



US Army Corps
of Engineers®
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Hurricane Henri Advisory #19

For Planning Purposes Only!

WASHINGTON, DC
13:07:05
20 Aug 2021

CHICAGO
12:07:05
20 Aug 2021

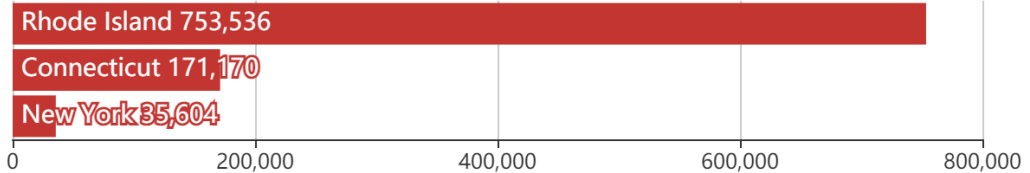
LOS ANGELES
10:07:05
20 Aug 2021

<https://go.usa.gov/xFANY>

Updated as of 20 Aug 2021 (12:07 PM Central Daylight Time)

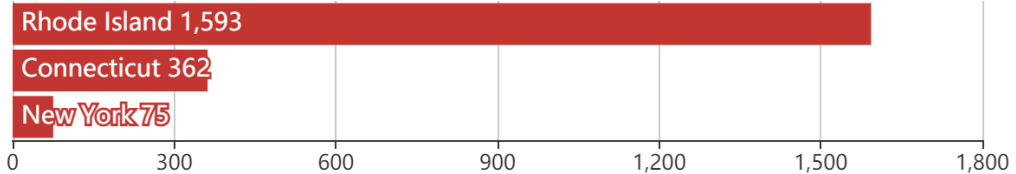
Debris

960.3K
cu. yd.



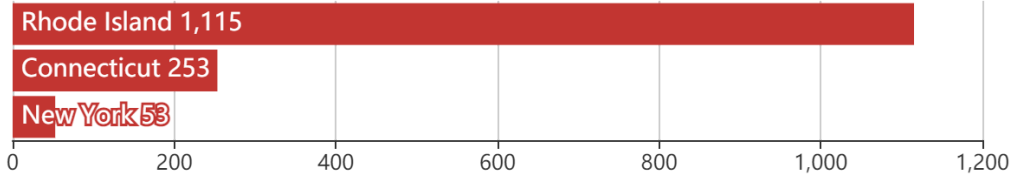
Est. Temp. Roofing

2K
units



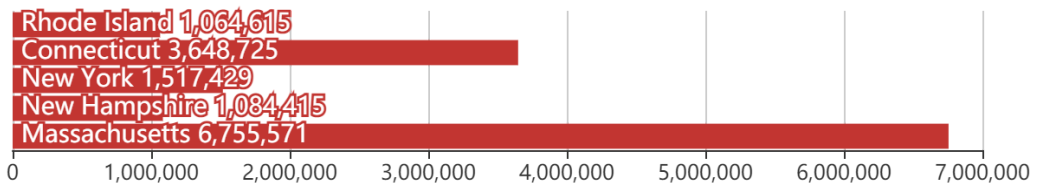
Act. Temp. Roofing

1.4K
units



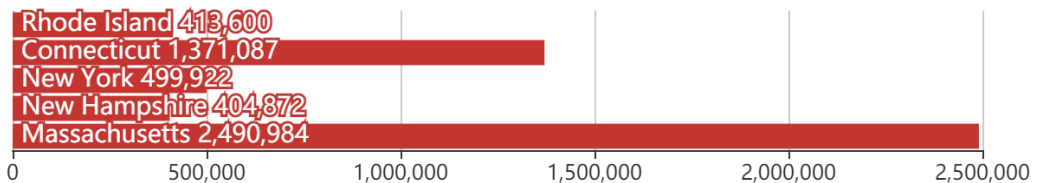
Population

14.1M
people



Households

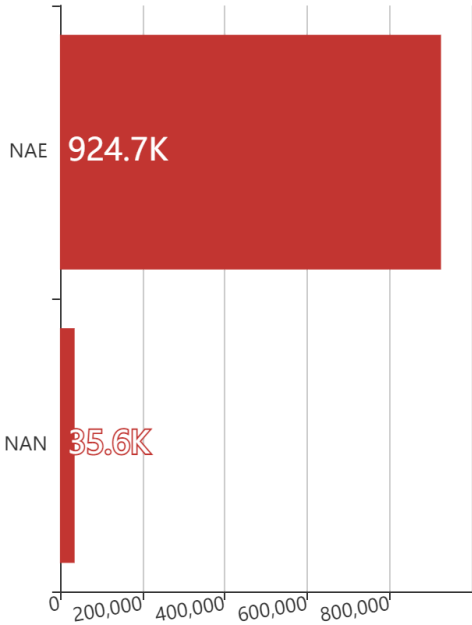
5.2M
households



Mission Model Summary

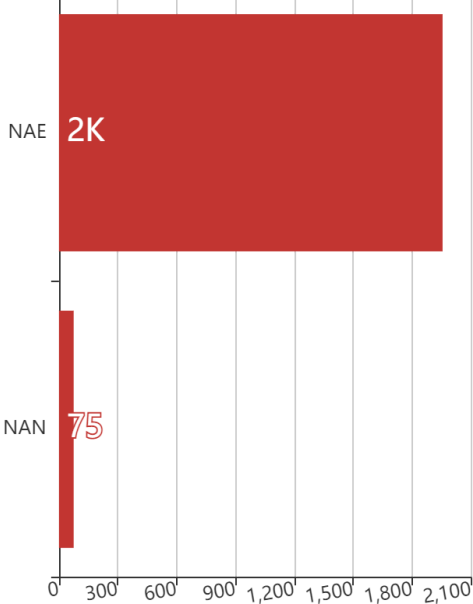
Debris By USACE District

cu. yd.

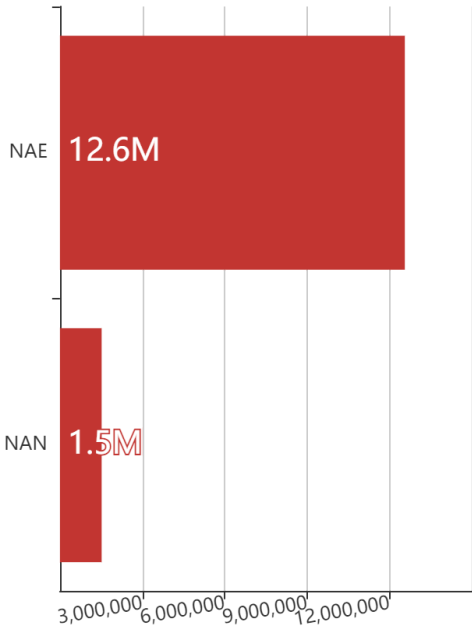


Est. Temp. Roofing By USACE District

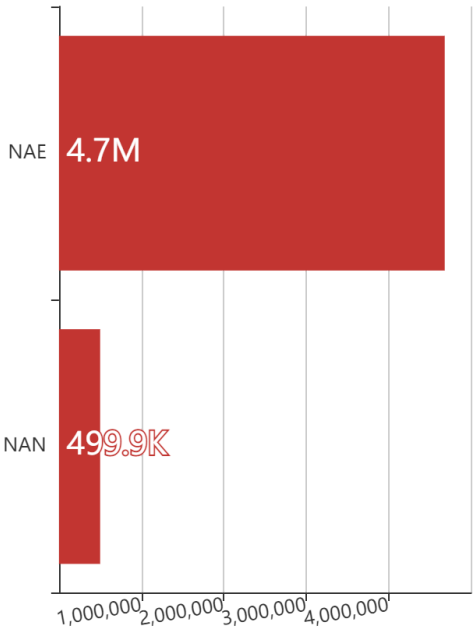
units



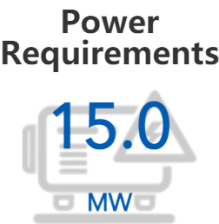
Population By USACE District



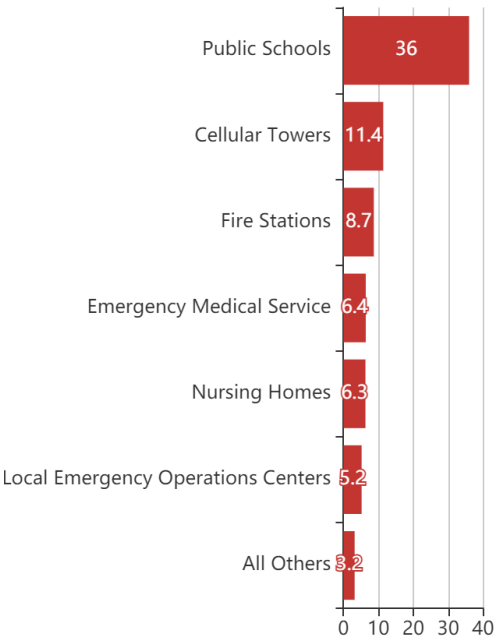
Households By USACE District



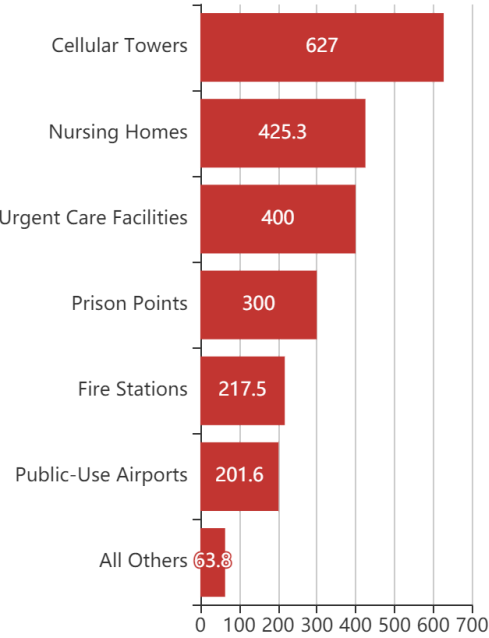
Critical Infrastructure Summary



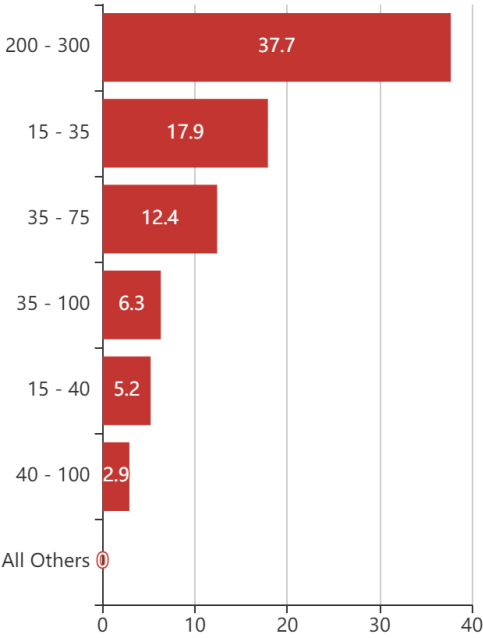
Generators
By Generator Count



Generators
By Power Requirement

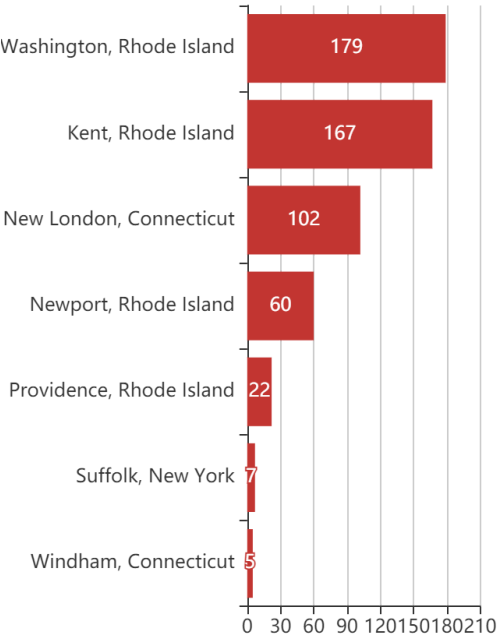


Generators
By Range



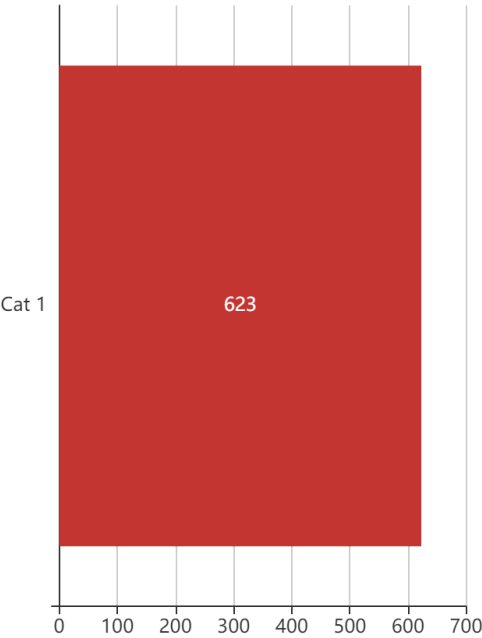
Structures

By County



Structures

By Intensity





Key Messages for Tropical Storm Henri

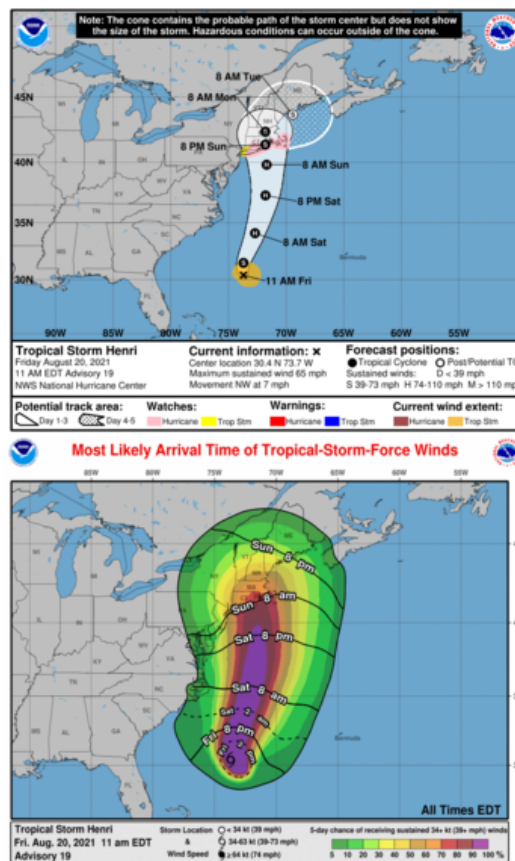
Advisory 19: 11:00 AM EDT Fri Aug 20, 2021



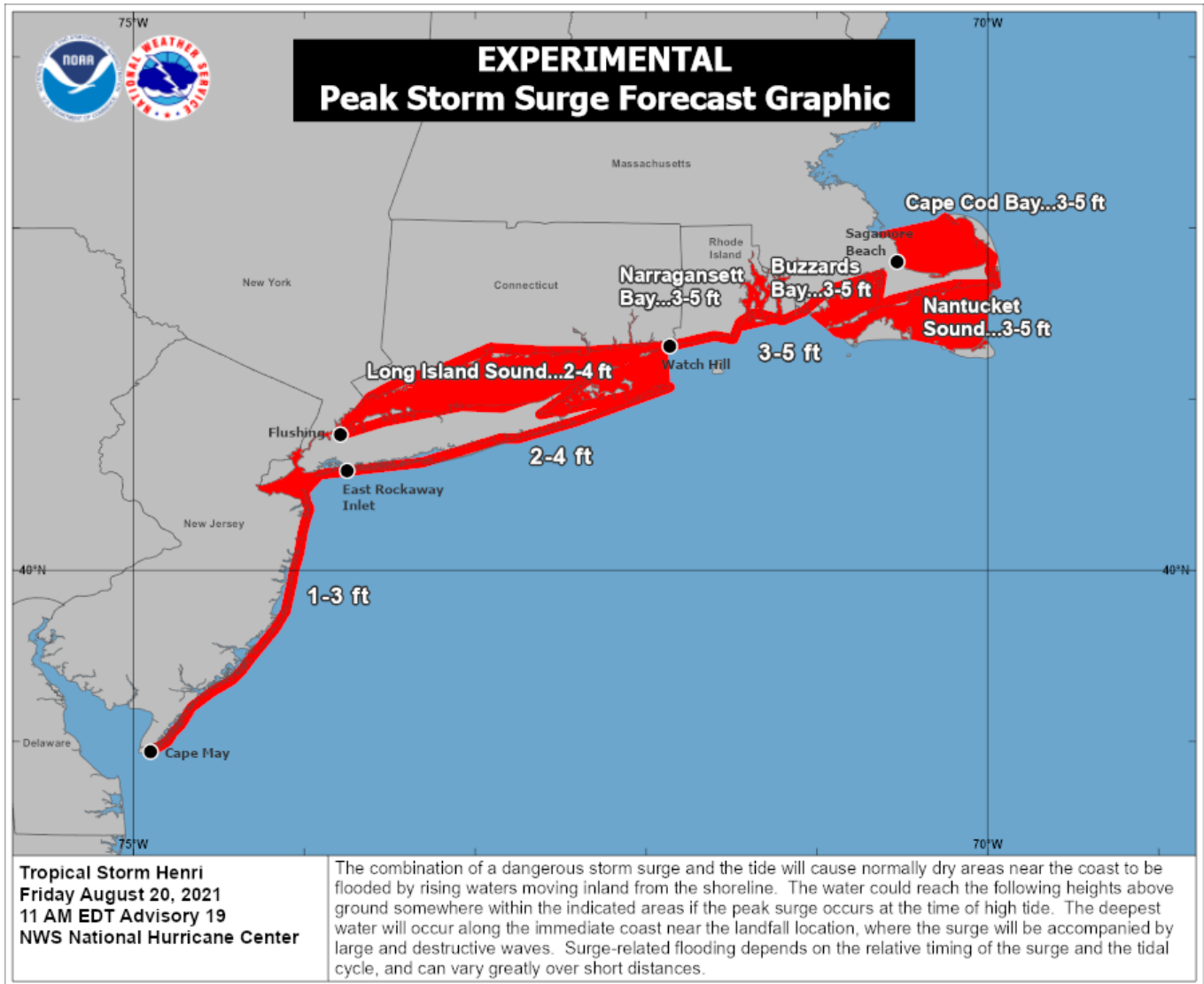
1. Dangerous storm surge inundation and hurricane conditions are possible beginning Sunday in portions of Long Island, Connecticut, Rhode Island, and southeastern Massachusetts, where a Storm Surge Watch and Hurricane Watch are in effect. Residents in these areas should follow any advice given by local officials.

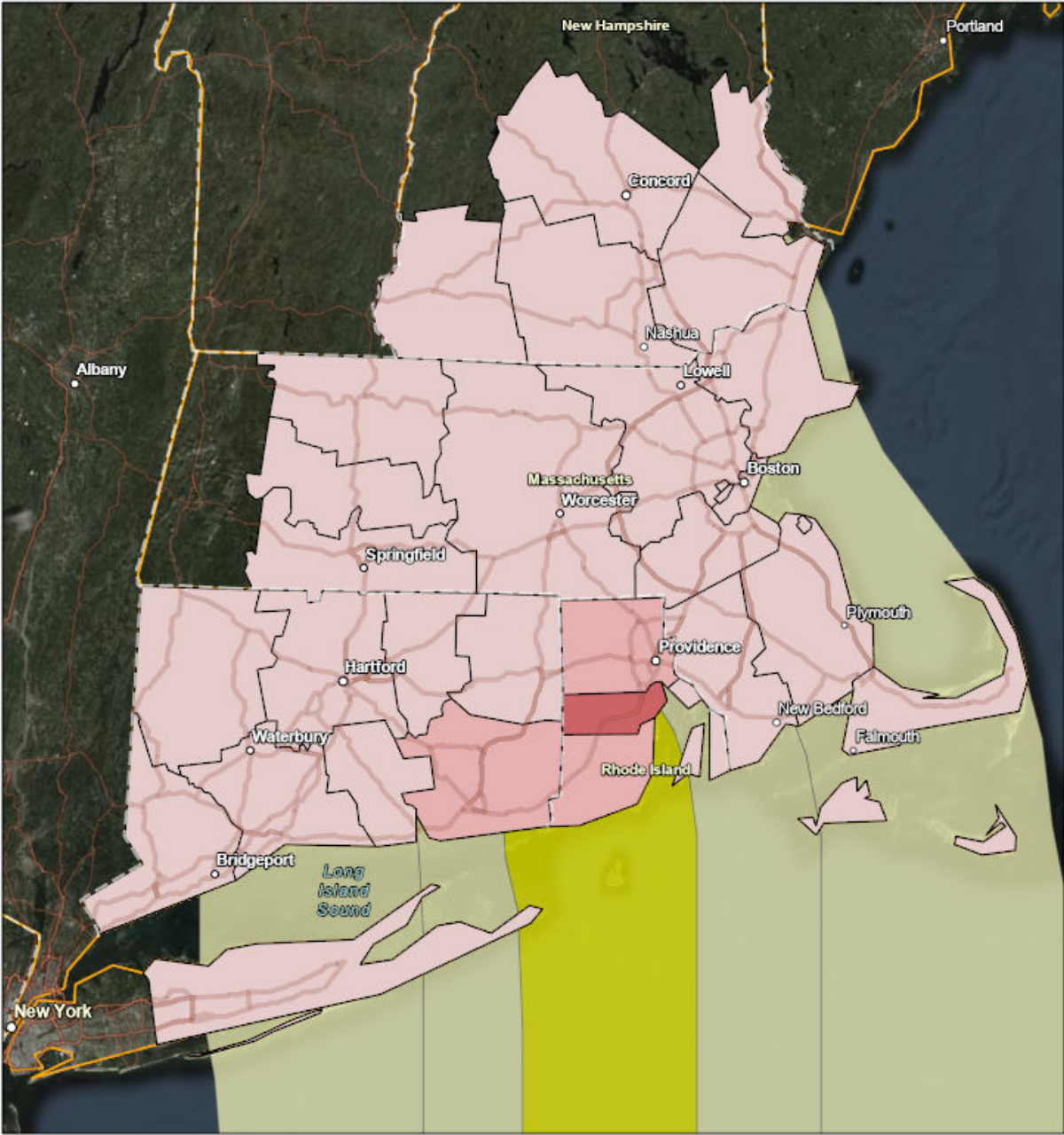
2. Heavy rainfall may lead to flash, urban, and small stream flooding, along with the potential for widespread minor and isolated moderate river flooding, over portions of southern New England Sunday into Monday.

3. Swells from Henri will begin to reach much of the east coast of the U.S. and Atlantic Canada by the end of the week and continue through the weekend. These swells could cause life-threatening surf and rip currents.



For more information go to hurricanes.gov



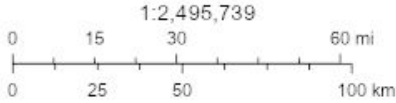


Mission Summaries

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

State Boundaries

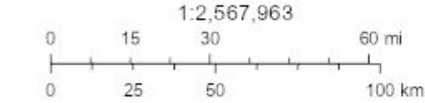
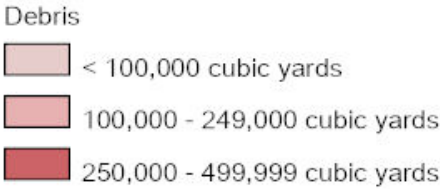
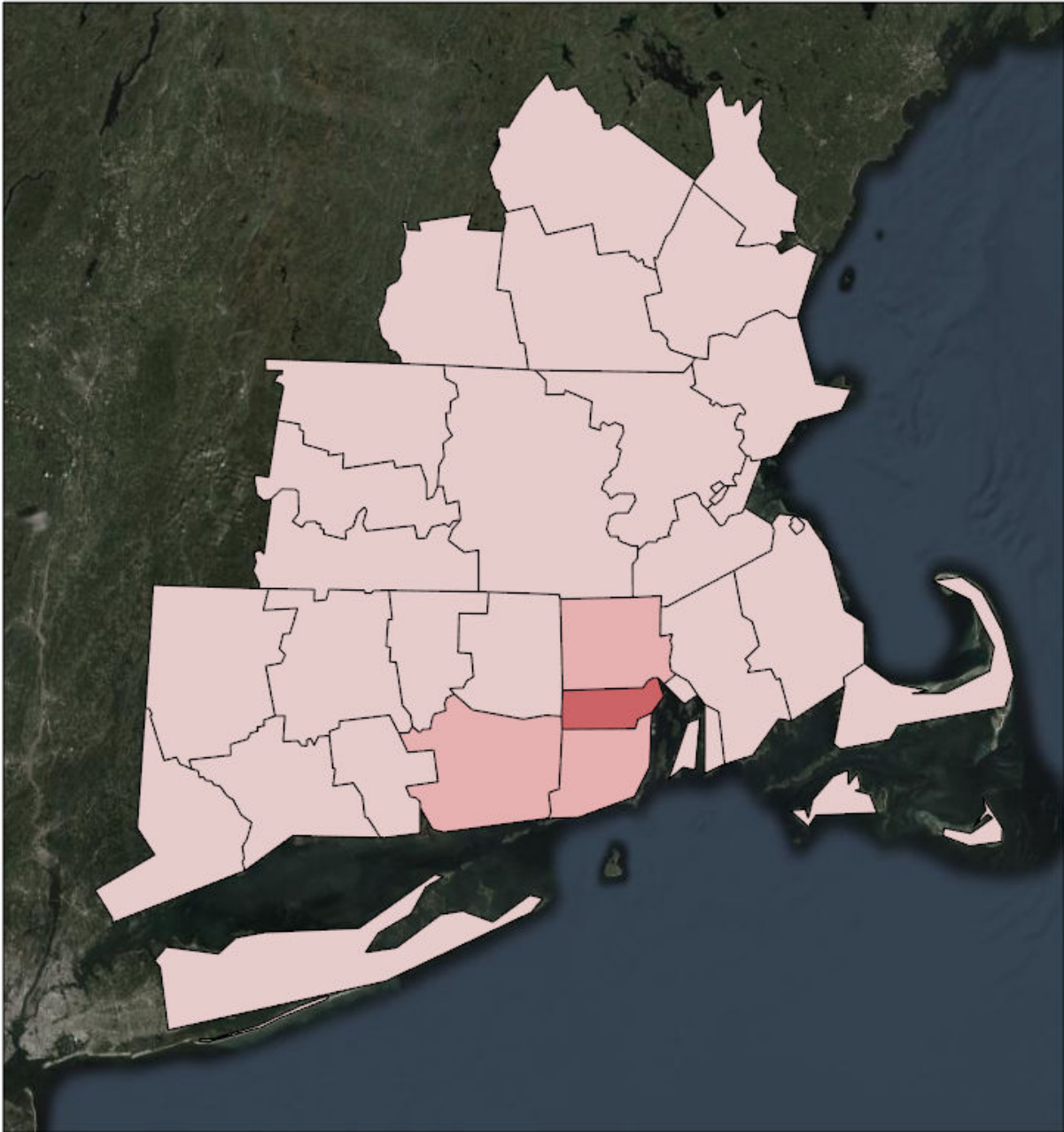
- TS
- Cat 1



Esri Canada, Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, NPS, 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

Created by SimSuite

Debris



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

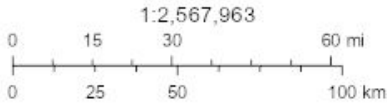
Created by SimSuite

Est. Temp. Roofing



Est. Temp. Roofing

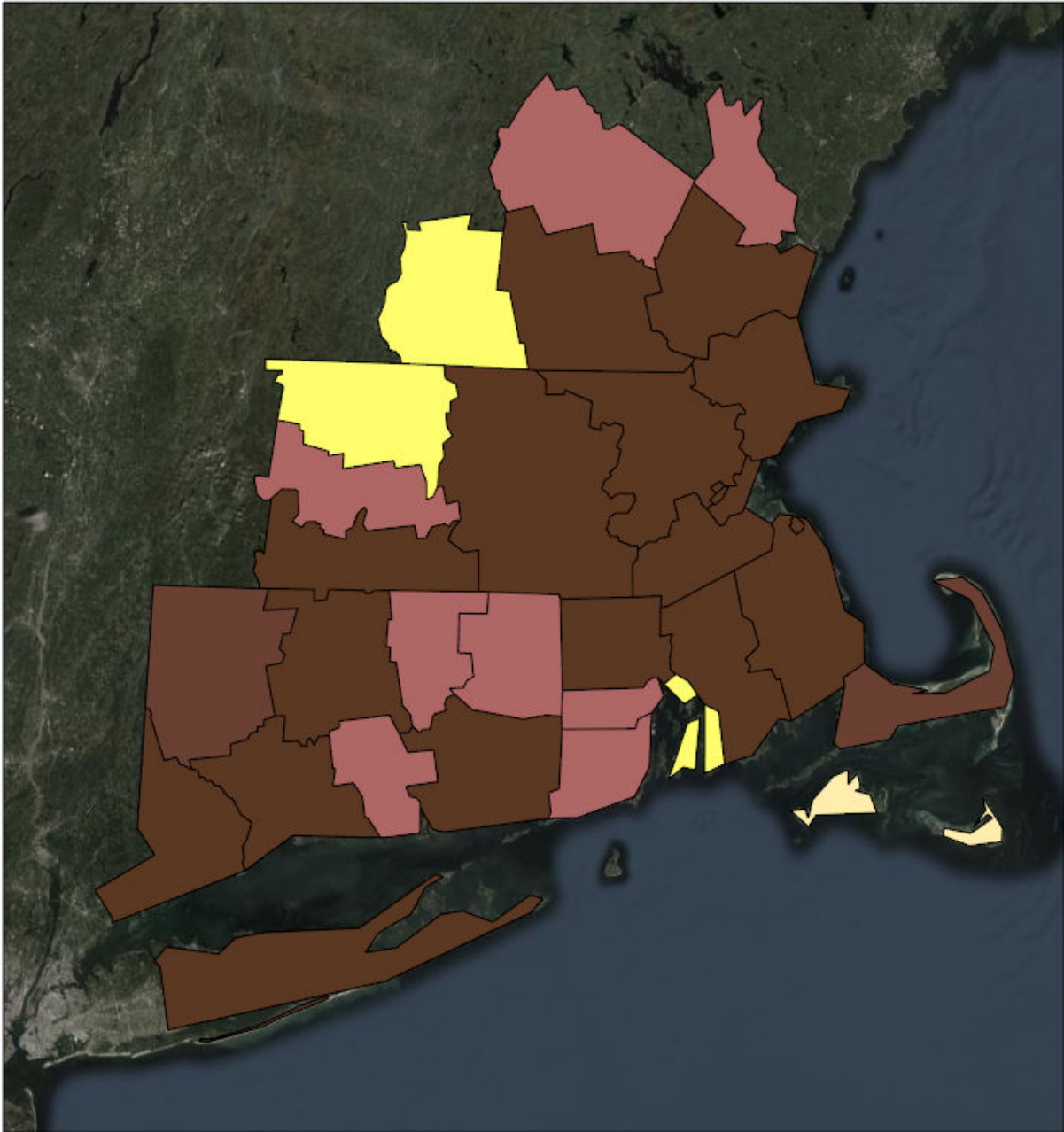
< 2,000 units



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

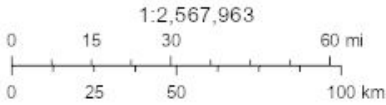
Created by SimSuite

Population



Population

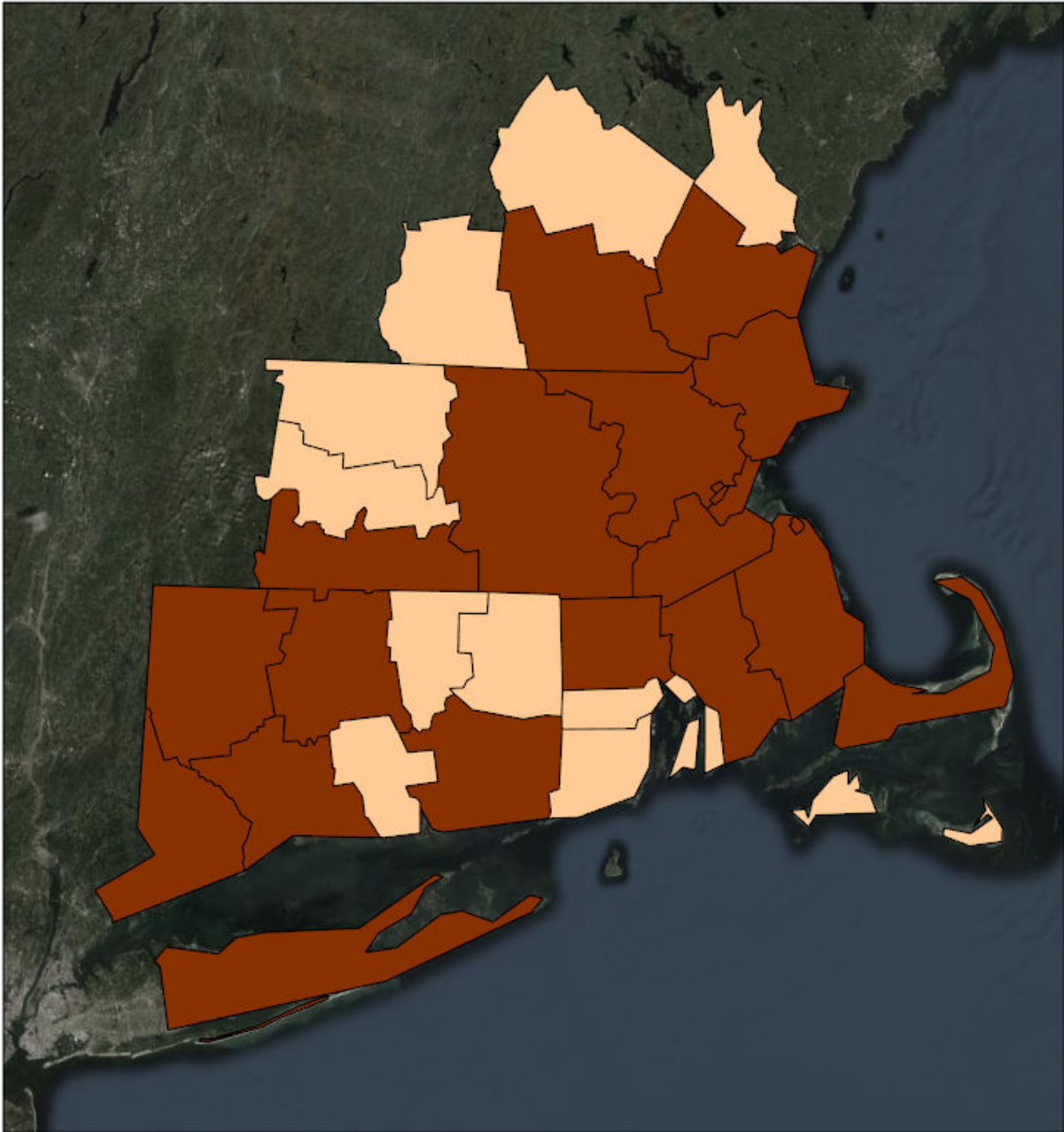
- < 25,000 persons
- 25,000 - 99,000 persons
- 100,000 - 174,999 persons
- 175,000 - 249,000 persons



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

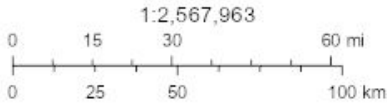
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Households



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

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COVID-19

#	County	Cases
1	Suffolk	210,935
2	Middlesex	141,256
3	Fairfield	104,359
4	Providence	102,857
5	Essex	101,029
6	Suffolk	97,190
7	New Haven	96,671
8	Hartford	88,969
9	Worcester	80,488
10	Bristol	70,305
11	Norfolk	57,396
12	Hampden	55,218
13	Plymouth	51,580
14	Hillsborough	37,783
15	Rockingham	25,458
16	New London	23,907
17	Kent	19,560
18	Litchfield	15,288
19	Barnstable	15,043
20	Middlesex	13,534
21	Windham	11,348
22	Washington	10,725
23	Strafford	10,542
24	Merrimack	10,121
25	Tolland	10,121
26	Hampshire	9,525
27	Newport	7,434
28	Bristol	5,352
29	Cheshire	4,145
30	Franklin	2,728
31	Dukes	0
32	Nantucket	0

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	32
Debris (cu. yd.)	960,310
Est. Temp. Roofing (units)	2,031
Act. Temp. Roofing (units)	1,421
Population	14,070,755
Households	5,180,465

Population Distribution	
Tropical Storm	11,708,648
Category 1	498,590

CONNECTICUT	Yds of Debris (171,170)	Est. Roof Units (362)	Act. Roof Units (253)	Population (3,648,725)	Households (1,371,087)
Fairfield	0	0	0	964,796	335,545
Hartford	0	0	0	906,357	350,854
Litchfield	0	0	0	187,185	76,640
Middlesex	0	0	0	166,528	67,202
New Haven	0	0	0	873,829	334,502
New London	161,703	342	239	276,496	107,057
Tolland	0	0	0	154,772	54,477
Windham	9,467	20	14	118,762	44,810

MASSACHUSETTS	Yds of Debris (0)	Est. Roof Units (0)	Act. Roof Units (0)	Population (6,755,571)	Households (2,490,984)
Barnstable	0	0	0	223,733	95,755
Bristol	0	0	0	564,846	213,010
Dukes	0	0	0	17,359	7,368
Essex	0	0	0	787,418	285,956
Franklin	0	0	0	70,837	30,462
Hampden	0	0	0	476,058	179,927
Hampshire	0	0	0	164,464	58,702
Middlesex	0	0	0	1,602,184	580,688
Nantucket	0	0	0	10,720	4,229
Norfolk	0	0	0	702,913	257,914
Plymouth	0	0	0	523,823	181,126
Suffolk	0	0	0	774,572	292,767
Worcester	0	0	0	836,644	303,080

NEW HAMPSHIRE	Yds of Debris (0)	Est. Roof Units (0)	Act. Roof Units (0)	Population (1,084,415)	Households (404,872)
Cheshire	0	0	0	76,576	30,204
Hillsborough	0	0	0	416,672	155,466
Merrimack	0	0	0	151,549	57,069
Rockingham	0	0	0	308,863	115,033
Strafford	0	0	0	130,755	47,100
NEW YORK	Yds of Debris (35,604)	Est. Roof Units (75)	Act. Roof Units (53)	Population (1,517,429)	Households (499,922)
Suffolk	35,604	75	53	1,517,429	499,922

RHODE ISLAND	Yds of Debris (753,536)	Est. Roof Units (1,593)	Act. Roof Units (1,115)	Population (1,064,615)	Households (413,600)
Bristol	0	0	0	49,181	19,150
Kent	337,611	714	500	166,449	68,645
Newport	0	0	0	83,346	34,911
Providence	174,061	368	258	639,055	241,717
Washington	241,864	511	358	126,584	49,177

Critical Infrastructure

Summary			
Total Critical Facilities		623	
Power Requirements (kW)		14,988.2	
Range (kW)			
Communications	# FED Gen Req	Range (kW)	Req kW
AM Antennas (6)	0.3	35 - 75	16.5
Cellular Towers (19)	11.4	35 - 75	627.0
FM Antennas (14)	0.7	35 - 75	38.5
Education	# FED Gen Req	Range (kW)	Req kW
Private Schools (53)	0.0	200 - 300	0.0
Public Schools (120)	36.0	200 - 300	9,000.0
Colleges and Universities (6)	0.1	200 - 300	30.0
Emergency Services	# FED Gen Req	Range (kW)	Req kW
911 Call Centers (0)	0.0	15 - 35	0.0
Emergency Medical Service (64)	6.4	15 - 35	160.0
Fire Stations (87)	8.7	15 - 35	217.5
Service Providers (0)	0.0	0 - 0	0.0
Healthcare	# FED Gen Req	Range (kW)	Req kW
Nursing Homes (42)	6.3	35 - 100	425.3
Hospitals (4)	1.2	800 - 2000	1,680.0
Urgent Care Facilities (8)	1.6	200 - 300	400.0
Military	# FED Gen Req	Range (kW)	Req kW
Air National Guard (ANG) Sites (2)	0.0	15 - 35	0.0
Army National Guard (ARNG) Sites (5)	0.0	15 - 35	0.0
National Security Government Military Facilities (83)	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 (25)	2.5	15 - 35	62.5
State Police (5)	0.3	15 - 35	6.3
Correctional Facilities (0)	0.0	400 - 600	0.0
State and Local EOC	# FED Gen Req	Range (kW)	Req kW
Local Emergency Operations Centers (26)	5.2	15 - 40	143.0
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 (5)	0.0	600 - 1200	0.0
Amtrak Stations (4)	0.0	100 - 300	0.0
Bus Stations (9)	0.0	100 - 300	0.0
Intermodal Terminal Facilities (1)	0.0	100 - 300	0.0
Railroad Stations (5)	0.0	100 - 300	0.0
Public-Use Airports (24)	2.9	40 - 100	201.6

Water	# FED Gen Req	Range (kW)	Req kW
Water Treatment Facilities (0)	0.0	800 - 2000	0.0
Wastewater Treatment Plants (3)	1.2	800 - 2000	1,680.0

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