



Hurricane Ian Advisory #24

For Planning Purposes Only!

WASHINGTON, DC
12:08:54
28 Sep 2022

CHICAGO
11:08:54
28 Sep 2022

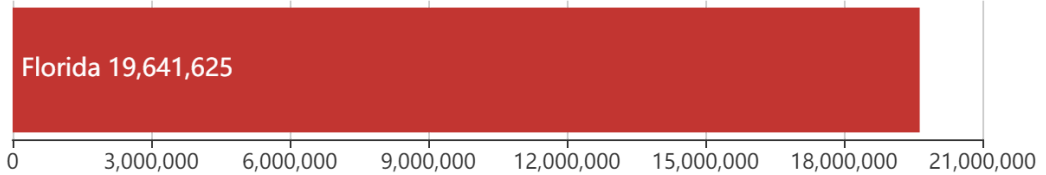
LOS ANGELES
09:08:54
28 Sep 2022

<https://simsuite.usace.army.mil/wab/v2.15/MissionModels/#advid=273&oid=84&name=Hurricane%20Ian&advisory=Advisory%20%2324&advf=G>

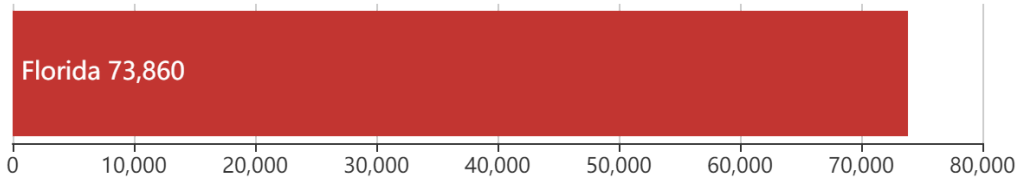
Updated as of 28 Sep 2022 (11:08 AM Central Daylight Time)

Debris

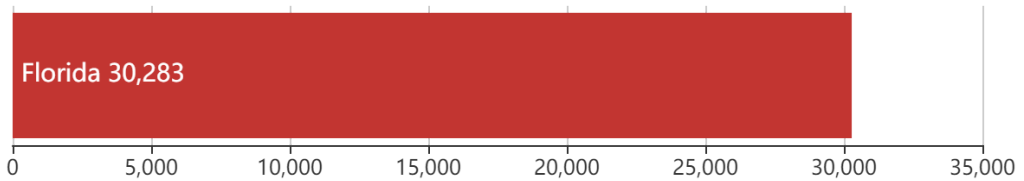
19.6M
cu. yd.



Est. Temp. Roofing
73.9K
units

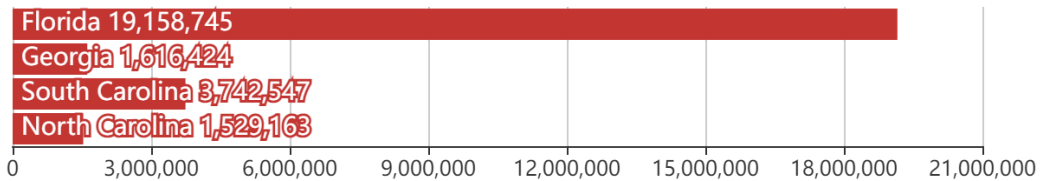


Act. Temp. Roofing
30.3K
units



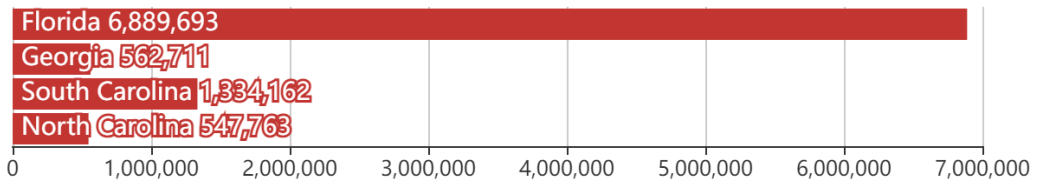
Population

26M
people



Households

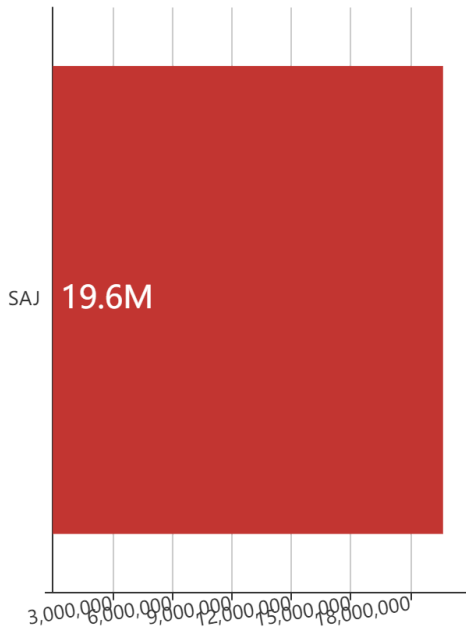
9.3M
households



Mission Model Summary

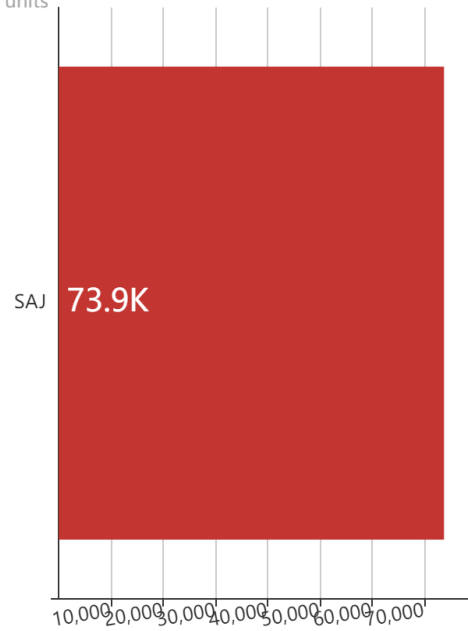
Debris By USACE District

cu. yd.

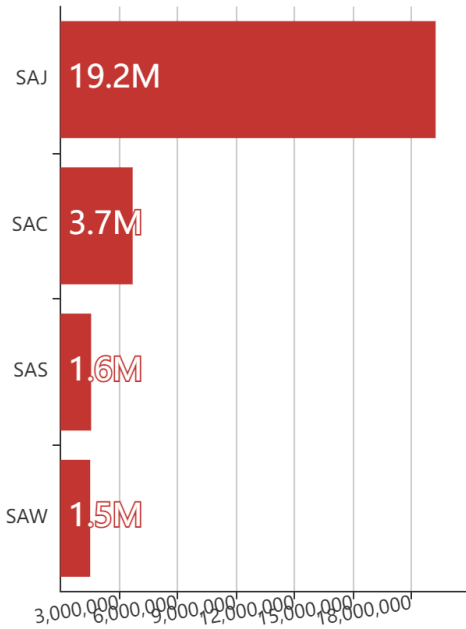


Est. Temp. Roofing By USACE District

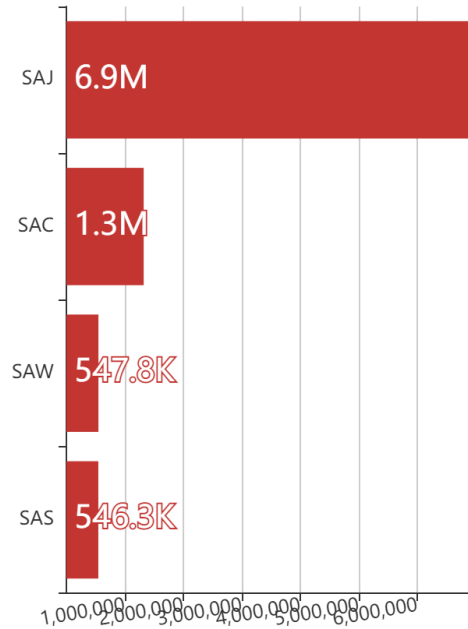
units



Population By USACE District



Households By USACE District



Critical Infrastructure Summary

Total

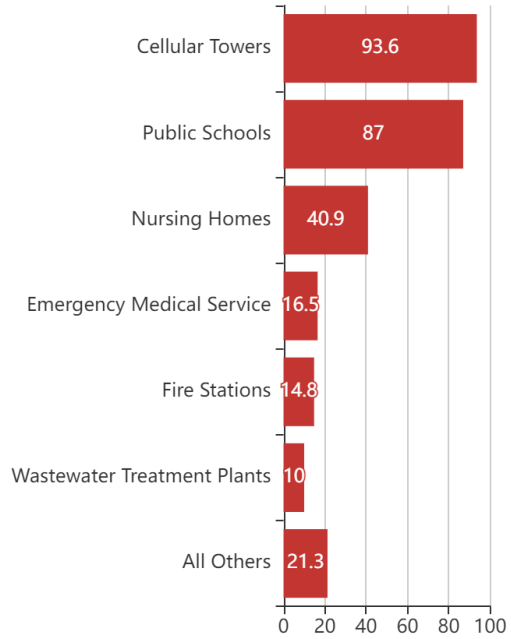


Power Requirements



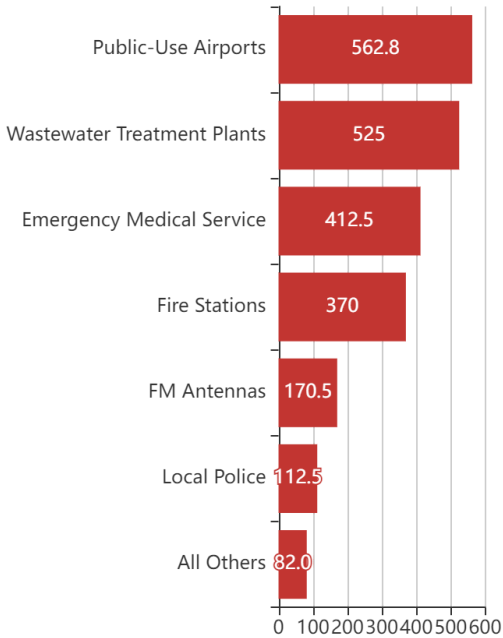
Generators

By Generator Count



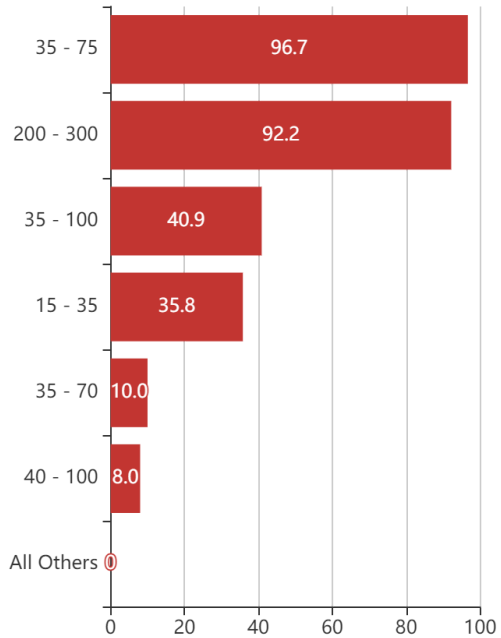
Generators

By Power Requirement



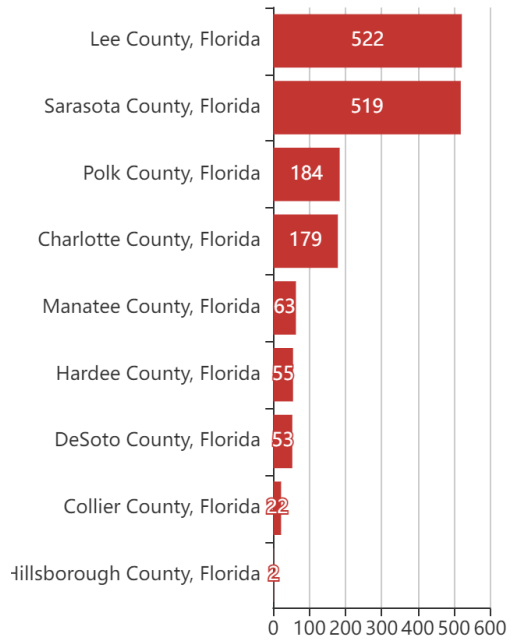
Generators

By Range



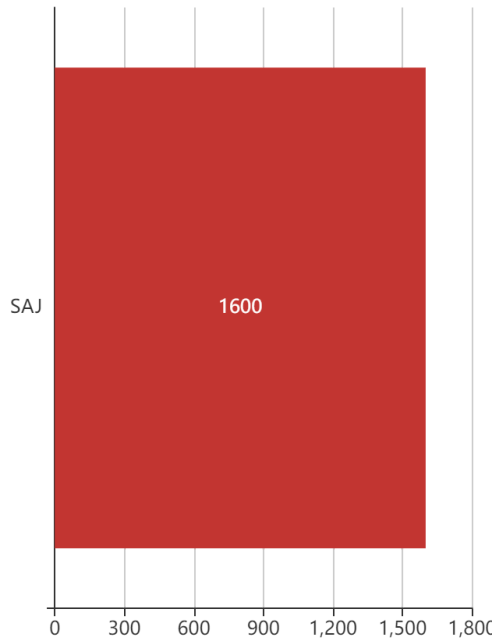
Structures

By County



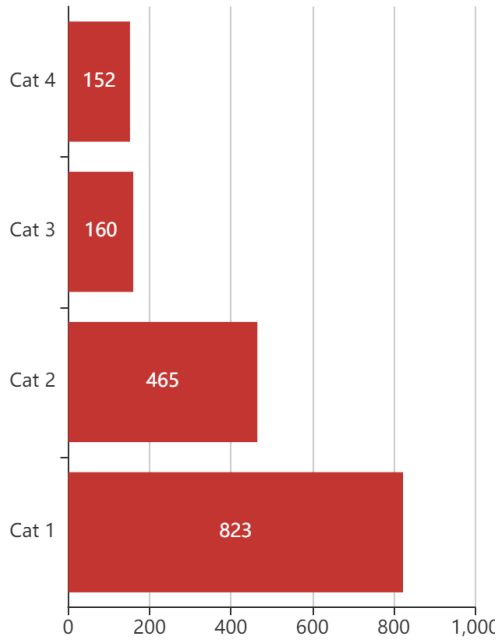
Structures

By USACE District



Structures

By Intensity





Key Messages for Hurricane Ian

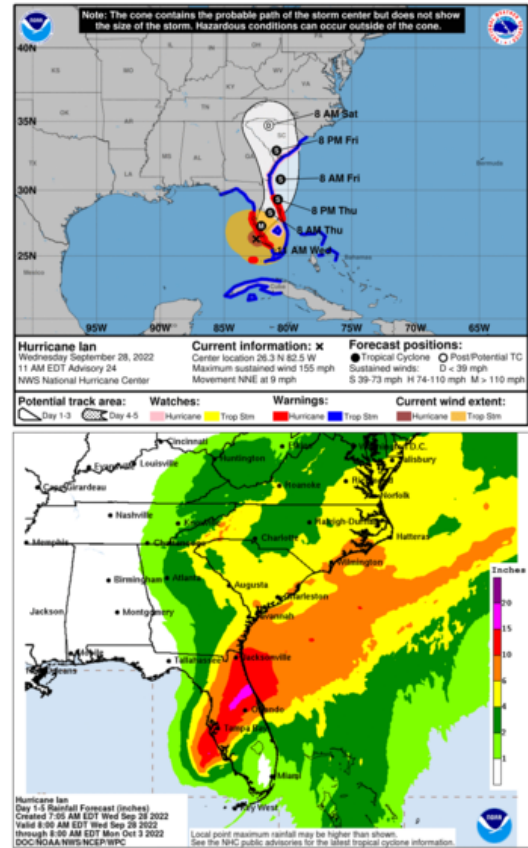
Advisory 24: 11:00 AM EDT Wed Sep 28, 2022

1. Catastrophic storm surge inundation of 12 to 18 feet above ground level along with destructive waves are expected somewhere along the southwest Florida coastline from Englewood to Bonita Beach, including Charlotte Harbor. Residents in these areas should urgently follow any evacuation orders in effect.

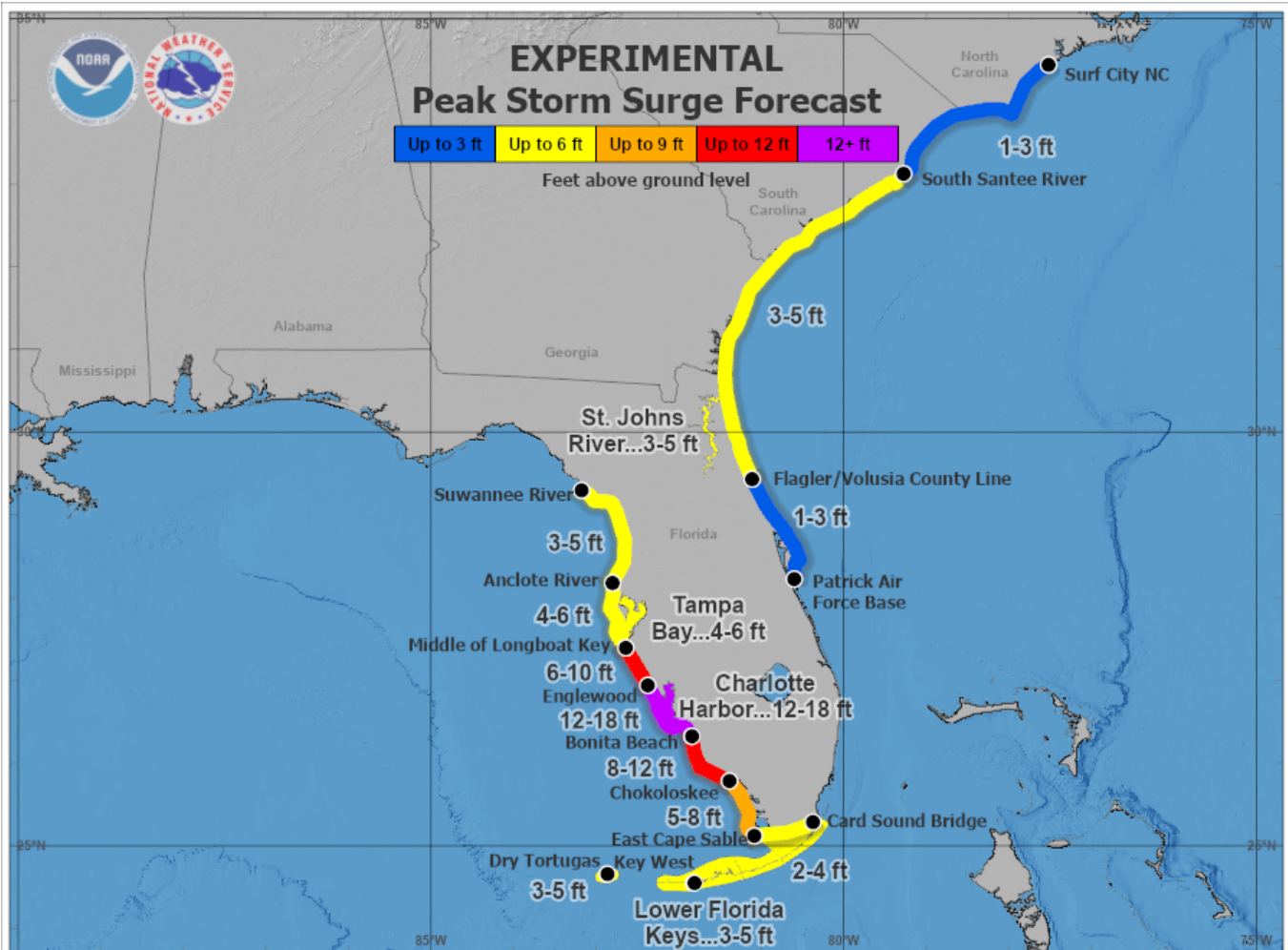
2. Catastrophic wind damage is beginning along the southwestern coast of Florida today near the landfall location. Hurricane-force winds are expected to extend well inland along near the core of Ian. Preparations to protect life and property should be urgently rushed to completion.

3. Heavy rainfall will spread across the Florida peninsula through Thursday and reach portions of the Southeast U.S. later this week and this weekend. Widespread, life-threatening catastrophic flooding is expected across portions of central Florida with considerable flooding in southern Florida, northern Florida, southeastern Georgia and coastal South Carolina. Widespread, prolonged major and record river flooding is expected across central Florida.

4. Hurricane conditions are expected along the east-central Florida coast overnight, where a Hurricane Warning has been issued. Hurricane conditions are possible from northeastern Florida to portions of South Carolina on Thursday and Friday, and a Hurricane Watch has been issued for that area.



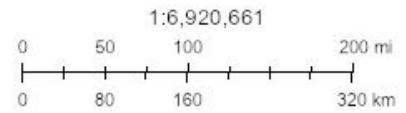
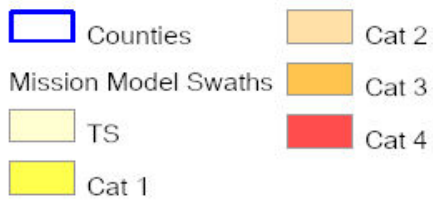
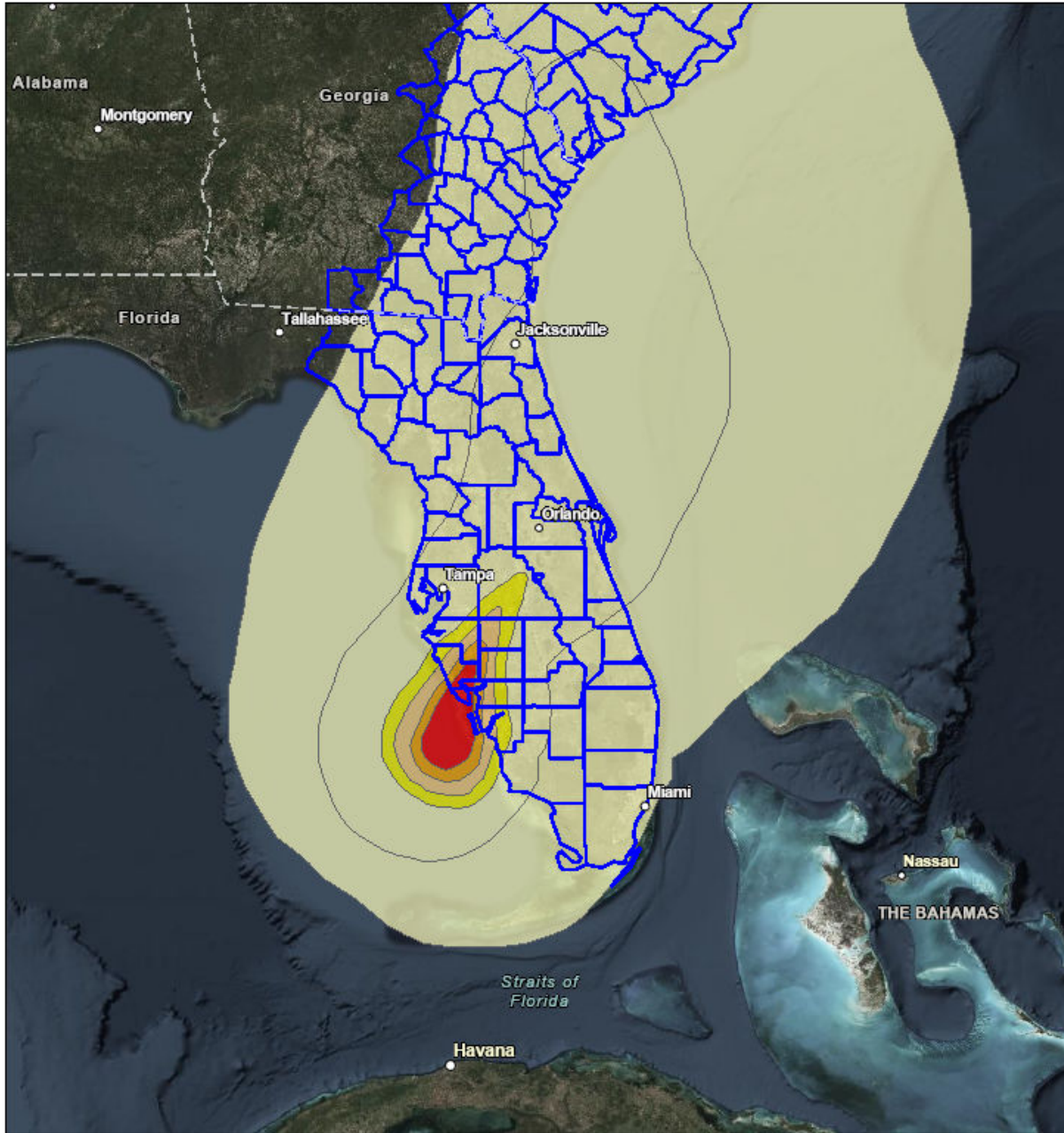
For more information go to hurricanes.gov



Hurricane Ian
Wednesday September 28, 2022
11 AM EDT Advisory 24
NWS National Hurricane Center

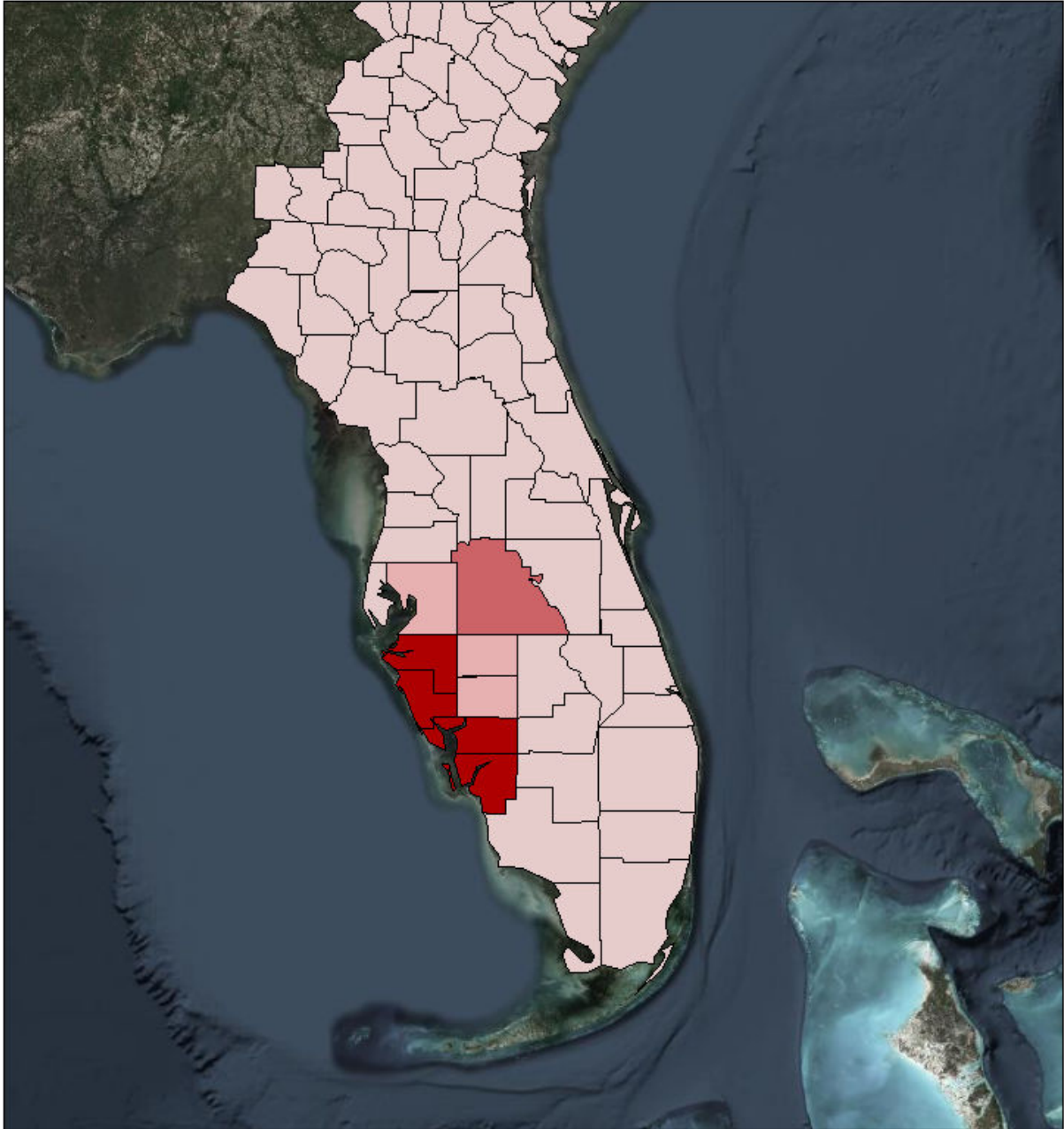
User Notes: Water levels along the immediate coast could reach the following heights above ground level within the indicated areas. Elevated water levels will likely be accompanied by large and destructive waves. Colors are determined by the highest values in the associated forecast peak surge range. Values shown on this graphic are inclusive of tide.

Letter ANSI A Portrait






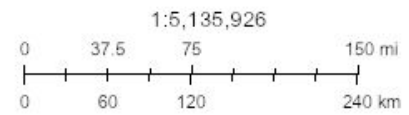
University of South Florida, FDEP, Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Debris



Debris

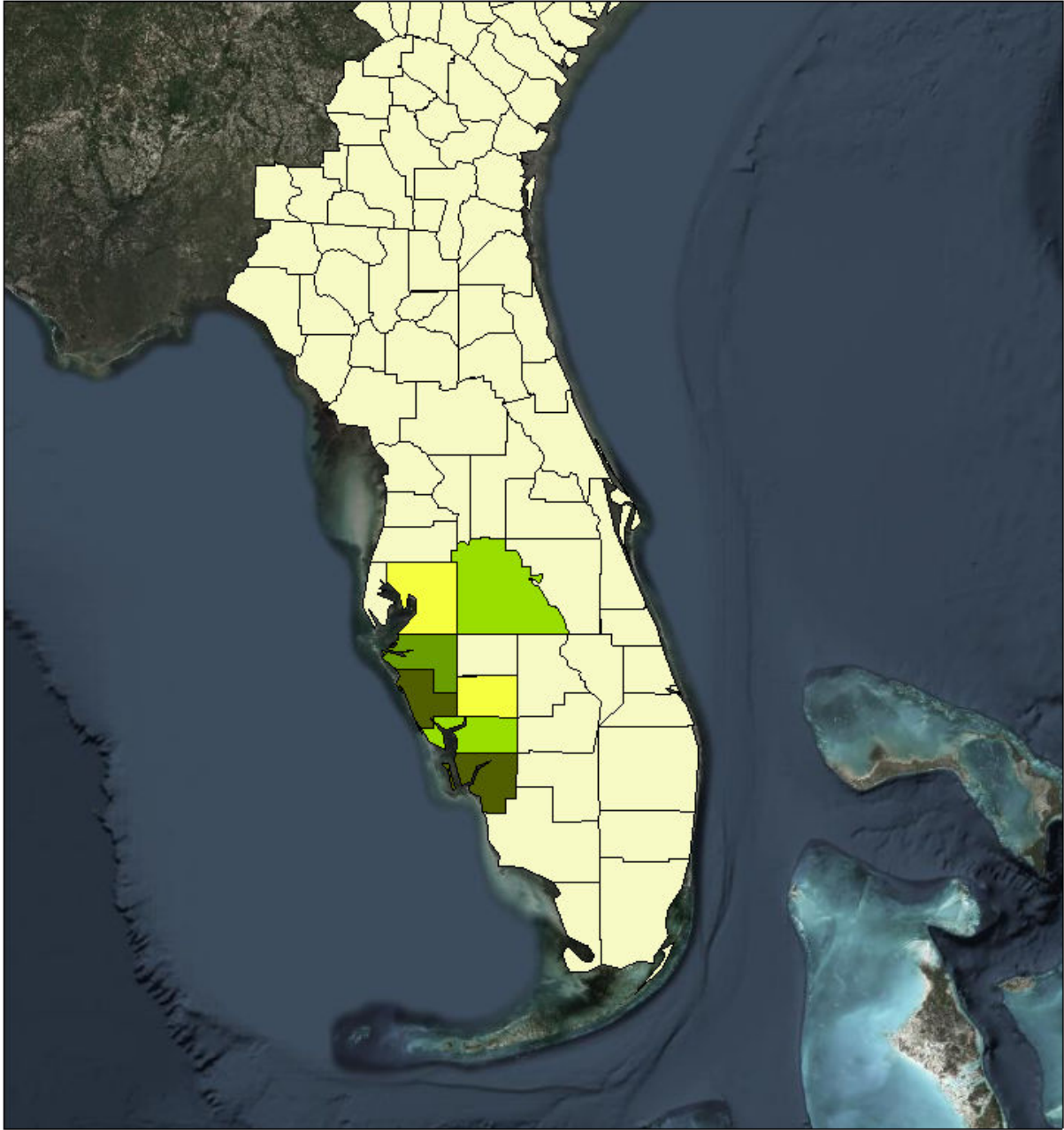
-  < 100,000 cubic yards
-  100,000 - 249,000 cubic yards
-  250,000 - 499,999 cubic yards



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

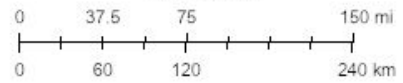
< 1000 units

1000 - 4999 units

5000 - 9999 units

10,000 - 14,999 units

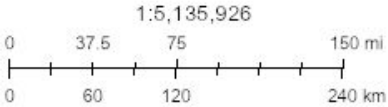
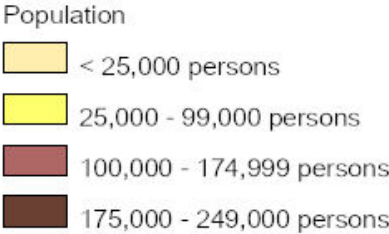
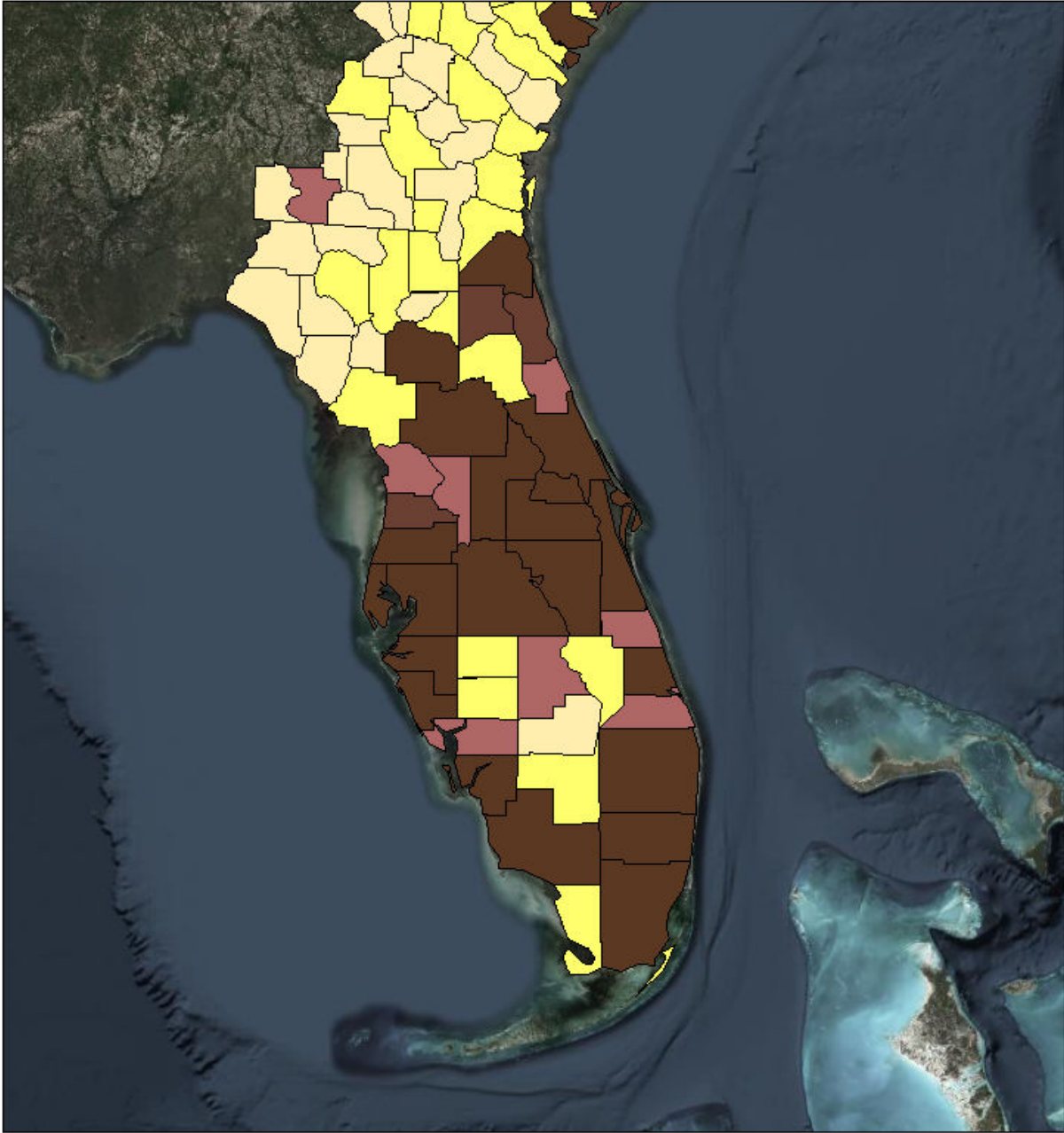
1:5,135,926



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

Created by SimSuite

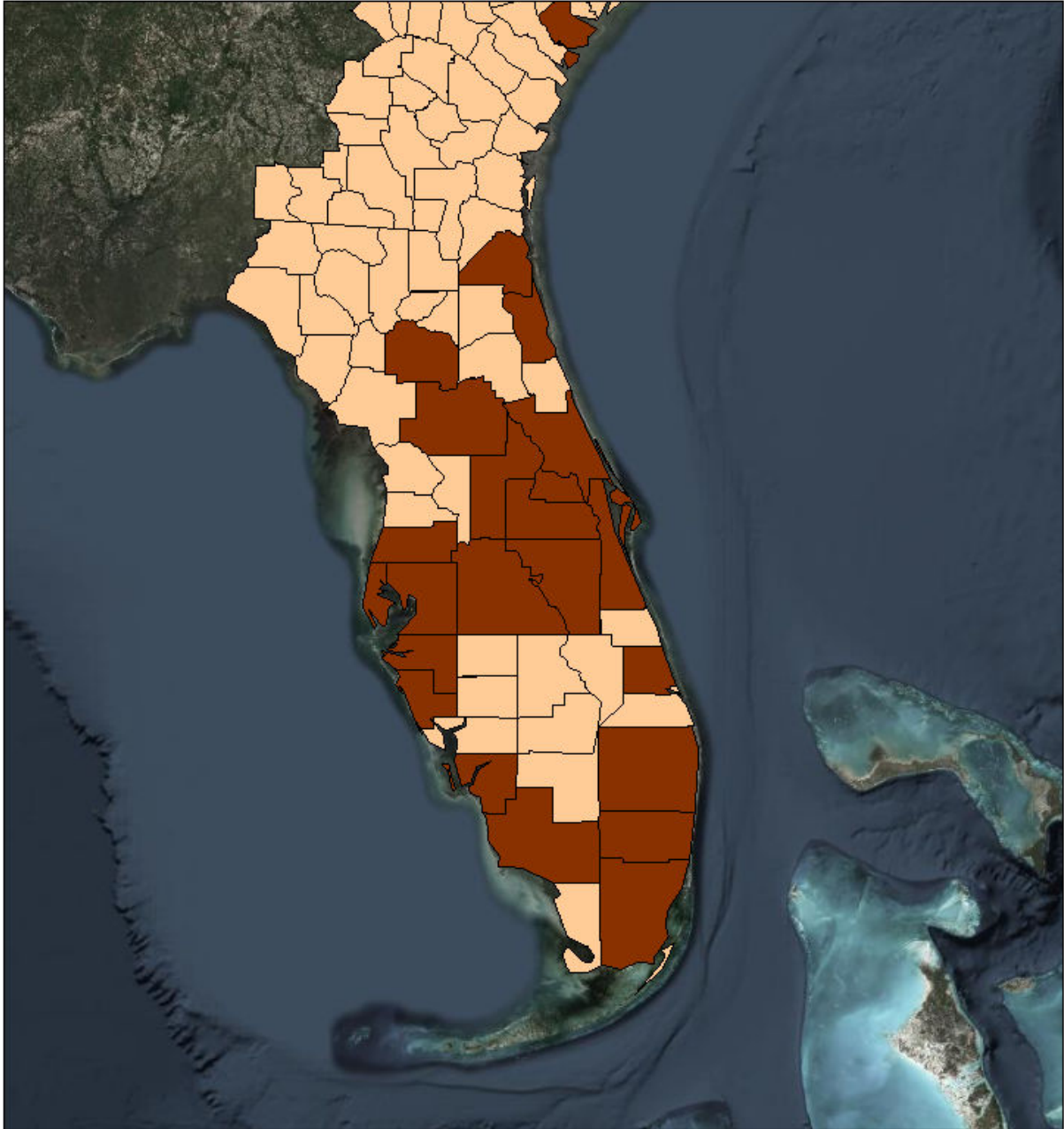
Population






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

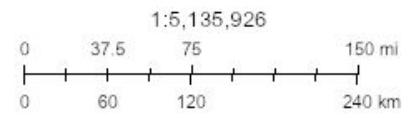
Created by SimSuite

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

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	9
Debris (cu. yd.)	19,641,625
Est. Temp. Roofing (units)	73,860
Act. Temp. Roofing (units)	30,283
Population	26,046,879
Households	9,334,329

Population Distribution	
Tropical Storm	33,675,466
Category 1	781,264
Category 2	418,008
Category 3	229,680
Category 4	171,952

FLORIDA	Yds of Debris (19,641,625)	Est. Roof Units (73,860)	Act. Roof Units (30,283)	Population (19,158,745)	Households (6,889,693)
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	2,620,801	6,264	2,568	173,978	73,370
Citrus	0	0	0	144,825	63,304
Clay	0	0	0	209,524	68,792
Collier	4,526	67	27	368,652	133,179
Columbia	0	0	0	69,419	24,941
DeSoto	193,629	1,092	448	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	106,453	883	362	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	107,439	1,589	652	1,382,695	474,030

Indian River	0	0	0	149,718	60,176
Lafayette	0	0	0	8,476	2,580
Lake	0	0	0	339,742	121,289
Lee	3,353,370	21,846	8,957	720,426	259,818
Levy	0	0	0	41,097	16,404
Madison	0	0	0	18,862	6,985
Manatee	2,375,793	12,562	5,150	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	0	0	0	512,082	189,612
Pinellas	0	0	0	968,279	415,876
Polk	491,600	6,457	2,647	662,431	227,485
Putnam	0	0	0	74,098	29,409
Sarasota	10,388,013	23,101	9,472	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	0	0	0	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 (1,616,424)	Households (562,711)
Appling	0	0	0	18,451	6,969
Atkinson	0	0	0	9,278	2,983
Bacon	0	0	0	11,414	4,214
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
Columbia	0	0	0	153,260	44,898
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
Jeff Davis	0	0	0	15,280	5,689
Jefferson	0	0	0	16,389	6,241
Jenkins	0	0	0	9,170	3,192
Johnson	0	0	0	9,742	3,347
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
Richmond	0	0	0	204,200	76,924
Screven	0	0	0	14,427	5,596
Tattnall	0	0	0	25,147	8,210
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

NORTH CAROLINA	Yds of Debris (0)	Est. Roof Units (0)	Act. Roof Units (0)	Population (1,529,163)	Households (547,763)
Anson	0	0	0	26,294	9,755
Bladen	0	0	0	35,031	14,430
Brunswick	0	0	0	129,300	46,297
Columbus	0	0	0	57,071	22,489
Cumberland	0	0	0	329,248	122,431
Hoke	0	0	0	53,518	16,532
Moore	0	0	0	97,517	37,540
New Hanover	0	0	0	225,895	86,046
Pender	0	0	0	59,850	20,333
Richmond	0	0	0	46,534	18,430
Robeson	0	0	0	136,600	47,997
Sampson	0	0	0	65,148	24,005
Scotland	0	0	0	36,435	13,614
Union	0	0	0	230,722	67,864

SOUTH CAROLINA	Yds of Debris (0)	Est. Roof Units (0)	Act. Roof Units (0)	Population (3,742,547)	Households (1,334,162)
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
Chester	0	0	0	33,257	12,876
Chesterfield	0	0	0	46,695	18,173
Clarendon	0	0	0	34,844	13,132
Colleton	0	0	0	38,408	15,131
Darlington	0	0	0	67,941	26,531
Dillon	0	0	0	31,456	11,923
Dorchester	0	0	0	157,283	50,259
Edgefield	0	0	0	27,396	9,348
Fairfield	0	0	0	23,515	9,419
Florence	0	0	0	140,540	52,653
Georgetown	0	0	0	62,847	24,524
Greenwood	0	0	0	70,166	27,547
Hampton	0	0	0	21,006	7,598
Horry	0	0	0	327,500	112,225
Jasper	0	0	0	30,101	8,517
Kershaw	0	0	0	64,654	23,928
Lancaster	0	0	0	90,715	29,697
Laurens	0	0	0	67,718	25,525
Lee	0	0	0	18,136	6,797
Lexington	0	0	0	291,357	102,733
Marion	0	0	0	32,432	13,058
Marlboro	0	0	0	28,023	10,383
McCormick	0	0	0	9,946	4,027
Newberry	0	0	0	38,634	14,709
Orangeburg	0	0	0	91,282	35,788
Richland	0	0	0	416,367	145,194
Saluda	0	0	0	20,270	7,527
Sumter	0	0	0	109,033	40,398
Union	0	0	0	28,317	11,974
Williamsburg	0	0	0	33,331	13,007
York	0	0	0	259,723	85,864

Critical Infrastructure

Summary			
Total Critical Facilities		1,600	
Power Requirements (kW)		42,824.4	
Range (kW)			
Communications	# FED Gen Req	Range (kW)	Req kW
Cellular Towers (156)	93.6	35 - 75	5,148.0
FM Antennas (62)	3.1	35 - 75	170.5
Education	# FED Gen Req	Range (kW)	Req kW
Private Schools (96)	0.0	200 - 300	0.0
Public Schools (290)	87.0	200 - 300	21,750.0
Colleges and Universities (21)	0.4	200 - 300	105.0
Emergency Services	# FED Gen Req	Range (kW)	Req kW
911 Call Centers (0)	0.0	15 - 35	0.0
Emergency Medical Service (165)	16.5	15 - 35	412.5
Fire Stations (148)	14.8	15 - 35	370.0
Healthcare	# FED Gen Req	Range (kW)	Req kW
Nursing Homes (273)	40.9	35 - 100	2,764.1
Hospitals (23)	6.9	800 - 2000	9,660.0
Urgent Care Facilities (24)	4.8	200 - 300	1,200.0
Law Enforcement	# FED Gen Req	Range (kW)	Req kW
Local Police (45)	4.5	15 - 35	112.5
Correctional Facilities (0)	0.0	400 - 600	0.0
State and Local EOCs	# FED Gen Req	Range (kW)	Req kW
Local Emergency Operations Centers (8)	1.6	15 - 40	44.0
State Emergency Operation Centers (EOCs) (0)	0.0	15 - 35	0.0
State Facilities	# FED Gen Req	Range (kW)	Req kW
Governors Mansions (0)	0.0	100 - 200	0.0
Major State Government Buildings (0)	0.0	100 - 200	0.0

Transportation	# FED Gen Req	Range (kW)	Req kW
Amtrack Stations (4)	0.0	100 - 300	0.0
Bus Stations (4)	0.0	100 - 300	0.0
Intermodal Terminal Facilities (10)	0.0	100 - 300	0.0
Railroad Stations (4)	0.0	100 - 300	0.0
Public-Use Airports (67)	8.0	40 - 100	562.8

Water and Wastewater	# FED Gen Req	Range (kW)	Req kW
Wastewater Treatment Plants (200)	10.0	35 - 70	525.0

Poverty Level

#	County	Cat	Pop. below Federal poverty line	% Population
1	Lee County	4	88,294	12
2	Manatee County	4	42,675	11
3	Sarasota County	4	36,496	9
4	Charlotte County	4	19,302	11
5	DeSoto County	3	9,200	26
6	Hardee County	3	6,189	25
7	Polk County	2	104,509	15
8	Hillsborough County	1	200,179	14
9	Collier County	1	41,222	11

Social Vulnerability Index



Possible scores range from **0** (lowest vulnerability) to **1** (highest vulnerability).

#	Location	Cat	Overall SVI Score
1	Lee County, Florida	4	0.552
2	Manatee County, Florida	4	0.52
3	Charlotte County, Florida	4	0.489
4	Sarasota County, Florida	4	0.254
5	Hardee County, Florida	3	0.983
6	DeSoto County, Florida	3	0.962
7	Polk County, Florida	2	0.903
8	Hillsborough County, Florida	1	0.67
9	Collier County, Florida	1	0.462

COVID-19

#	County	Cases
1	Hillsborough	455,614
2	Polk	245,072
3	Lee	229,428
4	Manatee	117,012
5	Sarasota	114,303
6	Collier	100,123
7	Charlotte	45,089
8	DeSoto	10,790
9	Hardee	9,921

Report Generated by SimSuite

<https://simsuite.usace.army.mil/wab/v2.15/MissionModels/#advid=273&oid=84&name=Hurricane%20Ian&advisory=Advisory%20%2324&advlf=G>