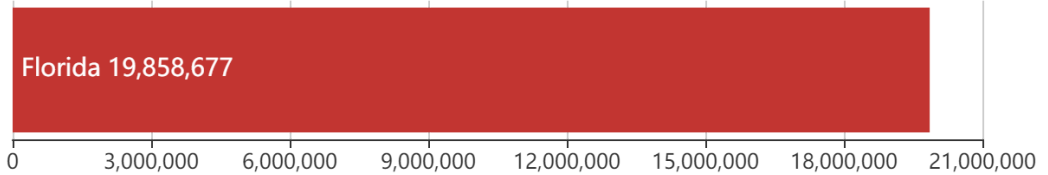
LOS ANGELES  
10:12:18  
27 Sep 2022

<https://simsuite.usace.army.mil/wab/v2.15/MissionModels/index.html#advid=269&oid=84&name=Hurricane%20Ian&advisory=Advisory%20%2318&advf=G>

Updated as of 27 Sep 2022 (12:12 PM Central Daylight Time)

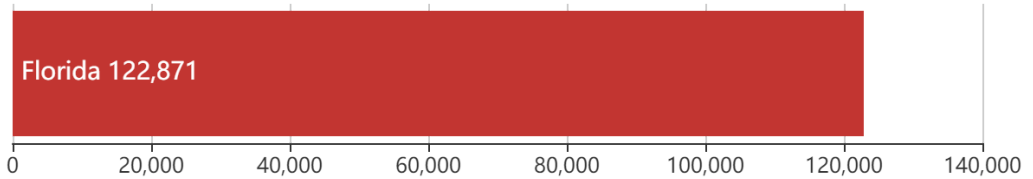
## Debris

19.9M  
cu. yd.



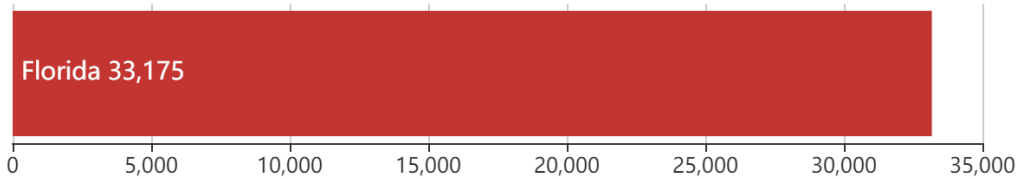
## Temp. Roofing (eligible)

122.9K  
units



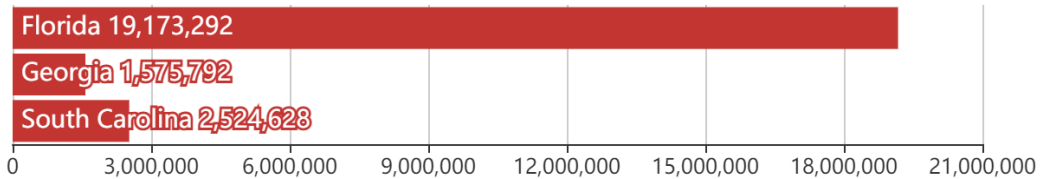
## Temp. Roofing (actual)

33.2K  
units



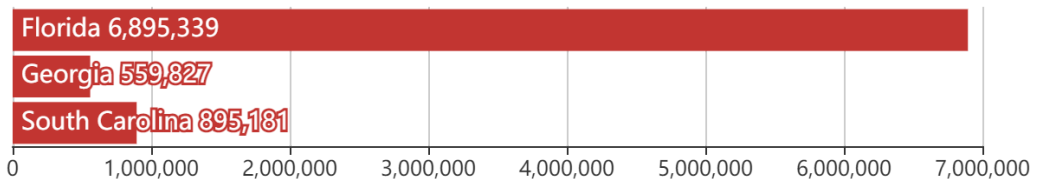
## Population

23.3M  
people



## Households

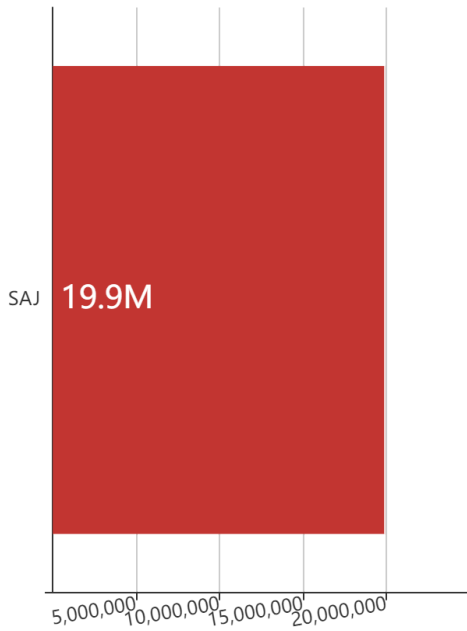
8.4M  
households



## Mission Model Summary

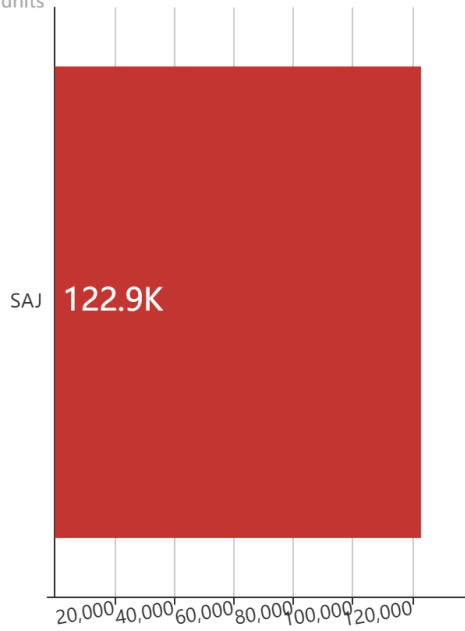
### Debris By USACE District

cu. yd.

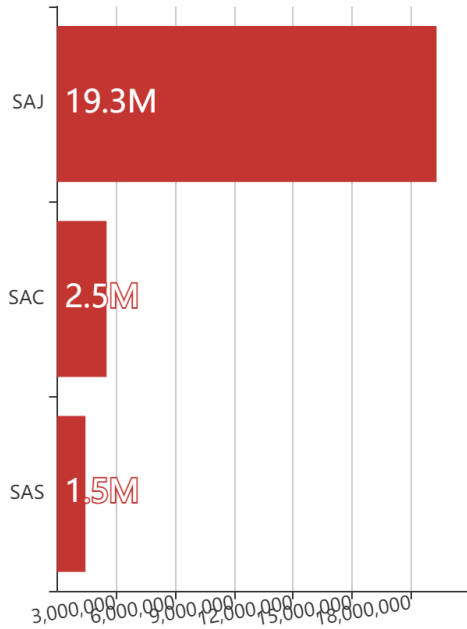


### Est. Temp. Roofing By USACE District

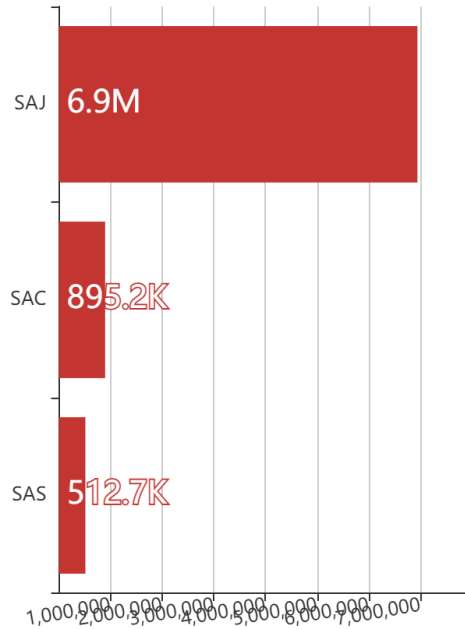
units



### Population By USACE District



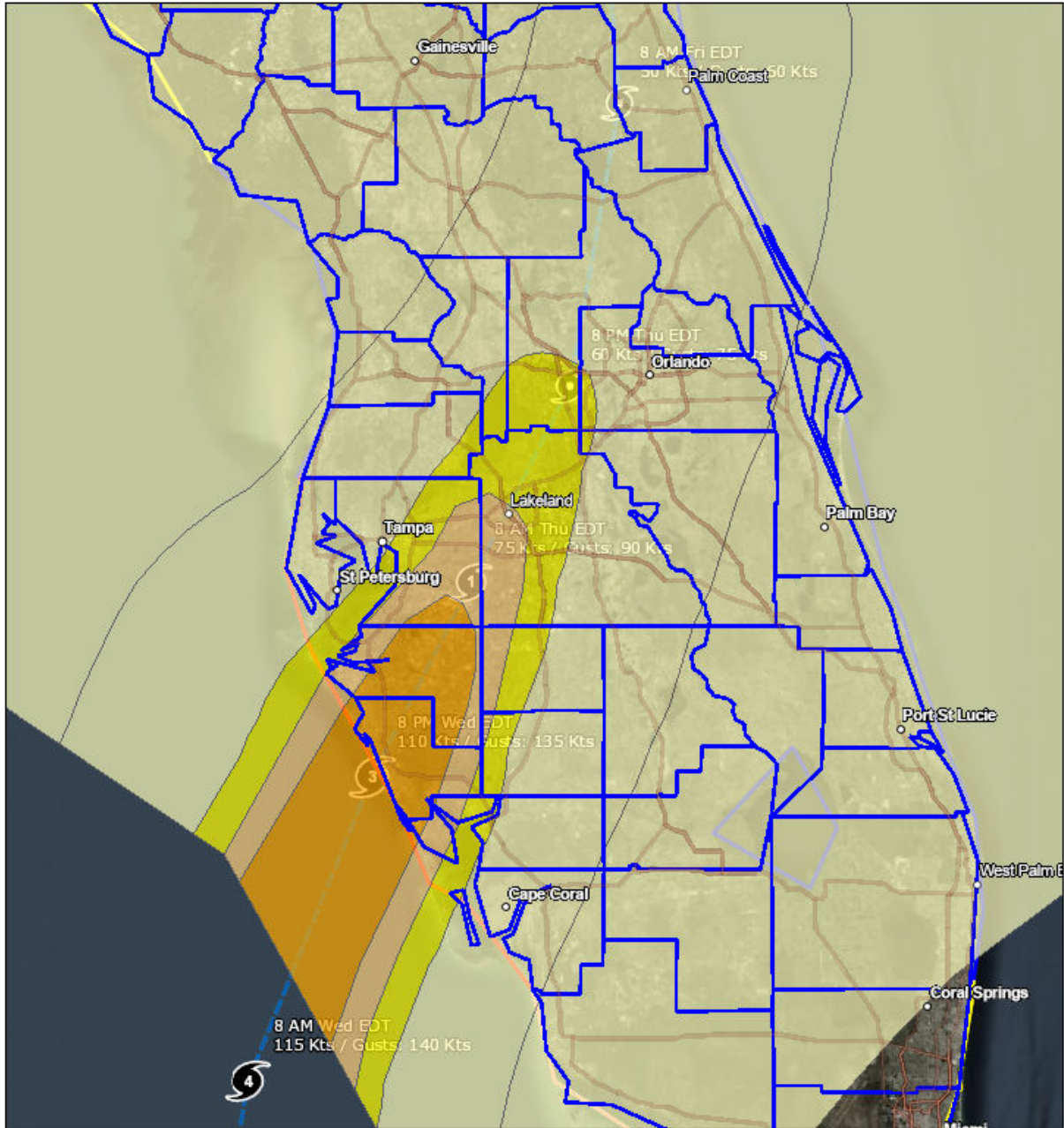
### Households By USACE District



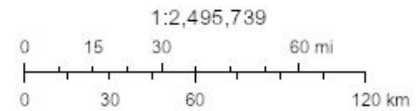
## Critical Infrastructure Summary



# Letter ANSI A Portrait



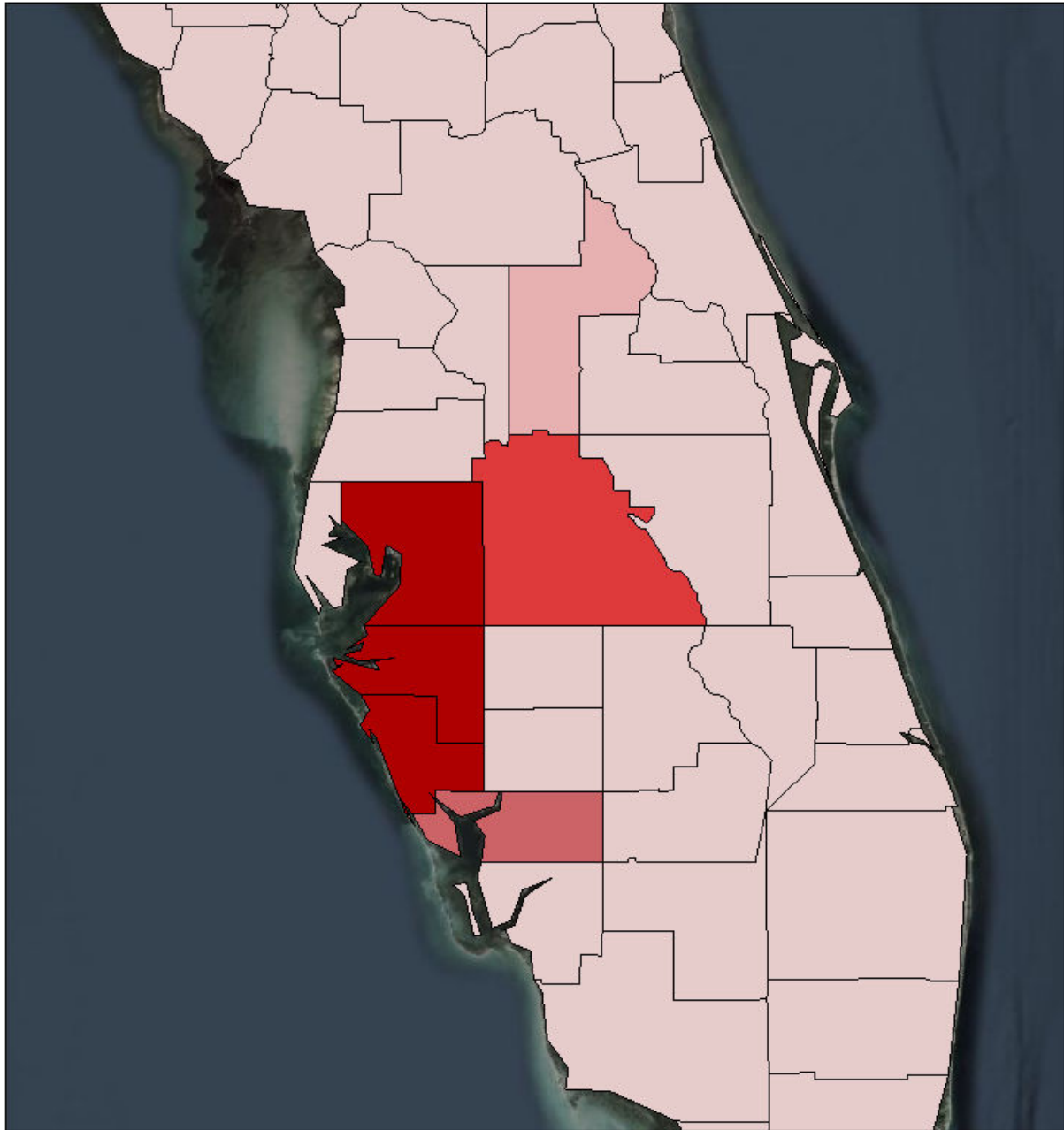
- Counties
- Mission Model Swaths
  - TS
  - Cat 1
  - Cat 2
  - Cat 3
- Tropical Cyclone Observed Surface Wind Swath
  - Observed (Best Track) Winds  $\geq$  34 knots (39 mph)
  - Observed (Best Track) Winds  $\geq$  50 knots (58 mph)
  - Observed (Best Track) Winds  $\geq$  64 knots (74 mph)
  - Observed (Best Track) Track Line
  - Observed (Best Track) Center Position







Source: NOAA, Esri, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, University of South Florida, FDEP, Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, NPS

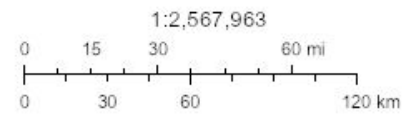
Created by SimSuite

# Debris



## Debris

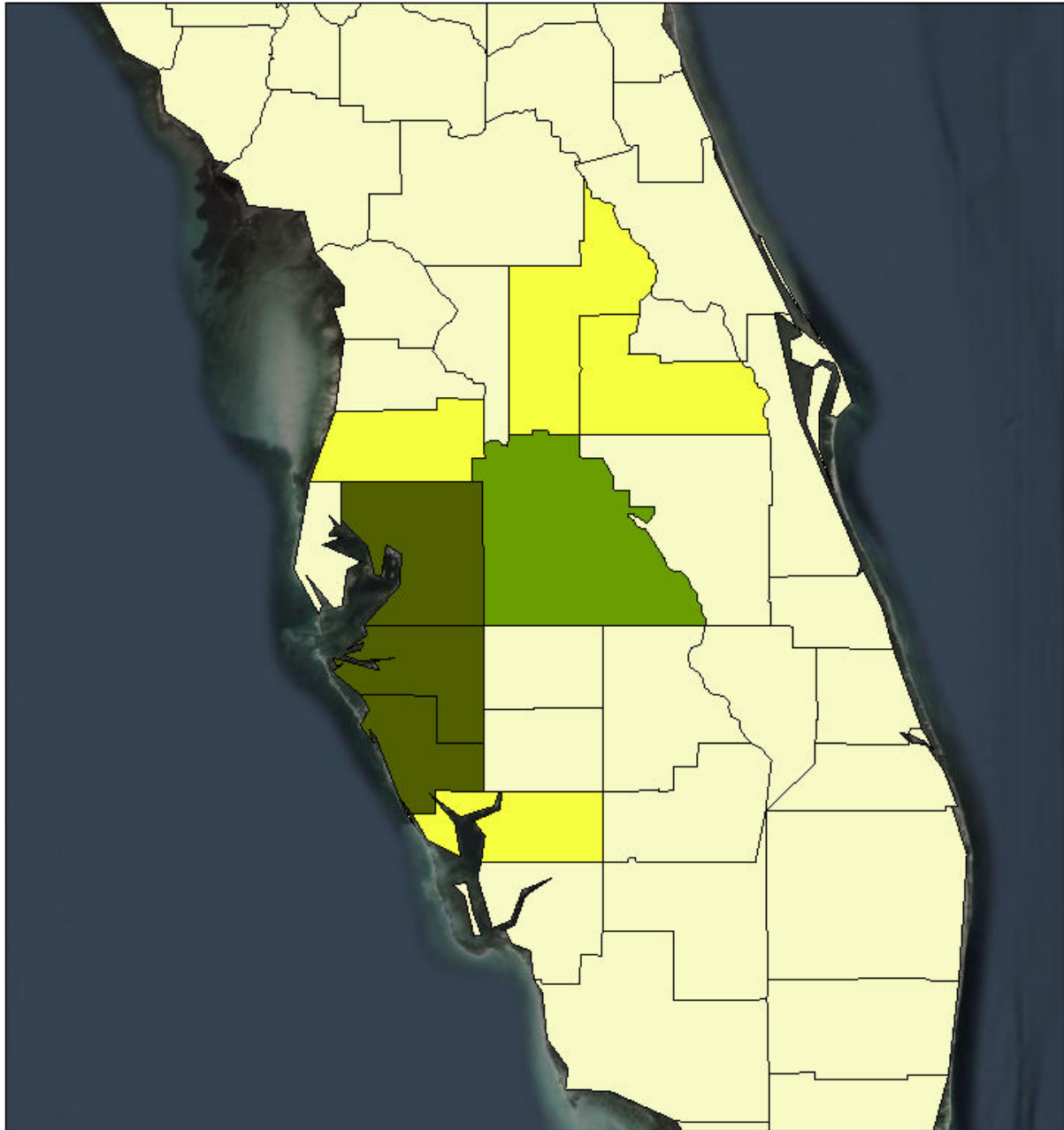
-  < 100,000 cubic yards
-  100,000 - 249,000 cubic yards
-  250,000 - 499,999 cubic yards
-  500,000 - 999,999 cubic yards



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

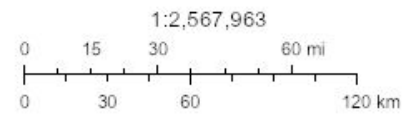
Created by SimSuite

# Est. Temp. Roofing



## Est. Temp. Roofing

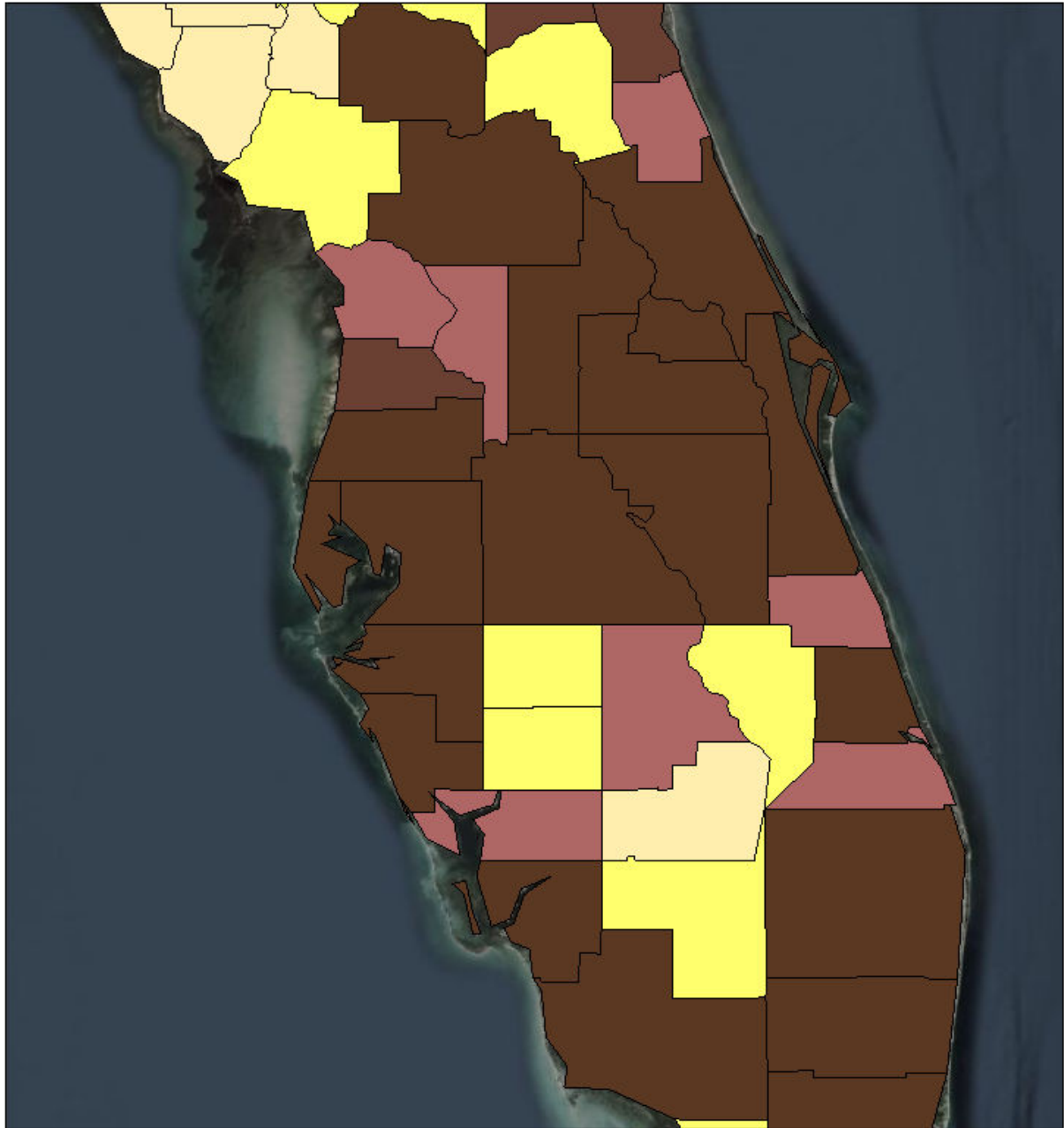
- < 1000 units
- 1000 - 4999 units
- 10,000 - 14,999 units



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

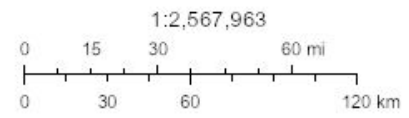
Created by SimSuite

# Population



## Population

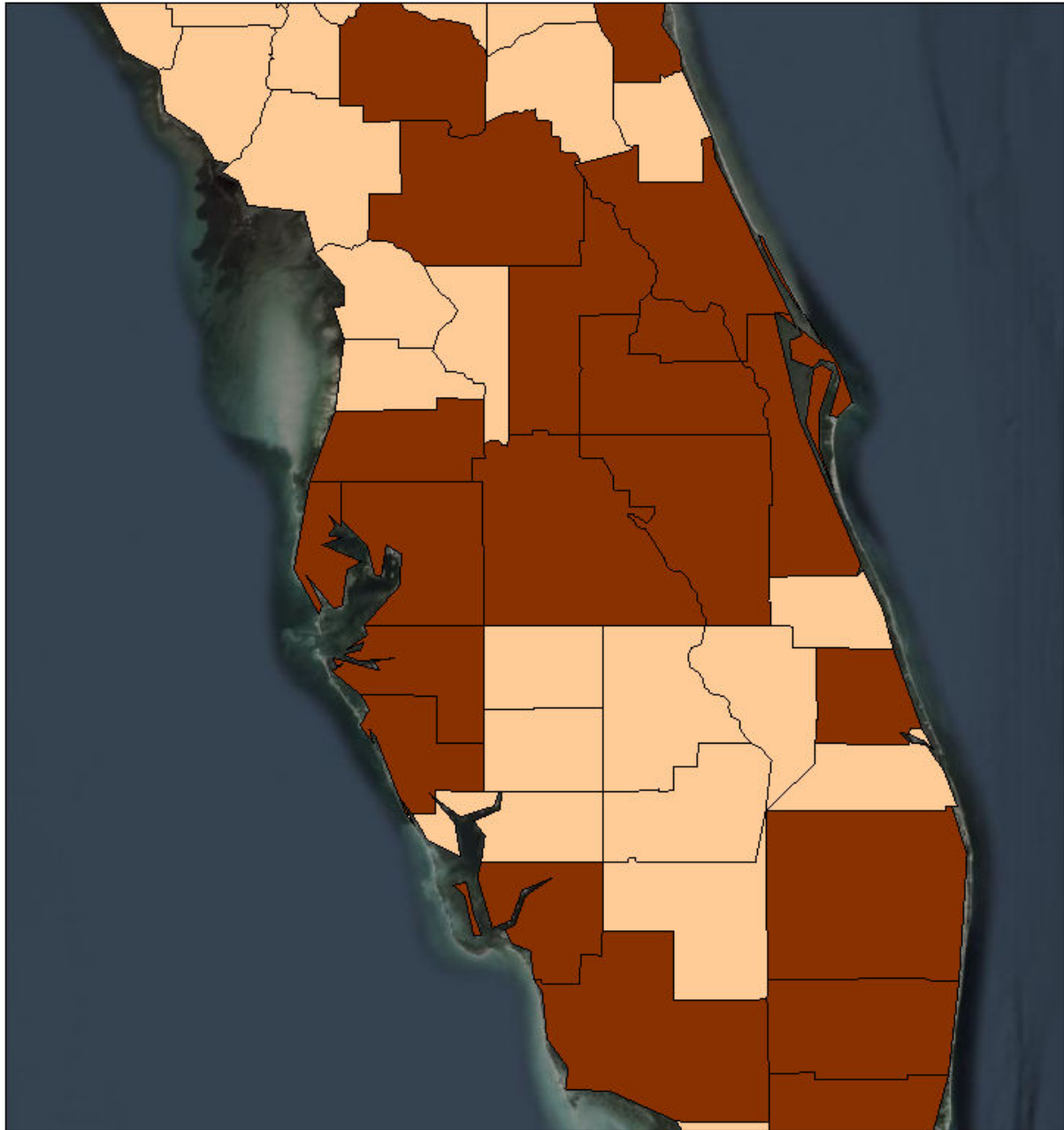
- < 25,000 persons
- 25,000 - 99,000 persons
- 100,000 - 174,999 persons
- 175,000 - 249,000 persons





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

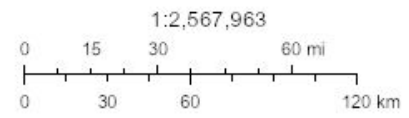
Created by SimSuite

# 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	13
Debris (cu. yd.)	19,858,677
Est. Temp. Roofing (units)	122,871
Act. Temp. Roofing (units)	33,175
Population	23,273,712
Households	8,350,347

Population Distribution	
Tropical Storm	17,056,081
Category 1	893,553
Category 2	848,106
Category 3	710,762

FLORIDA	Yds of Debris (19,858,677)	Est. Roof Units (122,871)	Act. Roof Units (33,175)	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	269,313	2,360	637	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	13,505	195	53	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	32,879	390	105	28,518	8,245
Hendry	0	0	0	39,553	12,025
Hernando	0	0	0	182,273	71,745
Highlands	0	0	0	102,012	42,604
Hillsborough	5,196,474	44,121	11,913	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	128,144	2,144	579	339,742	121,289
Lee	6,466	108	29	720,426	259,818
Levy	0	0	0	41,097	16,404
Madison	0	0	0	18,862	6,985
Manatee	5,472,833	25,582	6,907	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	81,998	1,372	370	1,332,714	421,847
Osceola	4,016	67	18	333,980	90,603
Palm Beach	0	0	0	1,441,728	544,227
Pasco	92,041	1,540	416	512,082	189,612
Pinellas	0	0	0	968,279	415,876
Polk	887,817	11,138	3,007	662,431	227,485
Putnam	0	0	0	74,098	29,409
Sarasota	7,651,079	33,485	9,041	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	22,113	370	100	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

<b>GEORGIA</b>	<b>Yds of Debris (0)</b>	<b>Est. Roof Units (0)</b>	<b>Act. Roof Units (0)</b>	<b>Population (1,575,792)</b>	<b>Households (559,827)</b>
Appling	0	0	0	18,451	6,969
Atkinson	0	0	0	9,278	2,983
Bacon	0	0	0	11,414	4,214
Ben Hill	0	0	0	17,395	6,794
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
Burke	0	0	0	22,837	8,533
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
Emanuel	0	0	0	23,103	8,430
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
Jenkins	0	0	0	9,170	3,192
Johnson	0	0	0	9,742	3,347
Lanier	0	0	0	10,158	3,608
Laurens	0	0	0	48,971	18,641
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
Richmond	0	0	0	204,200	76,924
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
Treutlen	0	0	0	6,916	2,543
Ware	0	0	0	35,094	13,654
Wayne	0	0	0	29,612	10,562
Wheeler	0	0	0	7,905	2,152

<b>SOUTH CAROLINA</b>	<b>Yds of Debris (0)</b>	<b>Est. Roof Units (0)</b>	<b>Act. Roof Units (0)</b>	<b>Population (2,524,628)</b>	<b>Households (895,181)</b>
Aiken	0	0	0	170,230	64,253
Allendale	0	0	0	9,774	3,706
Bamberg	0	0	0	15,050	6,048
Barnwell	0	0	0	21,937	8,937
Beaufort	0	0	0	187,450	64,945
Berkeley	0	0	0	207,154	65,419
Calhoun	0	0	0	14,883	6,080
Charleston	0	0	0	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	0	0	0	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
Richland	0	0	0	416,367	145,194
Sumter	0	0	0	109,033	40,398
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=269&oid=84&name=Hurricane%20lan&advisory=Advisory%20%2318&advf=G>