



US Army Corps
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Hurricane Ian Advisory #11

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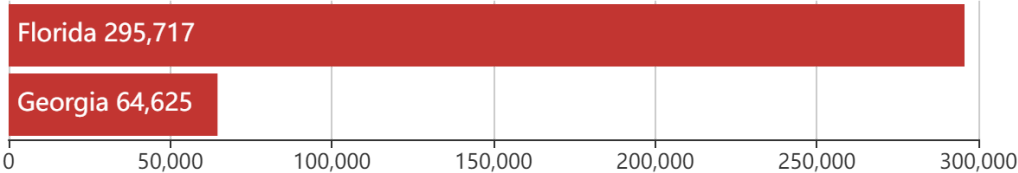
WASHINGTON, DC	CHICAGO	LOS ANGELES
17:41:57	16:41:57	14:41:57
25 Sep 2022	25 Sep 2022	25 Sep 2022

<https://simsuite.usace.army.mil/wab/v2.15/MissionModels/index.html#advid=264&oid=84&name=Hurricane%20Ian&advisory=Advisory%20%2311&advf=G>

Updated as of 25 Sep 2022 (4:41 PM Central Daylight Time)

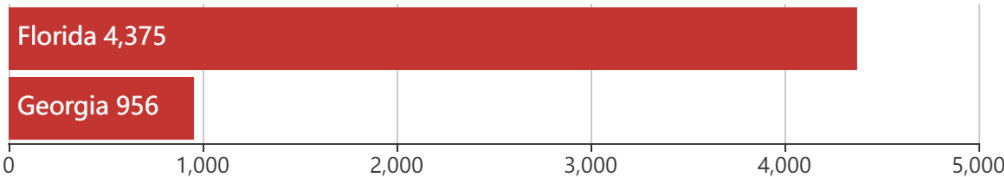
Debris

360.3K
cu. yd.



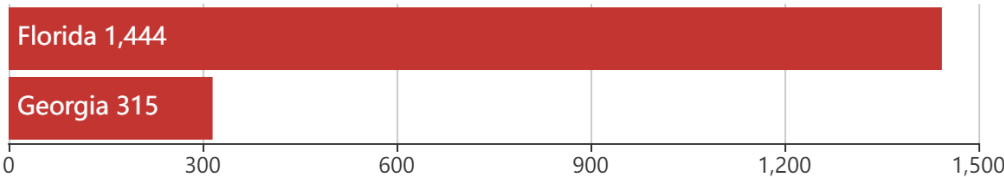
Temp. Roofing (eligible)

5.3K
units



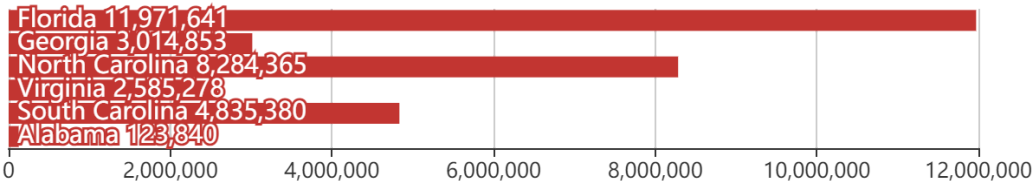
Temp. Roofing (actual)

1.8K
units



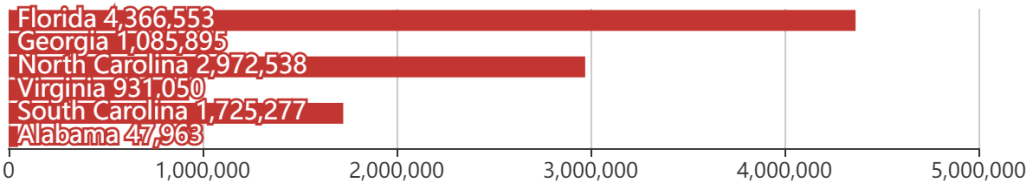
Population

30.8M
people



Households

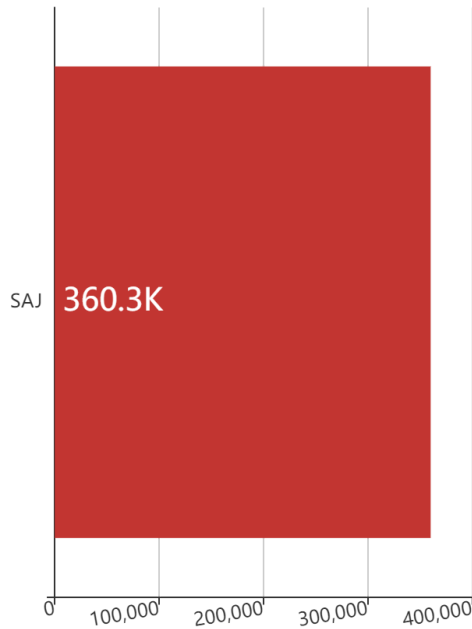
11.1M
households



Mission Model Summary

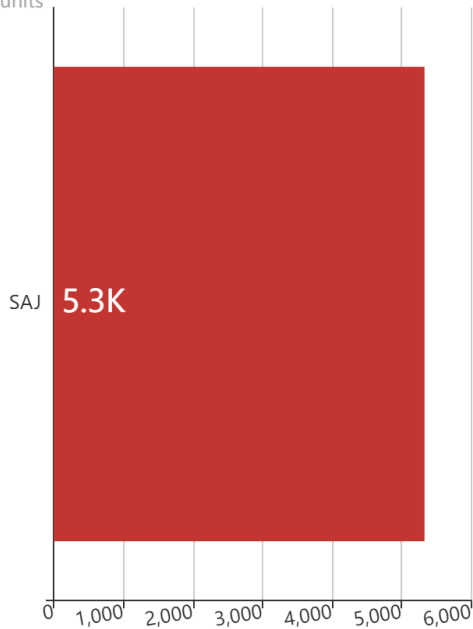
Debris By USACE District

cu. yd.

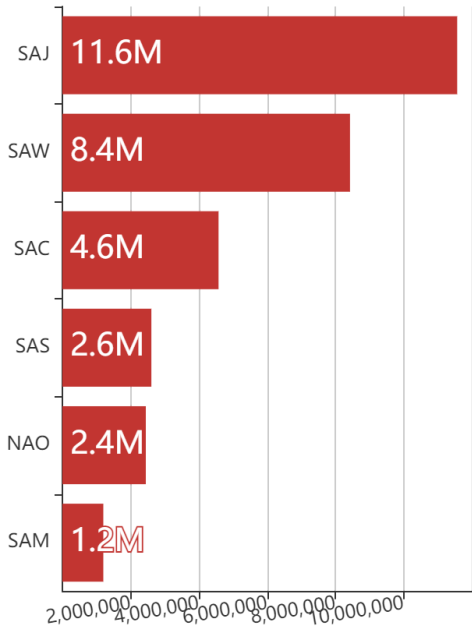


Est. Temp. Roofing By USACE District

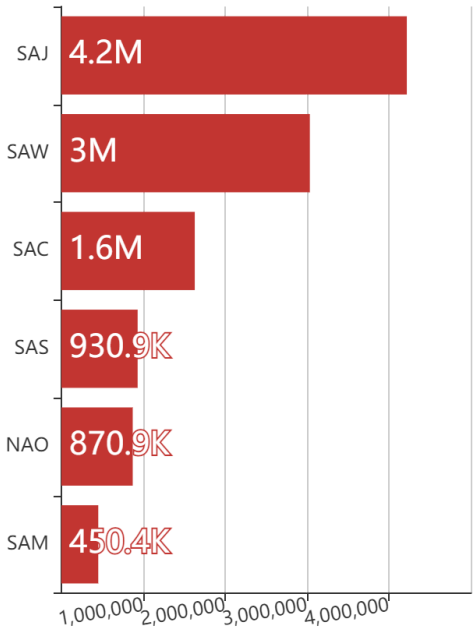
units



Population By USACE District

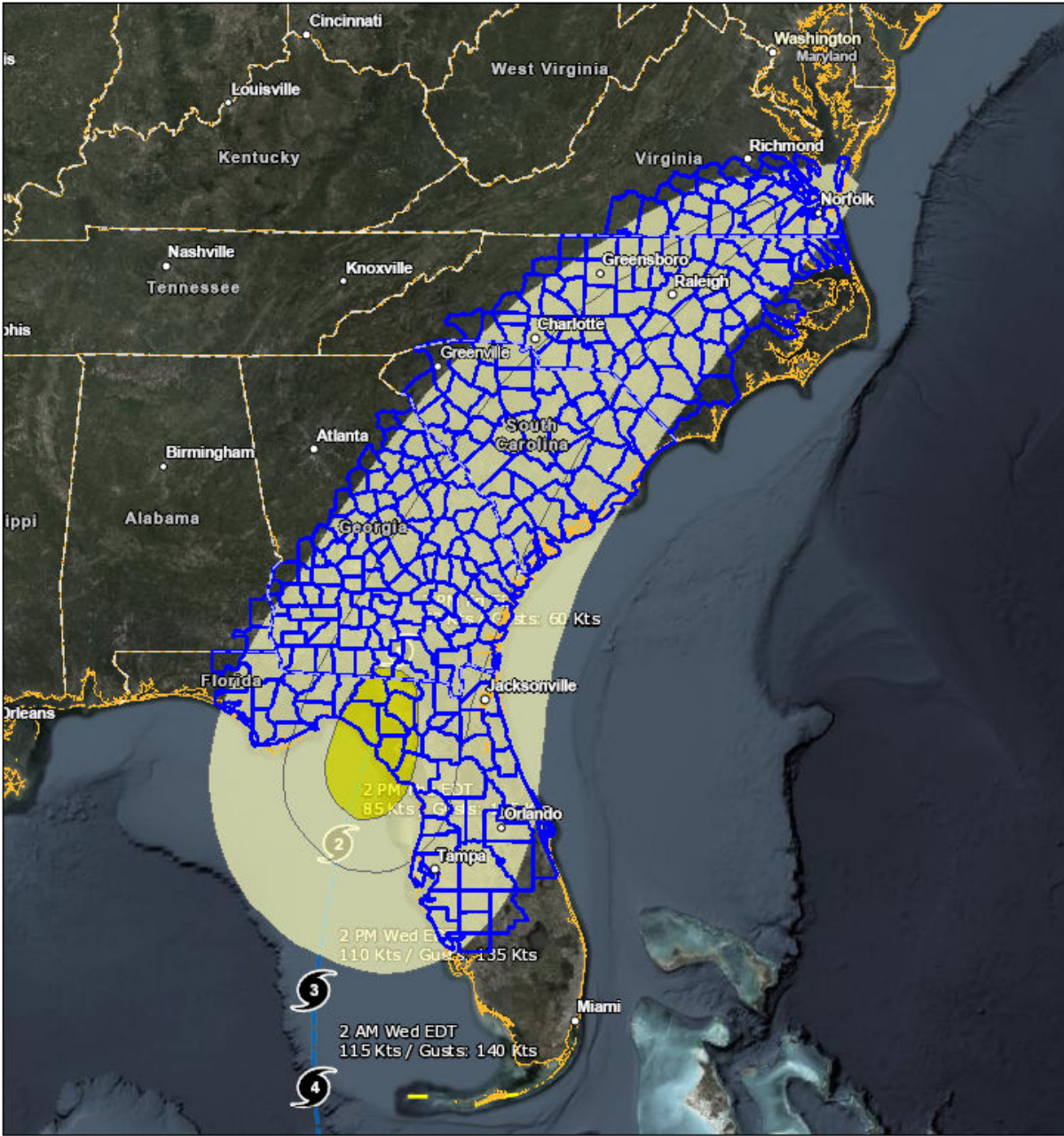


Households By USACE District



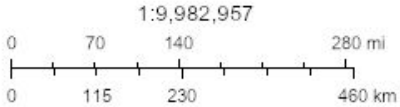
Critical Infrastructure Summary

Letter ANSI A Portrait



- Counties
- State Boundaries
- Mission Model Swaths
- TS
- Cat 1

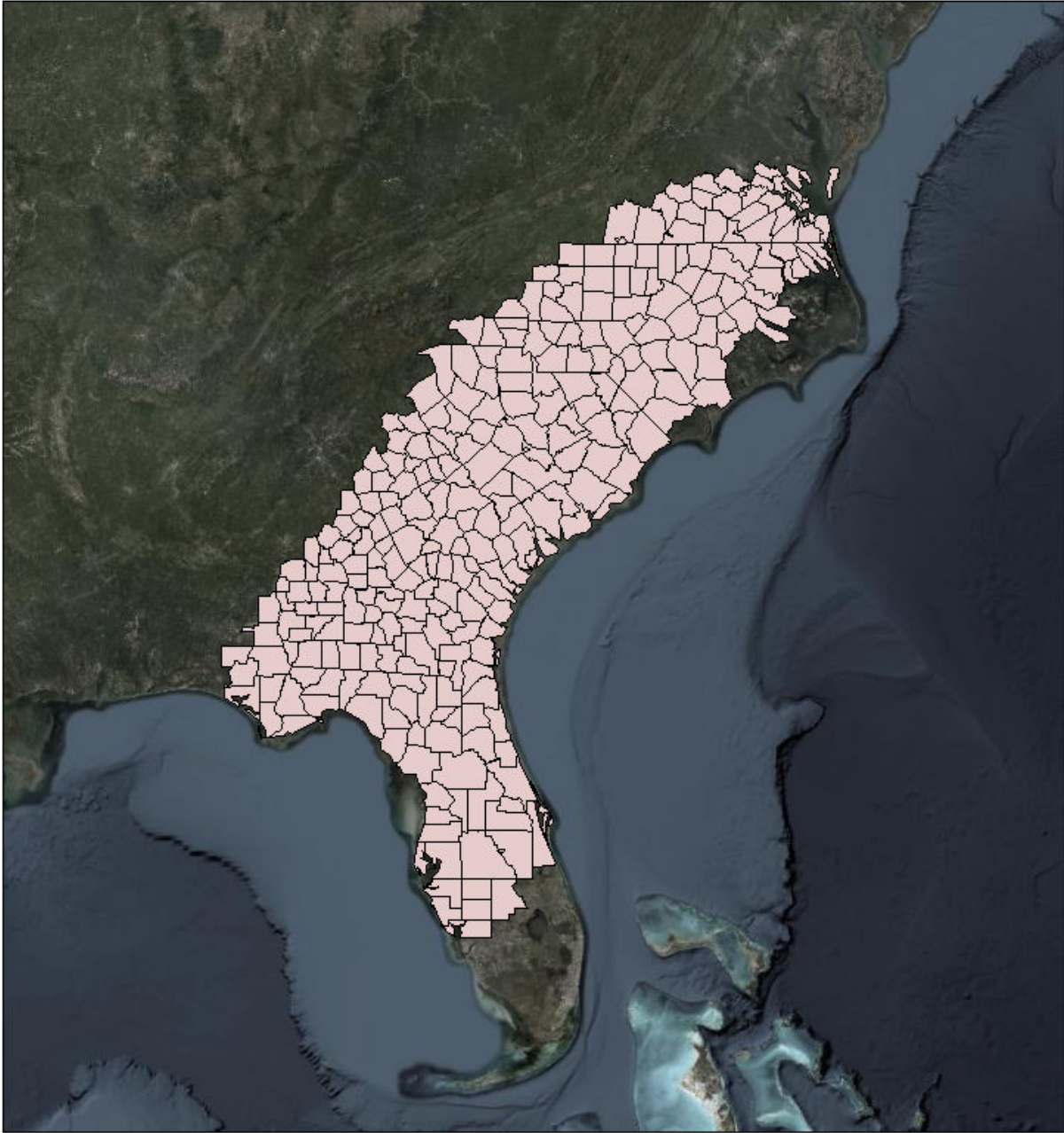
Tropical Cyclone Observed Surface Wind Swath
Observed (Best Track) Winds >= 34 knots (39 mph)



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, Savannah Area GIS, Esri, HERE, Garmin, FAO, NOAA,

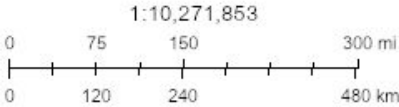
Created by SimSuite

Debris



Debris

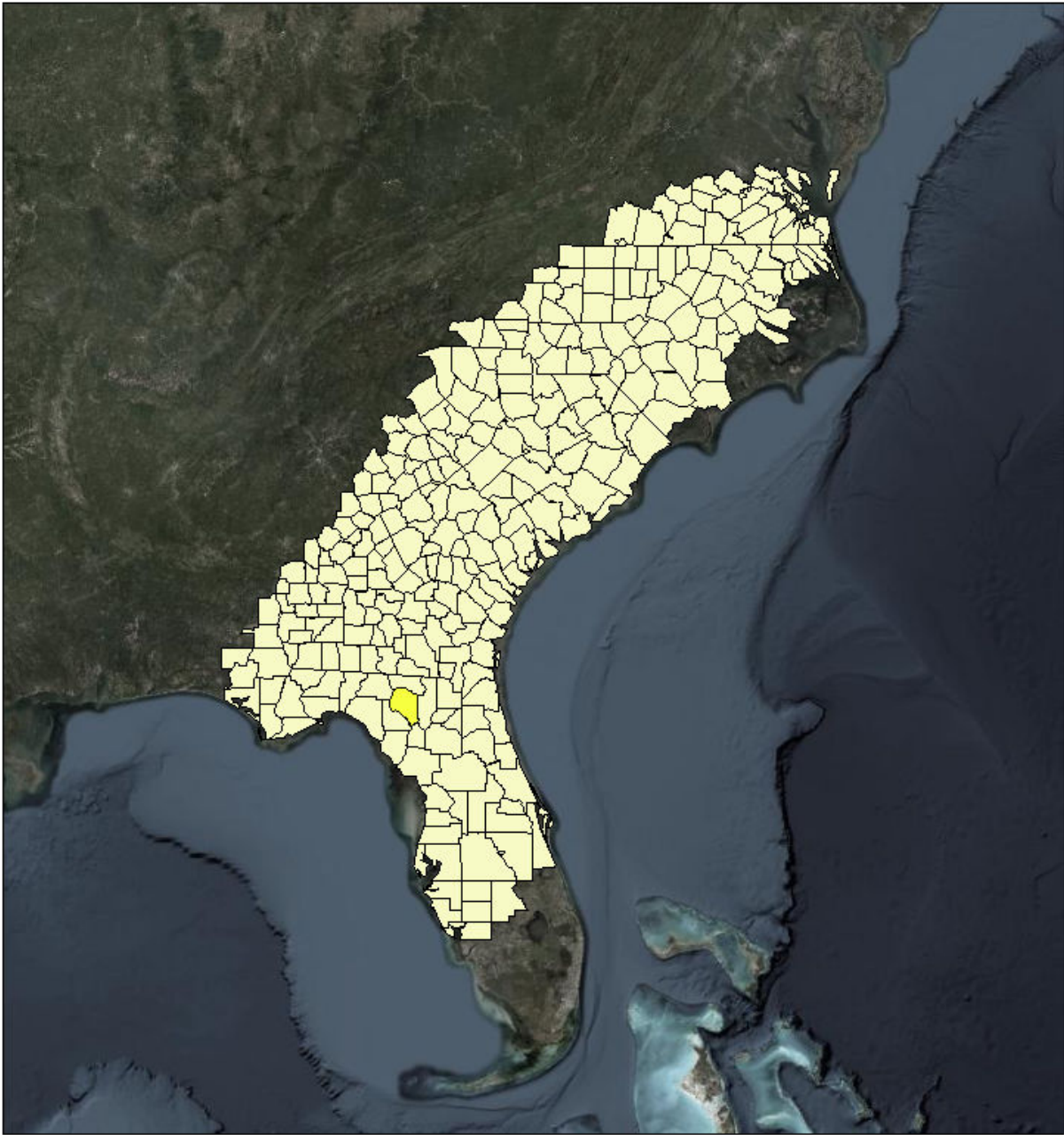
 < 100,000 cubic yards



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

Created by SimSuite

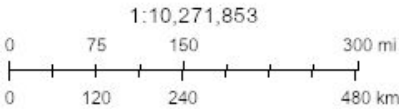
Est. Temp. Roofing



Est. Temp. Roofing

< 1000 units

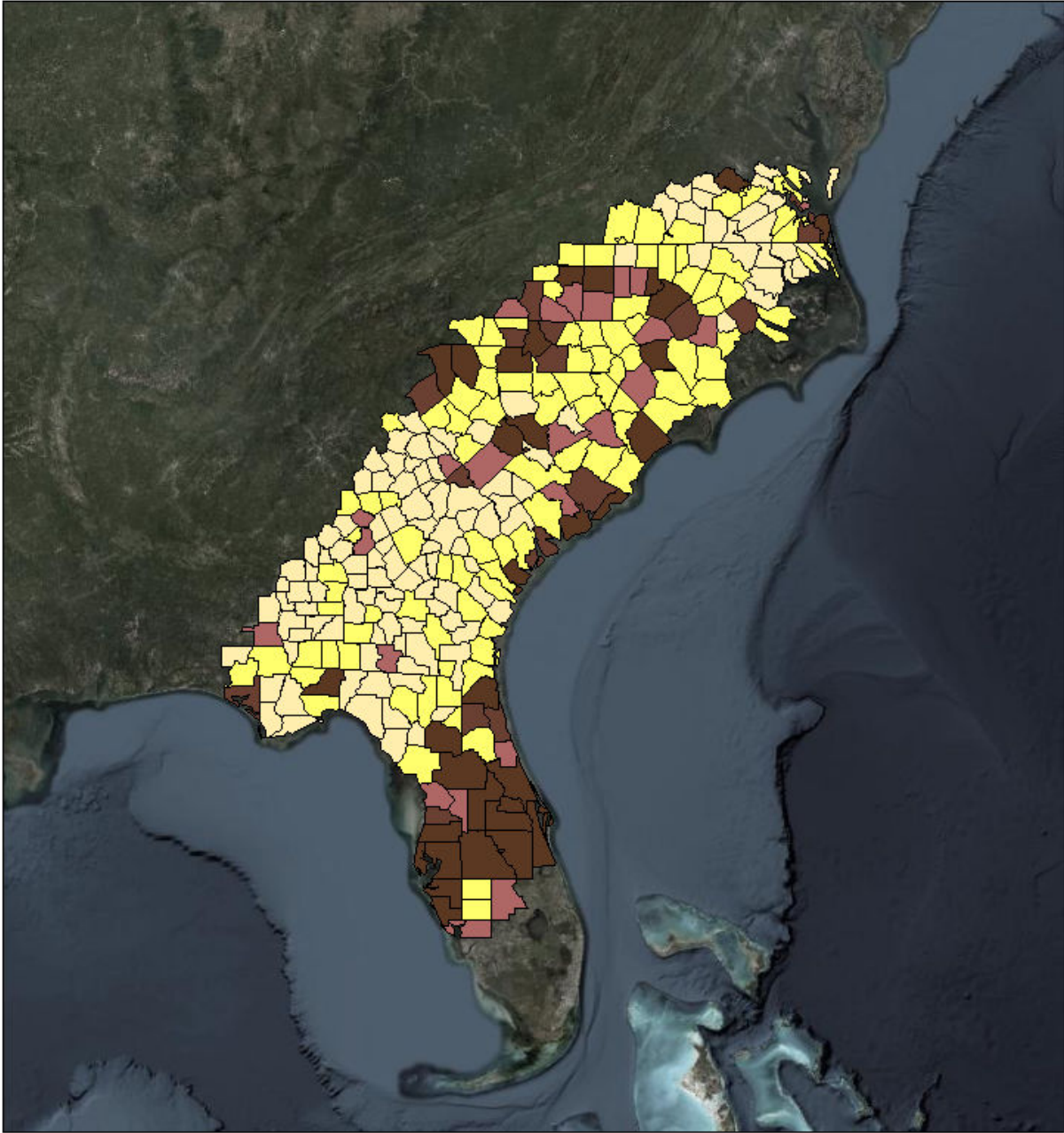
1000 - 4999 units



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

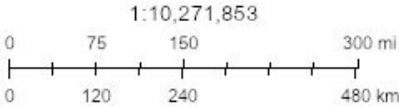
Created by SimSuite

Population



Population

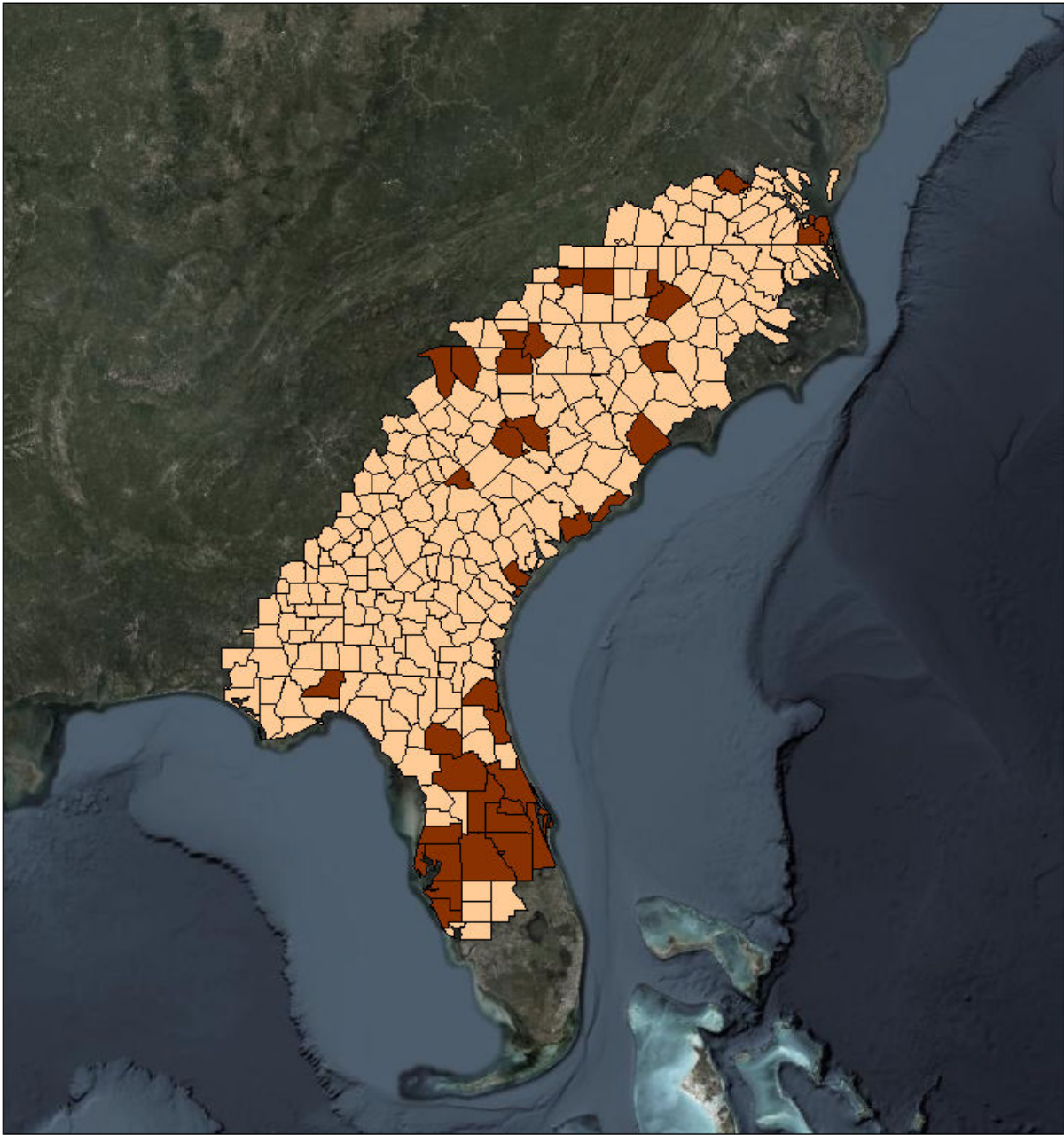
- < 25,000 persons
- 25,000 - 99,000 persons
- 100,000 - 174,999 persons
- 175,000 - 249,000 persons



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

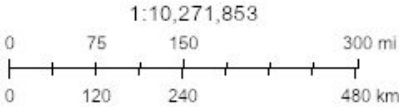
Created by SimSuite

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.)	184,791
Est. Temp. Roofing (units)	5,331
Act. Temp. Roofing (units)	1,759
Population	30,815,357
Households	11,129,276

Population Distribution	
Tropical Storm	28,534,184
Category 1	198,724

ALABAMA	Yds of Debris (0)	Est. Roof Units (0)	Act. Roof Units (0)	Population (123,840)	Households (47,963)
Henry	0	0	0	17,565	6,994
Houston	0	0	0	106,275	40,969

FLORIDA	Yds of Debris (295,717)	Est. Roof Units (4,375)	Act. Roof Units (1,444)	Population (11,971,641)	Households (4,366,553)
Alachua	0	0	0	262,216	100,516
Baker	0	0	0	28,042	8,772
Bay	0	0	0	180,035	68,438
Bradford	0	0	0	26,996	9,479
Brevard	0	0	0	578,927	229,692
Calhoun	0	0	0	14,630	5,061
Charlotte	0	0	0	173,978	73,370
Citrus	0	0	0	144,825	63,304
Clay	0	0	0	209,524	68,792
Columbia	16,372	242	80	69,419	24,941
DeSoto	0	0	0	36,506	11,445
Dixie	32,022	474	156	16,299	6,316
Duval	0	0	0	932,755	342,450
Flagler	0	0	0	108,166	39,186
Franklin	0	0	0	11,622	4,254
Gadsden	0	0	0	47,015	16,952
Gilchrist	22,774	337	111	17,436	6,121
Gulf	0	0	0	16,377	5,335
Hamilton	19,298	285	94	14,344	4,617
Hardee	0	0	0	28,518	8,245
Hernando	0	0	0	182,273	71,745

Highlands	0	0	0	102,012	42,604
Hillsborough	0	0	0	1,382,695	474,030
Holmes	0	0	0	19,865	7,354
Jackson	0	0	0	50,086	17,417
Jefferson	3,932	58	19	14,547	5,646
Lafayette	13,081	194	64	8,476	2,580
Lake	0	0	0	339,742	121,289
Leon	0	0	0	288,630	110,945
Levy	31,790	470	155	41,097	16,404
Liberty	0	0	0	8,737	2,525
Madison	35,413	524	173	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
Osceola	0	0	0	333,980	90,603
Pasco	0	0	0	512,082	189,612
Pinellas	0	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
Seminole	0	0	0	457,650	164,706
St. Johns	0	0	0	238,439	75,338
Sumter	0	0	0	125,329	41,361
Suwannee	80,882	1,196	395	44,733	15,953
Taylor	40,154	594	196	22,641	7,920
Union	0	0	0	15,704	4,048
Volusia	0	0	0	528,719	208,236
Wakulla	0	0	0	32,143	10,490
Washington	0	0	0	25,039	8,864

GEORGIA	Yds of Debris (64,625)	Est. Roof Units (956)	Act. Roof Units (315)	Population (3,014,853)	Households (1,085,895)
Appling	0	0	0	18,451	6,969
Atkinson	0	0	0	9,278	2,983
Bacon	0	0	0	11,414	4,214
Baker	0	0	0	3,429	1,372
Baldwin	0	0	0	46,287	16,788
Ben Hill	0	0	0	17,395	6,794
Berrien	0	0	0	19,179	7,443
Bibb	0	0	0	155,460	60,295
Bleckley	0	0	0	13,279	4,660
Brantley	0	0	0	18,729	6,885
Brooks	3,043	45	15	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
Calhoun	0	0	0	6,571	2,002
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
Clay	0	0	0	3,110	1,331
Clinch	0	0	0	6,915	2,572
Coffee	0	0	0	44,088	14,817
Colquitt	0	0	0	46,507	16,317
Columbia	0	0	0	153,260	44,898
Cook	0	0	0	17,974	6,339
Crawford	0	0	0	12,404	4,822
Crisp	0	0	0	22,712	9,079
Decatur	0	0	0	27,294	10,390
Dodge	0	0	0	21,017	8,177
Dooly	0	0	0	14,262	5,286
Dougherty	0	0	0	91,478	36,508
Early	0	0	0	10,702	4,228
Echols	1,758	26	9	4,137	1,329
Effingham	0	0	0	60,602	18,092
Elbert	0	0	0	19,668	8,063
Emanuel	0	0	0	23,103	8,430
Evans	0	0	0	11,202	4,033
Glascokk	0	0	0	3,091	1,162
Glynn	0	0	0	84,625	31,774
Grady	0	0	0	25,489	9,418
Greene	0	0	0	17,316	6,519
Hancock	0	0	0	8,500	3,341
Houston	0	0	0	151,755	53,051
Irwin	0	0	0	9,302	3,495
Jasper	0	0	0	13,773	5,044
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
Jones	0	0	0	28,632	10,586
Lanier	0	0	0	10,158	3,608
Laurens	0	0	0	48,971	18,641
Lee	0	0	0	30,338	9,706
Liberty	0	0	0	64,510	22,155
Lincoln	0	0	0	7,814	3,281

Long	0	0	0	18,728	5,023
Lowndes	59,823	885	292	114,022	39,747
Macon	0	0	0	13,638	4,999
Madison	0	0	0	28,952	10,508
Marion	0	0	0	9,044	3,420
McDuffie	0	0	0	21,779	8,289
McIntosh	0	0	0	13,862	5,971
Miller	0	0	0	5,954	2,426
Mitchell	0	0	0	22,950	8,055
Monroe	0	0	0	27,242	9,662
Montgomery	0	0	0	9,422	3,287
Morgan	0	0	0	18,378	6,660
Oglethorpe	0	0	0	15,499	5,647
Peach	0	0	0	26,995	9,958
Pierce	0	0	0	19,286	7,083
Pulaski	0	0	0	11,659	4,475
Putnam	0	0	0	21,541	8,601
Quitman	0	0	0	2,261	1,053
Randolph	0	0	0	7,610	3,187
Richmond	0	0	0	204,200	76,924
Schley	0	0	0	5,240	1,872
Screven	0	0	0	14,427	5,596
Seminole	0	0	0	8,594	3,509
Stewart	0	0	0	5,798	1,862
Sumter	0	0	0	31,626	12,123
Taliaferro	0	0	0	1,676	759
Tattnall	0	0	0	25,147	8,210
Taylor	0	0	0	8,521	3,522
Telfair	0	0	0	16,196	5,543
Terrell	0	0	0	9,379	3,519
Thomas	0	0	0	46,458	17,573
Tift	0	0	0	41,027	14,836
Toombs	0	0	0	27,659	10,375
Treutlen	0	0	0	6,916	2,543
Turner	0	0	0	8,624	3,339
Twiggs	0	0	0	8,413	3,634
Ware	0	0	0	35,094	13,654
Warren	0	0	0	5,524	2,315
Washington	0	0	0	21,289	7,547
Wayne	0	0	0	29,612	10,562
Webster	0	0	0	2,833	1,119
Wheeler	0	0	0	7,905	2,152
Wilcox	0	0	0	9,288	2,891

viikes	0	0	0	10,330	4,203
Wilkinson	0	0	0	9,285	3,666
Worth	0	0	0	21,111	8,214

NORTH CAROLINA	Yds of Debris (0)	Est. Roof Units (0)	Act. Roof Units (0)	Population (8,284,365)	Households (2,972,538)
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
Cabarrus	0	0	0	202,126	65,666
Camden	0	0	0	10,475	3,675
Caswell	0	0	0	23,519	9,190
Catawba	0	0	0	158,261	60,887
Chatham	0	0	0	74,307	25,845
Chowan	0	0	0	14,733	6,059
Cleveland	0	0	0	98,074	38,555
Columbus	0	0	0	57,071	22,489
Cumberland	0	0	0	329,248	122,431
Currituck	0	0	0	26,415	8,880
Davidson	0	0	0	168,037	64,515
Davie	0	0	0	42,146	16,245
Duplin	0	0	0	60,130	22,495
Durham	0	0	0	313,764	109,348
Edgecombe	0	0	0	54,425	21,680
Forsyth	0	0	0	375,124	141,163
Franklin	0	0	0	65,061	23,023
Gaston	0	0	0	218,244	79,867
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
Iredell	0	0	0	176,156	61,215
Johnston	0	0	0	192,615	61,909
Lee	0	0	0	60,024	22,058
Lenoir	0	0	0	58,621	24,327
Lincoln	0	0	0	82,758	30,343
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
Northampton	0	0	0	20,765	9,193
Orange	0	0	0	143,125	51,457
Pasquotank	0	0	0	40,108	14,956
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
Rutherford	0	0	0	68,012	27,466
Sampson	0	0	0	65,148	24,005
Scotland	0	0	0	36,435	13,614
Stanly	0	0	0	61,870	23,589
Stokes	0	0	0	46,710	19,416
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
Wayne	0	0	0	126,520	47,831
Wilson	0	0	0	83,196	31,962
Yadkin	0	0	0	37,954	15,486

SOUTH CAROLINA	Yds of Debris (0)	Est. Roof Units (0)	Act. Roof Units (0)	Population (4,835,380)	Households (1,725,277)
Abbeville	0	0	0	25,238	9,990
Aiken	0	0	0	170,230	64,253
Allendale	0	0	0	9,774	3,706
Anderson	0	0	0	198,293	73,829
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
Cherokee	0	0	0	57,032	21,519
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

Countdown	0	0	0	0	0
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
Greenville	0	0	0	506,457	176,531
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
Spartanburg	0	0	0	305,813	109,246
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

VIRGINIA	Yds of Debris (0)	Est. Roof Units (0)	Act. Roof Units (0)	Population (2,585,278)	Households (931,050)
Amelia	0	0	0	13,216	4,821
Brunswick	0	0	0	17,770	6,366
Charles City	0	0	0	7,223	2,955
Charlotte	0	0	0	12,596	5,109
Chesapeake	0	0	0	242,617	79,574
Chesterfield	0	0	0	342,909	115,680
Colonial Heights	0	0	0	17,960	7,275
Danville	0	0	0	42,508	18,831
Dinwiddie	0	0	0	28,370	10,504
Emporia	0	0	0	5,747	2,316
Franklin City	0	0	0	8,608	3,530
Gloucester	0	0	0	39,109	14,293
Greensville	0	0	0	12,122	3,566
Halifax	0	0	0	35,480	15,085
Hampton	0	0	0	137,515	55,031
Hopewell	0	0	0	22,935	9,129
Isle of Wight	0	0	0	37,553	13,718
James City	0	0	0	76,418	26,860
Lunenburg	0	0	0	12,814	4,957
Mathews	0	0	0	8,946	3,858
Mecklenburg	0	0	0	32,310	13,495
New Kent	0	0	0	21,531	6,813
Newport News	0	0	0	188,299	70,664
Norfolk	0	0	0	248,958	86,485
Northampton	0	0	0	12,476	5,323
Nottoway	0	0	0	16,387	5,706
Petersburg	0	0	0	33,510	13,634
Pittsylvania	0	0	0	63,310	26,183
Poquoson	0	0	0	12,270	4,525
Portsmouth	0	0	0	96,896	37,324
Prince Edward	0	0	0	23,817	7,916
Prince George	0	0	0	37,564	11,451
Southampton	0	0	0	18,521	6,719
Suffolk	0	0	0	92,337	30,868
Surry	0	0	0	7,034	2,826
Sussex	0	0	0	12,087	3,994
Virginia Beach	0	0	0	461,663	165,089
Williamsburg	0	0	0	14,904	4,571
York	0	0	0	68,988	24,006

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