Hurricane Elsa Adv. #27

US Army Corps of Engineers
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WASHINGTON, DC	CHICAGO	LOS ANGELES
19:42:31	18:42:31	16:42:31
06 Jul 2021	06 Jul 2021	06 Jul 2021

https://go.usa.gov/x6MBX

Updated as of 6 Jul 2021 (6:42 PM Central Daylight Time)

Debris — 441,226 cu. yd.
- Florida 100% (441,226)
- Georgia <1% (0)
- South Carolina <1% (0)

Est. Temporary Roofing — 160 units
- Florida 100% (160)
- Georgia <1% (0)
- South Carolina <1% (0)

Act. Temporary Roofing — 112 units
- Florida 143% (160)
- Georgia <1% (0)
- South Carolina <1% (0)

Population — 12,783,402 people
- Florida 82% (10,532,819)
- South Carolina 9% (1,150,910)
- Georgia 9% (1,099,673)

Households — 4,635,213 households
- Florida 83% (3,854,140)
- South Carolina 9% (398,014)
- Georgia 8% (383,059)
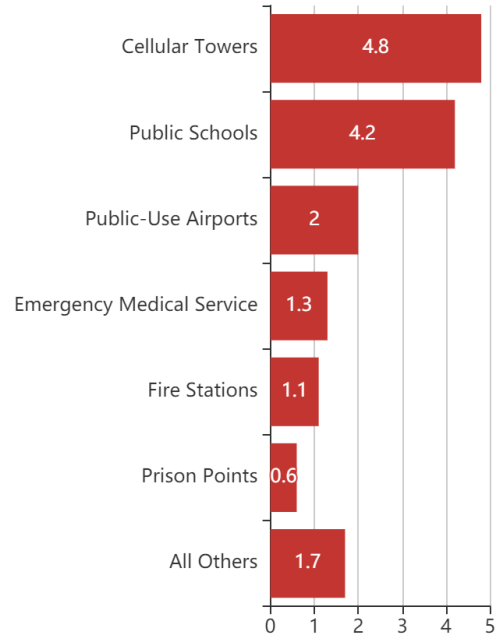
Critical Infrastructure Summary

Total

87
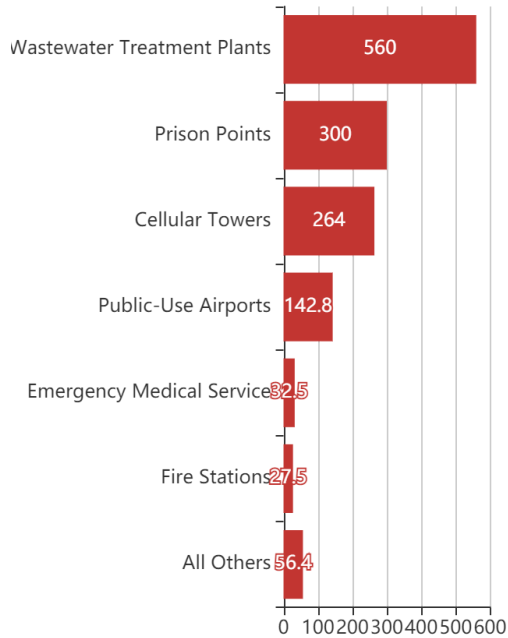critical
facilities

Power Requirements

2.4
MW

Generators
By Generator Count

Category	Value
Cellular Towers	4.8
Public Schools	4.2
Public-Use Airports	2
Emergency Medical Service	1.3
Fire Stations	1.1
Prison Points	0.6
All Others	1.7

Generators
By Power Requirement

Category	Value
Wastewater Treatment Plants	560
Prison Points	300
Cellular Towers	264
Public-Use Airports	142.8
Emergency Medical Service	32.5
Fire Stations	27.5
All Others	56.4

Generators
By Range

Category	Value
35 - 75	5.3
200 - 300	4.2
15 - 35	2.7
40 - 100	2.0
400 - 600	0.6
800 - 2000	0.4
All Others	0

Structures
By County

County	Structures
Levy, Florida	38
Gilchrist, Florida	33
Dixie, Florida	10
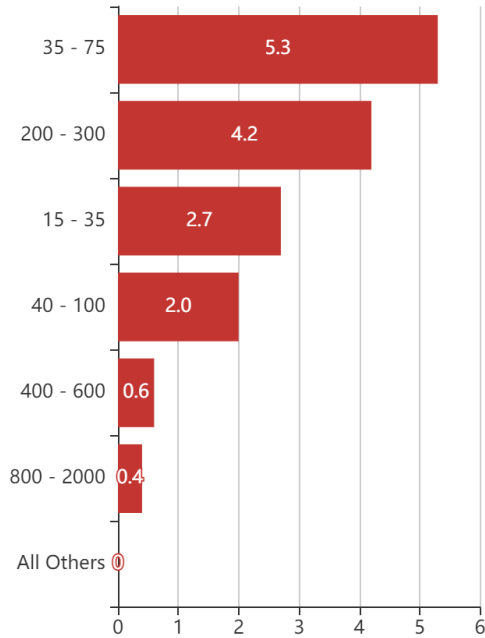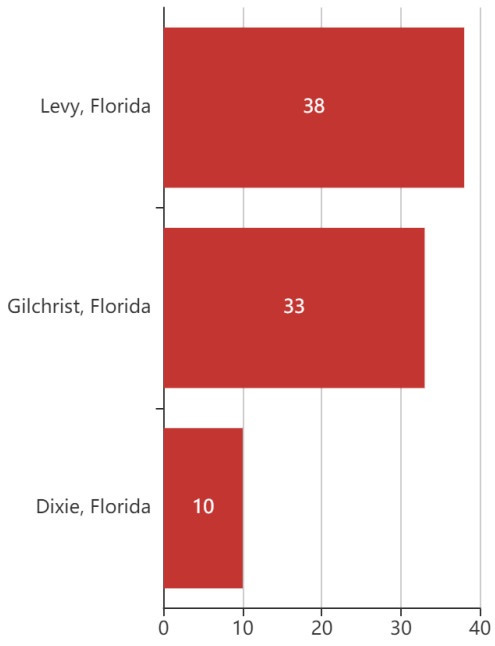
Structures
By Intensity

Intensity	Structures
Cat 1	87
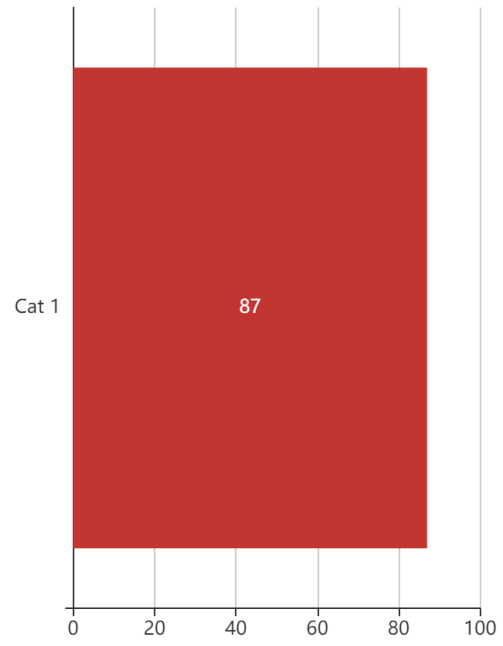
Key Messages for Tropical Storm Elsa
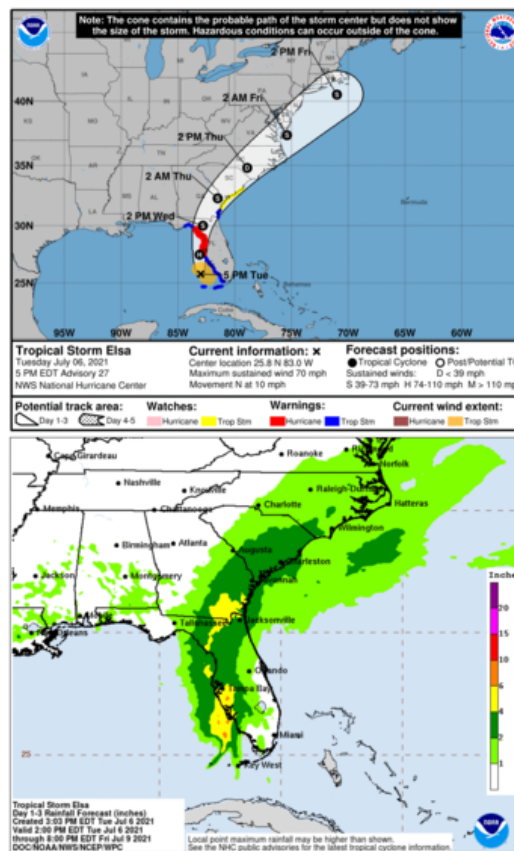## Advisory 27: 5:00 PM EDT Tue Jul 06, 2021

1. Heavy rain will impact Cuba tonight resulting in significant flooding and mudslides. As Elsa moves across the western and northern Florida Peninsula through Wednesday, heavy rainfall may result in considerable flash, urban, and minor to isolated moderate river flooding. Mid- to late-week, heavy rainfall across southeast Georgia, South Carolina, North Carolina, and southeastern Virginia may result in isolated flash and urban flooding, with considerable flash and urban flooding possible across coastal Georgia and the Lowcountry of South Carolina.
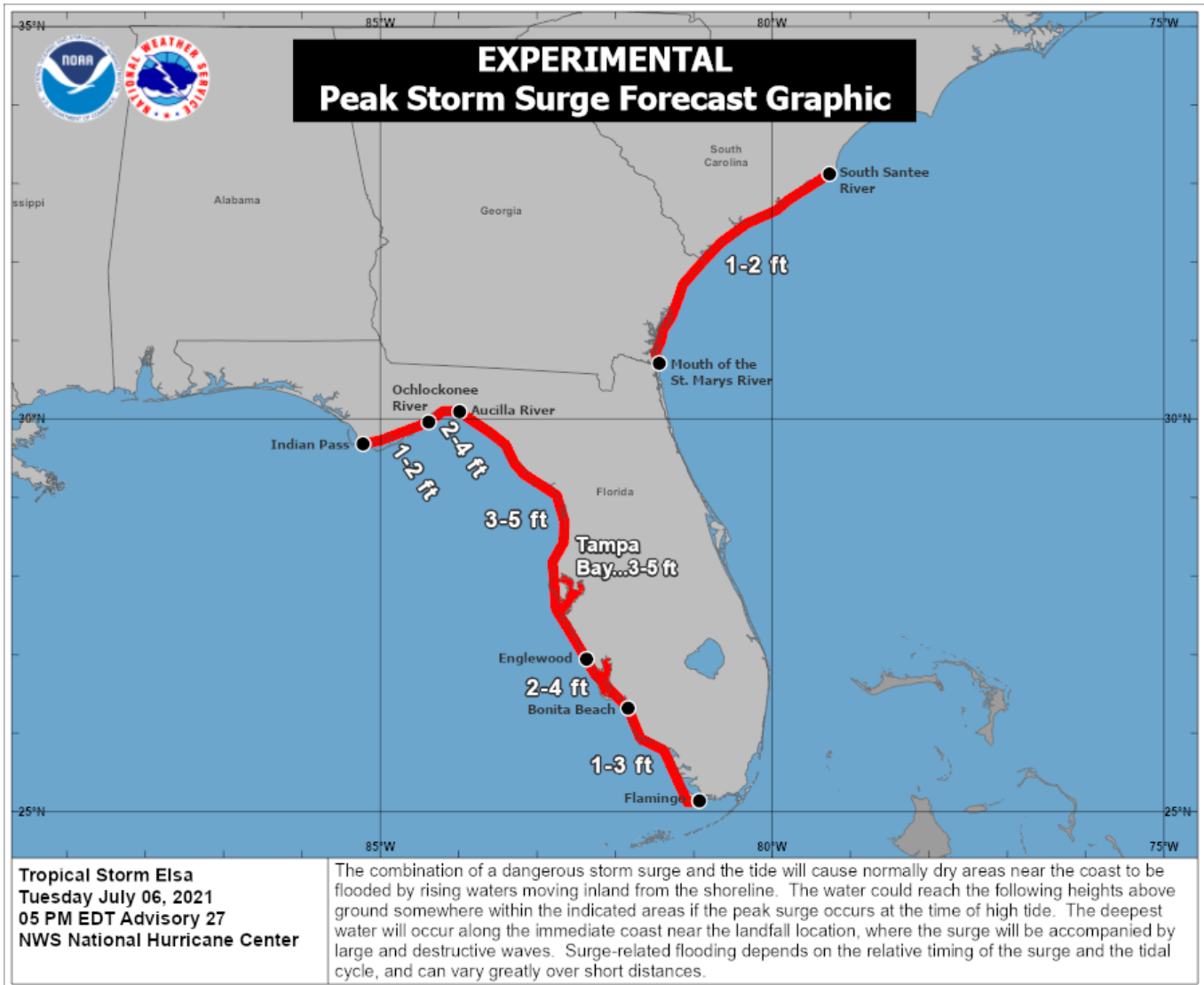
2. There is a danger of life-threatening storm surge along portions of the west coast of Florida tonight and Wednesday, and a Storm Surge Warning is in effect for that area.
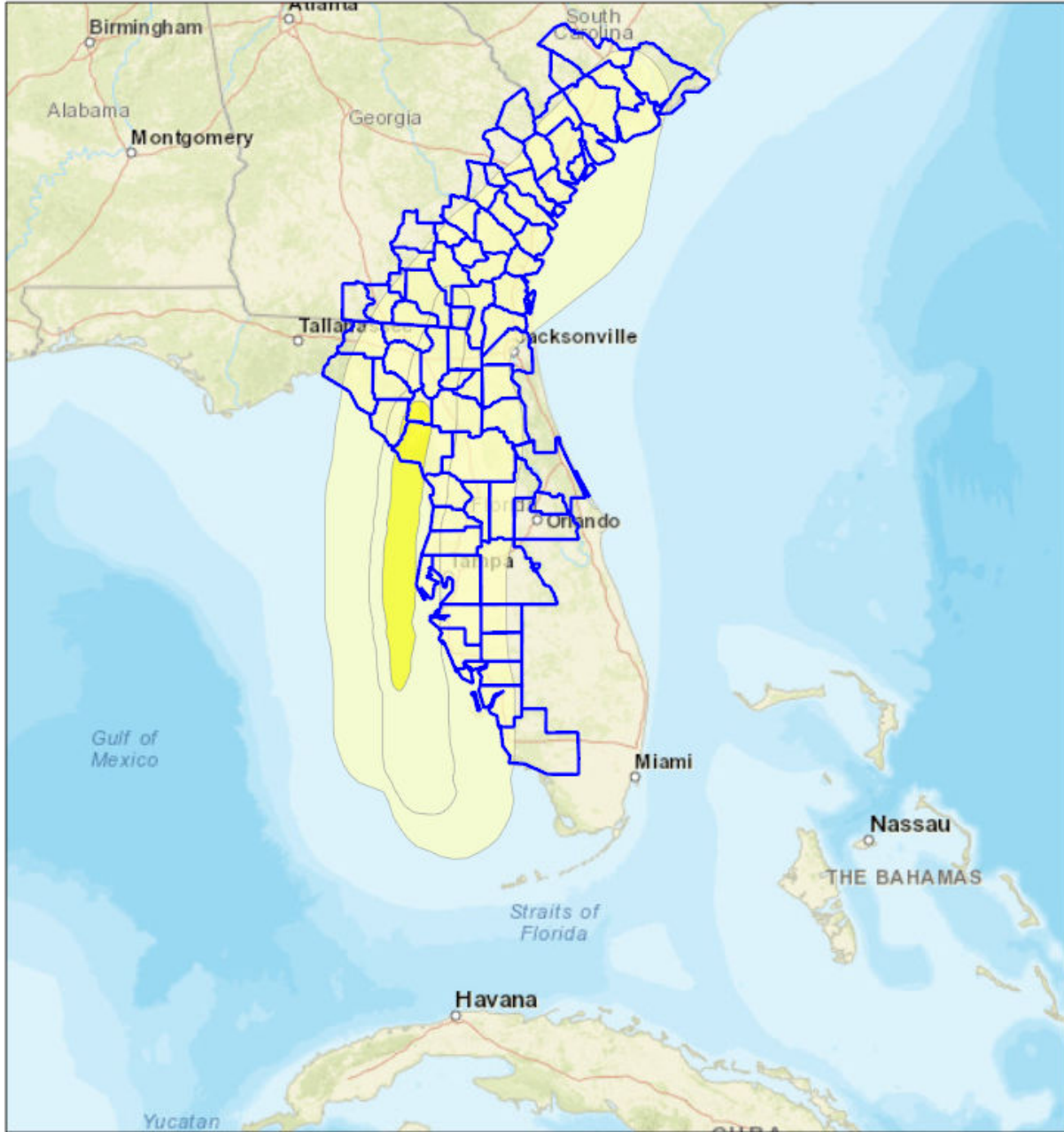
3. Hurricane conditions are expected tonight and early Wednesday along a portion of the west coast of Florida, where a Hurricane Warning is in effect. Tropical storm conditions are occurring across portions of the Florida Keys and will spread northward along the west coast of the state within the warning area through Wednesday morning.

4. Although the center of Elsa is expected to remain inland of the coastline from Georgia through the Carolinas during the next couple of days, tropical storm conditions are expected in a portion of southeastern Georgia and are possible elsewhere along much of the coasts of Georgia and South Carolina.

For more information go to hurricanes.gov

EXPERIMENTAL
Peak Storm Surge Forecast Graphic

1-2 ft

Ochlockonee River

Aucilla River

2-4 ft

Indian Pass

1-2 ft

3-5 ft

Tampa Bay...3-5 ft

Englewood

2-4 ft

Bonita Beach

1-3 ft

Flamingo

South Santee River

Mouth of the St. Marys River

Tropical Storm Elsa
Tuesday July 06, 2021
05 PM EDT Advisory 27
NWS National Hurricane Center

The combination of a dangerous storm surge and the tide will cause normally dry areas near the coast to be flooded by rising waters moving inland from the shoreline. The water could reach the following heights above ground somewhere within the indicated areas if the peak surge occurs at the time of high tide. The deepest water will occur along the immediate coast near the landfall location, where the surge will be accompanied by large and destructive waves. Surge-related flooding depends on the relative timing of the surge and the tidal cycle, and can vary greatly over short distances.

Counties

Mission Model Swaths

TS

Cat 1

1:7,517,712

| 0 | 55 | 110 | | 220 mi |
| 0 | 90 | 180 | | 360 km |
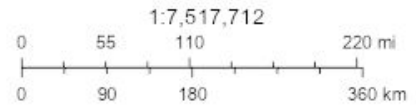
Esri, HERE, Garmin, NGA, USGS, NPS

Created by SimSuite

Debris
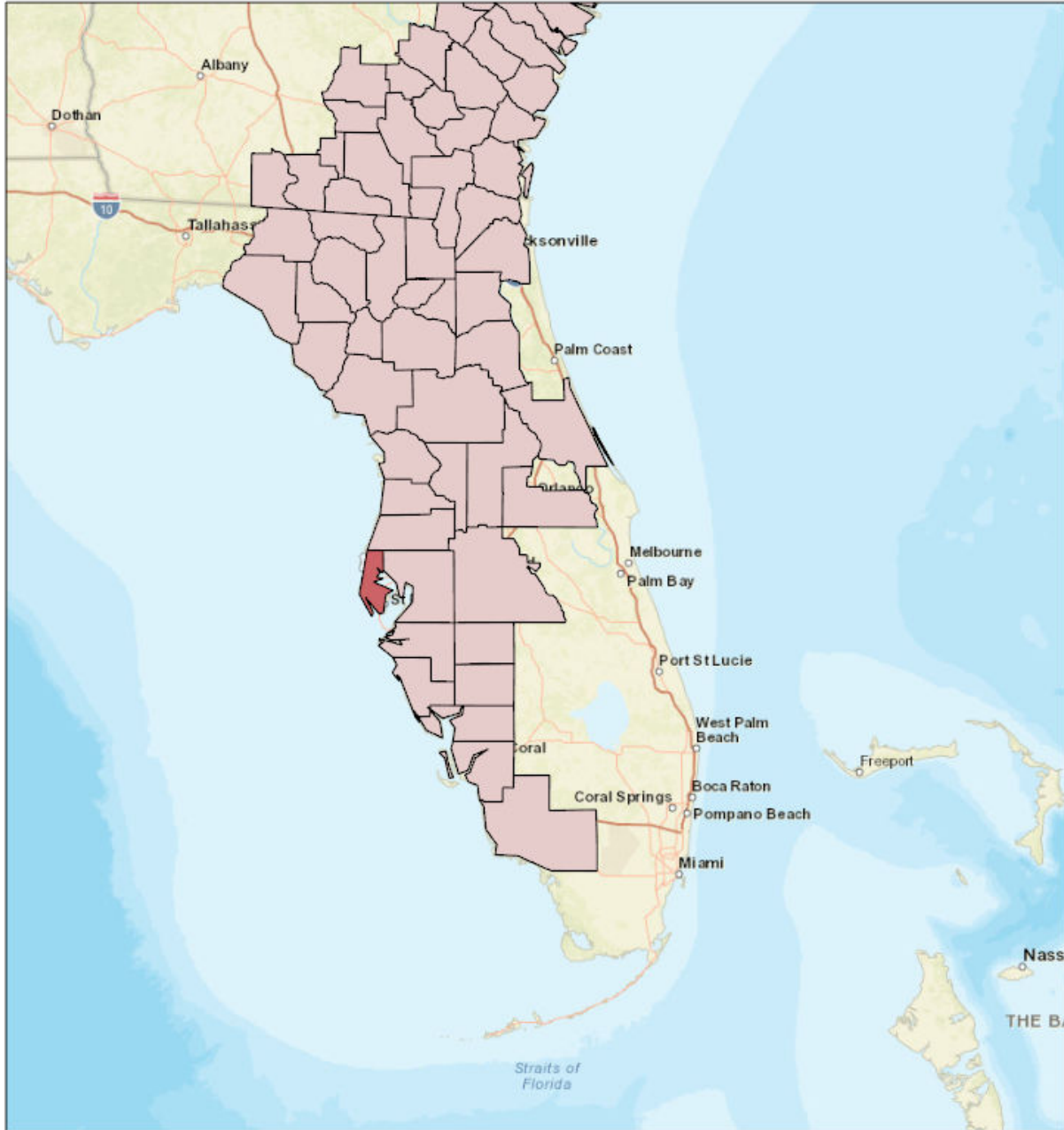
Debris

█ < 100,000 cubic yards

█ 250,000 - 499,999 cubic yards

1:5,135,926

| 0 | 37.5 | 75 | 150 mi |
| 0 | 62.5 | 125 | 250 km |
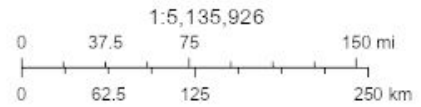
Esri, HERE, Garmin, NGA, USGS, NPS

Created by SimSuite

Est. Temp. Roofing
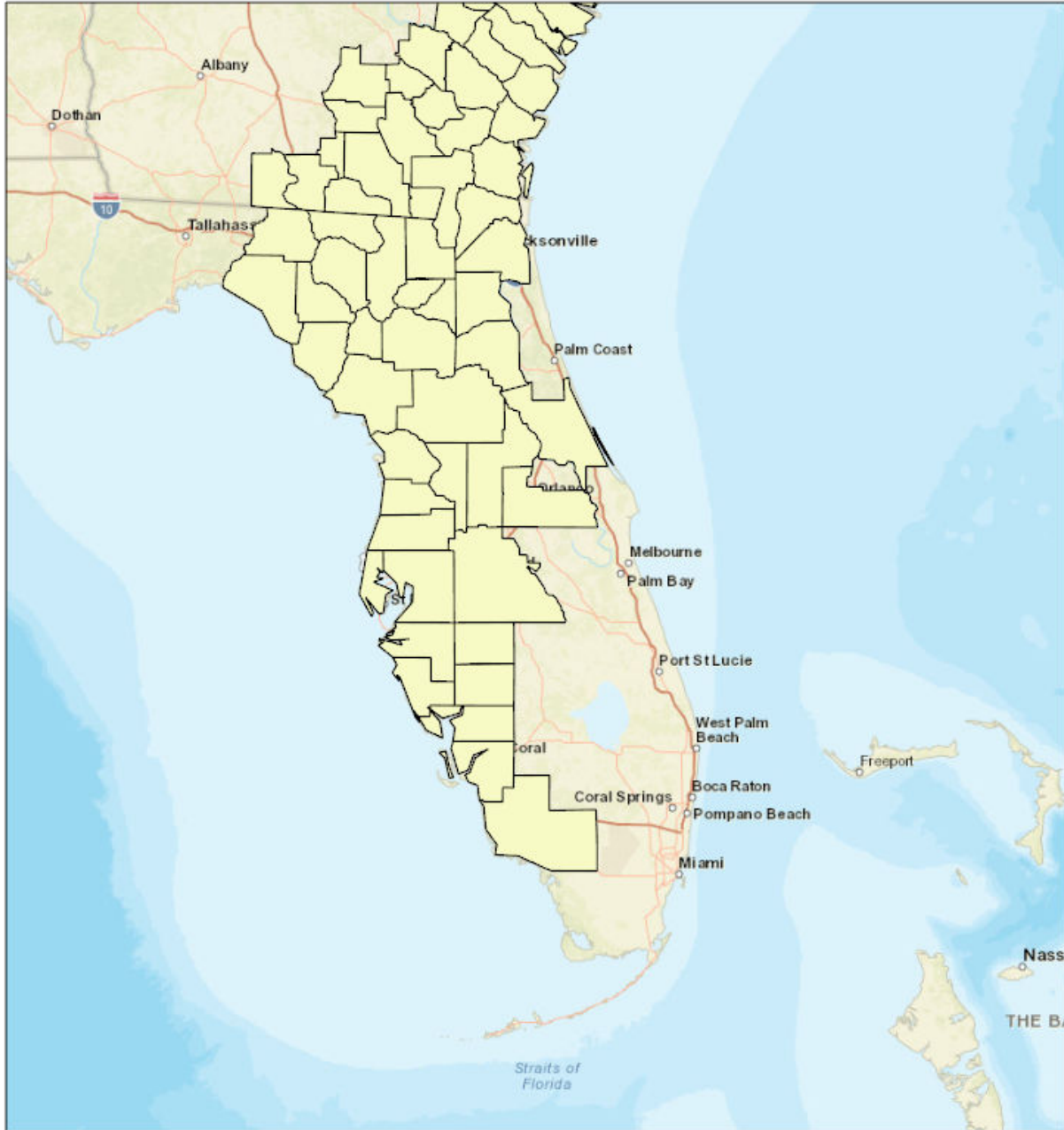
Est. Temp. Roofing

< 2,000 units

1:5,135,926

| 0 | 37.5 | 75 | 150 mi |
| 0 | 62.5 | 125 | 250 km |
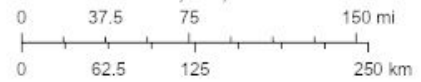
Esri, HERE, Garmin, NGA, USGS, NPS

Created by SimSuite

Population

1:5,135,926

| 0 | 37.5 | 75 | 150 mi |
| 0 | 62.5 | 125 | 250 km |
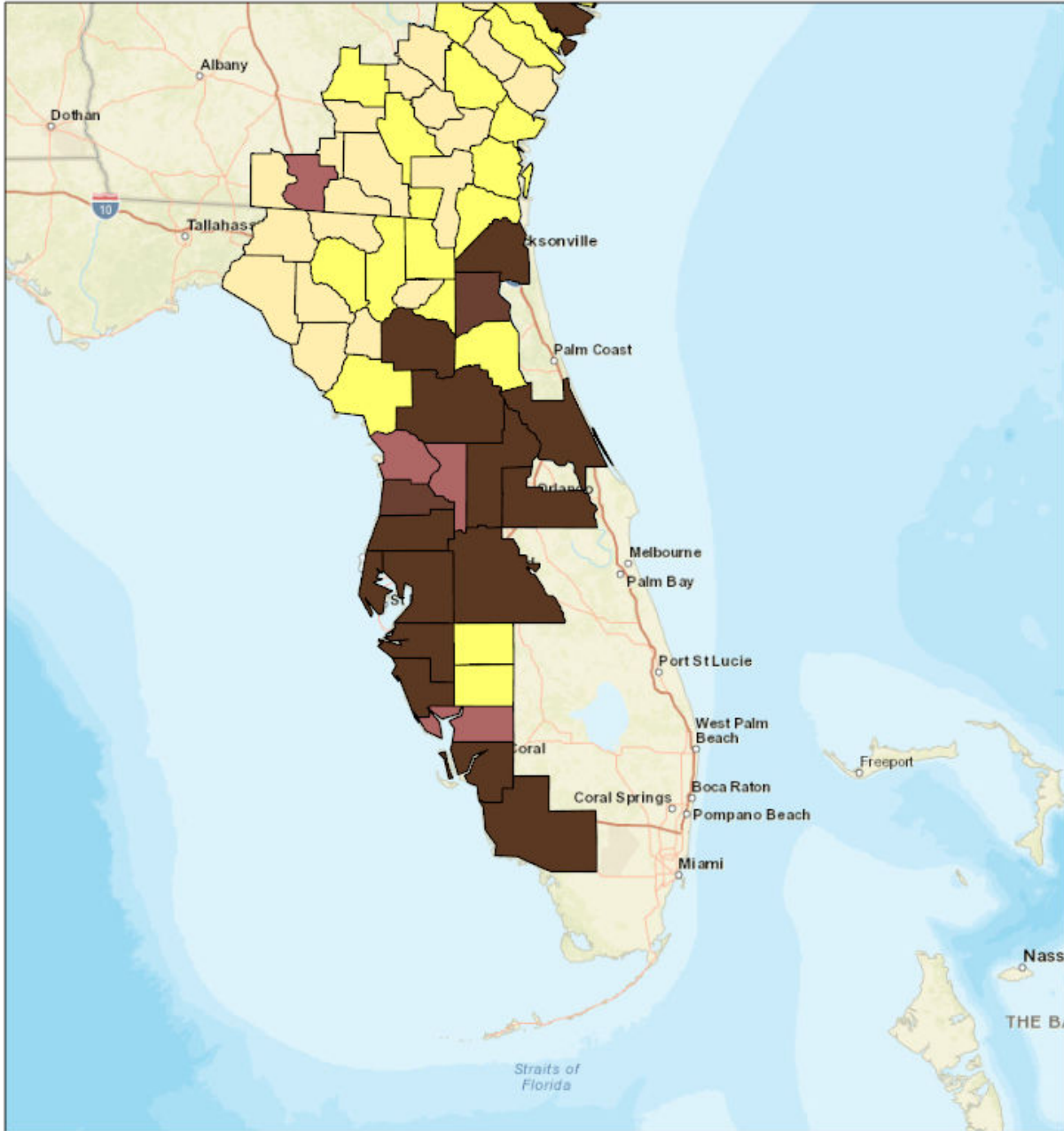
Population

- < 25,000 persons
- 25,000 - 99,000 persons
- 100,000 - 174,999 persons
- 175,000 - 249,000 persons
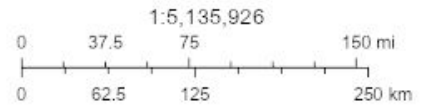
Esri, HERE, Garmin, NGA, USGS, NPS

Created by SimSuite

Households

1:5,135,926

| 0 | 37.5 | 75 | 150 mi |
| 0 | 62.5 | 125 | 250 km |

Esri, HERE, Garmin, NGA, USGS, NPS
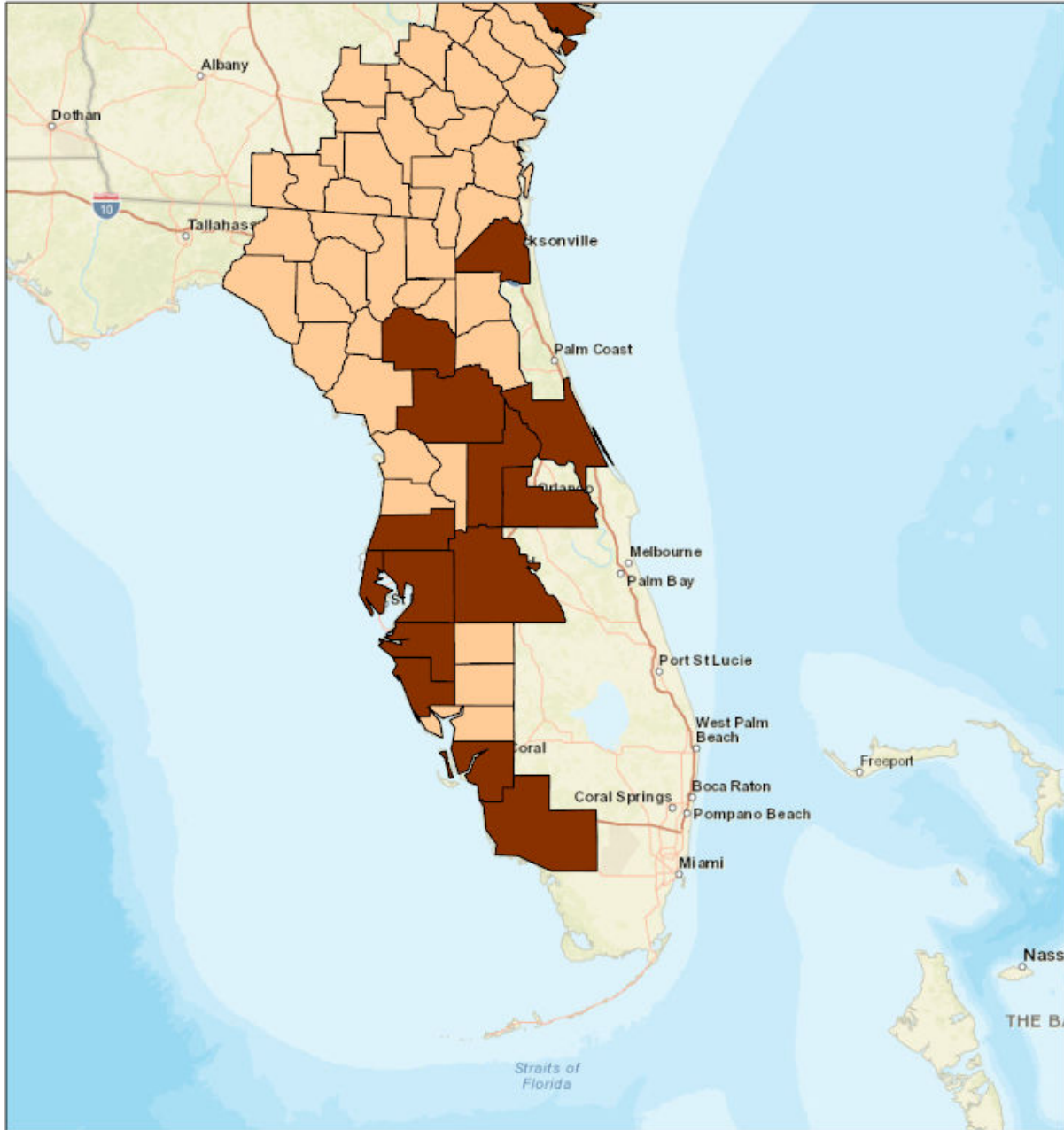
Households

< 7,500 Households

15,000 - 24,999 Households

25,000 - 49,999 Households
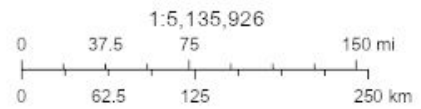
Created by SimSuite

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	70
Debris (cu. yd.)	441,226
Est. Temp. Roofing (units)	160
Act. Temp. Roofing (units)	112
Population	12,783,402
Households	4,635,213

Population Distribution	
Tropical Storm	9,989,000
Category 1	40,720

FLORIDA	Yds of Debris (441,226)	Est. Roof Units (160)	Act. Roof Units (112)	Population (10,532,819)	Households (3,854,140)
Alachua	0	0	0	262,216	100,516
Baker	0	0	0	28,042	8,772
Bradford	0	0	0	26,996	9,479
Charlotte	0	0	0	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	0	0	0	36,506	11,445
Dixie	1,467	6	4	16,299	6,316
Duval	0	0	0	932,755	342,450
Gilchrist	15,915	64	45	17,436	6,121
Hamilton	0	0	0	14,344	4,617
Hardee	0	0	0	28,518	8,245
Hernando	0	0	0	182,273	71,745
Hillsborough	0	0	0	1,382,695	474,030
Lafayette	0	0	0	8,476	2,580
Lake	0	0	0	339,742	121,289
Lee	0	0	0	720,426	259,818
Levy	22,653	91	63	41,097	16,404
Madison	0	0	0	18,862	6,985
Manatee	0	0	0	376,566	135,729
Marion	0	0	0	350,915	137,726
Nassau	0	0	0	80,628	28,794
Orange	0	0	0	1,332,714	421,847
Pasco	44,369	0	0	512,082	189,612
Pinellas	356,822	0	0	968,279	415,876
Polk	0	0	0	662,431	227,485
Putnam	0	0	0	74,098	29,409
Sarasota	0	0	0	414,899	175,746
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 (1,099,673)	Households (383,059)
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
Camden	0	0	0	53,037	18,047
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
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
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
Pierce	0	0	0	19,286	7,083
Screven	0	0	0	14,427	5,596
Tattnall	0	0	0	25,147	8,210
Ware	0	0	0	35,094	13,654
Wayne	0	0	0	29,612	10,562

SOUTH CAROLINA	Yds of Debris (0)	Est. Roof Units (0)	Act. Roof Units (0)	Population (1,150,910)	Households (398,014)
Bamberg	0	0	0	15,050	6,048
Beaufort	0	0	0	187,450	64,945
Berkeley	0	0	0	207,154	65,419
Charleston	0	0	0	403,176	144,309
Colleton	0	0	0	38,408	15,131
Dorchester	0	0	0	157,283	50,259
Hampton	0	0	0	21,006	7,598
Jasper	0	0	0	30,101	8,517
Orangeburg	0	0	0	91,282	35,788

SOUTH CAROLINA	Yds of Debris (0)	Est. Roof Units (0)	Act. Roof Units (0)	Population (1,150,910)	Households (398,014)

Critical Infrastructure

Summary	
Total Critical Facilities	87
Power Requirements (kW)	2,432.2

Range (kW)	

Communications	# FED Gen Req	Range (kW)	Req kW
AM Antennas (1)	0.1	35 - 75	2.8
Cellular Towers (8)	4.8	35 - 75	264.0
FM Antennas (7)	0.4	35 - 75	19.3

Education	# FED Gen Req	Range (kW)	Req kW
Private Schools (3)	0.0	200 - 300	0.0
Public Schools (14)	4.2	200 - 300	1,050.0
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 (13)	1.3	15 - 35	32.5
Fire Stations (11)	1.1	15 - 35	27.5
Service Providers (0)	0.0	0 - 0	0.0

Healthcare	# FED Gen Req	Range (kW)	Req kW
Nursing Homes (2)	0.3	35 - 100	20.3
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 (3)	0.0	15 - 35	0.0

Law Enforcement	# FED Gen Req	Range (kW)	Req kW
Prison Points (3)	0.6	400 - 600	300.0
Local Police (3)	0.3	15 - 35	7.5
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 (1)	0.2	15 - 40	5.5
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 (17)	2.0	40 - 100	142.8

Water	# FED Gen Req	Range (kW)	Req kW
Water Treatment Facilities (0)	0.0	800 - 2000	0.0
Wastewater Treatment Plants (1)	0.4	800 - 2000	560.0

COVID-19

#	County	Cases
1	Hillsborough	147,394
2	Orange	146,910
3	Duval	104,659
4	Pinellas	82,969
5	Lee	75,330
6	Polk	72,946
7	Volusia	46,235
8	Charleston	44,039
9	Pasco	43,789
10	Manatee	40,588
11	Collier	38,011
12	Sarasota	34,230
13	Marion	32,460
14	Lake	31,924
15	Alachua	25,834
16	Chatham	23,766
17	Clay	19,906
18	Dorchester	18,470
19	Berkeley	18,048
20	Beaufort	17,175
21	Hernando	15,081
22	Charlotte	13,697
23	Lowndes	13,065
24	Citrus	11,649
25	Orangeburg	9,882
26	Sumter	9,676
27	Nassau	9,036
28	Columbia	8,398
29	Glynn	8,343
30	Putnam	6,898
31	Bulloch	6,853
32	Suwannee	5,458
33	Coffee	5,376
34	Ware	4,983
35	Effingham	4,714
36	DeSoto	4,475
37	Liberty	4,191
38	Camden	4,123
39	Bryan	3,771

40	Colleton	3,716
41	Baker	3,682
42	Levy	3,649
43	Wayne	3,640
44	Clarendon	3,483
45	Hardee	3,408
46	Bradford	3,119
47	Taylor	2,769
48	Pierce	2,531
49	Jasper	2,436
50	Tattnall	2,362
51	Appling	2,339
52	Madison	2,114
53	Hampton	1,929
54	Union	1,892
55	Brantley	1,673
56	Bacon	1,670
57	Gilchrist	1,656
58	Hamilton	1,656
59	Dixie	1,650
60	Lafayette	1,631
61	Charlton	1,612
62	Bamberg	1,598
63	Brooks	1,425
64	Atkinson	1,051
65	Screven	1,019
66	Evans	993
67	Clinch	987
68	Long	883
69	McIntosh	866
70	Lanier	797
71	Echols	478