



US Army Corps of Engineers
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Hurricane Henri Advisory #27

For Planning Purposes Only!

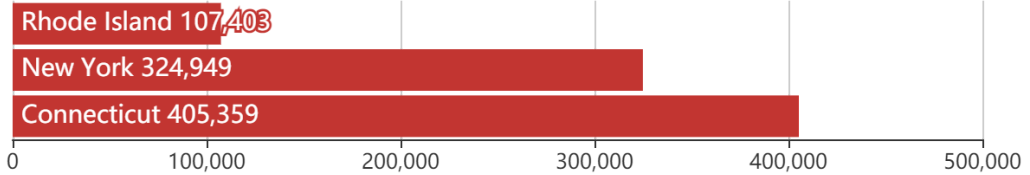
WASHINGTON, DC 13:07:17 22 Aug 2021	CHICAGO 12:07:17 22 Aug 2021	LOS ANGELES 10:07:17 22 Aug 2021
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<https://go.usa.gov/xFHT8>

Updated as of 22 Aug 2021 (12:07 PM Central Daylight Time)

Debris

837.7K
cu. yd.



Est. Temp. Roofing

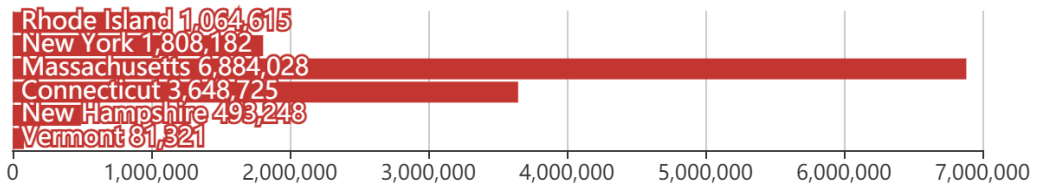
0
units

Act. Temp. Roofing

0
units

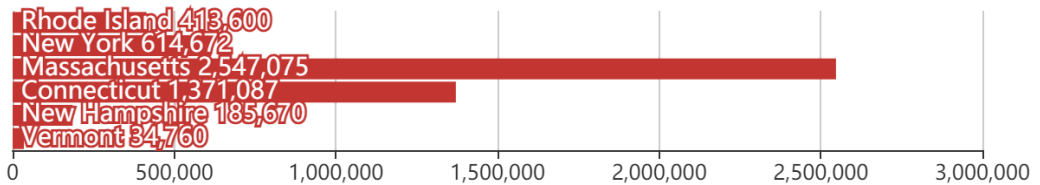
Population

14M
people



Households

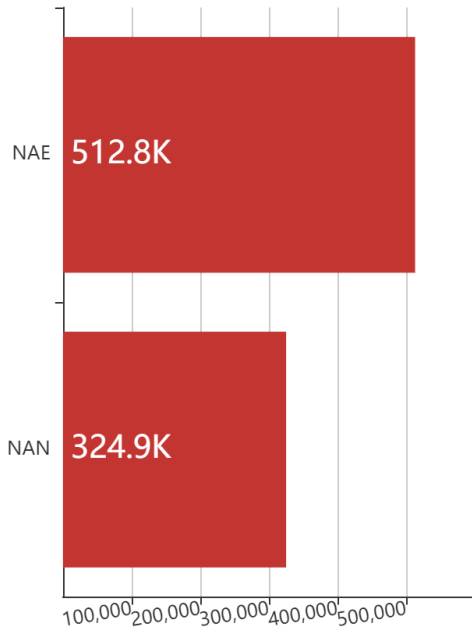
5.2M
households



Mission Model Summary

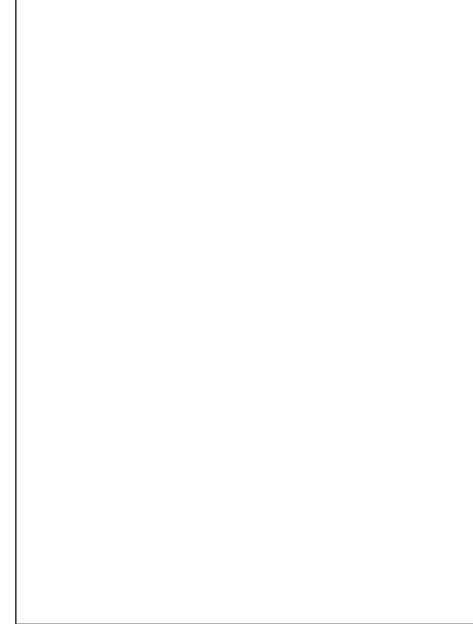
Debris By USACE District

cu. yd.

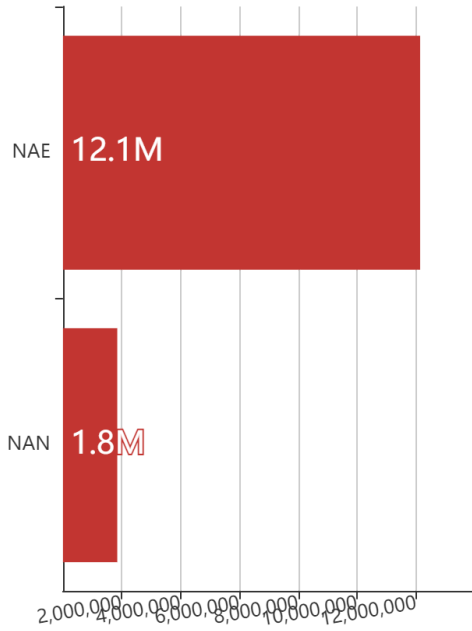


Est. Temp. Roofing By USACE District

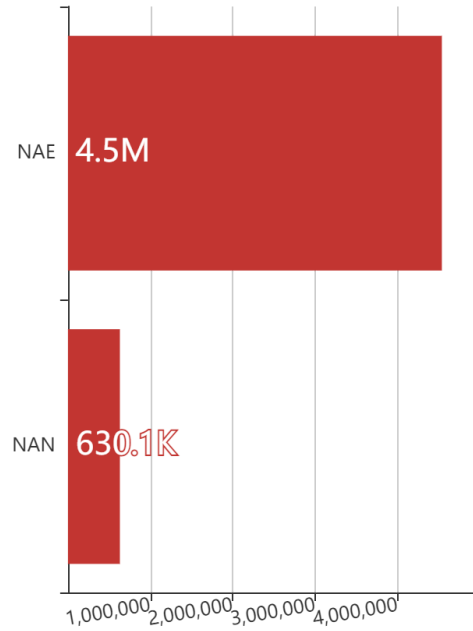
units



Population By USACE District



Households By USACE District



Critical Infrastructure Summary

Total

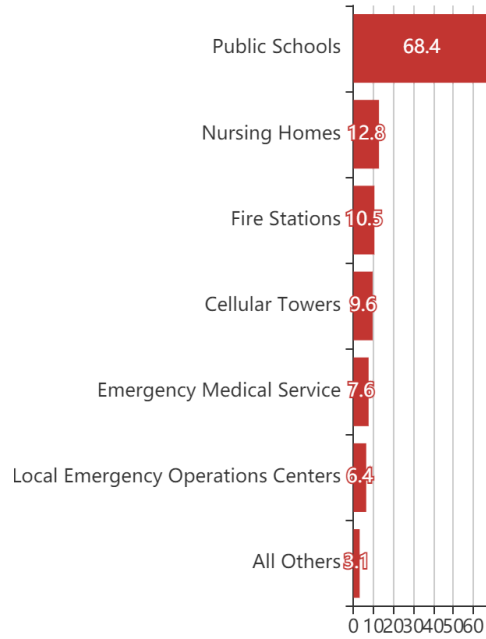


Power Requirements



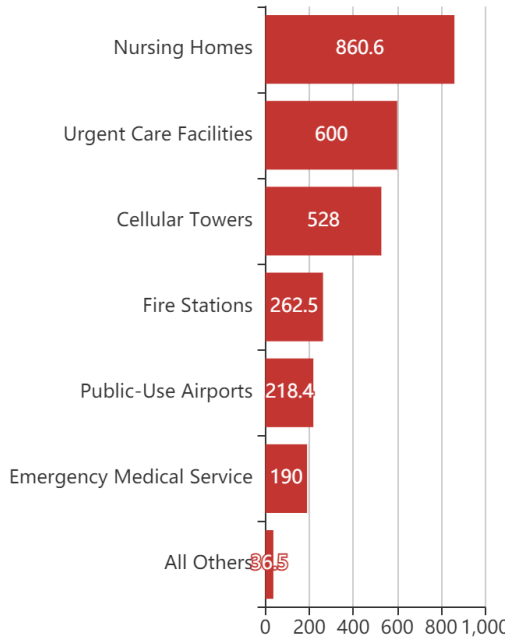
Generators

By Generator Count



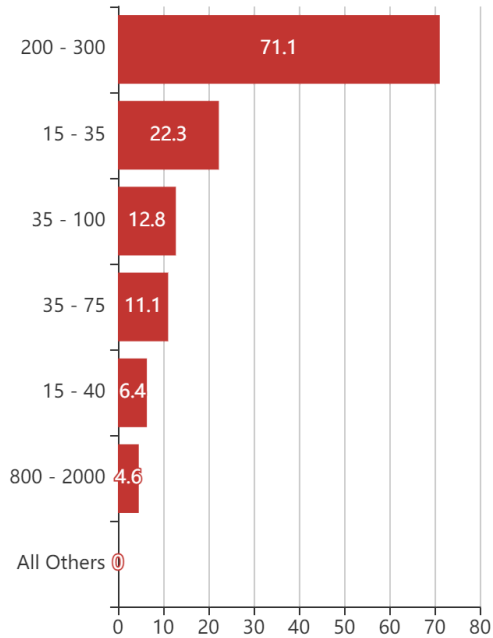
Generators

By Power Requirement



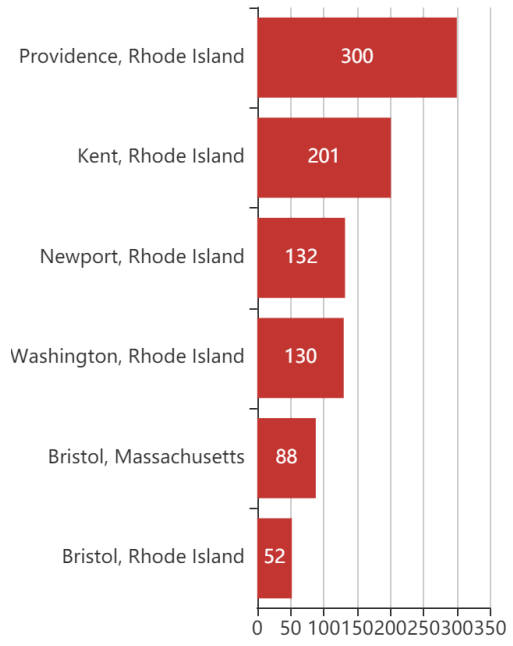
Generators

By Range



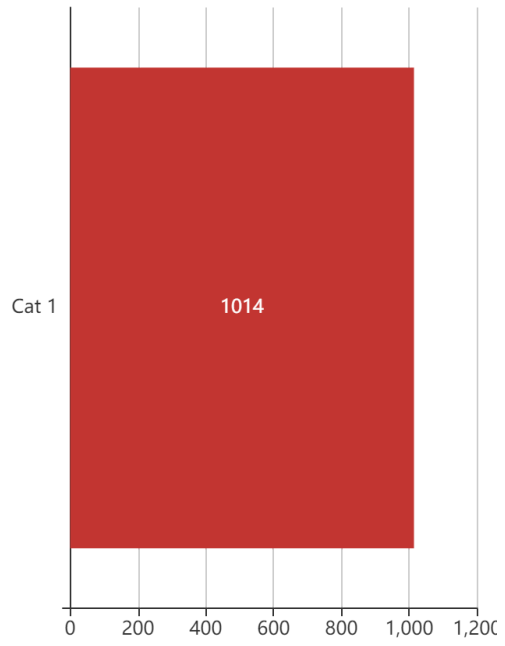
Structures

By County



Structures

By Intensity





Key Messages for Tropical Storm Henri

Advisory 27: 11:00 AM EDT Sun Aug 22, 2021

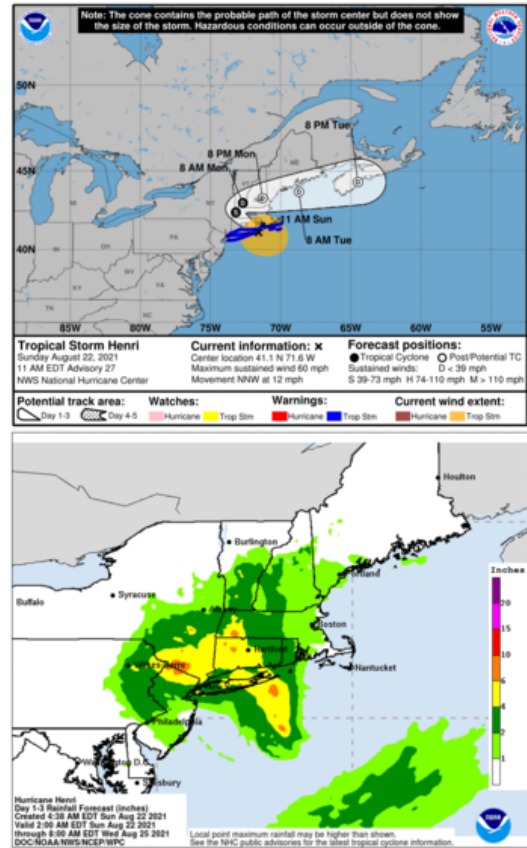


1. Dangerous storm surge inundation is expected to continue today in portions of Long Island, Connecticut, Rhode Island, and southeastern Massachusetts, where a Storm Surge Warning has been issued. Residents in these areas should follow any advice given by local officials.

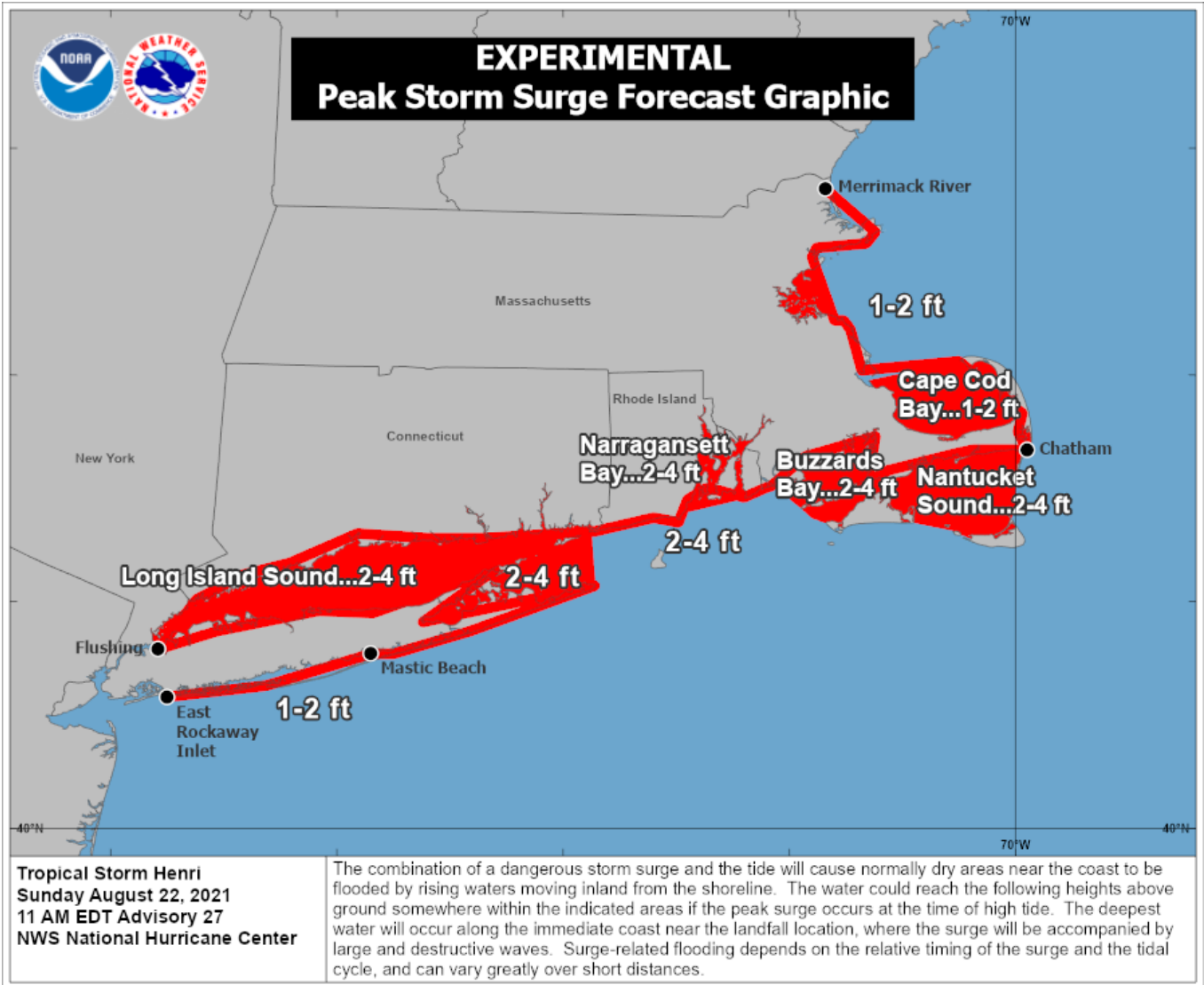
2. Tropical storm conditions will continue in portions of the tropical storm warning area into tonight.

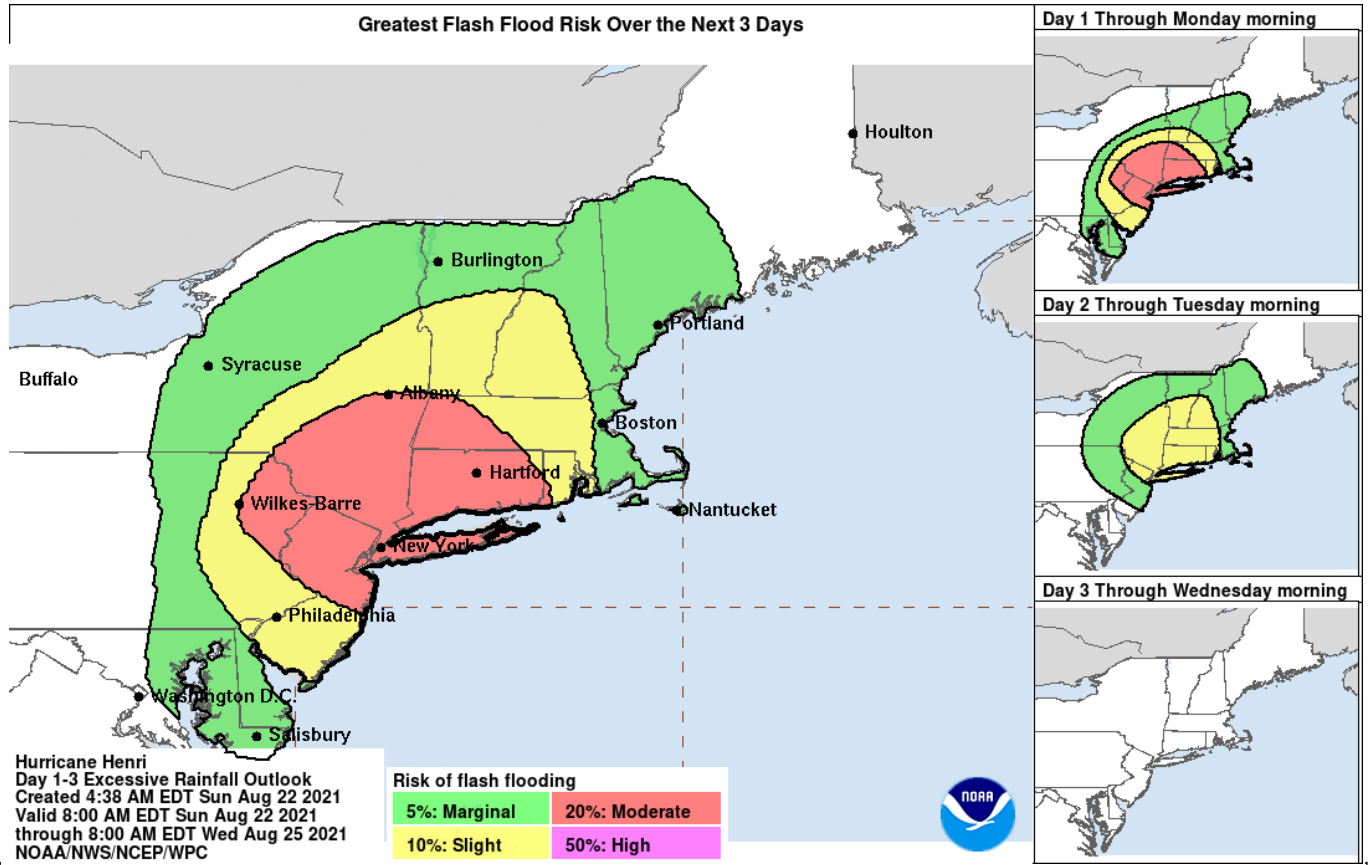
3. Heavy rainfall may lead to considerable flash, urban, and small stream flooding, along with the potential for widespread minor to isolated moderate river flooding over portions of Long Island, New England, eastern New York, New Jersey and northeast Pennsylvania.

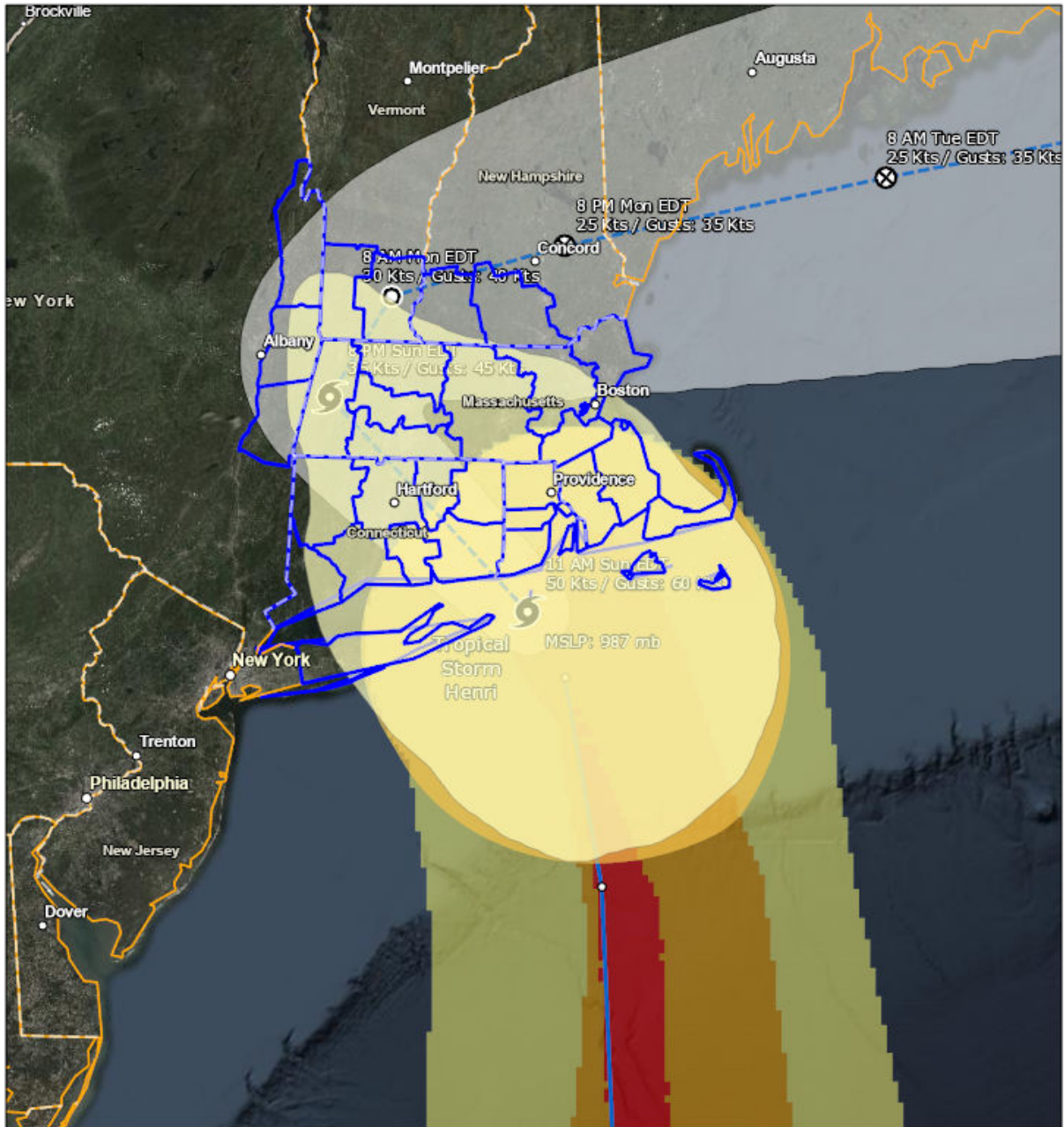
4. Swells from Henri will continue to affect much of the east coast of the U.S. during the next day or so. These swells could cause life-threatening surf and rip currents.



For more information go to hurricanes.gov

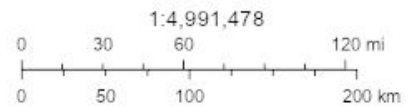






- Counties
- State Boundaries
- Mission Model Swaths
- TS

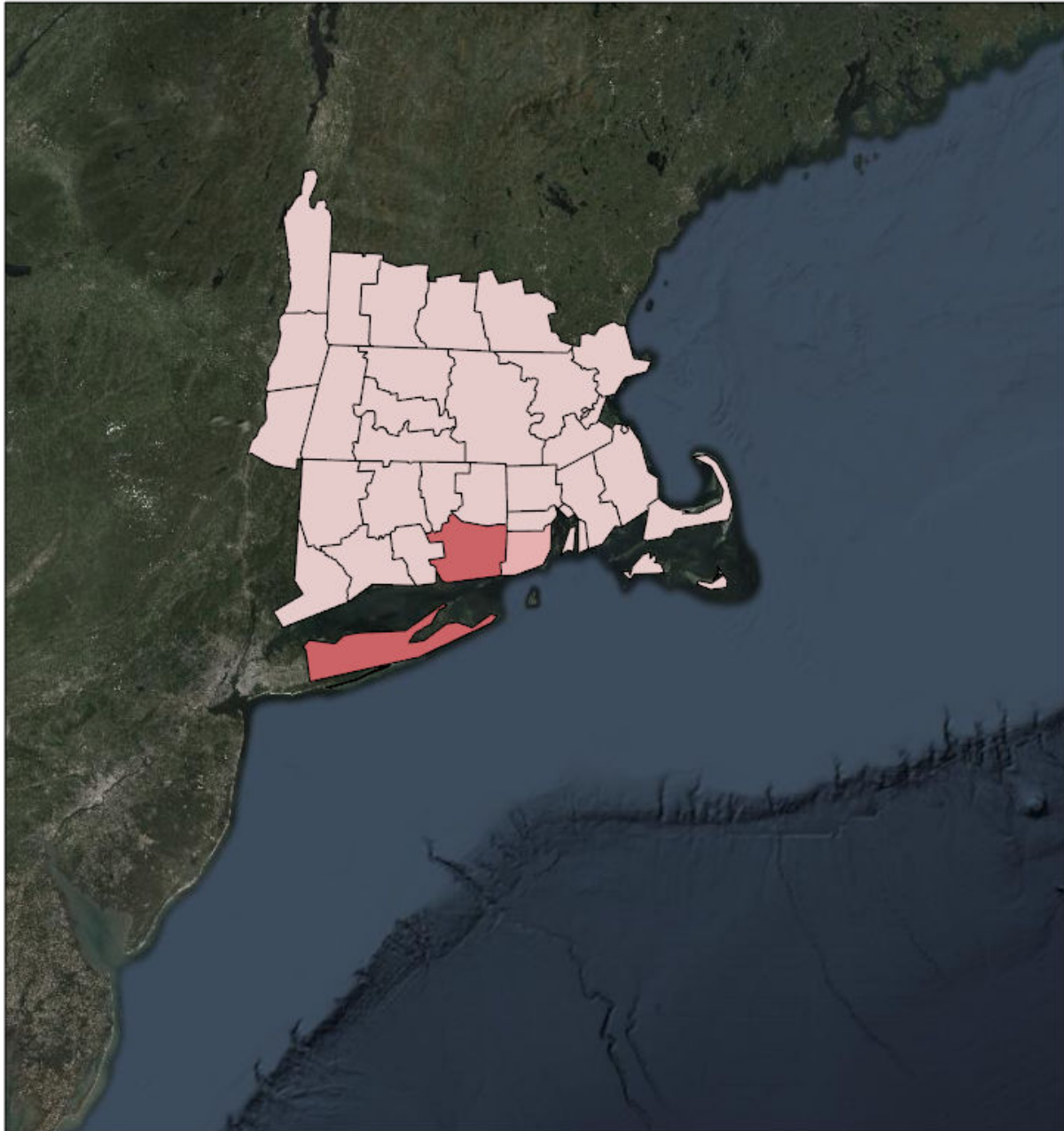
- Tropical Cyclone Observed Surface Wind Swath
- Observed (Best Track) Winds \geq 34 knots (39 mph)
 - Observed (Best Track) Winds \geq 50 knots (58 mph)






Source: NOAA, Esri, NOAA/NOS/OCS nowCOAST, NOAA/NWS/NHC, NOAA/NWS/CPHC, 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

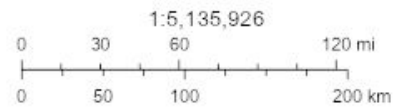
Created by SimSuite

Debris



Debris

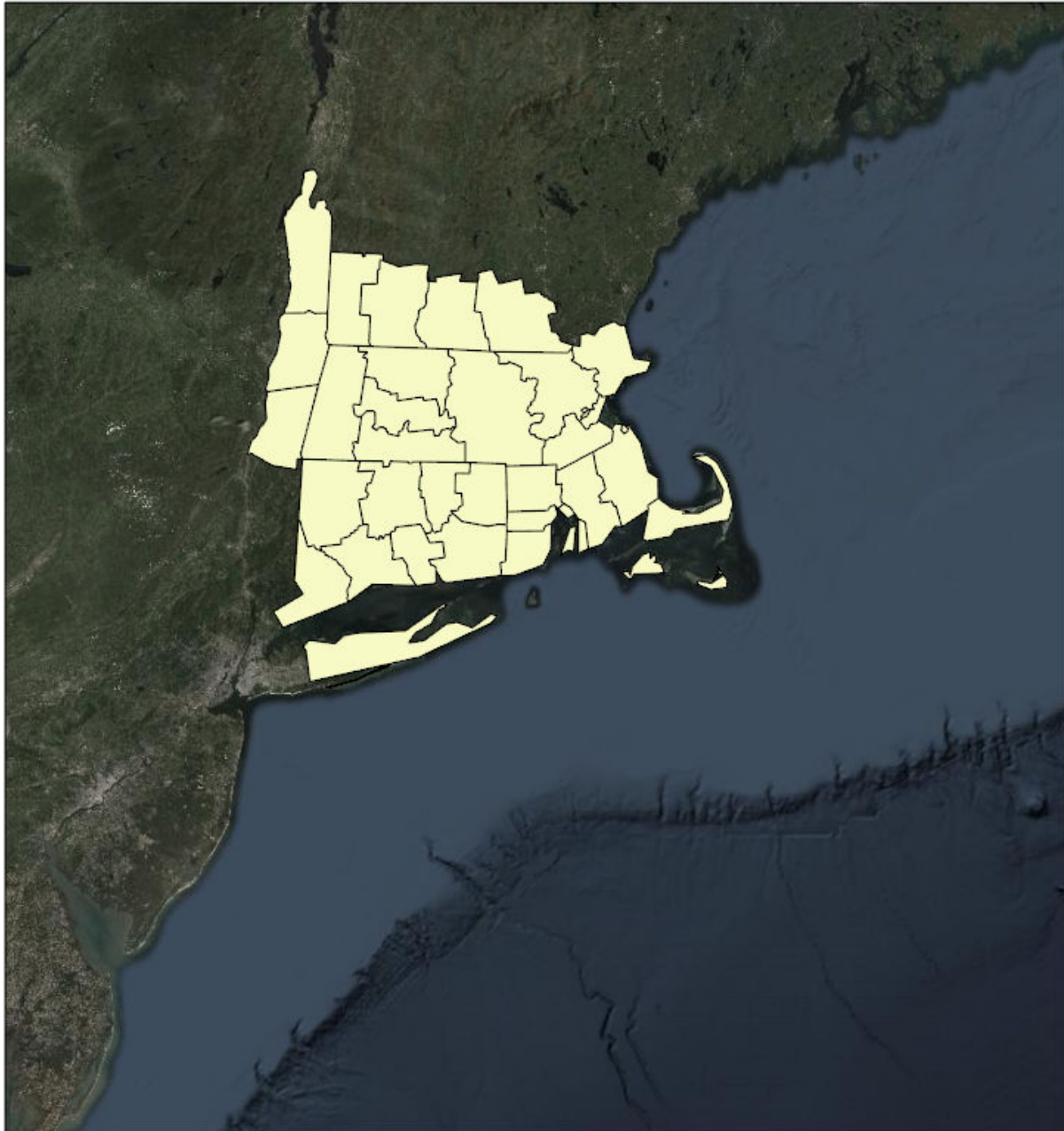
-  < 100,000 cubic yards
-  100,000 - 249,000 cubic yards
-  250,000 - 499,999 cubic yards



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

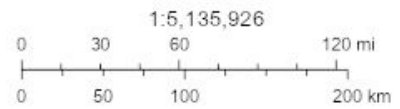
Created by SimSuite

Est. Temp. Roofing



Est. Temp. Roofing

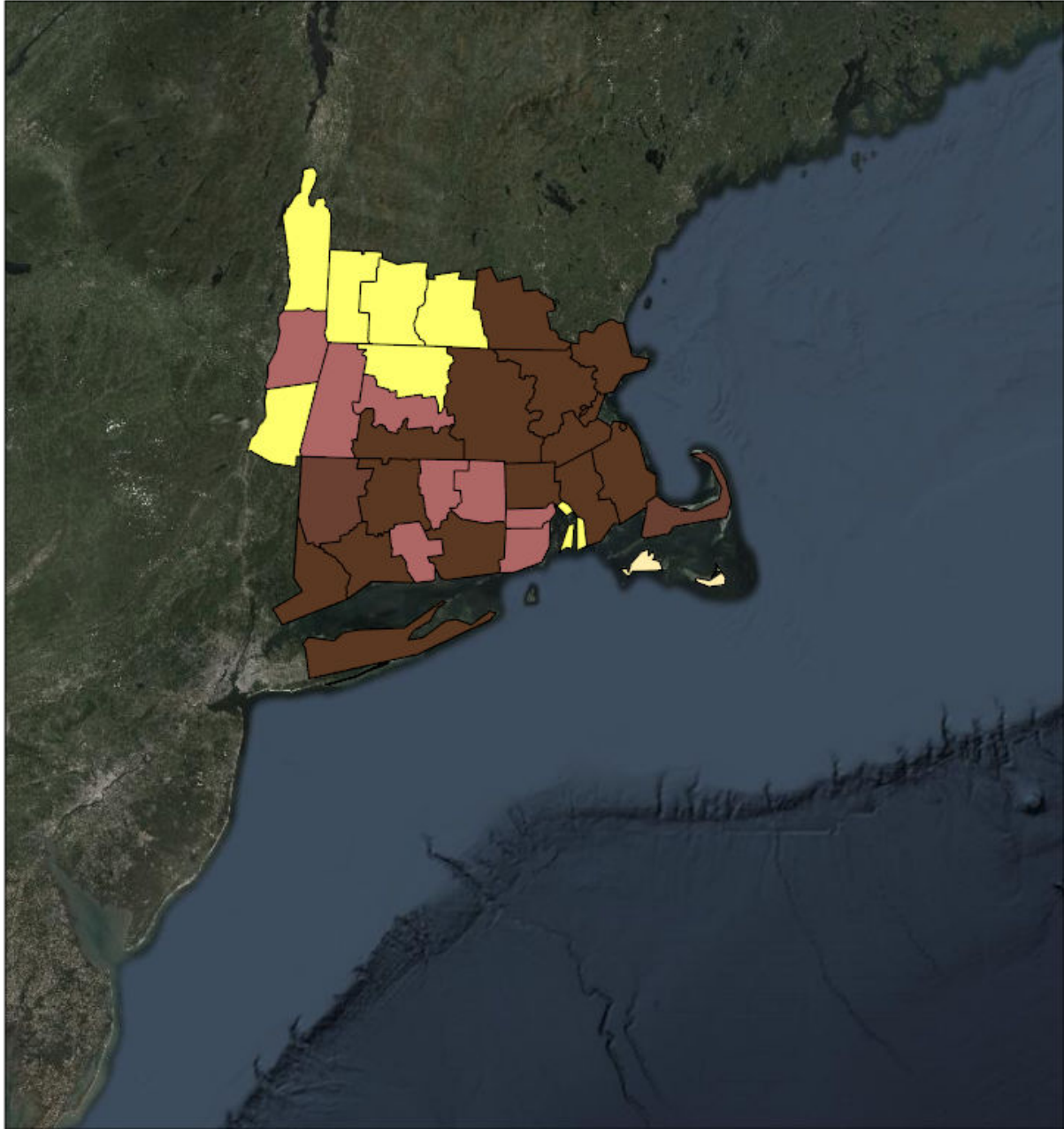
 < 2,000 units





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

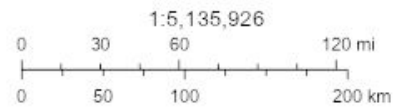
Created by SimSuite

Population



Population

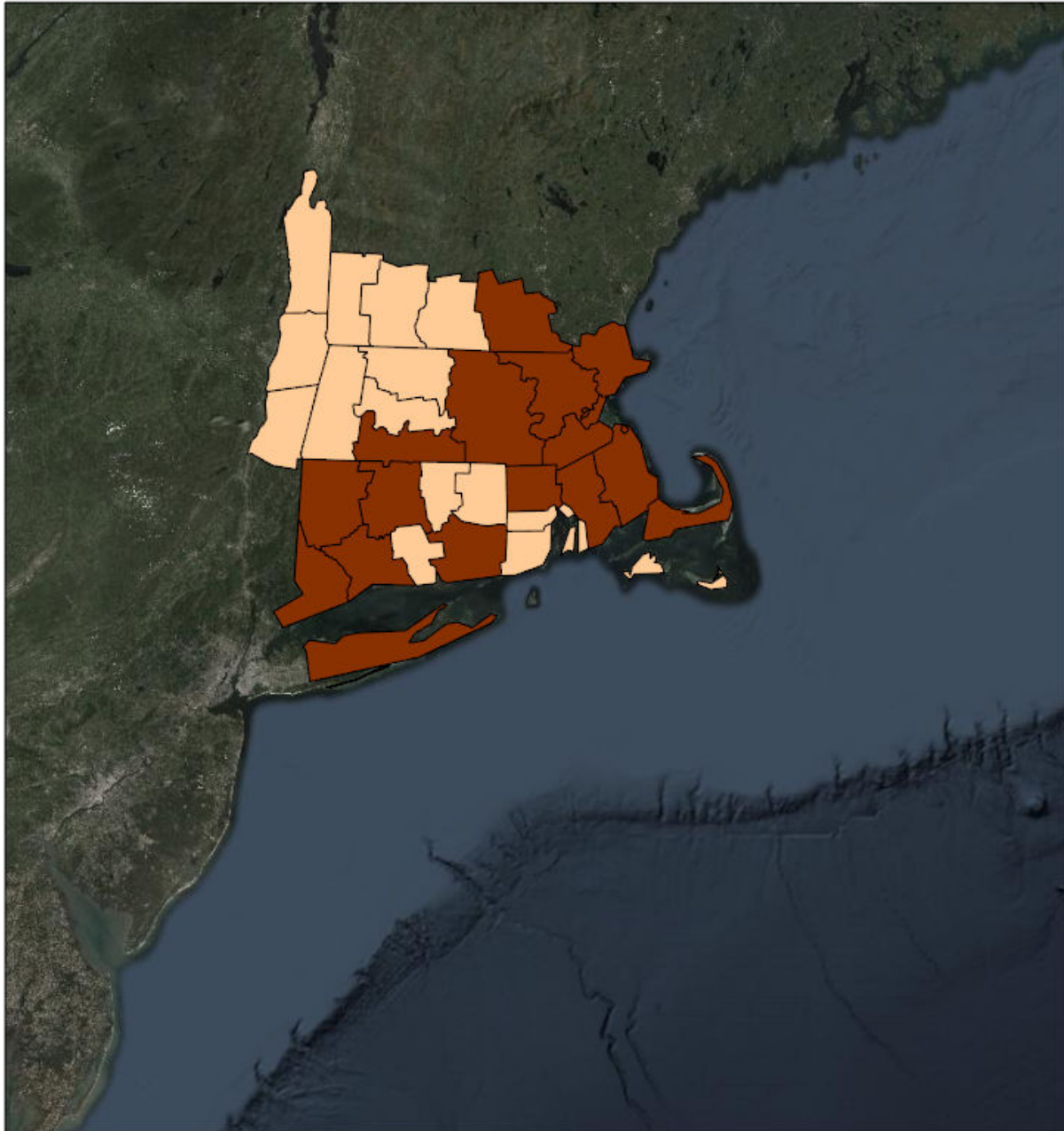
-  < 25,000 persons
-  25,000 - 99,000 persons
-  100,000 - 174,999 persons
-  175,000 - 249,000 persons



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

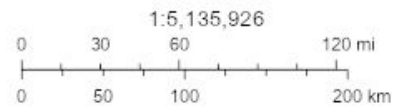
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Households



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	211,975
2	Middlesex	141,542
3	Fairfield	104,480
4	Providence	102,857
5	Essex	101,192
6	Suffolk	97,396
7	New Haven	96,757
8	Hartford	89,087
9	Worcester	80,636
10	Bristol	70,434
11	Norfolk	57,526
12	Hampden	55,387
13	Plymouth	51,701
14	Hillsborough	37,882
15	New London	23,934
16	Kent	19,560
17	Litchfield	15,304
18	Barnstable	15,070
19	Middlesex	13,561
20	Rensselaer	12,039
21	Windham	11,370
22	Washington	10,725
23	Tolland	10,133
24	Hampshire	9,554
25	Newport	7,434
26	Berkshire	7,071
27	Bristol	5,352
28	Columbia	4,261
29	Cheshire	4,161
30	Washington	3,365
31	Franklin	2,734
32	Bennington	2,220
33	Windham	1,517
34	Dukes	0
35	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	35
Debris (cu. yd.)	837,711
Est. Temp. Roofing (units)	0
Act. Temp. Roofing (units)	0
Population	13,980,119
Households	5,166,864

Population Distribution	
Tropical Storm	12,085,666

CONNECTICUT	Yds of Debris (405,359)	Est. Roof Units (0)	Act. Roof Units (0)	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	34,945	0	0	166,528	67,202
New Haven	0	0	0	873,829	334,502
New London	278,348	0	0	276,496	107,057
Tolland	92,066	0	0	154,772	54,477
Windham	0	0	0	118,762	44,810

MASSACHUSETTS	Yds of Debris (0)	Est. Roof Units (0)	Act. Roof Units (0)	Population (6,884,028)	Households (2,547,075)
Barnstable	0	0	0	223,733	95,755
Berkshire	0	0	0	128,457	56,091
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 (493,248)	Households (185,670)
Cheshire	0	0	0	76,576	30,204
Hillsborough	0	0	0	416,672	155,466

NEW YORK	Yds of Debris (324,949)	Est. Roof Units (0)	Act. Roof Units (0)	Population (1,808,182)	Households (614,672)
Columbia	0	0	0	64,714	25,906
Rensselaer	0	0	0	162,365	64,702
Suffolk	324,949	0	0	1,517,429	499,922
Washington	0	0	0	63,674	24,142

RHODE ISLAND	Yds of Debris (107,403)	Est. Roof Units (0)	Act. Roof Units (0)	Population (1,064,615)	Households (413,600)
Bristol	0	0	0	49,181	19,150
Kent	0	0	0	166,449	68,645
Newport	0	0	0	83,346	34,911
Providence	0	0	0	639,055	241,717
Washington	107,403	0	0	126,584	49,177

VERMONT	Yds of Debris (0)	Est. Roof Units (0)	Act. Roof Units (0)	Population (81,321)	Households (34,760)
Bennington	0	0	0	37,178	15,470
Windham	0	0	0	44,143	19,290

Critical Infrastructure

Summary			
Total Critical Facilities		1,014	
Power Requirements (kW)		27,862.6	
Range (kW)			
Communications	# FED Gen Req	Range (kW)	Req kW
AM Antennas (9)	0.5	35 - 75	24.8
Cellular Towers (16)	9.6	35 - 75	528.0
FM Antennas (19)	1.0	35 - 75	52.3
Education	# FED Gen Req	Range (kW)	Req kW
Private Schools (112)	0.0	200 - 300	0.0
Public Schools (228)	68.4	200 - 300	17,100.0
Colleges and Universities (17)	0.3	200 - 300	85.0
Emergency Services	# FED Gen Req	Range (kW)	Req kW
911 Call Centers (0)	0.0	15 - 35	0.0
Emergency Medical Service (76)	7.6	15 - 35	190.0
Fire Stations (105)	10.5	15 - 35	262.5
Service Providers (0)	0.0	0 - 0	0.0
Healthcare	# FED Gen Req	Range (kW)	Req kW
Nursing Homes (85)	12.8	35 - 100	860.6
Hospitals (10)	3.0	800 - 2000	4,200.0
Urgent Care Facilities (12)	2.4	200 - 300	600.0
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 (17)	0.0	15 - 35	0.0
National Security Government Military Facilities (119)	0.0	15 - 35	0.0
Law Enforcement	# FED Gen Req	Range (kW)	Req kW
Prison Points (11)	2.2	400 - 600	1,100.0
Local Police (37)	3.7	15 - 35	92.5
State Police (6)	0.3	15 - 35	7.5
Correctional Facilities (0)	0.0	400 - 600	0.0
State and Local EOC	# FED Gen Req	Range (kW)	Req kW
Local Emergency Operations Centers (32)	6.4	15 - 40	176.0
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 (8)	0.8	100 - 200	120.0

Transportation	# FED Gen Req	Range (kW)	Req kW
Ports (29)	0.0	600 - 1200	0.0
Amtrak Stations (2)	0.0	100 - 300	0.0
Bus Stations (23)	0.0	100 - 300	0.0
Intermodal Terminal Facilities (4)	0.0	100 - 300	0.0
Railroad Stations (4)	0.0	100 - 300	0.0
Public-Use Airports (26)	3.1	40 - 100	218.4

Water	# FED Gen Req	Range (kW)	Req kW
Water Treatment Facilities (0)	0.0	800 - 2000	0.0
Wastewater Treatment Plants (4)	1.6	800 - 2000	2,240.0

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