



Hurricane Dorian - Advisory #41

For Planning Purposes Only!

WASHINGTON, DC
12:16:31
03 Sep 2019

CHICAGO
11:16:31
03 Sep 2019

LOS ANGELES
09:16:31
03 Sep 2019

http://simsuite.usace.army.mil/wab/v2.10/index.html?config=config-mission-models.json&_25=87

Updated as of 3 Sep 2019 (12:16 PM Eastern Daylight Time)



Debris

739,675
cu. yd.

North Carolina 100% (736,904)

South Carolina <1% (2,770)

Florida <1% (0)

Georgia <1% (0)

Virginia <1% (0)



Temporary Roofing

952
units

North Carolina 100% (948)

South Carolina <1% (4)

Florida <1% (0)

Georgia <1% (0)

Virginia <1% (0)



Population

10,811,668
people

Florida 40% (4,362,048)

North Carolina 26% (2,796,086)

South Carolina 15% (1,583,674)

Virginia 14% (1,512,587)

Georgia 5% (557,273)



Households

3,577,078
households

Florida 40% (1,441,063)

North Carolina 26% (924,820)

Virginia 15% (529,999)

South Carolina 14% (501,374)

Georgia 5% (179,822)



Critical Infrastructure

District of Columbia

- (7) 15 - 35 kW
- (2) 15 - 40 kW
- (4) 35 - 75 kW
- (4) 35 - 100 kW
- (1) 40 - 100 kW
- (3) 100 - 200 kW
- (74) 200 - 300 kW
- (5) 800 - 2000 kW

Maryland

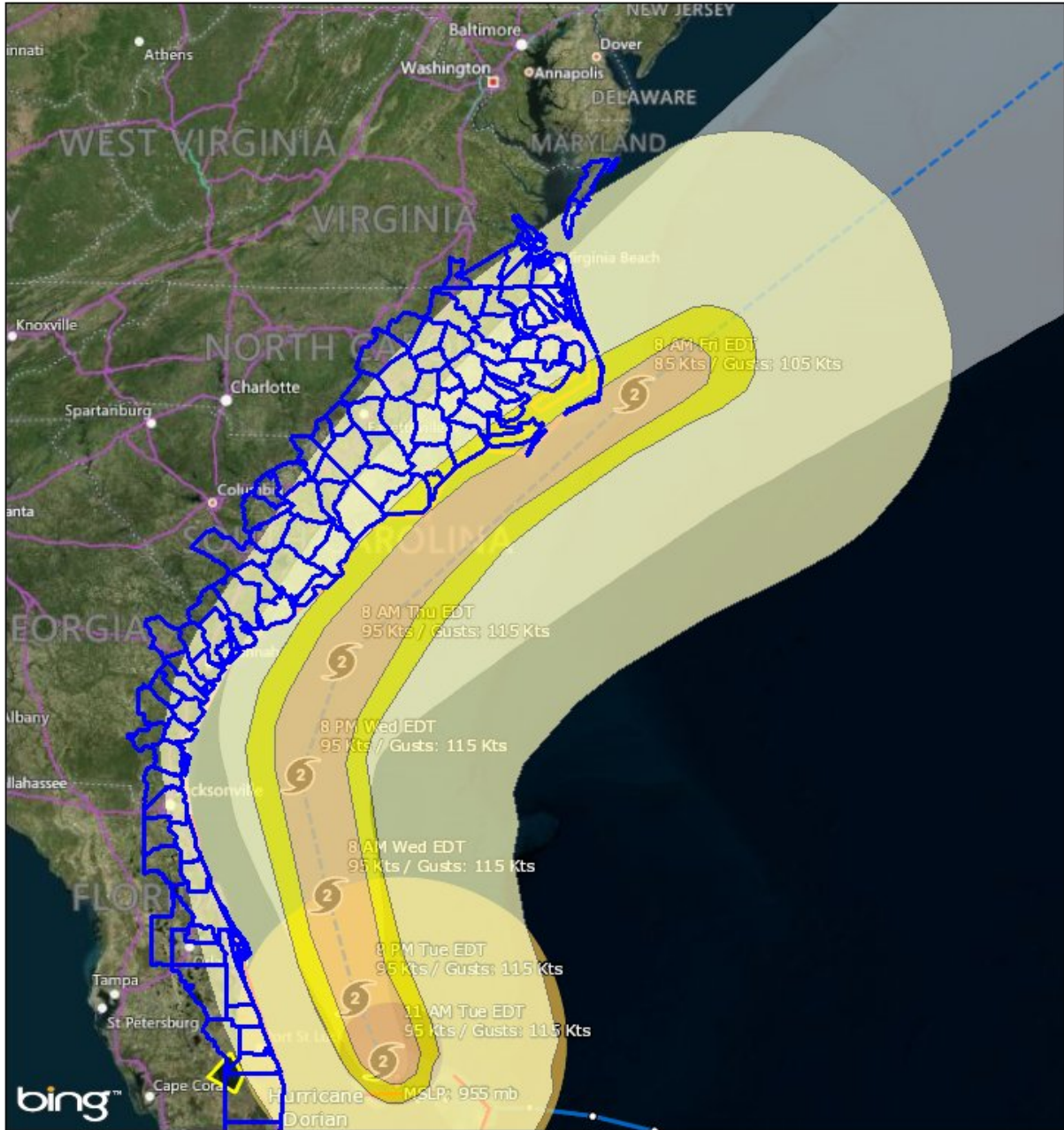
- (12) 15 - 35 kW
- (1) 15 - 40 kW
- (17) 35 - 75 kW
- (6) 35 - 100 kW
- (4) 40 - 100 kW
- (61) 200 - 300 kW
- (1) 400 - 600 kW
- (2) 800 - 2000 kW

North Carolina

- (3) 15 - 35 kW
- (5) 35 - 75 kW
- (3) 200 - 300 kW

Virginia

- (33) 15 - 35 kW
- (5) 15 - 40 kW
- (41) 35 - 75 kW
- (22) 35 - 100 kW
- (8) 40 - 100 kW
- (72) 200 - 300 kW
- (5) 400 - 600 kW
- (9) 800 - 2000 kW

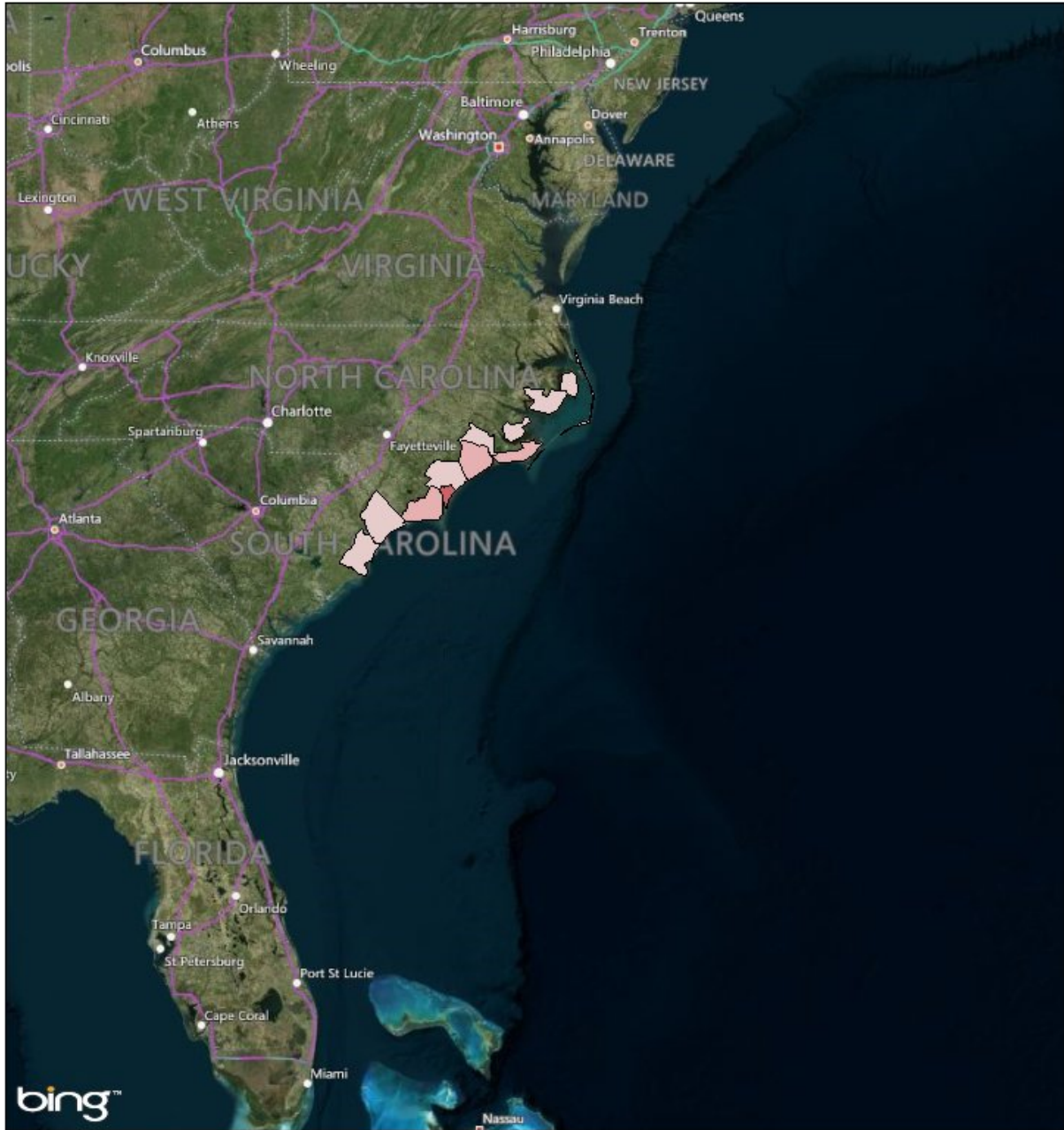


1:8,891,555

0 75 150 300 mi
0 120 240 480 km

| | |
|---|--|
| <p>Counties</p> <ul style="list-style-type: none"> 0 1 2 | <ul style="list-style-type: none"> Hurricane Warning Tropical Storm Watch Tropical Storm Warning Hurricane Watch |
|---|--|

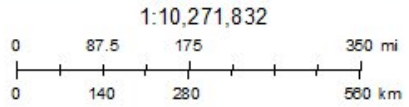
NOAA/NOS/IOCS now COAST, NOAA/NWS/NHC, NOAA/NWS/OPHC
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Mission Summaries

Debris

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



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 | 106 |
| Debris (cu. yd.) | 739,675 |
| Temporary Roofing (units) | 952 |
| Population | 10,811,667.929 |
| Households | 3,577,077.593 |

| Population Distribution | |
|-------------------------|------------|
| Tropical Storm | 10,324,999 |
| Category 1 | 480,771 |
| Category 2 | 2,846 |

| FLORIDA | Yards of Debris (0) | Roof Units (0) | Population (4,362,048) | Households (1,441,063) |
|--------------|---------------------|----------------|------------------------|------------------------|
| Brevard | 0 | 0 | 558,359 | 198,195 |
| Broward | 0 | 0 | 22,063 | 8,228 |
| Clay | 0 | 0 | 10,506 | 2,740 |
| Duval | 0 | 0 | 904,256 | 303,747 |
| Flagler | 0 | 0 | 96,812 | 21,294 |
| Indian River | 0 | 0 | 143,385 | 49,137 |
| Lake | 0 | 0 | 469 | 135 |
| Martin | 0 | 0 | 143,340 | 55,288 |
| Nassau | 0 | 0 | 24,742 | 7,362 |
| Okeechobee | 0 | 0 | 12,086 | 3,752 |
| Orange | 0 | 0 | 398,814 | 119,923 |
| Osceola | 0 | 0 | 105,736 | 22,874 |
| Palm Beach | 0 | 0 | 536,938 | 196,673 |
| Putnam | 0 | 0 | 2,342 | 872 |
| Seminole | 0 | 0 | 424,370 | 139,572 |
| St. Johns | 0 | 0 | 191,550 | 49,614 |
| St. Lucie | 0 | 0 | 277,366 | 76,933 |
| Volusia | 0 | 0 | 508,913 | 184,723 |

| GEORGIA | Yards of Debris (0) | Roof Units (0) | Population (557,273) | Households (179,822) |
|----------------|----------------------------|-----------------------|-----------------------------|-----------------------------|
| Brantley | 0 | 0 | 1,831 | 616 |
| Bryan | 0 | 0 | 33,573 | 8,089 |
| Bulloch | 0 | 0 | 184 | 56 |
| Camden | 0 | 0 | 49,602 | 14,705 |
| Chatham | 0 | 0 | 258,954 | 89,865 |
| Effingham | 0 | 0 | 54,219 | 13,151 |
| Glynn | 0 | 0 | 78,471 | 27,208 |
| Liberty | 0 | 0 | 60,111 | 19,383 |
| Long | 0 | 0 | 3,853 | 1,161 |
| McIntosh | 0 | 0 | 11,990 | 4,202 |
| Wayne | 0 | 0 | 4,485 | 1,386 |

| NORTH CAROLINA | Yards of Debris (736,904) | Roof Units (948) | Population (2,796,086) | Households (924,820) |
|-----------------------|--------------------------------------|-------------------------|-------------------------------|-----------------------------|
| Beaufort | 0 | 0 | 46,951 | 18,319 |
| Bertie | 0 | 0 | 20,019 | 7,743 |
| Bladen | 0 | 0 | 32,577 | 12,897 |
| Brunswick | 142,724 | 185 | 113,235 | 30,438 |
| Camden | 0 | 0 | 10,301 | 2,662 |
| Carteret | 131,017 | 162 | 64,495 | 25,205 |
| Chowan | 0 | 0 | 14,807 | 5,580 |
| Columbus | 0 | 0 | 54,899 | 21,308 |
| Craven | 0 | 0 | 99,813 | 34,582 |
| Cumberland | 0 | 0 | 324,167 | 107,358 |
| Currituck | 0 | 0 | 24,830 | 6,902 |
| Dare | 3,546 | 5 | 30,765 | 11,480 |
| Duplin | 0 | 0 | 54,388 | 18,267 |
| Edgecombe | 0 | 0 | 52,057 | 20,392 |
| Franklin | 0 | 0 | 5,790 | 1,699 |
| Gates | 0 | 0 | 12,160 | 3,901 |
| Greene | 0 | 0 | 21,331 | 6,696 |
| Halifax | 0 | 0 | 55,202 | 22,122 |
| Harnett | 0 | 0 | 115,536 | 33,800 |
| Hertford | 0 | 0 | 23,672 | 8,953 |
| Hoke | 0 | 0 | 22,735 | 5,589 |
| Hyde | 1,298 | 2 | 5,296 | 2,132 |
| Johnston | 0 | 0 | 174,426 | 46,595 |
| Jones | 1,776 | 2 | 10,288 | 4,061 |
| Lenoir | 0 | 0 | 57,180 | 23,862 |
| Martin | 0 | 0 | 23,823 | 10,020 |
| Nash | 0 | 0 | 95,531 | 33,644 |
| New Hanover | 319,711 | 415 | 199,320 | 68,183 |
| Northampton | 0 | 0 | 21,041 | 8,691 |
| Onslow | 107,767 | 140 | 172,841 | 48,123 |
| Pamlico | 11,642 | 15 | 12,853 | 5,178 |
| Pasquotank | 0 | 0 | 42,443 | 12,907 |
| Pender | 17,423 | 23 | 54,545 | 16,054 |
| Perquimans | 0 | 0 | 13,145 | 4,645 |
| Pitt | 0 | 0 | 162,304 | 52,539 |
| Robeson | 0 | 0 | 132,092 | 43,677 |
| Sampson | 0 | 0 | 65,513 | 22,273 |
| Scotland | 0 | 0 | 11,593 | 4,191 |
| Tyrrell | 0 | 0 | 4,244 | 1,537 |
| Wake | 0 | 0 | 130,325 | 34,023 |
| Washington | 0 | 0 | 12,996 | 5,367 |
| Wayne | 0 | 0 | 115,330 | 42,612 |

| | | | | |
|--------|---|---|--------|--------|
| Wilson | 0 | 0 | 79,228 | 28,613 |
|--------|---|---|--------|--------|

| SOUTH CAROLINA | Yards of Debris (2,770) | Roof Units (4) | Population (1,583,674) | Households (501,374) |
|-----------------------|--------------------------------|-----------------------|-------------------------------|-----------------------------|
| Beaufort | 0 | 0 | 163,012 | 45,532 |
| Berkeley | 0 | 0 | 175,573 | 49,922 |
| Charleston | 0 | 0 | 361,569 | 123,326 |
| Clarendon | 0 | 0 | 34,508 | 11,812 |
| Colleton | 0 | 0 | 39,678 | 14,470 |
| Darlington | 0 | 0 | 14,903 | 5,704 |
| Dillon | 0 | 0 | 30,941 | 11,199 |
| Dorchester | 0 | 0 | 134,691 | 34,709 |
| Florence | 0 | 0 | 136,016 | 47,147 |
| Georgetown | 2,572 | 3 | 64,020 | 21,659 |
| Hampton | 0 | 0 | 5,595 | 1,972 |
| Horry | 199 | 0 | 279,433 | 81,801 |
| Jasper | 0 | 0 | 23,438 | 7,042 |
| Lee | 0 | 0 | 965 | 328 |
| Marion | 0 | 0 | 34,336 | 13,301 |
| Marlboro | 0 | 0 | 12,751 | 4,608 |
| Orangeburg | 0 | 0 | 20,623 | 7,691 |
| Sumter | 0 | 0 | 15,128 | 5,437 |
| Williamsburg | 0 | 0 | 36,494 | 13,714 |

| VIRGINIA | Yards of Debris (0) | Roof Units (0) | Population (1,512,587) | Households (529,999) |
|-----------------|----------------------------|-----------------------|-------------------------------|-----------------------------|
| Accomack | 0 | 0 | 1,485 | 585 |
| Chesapeake | 0 | 0 | 223,279 | 69,900 |
| Franklin City | 0 | 0 | 8,556 | 3,384 |
| Greensville | 0 | 0 | 335 | 92 |
| Hampton | 0 | 0 | 146,762 | 53,887 |
| Isle of Wight | 0 | 0 | 36,330 | 11,319 |
| Newport News | 0 | 0 | 181,614 | 69,686 |
| Norfolk | 0 | 0 | 236,947 | 86,210 |
| Northampton | 0 | 0 | 13,729 | 5,321 |
| Poquoson | 0 | 0 | 12,083 | 4,166 |
| Portsmouth | 0 | 0 | 99,998 | 38,170 |
| Southampton | 0 | 0 | 19,004 | 6,279 |
| Suffolk | 0 | 0 | 85,224 | 23,283 |
| Virginia Beach | 0 | 0 | 436,642 | 154,455 |
| York | 0 | 0 | 10,599 | 3,262 |

Critical Infrastructure

| Summary | | | |
|--|---------------|------------|----------|
| Total Structures | | 4,135 | |
| Power Requirements | | 105,104.8 | |
| Range (kW) | | | |
| Communications | # FED Gen Req | Range (kW) | Req kW |
| AM Antennas (29) | 1.5 | 35 - 75 | 79.8 |
| Cellular Towers (118) | 70.8 | 35 - 75 | 3,894.0 |
| FM Antennas (105) | 5.3 | 35 - 75 | 288.8 |
| Education | # FED Gen Req | Range (kW) | Req kW |
| Private Schools (360) | 0.0 | 200 - 300 | 0.0 |
| Public Schools (700) | 210.0 | 200 - 300 | 52,500.0 |
| Colleges and Universities (75) | 1.5 | 200 - 300 | 375.0 |
| Emergency Services | # FED Gen Req | Range (kW) | Req kW |
| 911 Call Centers (3) | 0.3 | 15 - 35 | 7.5 |
| Emergency Medical Service (292) | 29.2 | 15 - 35 | 730.0 |
| Fire Stations (305) | 30.5 | 15 - 35 | 762.5 |
| Service Providers (4) | 0.0 | 0 - 0 | 0.0 |
| Healthcare | # FED Gen Req | Range (kW) | Req kW |
| Nursing Homes (230) | 34.5 | 35 - 100 | 2,328.8 |
| Hospitals (51) | 15.3 | 800 - 2000 | 21,420.0 |
| Urgent Care Facilities (39) | 7.8 | 200 - 300 | 1,950.0 |
| Military | # FED Gen Req | Range (kW) | Req kW |
| Air National Guard (ANG) Sites (4) | 0.0 | 15 - 35 | 0.0 |
| Army National Guard (ARNG) Sites (14) | 0.0 | 15 - 35 | 0.0 |
| National Security Government Military Facilities (923) | 0.0 | 15 - 35 | 0.0 |
| Law Enforcement | # FED Gen Req | Range (kW) | Req kW |
| Prison Points (40) | 8.0 | 400 - 600 | 4,000.0 |
| Local Police (65) | 6.5 | 15 - 35 | 162.5 |
| State Police (14) | 0.7 | 15 - 35 | 17.5 |
| Correctional Facilities (0) | 0.0 | 400 - 600 | 0.0 |
| State and Local EOC | # FED Gen Req | Range (kW) | Req kW |
| Local Emergency Operations Centers (44) | 8.8 | 15 - 40 | 242.0 |
| State Emergency Operation Centers (EOCs) (1) | 0.2 | 15 - 35 | 5.0 |

| State Facilities | # FED Gen Req | Range (kW) | Req kW |
|--------------------------------------|---------------|------------|--------|
| Governors Mansion (0) | 0.0 | 100 - 200 | 0.0 |
| Major State Government Building (37) | 3.7 | 100 - 200 | 555.0 |

| Transportation | # FED Gen Req | Range (kW) | Req kW |
|-------------------------------------|---------------|------------|---------|
| Ports (258) | 0.0 | 600 - 1200 | 0.0 |
| Amtrak Stations (5) | 0.0 | 100 - 300 | 0.0 |
| Bus Stations (169) | 0.0 | 100 - 300 | 0.0 |
| Intermodal Terminal Facilities (16) | 0.0 | 100 - 300 | 0.0 |
| Railroad Stations (62) | 0.0 | 100 - 300 | 0.0 |
| Public-Use Airports (146) | 17.5 | 40 - 100 | 1,226.4 |

| Water_Waster Water | # FED Gen Req | Range (kW) | Req kW |
|----------------------------------|---------------|------------|----------|
| Water Treatment Facilities (3) | 1.2 | 800 - 2000 | 1,680.0 |
| Wastewater Treatment Plants (23) | 9.2 | 800 - 2000 | 12,880.0 |

Report Generated by SimSuite

<http://simsuite.usace.army.mil/wab/v2.10/index.html?config=config-mission-models.json& 25=87>