



# Hurricane Florence - Advisory #58

For Planning Purposes Only!

[http://simsuite.usace.army.mil/agol/apps/missionmodels/index.html?\\_66=44](http://simsuite.usace.army.mil/agol/apps/missionmodels/index.html?_66=44)

Updated as of 13 Sep 2018 (6:10 PM Eastern Daylight Time)



## Debris

3,901,487

cu. yd.

North Carolina 63% (2,439,498)

South Carolina 29% (1,149,947)

Virginia 8% (312,042)



## Temporary Roofing

11,469

units

North Carolina 85% (9,800)

South Carolina 15% (1,669)

Virginia <1% (0)



## Population

10,628,916

people

North Carolina 61% (6,520,141)

South Carolina 30% (3,218,526)

Virginia 8% (890,249)



## Households

3,381,618

households

North Carolina 60% (2,045,405)

South Carolina 31% (1,038,638)

Virginia 9% (297,575)



## Critical Infrastructure

### North Carolina



(48) 15 - 35 kW



(2) 15 - 40 kW



(68) 35 - 75 kW



(13) 35 - 100 kW



(6) 40 - 100 kW



(77) 200 - 300 kW



(4) 400 - 600 kW



(11) 800 - 2000 kW

### South Carolina



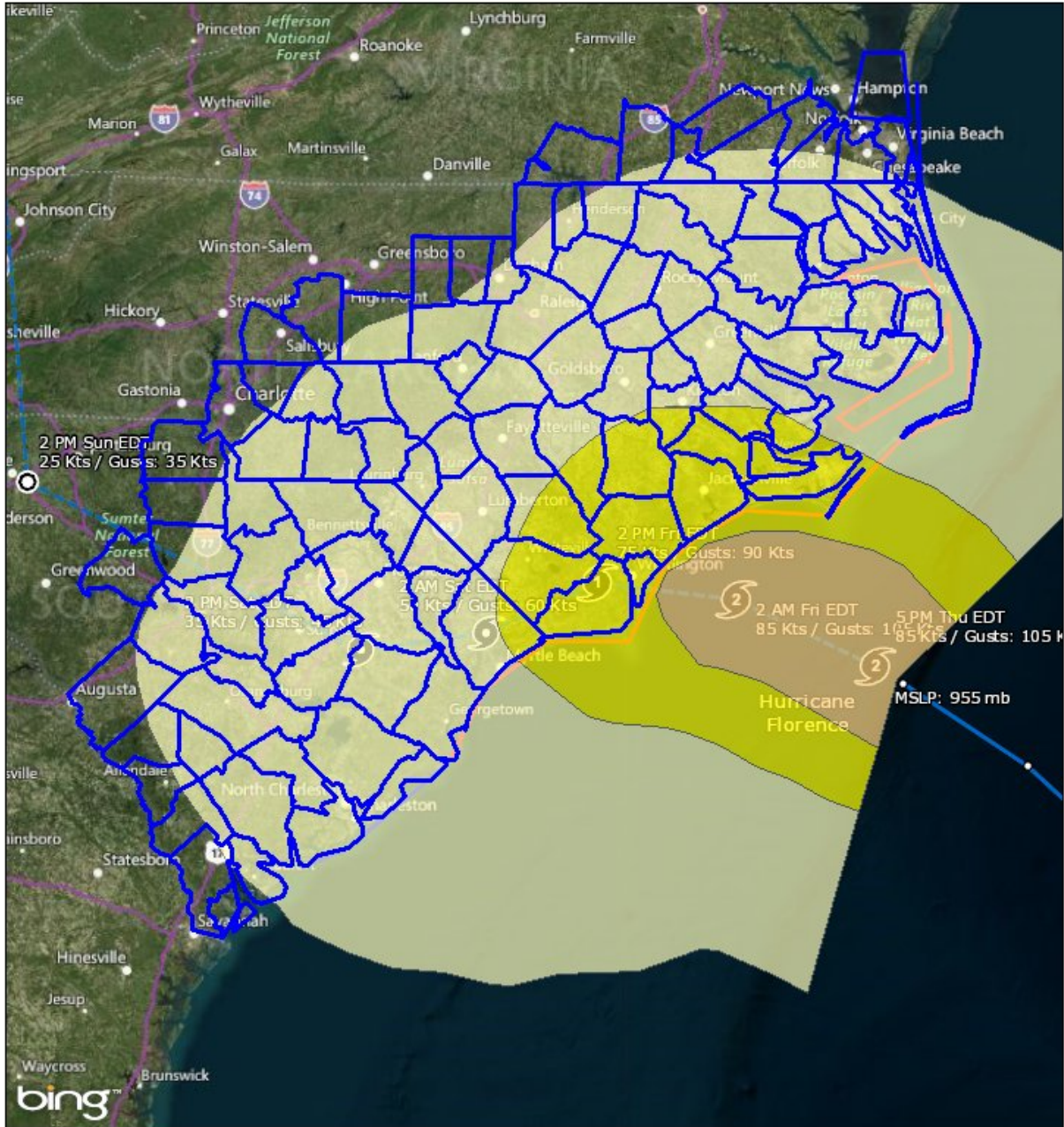
(1) 15 - 35 kW

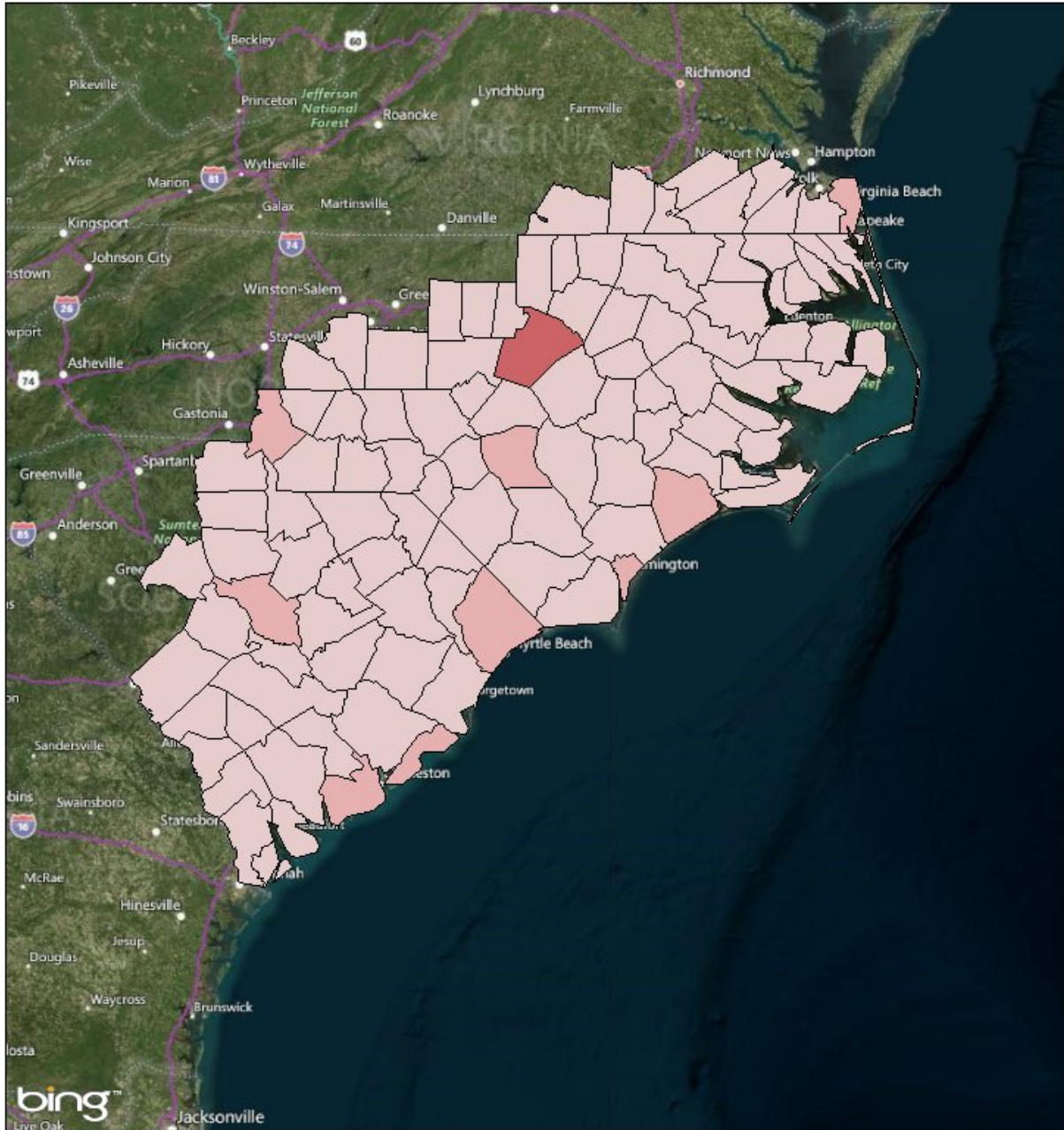


(6) 35 - 75 kW



(2) 200 - 300 kW

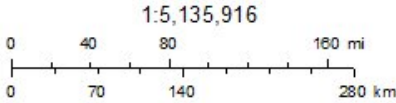




**Mission Summaries**

**Debris**

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



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# 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.

Total Counties	106
Debris (cu. yd.)	3,901,487
Temporary Roofing (units)	11,469
Population	10,628,916
Households	3,381,618

<b>NORTH CAROLINA</b>	<b>Yards of Debris (2,439,498)</b>	<b>Roof Units (9,800)</b>	<b>Population (6,520,141)</b>	<b>Households (2,045,405)</b>
Alamance	54,092	0	150,355	51,584
Anson	9,651	0	25,341	9,204
Beaufort	19,210	0	46,951	18,319
Bertie	8,119	0	20,019	7,743
Bladen	23,112	263	32,577	12,897
Brunswick	77,177	621	113,235	30,438
Cabarrus	51,926	0	179,310	49,519
Camden	2,791	0	10,301	2,662
Carteret	45,168	514	64,494	25,204
Chatham	20,701	0	64,256	19,741
Chowan	5,851	0	14,807	5,580
Columbus	38,186	435	54,899	21,308
Craven	61,974	705	99,813	34,582
Cumberland	192,394	2,190	324,167	107,358
Currituck	7,238	0	24,830	6,902
Dare	13,307	0	34,007	12,690
Davidson	60,983	0	161,188	58,156
Duplin	32,736	373	54,388	18,267
Durham	93,343	0	270,938	89,015
Edgecombe	21,383	0	52,057	20,392
Franklin	18,710	0	60,792	17,843
Gates	4,091	0	12,160	3,901
Granville	17,464	0	59,205	16,654
Greene	7,022	0	21,331	6,696
Halifax	23,197	0	55,202	22,122
Harnett	35,443	0	115,536	33,800
Hertford	9,388	0	23,672	8,953
Hoke	11,926	0	46,265	11,373
Hyde	2,291	0	5,428	2,185
Johnston	48,860	0	174,426	46,595
Jones	10,297	83	10,288	4,061
Lee	19,364	0	60,038	18,466
Lenoir	42,763	487	57,180	23,862
Martin	10,507	0	23,823	10,020
Mecklenburg	100,152	0	937,963	273,416
Montgomery	10,327	0	27,572	9,848
Moore	32,206	0	88,177	30,713
Nash	35,280	0	95,531	33,644
New Hanover	172,881	1,391	199,320	68,183
Northampton	9,114	0	21,041	8,691
Onslow	122,015	982	172,836	48,122
Orange	48,093	0	131,514	45,863

Pamlico	9,279	106	12,853	5,178
Pasquotank	13,534	0	42,443	12,907
Pender	40,706	328	54,546	16,054
Perquimans	4,871	0	13,145	4,645
Pitt	55,093	0	162,304	52,539
Randolph	53,122	0	143,505	50,659
Richmond	18,742	0	46,893	17,873
Robeson	45,800	0	132,092	43,677
Rowan	52,368	0	142,013	49,940
Sampson	39,915	454	65,513	22,273
Scotland	14,050	0	37,059	13,399
Stanly	23,303	0	60,892	22,223
Tyrrell	1,612	0	4,244	1,537
Union	45,499	0	207,572	43,390
Vance	16,987	0	43,297	16,199
Wake	253,807	0	927,140	242,040
Warren	8,083	0	19,843	7,708
Washington	5,628	0	12,996	5,367
Wayne	76,364	869	115,330	42,612
Wilson	30,004	0	79,228	28,613

<b>SOUTH CAROLINA</b>	<b>Yards of Debris (1,149,947)</b>	<b>Roof Units (1,669)</b>	<b>Population (3,218,526)</b>	<b>Households (1,038,638)</b>
Aiken	58,289	0	157,068	55,587
Allendale	4,105	0	10,678	3,915
Bamberg	6,421	0	15,647	6,123
Barnwell	9,460	0	23,224	9,021
Beaufort	47,746	0	163,012	45,532
Berkeley	52,349	0	175,573	49,922
Calhoun	6,205	0	15,660	5,917
Charleston	129,322	0	361,569	123,326
Chester	13,506	0	33,146	12,880
Chesterfield	17,362	0	43,753	16,557
Clarendon	12,386	0	34,508	11,812
Colleton	15,173	0	39,678	14,470
Darlington	27,047	0	67,389	25,793
Dillon	11,743	0	30,941	11,199
Dorchester	36,396	0	134,691	34,709
Fairfield	9,201	0	24,241	8,774
Florence	49,439	0	136,016	47,147
Georgetown	22,712	0	64,020	21,659
Hampton	7,806	0	21,122	7,444
Horry	146,592	1,669	279,428	81,800
Jasper	7,384	0	23,438	7,042
Kershaw	21,169	0	61,757	20,188
Lancaster	24,305	0	76,643	23,178
Lee	7,221	0	20,260	6,886
Lexington	87,287	0	257,183	83,240
Marion	13,948	0	34,336	13,301
Marlboro	10,987	0	28,995	10,478
Newberry	14,708	0	38,285	14,026
Orangeburg	35,777	0	91,486	34,118
Richland	125,940	0	380,494	120,101
Sumter	39,562	0	104,976	37,728
Williamsburg	14,381	0	36,494	13,714
York	64,019	0	232,815	61,051

<b>VIRGINIA</b>	<b>Yards of Debris (312,042)</b>	<b>Roof Units (0)</b>	<b>Population (890,249)</b>	<b>Households (297,575)</b>
Brunswick	6,582	0	18,189	6,277
Chesapeake	73,298	0	223,279	69,900
Emporia	2,334	0	5,778	2,226
Franklin City	3,549	0	8,556	3,384
Greensville	3,539	0	12,351	3,375
Isle of Wight	11,869	0	36,330	11,319
Mecklenburg	13,581	0	32,540	12,951
Southampton	6,584	0	19,004	6,279
Suffolk	24,415	0	85,224	23,283
Sussex	4,327	0	12,356	4,126
Virginia Beach	161,964	0	436,642	154,455



## Critical Infrastructure

Total: **1624 Structures**

Power Requirements: **49,577.0 kW**

<b>Communications</b>	<b># FED Gen Req</b>	<b>Range (kW)</b>	<b>Req kW</b>
AM Antennas (26)	1.3	35 - 75	71.5
Cellular Towers (119)	71.4	35 - 75	3,927.0
FM Antennas (71)	3.6	35 - 75	195.3
<b>Education</b>	<b># FED Gen Req</b>	<b>Range (kW)</b>	<b>Req kW</b>
Private Schools (62)	0.0	200 - 300	0.0
Public Schools (243)	72.9	200 - 300	18,225.0
Colleges and Universities (13)	0.3	200 - 300	65.0
<b>Emergency Services</b>	<b># FED Gen Req</b>	<b>Range (kW)</b>	<b>Req kW</b>
911 Call Centers (1)	0.1	15 - 35	2.5
Emergency Medical Service (216)	21.6	15 - 35	540.0
Fire Stations (257)	25.7	15 - 35	642.5
Service Providers (1)	0.0	0 - 0	0.0
<b>Healthcare</b>	<b># FED Gen Req</b>	<b>Range (kW)</b>	<b>Req kW</b>
Nursing Homes (96)	14.4	35 - 100	972.0
Hospitals (17)	5.1	800 - 2000	7,140.0
Urgent Care Facilities (38)	7.6	200 - 300	1,900.0
<b>Military</b>	<b># FED Gen Req</b>	<b>Range (kW)</b>	<b>Req kW</b>
Air National Guard (ANG) Sites (0)	0.0	15 - 35	0.0
Army National Guard (ARNG) Sites (10)	0.0	15 - 35	0.0
National Security Government Military Facilities (163)	0.0	15 - 35	0.0
<b>Law Enforcement</b>	<b># FED Gen Req</b>	<b>Range (kW)</b>	<b>Req kW</b>
Prison Points (22)	4.4	400 - 600	2,200.0
Local Police (56)	5.6	15 - 35	140.0
State Police (8)	0.4	15 - 35	10.0
Correctional Facilities (23)	4.6	400 - 600	2,300.0
<b>State and Local EOC</b>	<b># FED Gen Req</b>	<b>Range (kW)</b>	<b>Req kW</b>
Local Emergency Operations Centers (14)	2.8	15 - 40	77.0
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 (63)	0.0	600 - 1200	0.0
Amtrak Stations (0)	0.0	100 - 300	0.0
Bus Stations (18)	0.0	100 - 300	0.0
Intermodal Terminal Facilities (5)	0.0	100 - 300	0.0
Railroad Stations (0)	0.0	100 - 300	0.0
Public-Use Airports (63)	7.6	40 - 100	529.2

Water_Waster Water	# FED Gen Req	Range (kW)	Req kW
Water Treatment Facilities (0)	0.0	800 - 2000	0.0
Wastewater Treatment Plants (19)	7.6	800 - 2000	10,640.0