



Hurricane Ian Landfall (South Carolina)

For Planning Purposes Only!

WASHINGTON, DC
17:19:49
30 Sep 2022

CHICAGO
16:19:49
30 Sep 2022

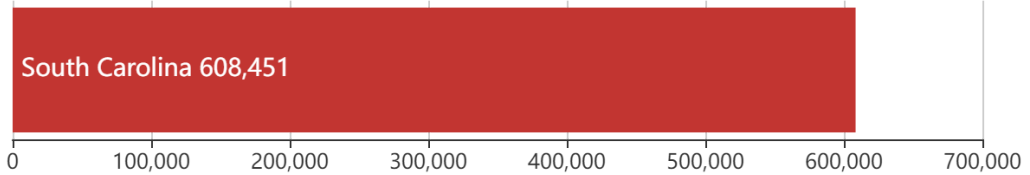
LOS ANGELES
14:19:49
30 Sep 2022

<https://simsuite.usace.army.mil/wab/v2.15/MissionModels/#>

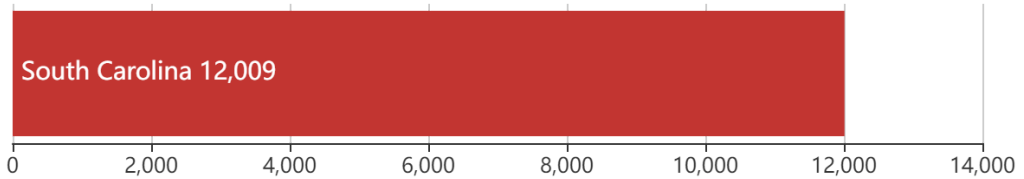
Updated as of 30 Sep 2022 (4:19 PM Central Daylight Time)

Debris

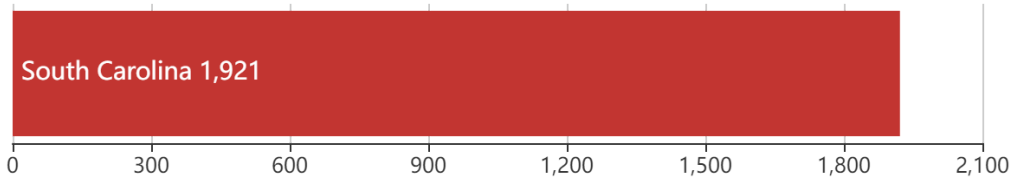
608.5K
cu. yd.



Est. Temp. Roofing
12K
units

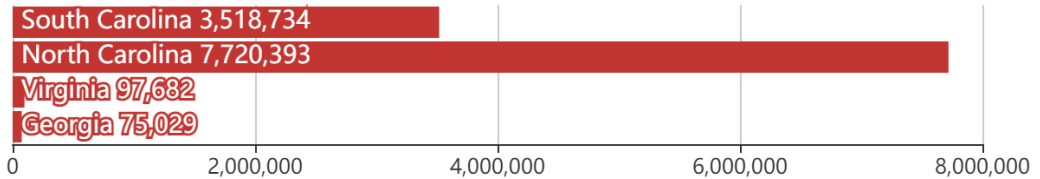


Act. Temp. Roofing
1.9K
units



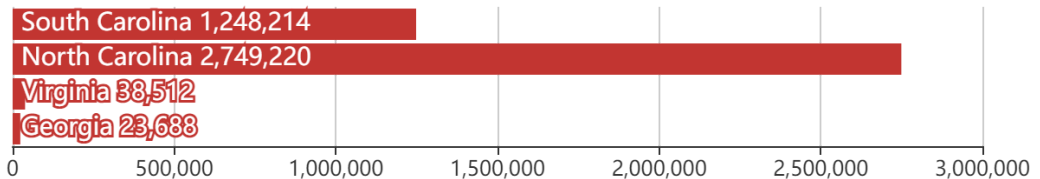
Population

11.4M
people



Households

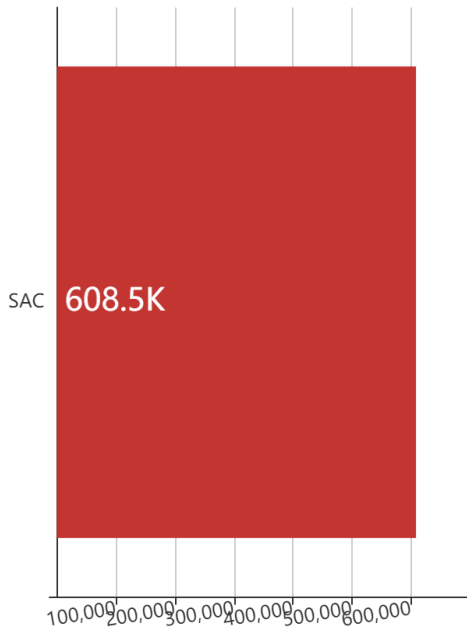
4.1M
households



Mission Model Summary

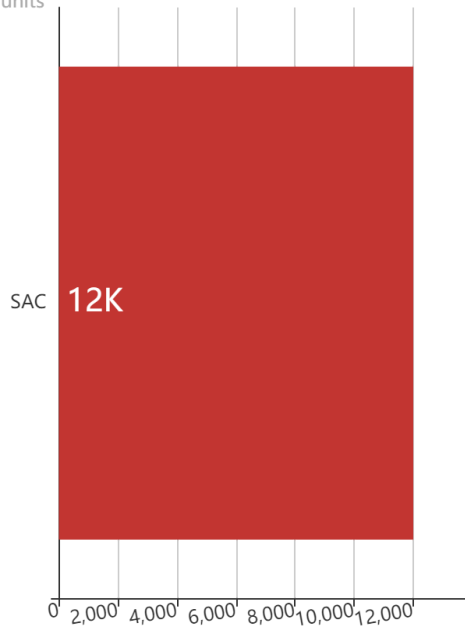
Debris By USACE District

cu. yd.

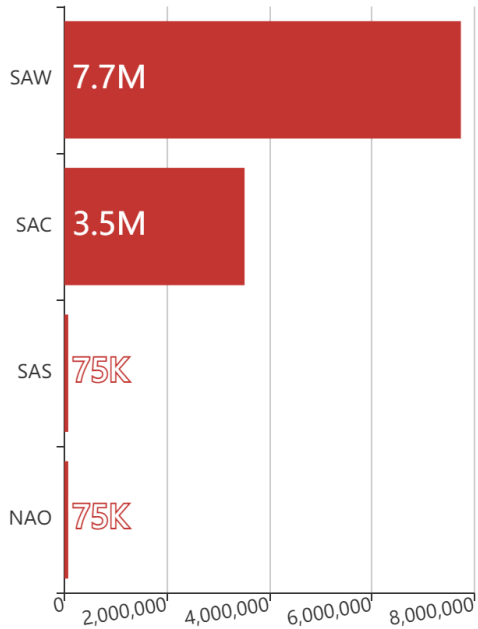


Est. Temp. Roofing By USACE District

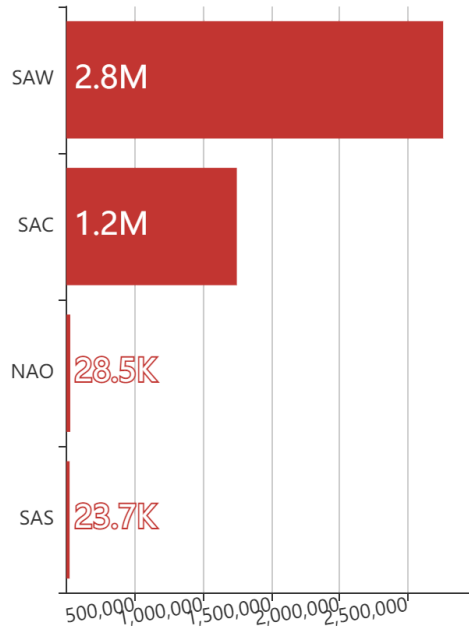
units



Population By USACE District



Households By USACE District



Critical Infrastructure Summary

Total

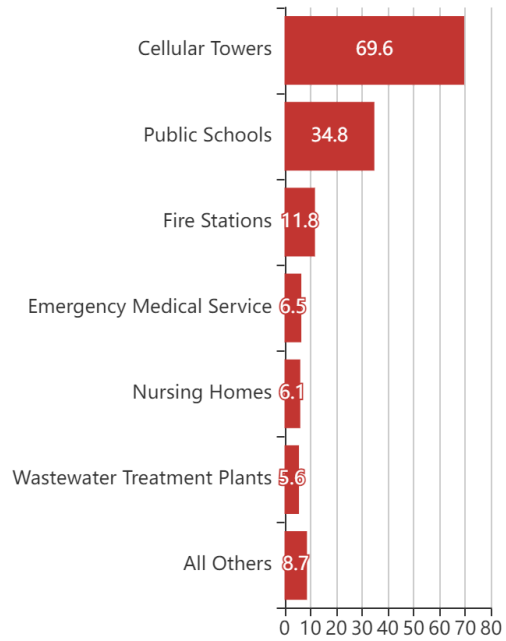


Power Requirements



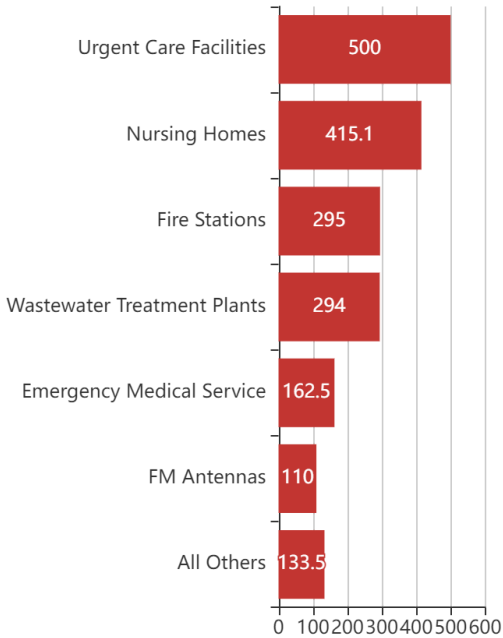
Generators

By Generator Count



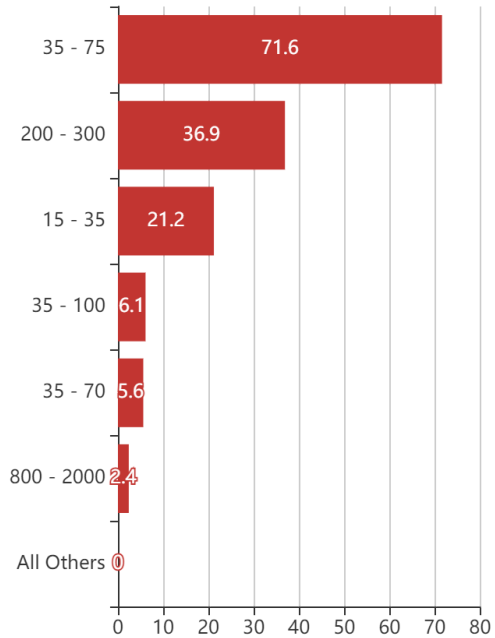
Generators

By Power Requirement



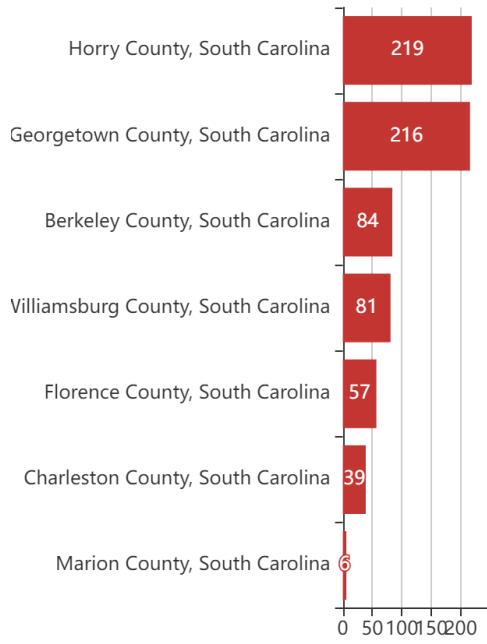
Generators

By Range



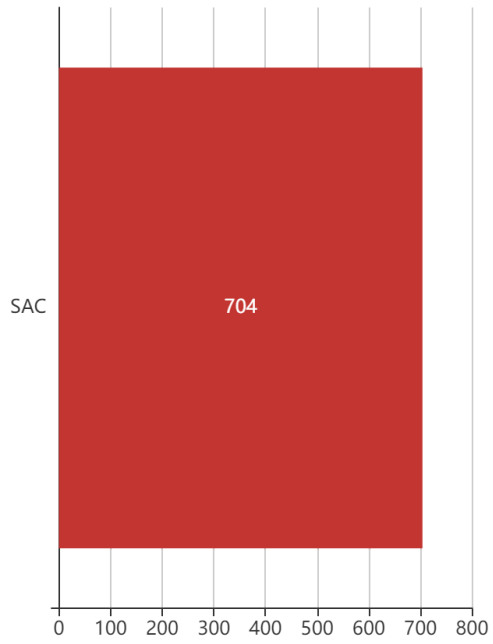
Structures

By County



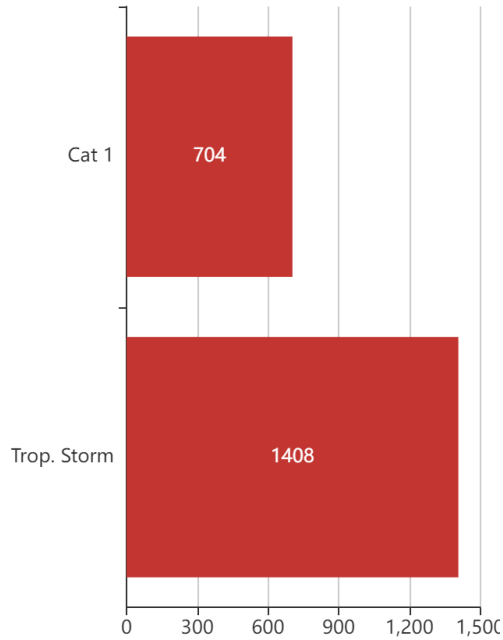
Structures

By USACE District

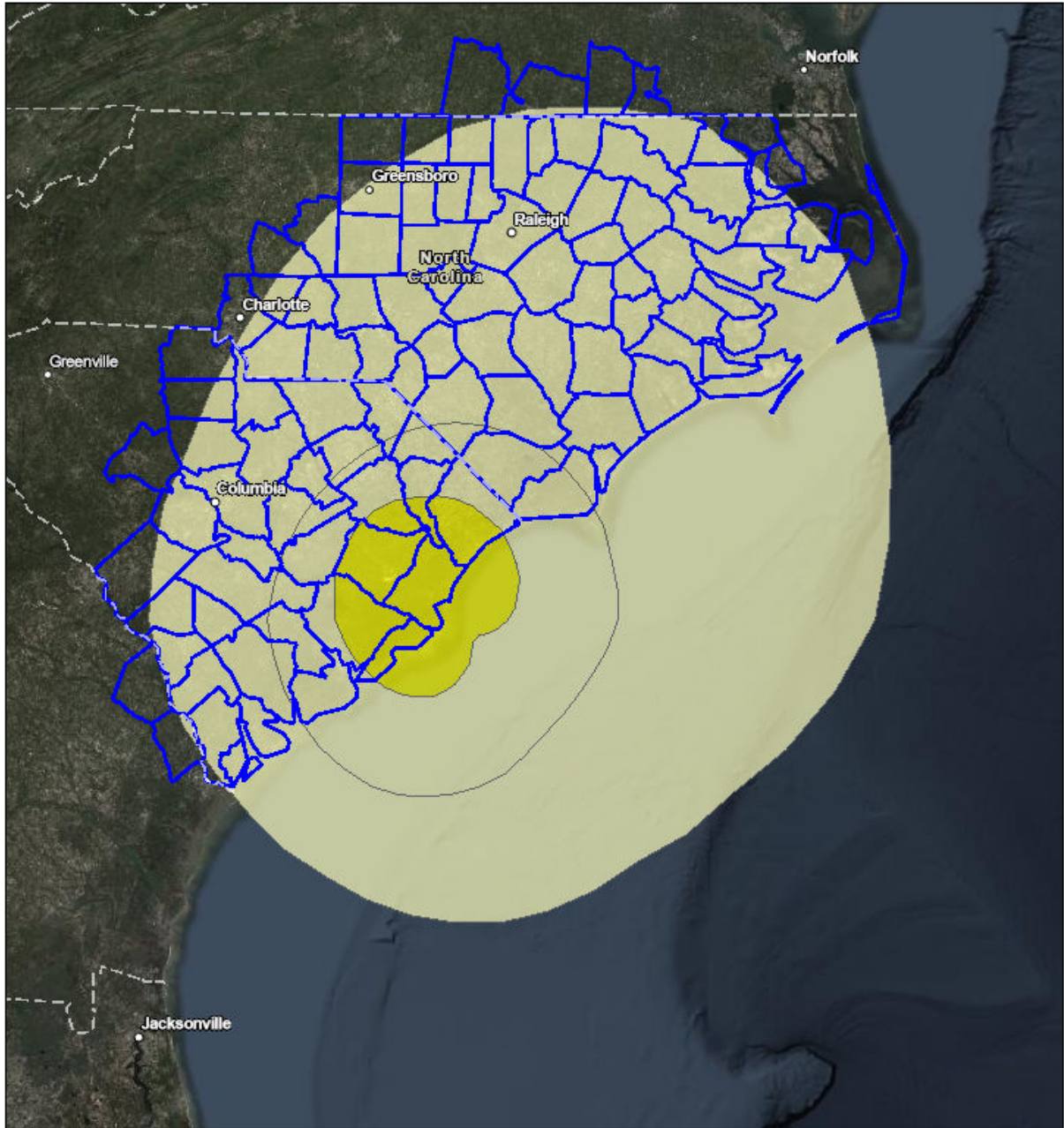


Structures

By Intensity



Letter ANSI A Portrait

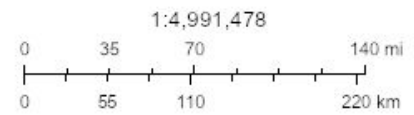


 Counties

Mission Model Swaths

 TS

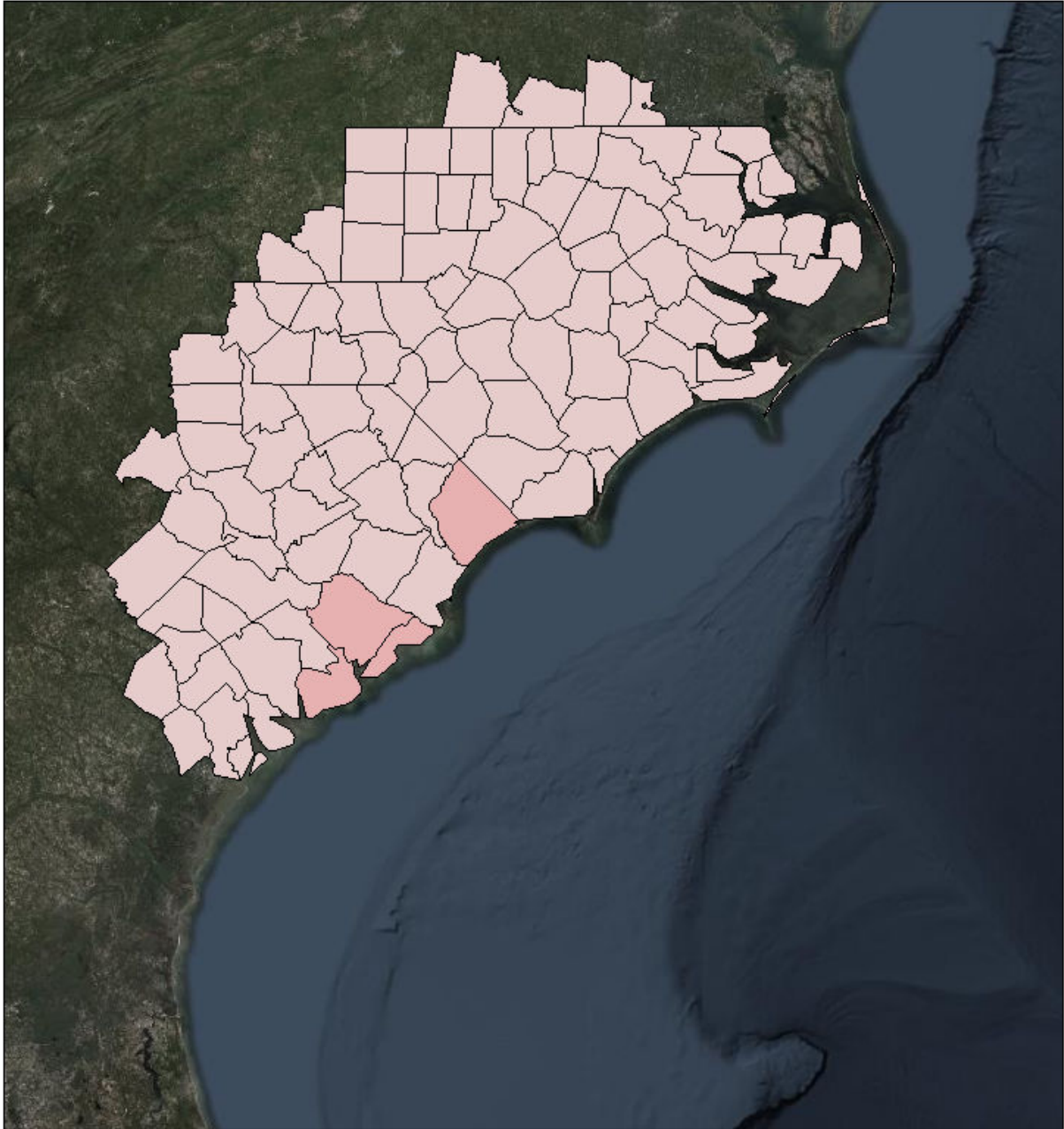
 Cat 1





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

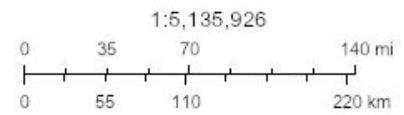
Created by SimSuite

Debris



Debris

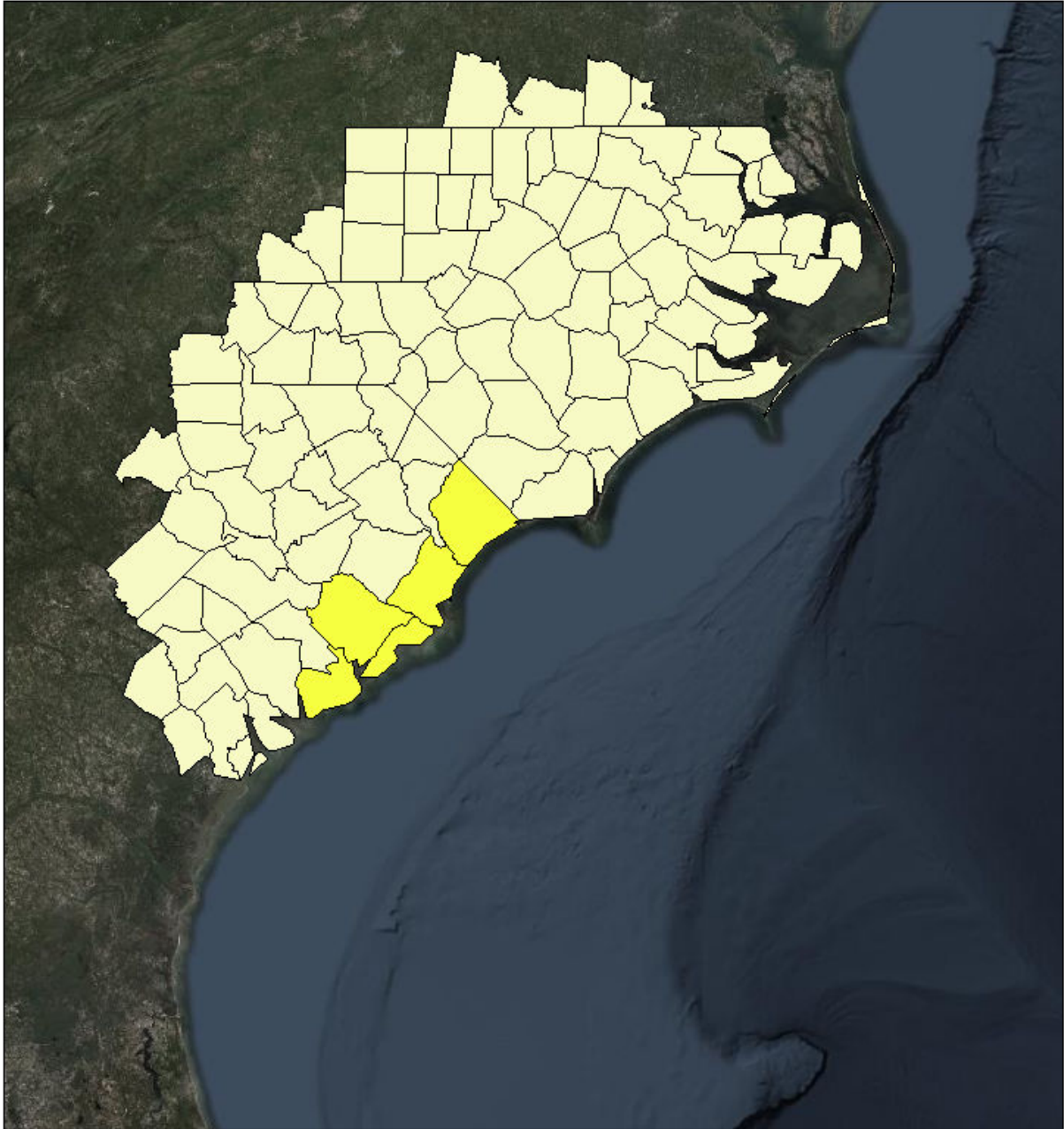
-  < 100,000 cubic yards
-  100,000 - 249,000 cubic yards



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


Created by SimSuite

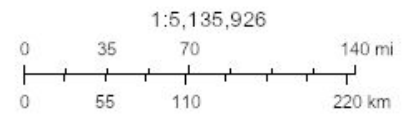
Est. Temp. Roofing



Est. Temp. Roofing

 < 1000 units

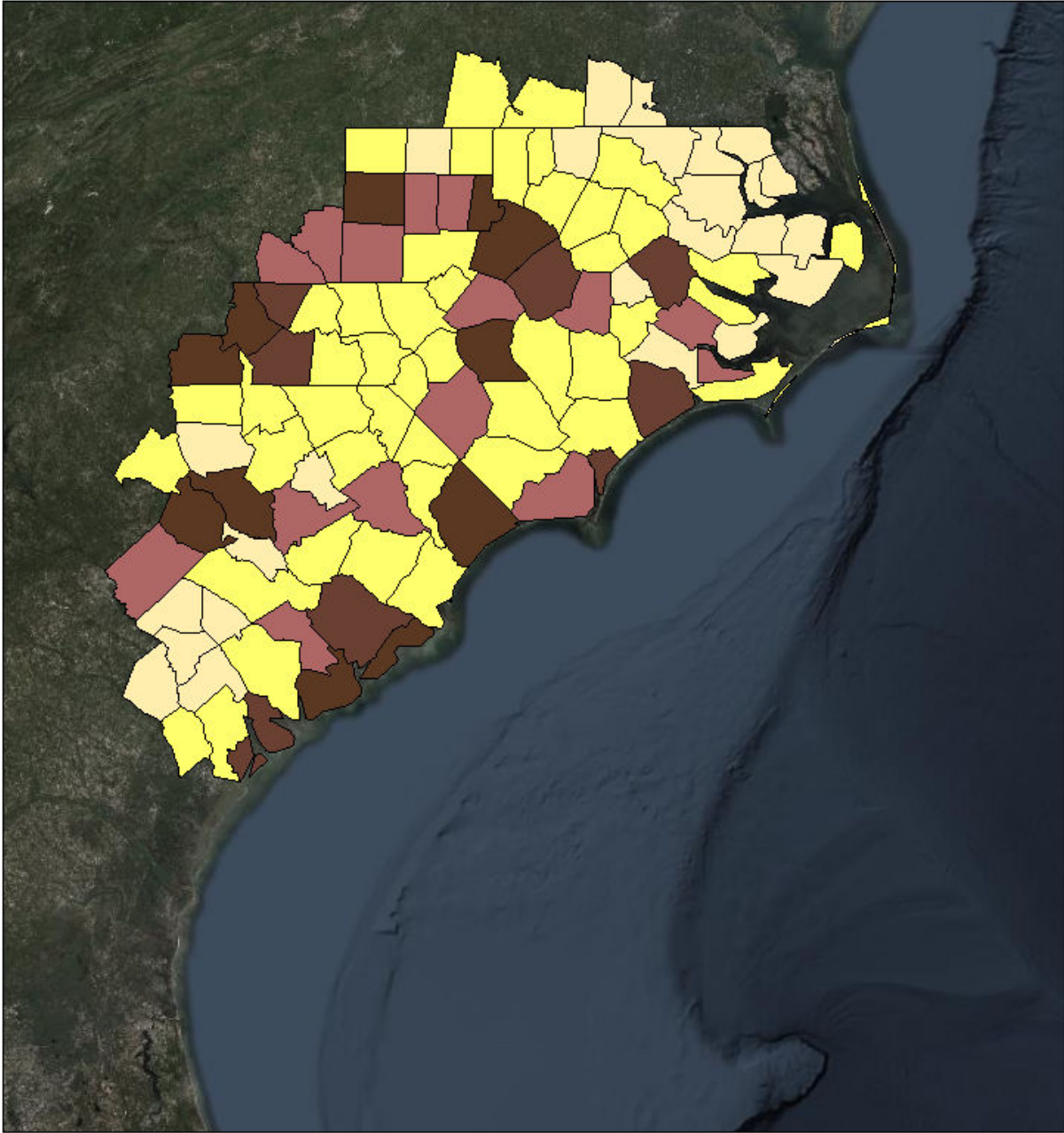
 1000 - 4999 units



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

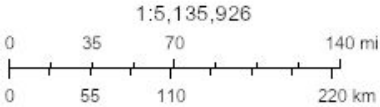
Created by SimSuite

Population



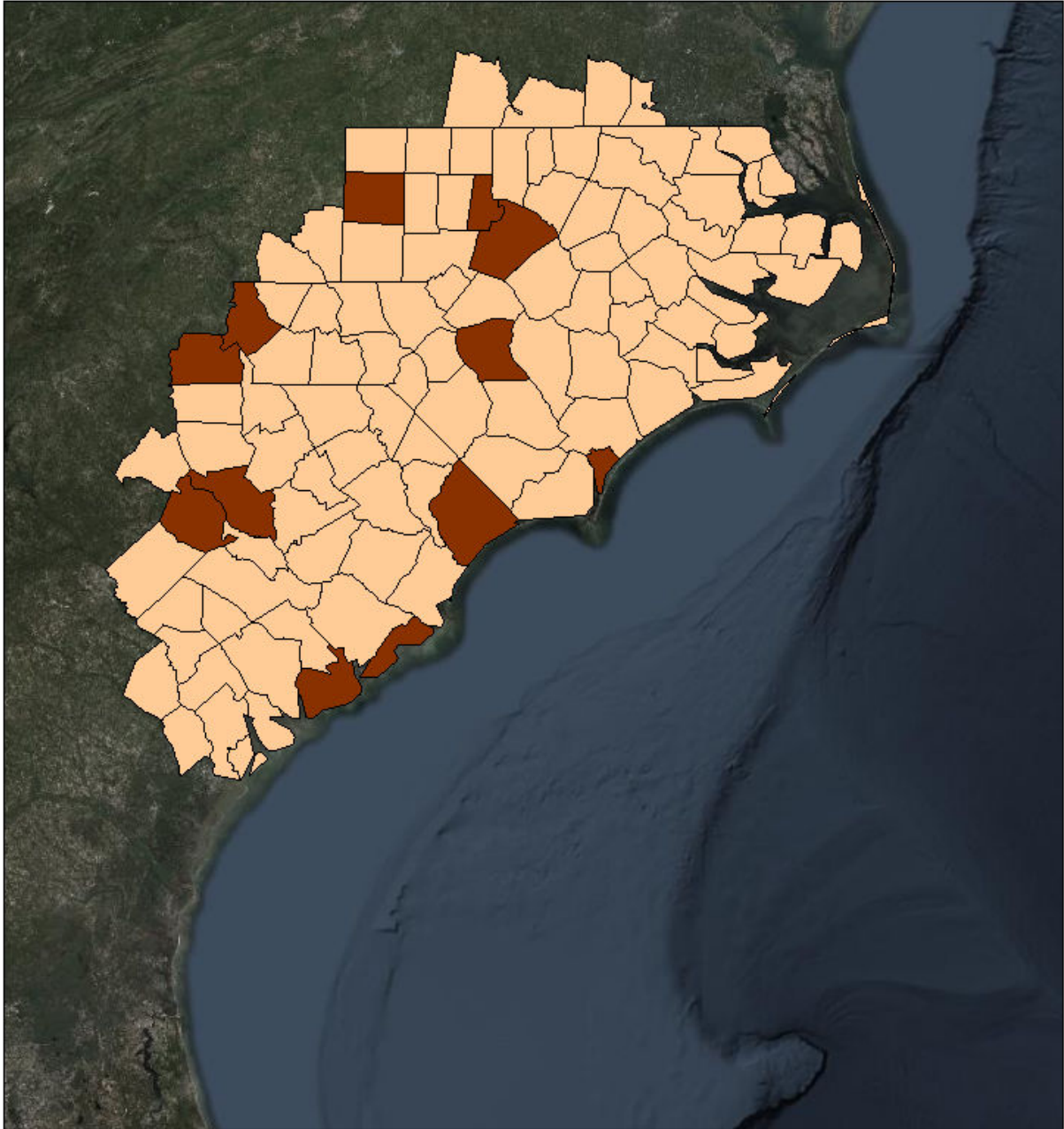
Population

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

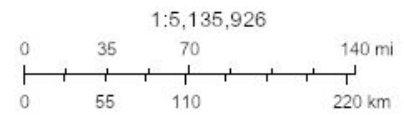


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Households



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	8
Debris (cu. yd.)	608,451
Est. Temp. Roofing (units)	12,009
Act. Temp. Roofing (units)	1,921
Population	11,411,838
Households	4,059,634

Population Distribution	
Tropical Storm	11,491,745
Category 1	607,820

GEORGIA	Yds of Debris (0)	Est. Roof Units (0)	Act. Roof Units (0)	Population (75,029)	Households (23,688)
Effingham	0	0	0	60,602	18,092
Screven	0	0	0	14,427	5,596

NORTH CAROLINA	Yds of Debris (0)	Est. Roof Units (0)	Act. Roof Units (0)	Population (7,720,393)	Households (2,749,220)
Alamance	0	0	0	161,563	59,960
Anson	0	0	0	26,294	9,755
Beaufort	0	0	0	49,465	19,941
Bertie	0	0	0	21,231	8,359
Bladen	0	0	0	35,031	14,430
Brunswick	0	0	0	129,300	46,297
Cabarrus	0	0	0	202,126	65,666
Carteret	0	0	0	71,014	28,870
Caswell	0	0	0	23,519	9,190
Chatham	0	0	0	74,307	25,845
Chowan	0	0	0	14,733	6,059
Columbus	0	0	0	57,071	22,489
Craven	0	0	0	105,595	40,299
Cumberland	0	0	0	329,248	122,431
Dare	0	0	0	36,888	14,335
Davidson	0	0	0	168,037	64,515
Duplin	0	0	0	60,130	22,495
Durham	0	0	0	313,764	109,348
Edgecombe	0	0	0	54,425	21,680
Franklin	0	0	0	65,061	23,023
Gates	0	0	0	11,628	4,665

Granville	0	0	0	58,822	20,628
Greene	0	0	0	21,226	7,313
Guilford	0	0	0	522,957	196,628
Halifax	0	0	0	53,233	21,970
Harnett	0	0	0	133,215	41,594
Hertford	0	0	0	24,332	9,334
Hoke	0	0	0	53,518	16,532
Hyde	0	0	0	5,432	2,119
Johnston	0	0	0	192,615	61,909
Jones	0	0	0	10,345	4,167
Lee	0	0	0	60,024	22,058
Lenoir	0	0	0	58,621	24,327
Martin	0	0	0	23,847	10,318
Mecklenburg	0	0	0	1,063,054	362,213
Montgomery	0	0	0	27,607	10,544
Moore	0	0	0	97,517	37,540
Nash	0	0	0	95,557	37,782
New Hanover	0	0	0	225,895	86,046
Northampton	0	0	0	20,765	9,193
Onslow	0	0	0	201,435	60,092
Orange	0	0	0	143,125	51,457
Pamlico	0	0	0	13,920	5,490
Pender	0	0	0	59,850	20,333
Perquimans	0	0	0	13,662	5,598
Person	0	0	0	40,035	15,826
Pitt	0	0	0	177,895	67,577
Randolph	0	0	0	145,537	55,373
Richmond	0	0	0	46,534	18,430
Robeson	0	0	0	136,600	47,997
Rockingham	0	0	0	92,585	38,693
Rowan	0	0	0	142,361	53,140
Sampson	0	0	0	65,148	24,005
Scotland	0	0	0	36,435	13,614
Stanly	0	0	0	61,870	23,589
Tyrrell	0	0	0	4,199	1,595
Union	0	0	0	230,722	67,864
Vance	0	0	0	45,186	17,395
Wake	0	0	0	1,061,504	345,645
Warren	0	0	0	20,620	8,321
Washington	0	0	0	12,442	5,526
Wayne	0	0	0	126,520	47,831
Wilson	0	0	0	83,196	31,962

SOUTH CAROLINA	Yds of Debris (608,451)	Est. Roof Units (12,009)	Act. Roof Units (1,921)	Population (3,518,734)	Households (1,248,214)
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	120,626	2,381	381	207,154	65,419
Calhoun	0	0	0	14,883	6,080
Charleston	142,200	2,807	449	403,176	144,309
Chester	0	0	0	33,257	12,876
Chesterfield	0	0	0	46,695	18,173
Clarendon	128	3	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
Fairfield	0	0	0	23,515	9,419
Florence	50,526	997	160	140,540	52,653
Georgetown	69,894	1,379	221	62,847	24,524
Hampton	0	0	0	21,006	7,598
Horry	176,862	3,491	559	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
Lee	0	0	0	18,136	6,797
Lexington	0	0	0	291,357	102,733
Marion	12,108	239	38	32,432	13,058
Marlboro	0	0	0	28,023	10,383
Newberry	0	0	0	38,634	14,709
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	36,107	713	114	33,331	13,007
York	0	0	0	259,723	85,864

VIRGINIA	Yds of Debris (0)	Est. Roof Units (0)	Act. Roof Units (0)	Population (97,682)	Households (38,512)
Brunswick	0	0	0	17,770	6,366
Greenville	0	0	0	12,122	3,566
Halifax	0	0	0	35,480	15,085
Mecklenburg	0	0	0	32,310	13,495

Critical Infrastructure

Summary			
Total Critical Facilities		704	
Power Requirements (kW)		17,884.9	
Range (kW)			
Communications	# FED Gen Req	Range (kW)	Req kW
Cellular Towers (116)	69.6	35 - 75	3,828.0
FM Antennas (40)	2.0	35 - 75	110.0
Education	# FED Gen Req	Range (kW)	Req kW
Private Schools (19)	0.0	200 - 300	0.0
Public Schools (116)	34.8	200 - 300	8,700.0
Colleges and Universities (5)	0.1	200 - 300	25.0
Emergency Services	# FED Gen Req	Range (kW)	Req kW
911 Call Centers (0)	0.0	15 - 35	0.0
Emergency Medical Service (65)	6.5	15 - 35	162.5
Fire Stations (118)	11.8	15 - 35	295.0
Healthcare	# FED Gen Req	Range (kW)	Req kW
Nursing Homes (41)	6.1	35 - 100	415.1
Hospitals (8)	2.4	800 - 2000	3,360.0
Urgent Care Facilities (10)	2.0	200 - 300	500.0
Law Enforcement	# FED Gen Req	Range (kW)	Req kW
Local Police (29)	2.9	15 - 35	72.5
Correctional Facilities (0)	0.0	400 - 600	0.0
State and Local EOCs	# FED Gen Req	Range (kW)	Req kW
Local Emergency Operations Centers (4)	0.8	15 - 40	22.0
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 (1)	0.0	100 - 300	0.0
Bus Stations (1)	0.0	100 - 300	0.0
Intermodal Terminal Facilities (6)	0.0	100 - 300	0.0
Railroad Stations (1)	0.0	100 - 300	0.0
Public-Use Airports (12)	1.4	40 - 100	100.8

Water and Wastewater	# FED Gen Req	Range (kW)	Req kW
Wastewater Treatment Plants (112)	5.6	35 - 70	294.0

COVID-19

#	County	Cases
1	Charleston	130,875
2	Horry	113,450
3	Berkeley	62,117
4	Florence	47,805
5	Georgetown	18,459
6	Clarendon	10,169
7	Marion	9,987
8	Williamsburg	9,677

Report Generated by SimSuite
<https://simsuite.usace.army.mil/wab/v2.15/MissionModels/#>