



US Army Corps
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Hurricane Fiona Adv. 16

For Planning Purposes Only!

WASHINGTON, DC
07:44:36
18 Sep 2022

CHICAGO
06:44:36
18 Sep 2022

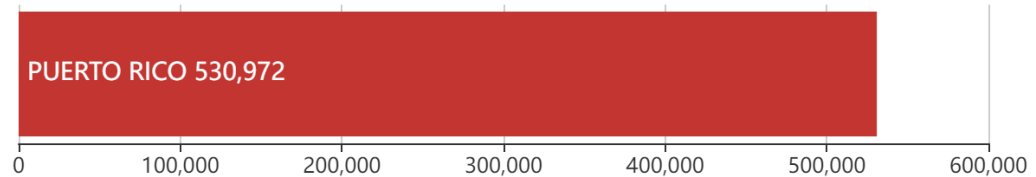
LOS ANGELES
04:44:36
18 Sep 2022

<https://simsuite.usace.army.mil/wab/v2.15/MissionModels/index.html#advid=256&oid=82&name=Hurricane%20Fiona&advisory=Adv.%2016&advlf=G>

Updated as of 18 Sep 2022 (6:44 AM Central Daylight Time)

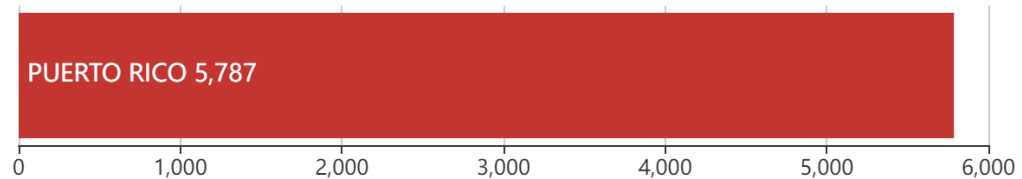
Debris

531K
cu. yd.



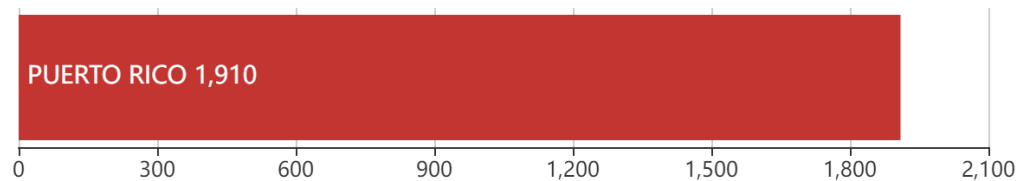
Est. Temp. Roofing

5.8K
units



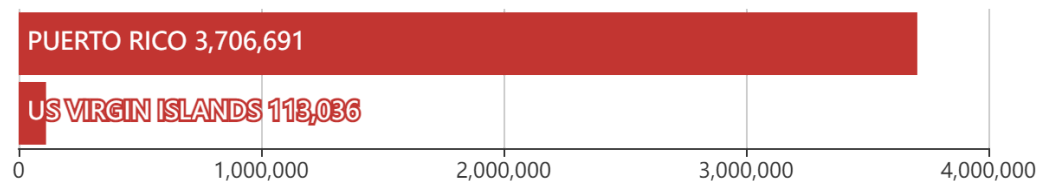
Act. Temp. Roofing

1.9K
units



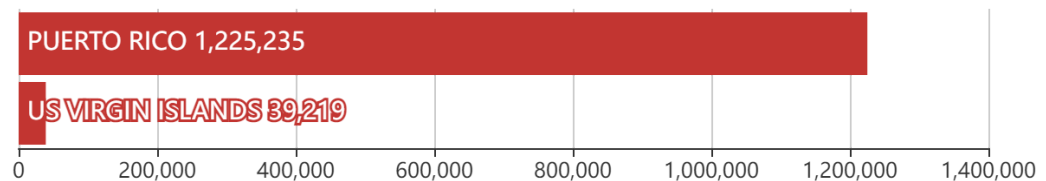
Population

3.8M
people



Households

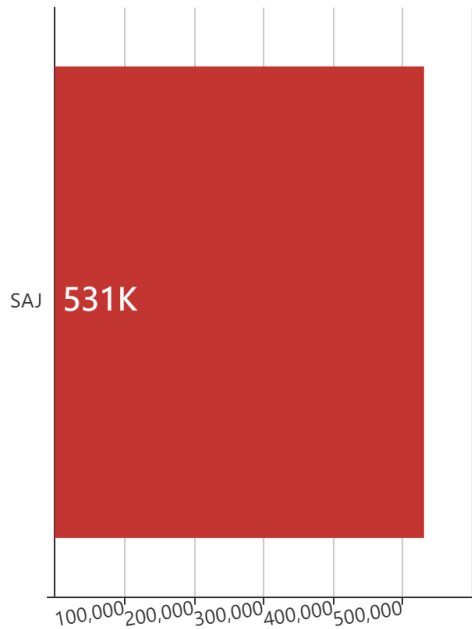
1.3M
households



Mission Model Summary

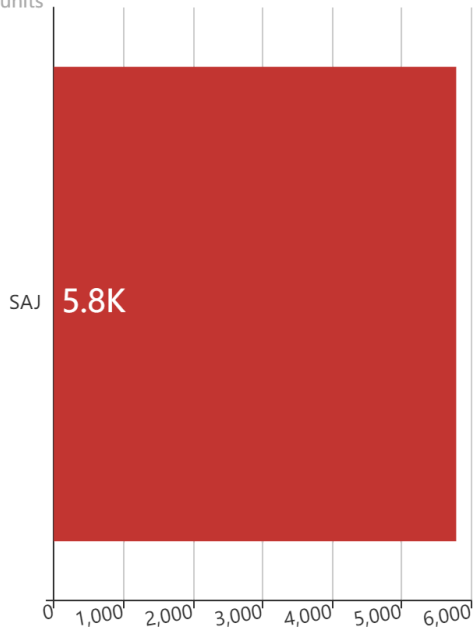
Debris By USACE District

cu. yd.

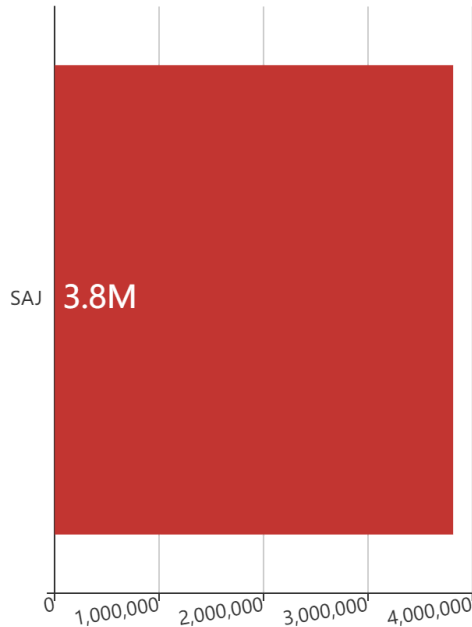


Est. Temp. Roofing By USACE District

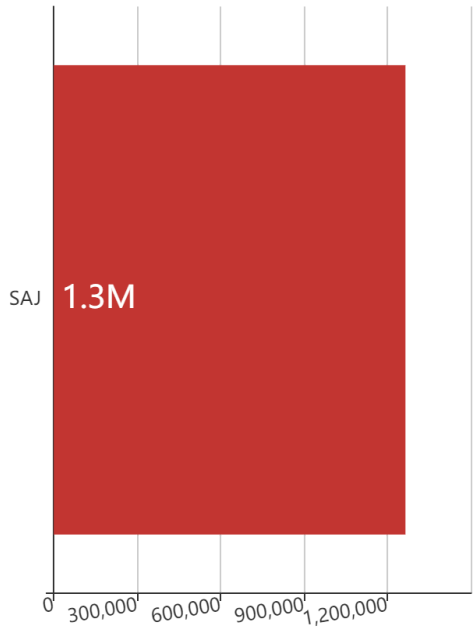
units



Population By USACE District

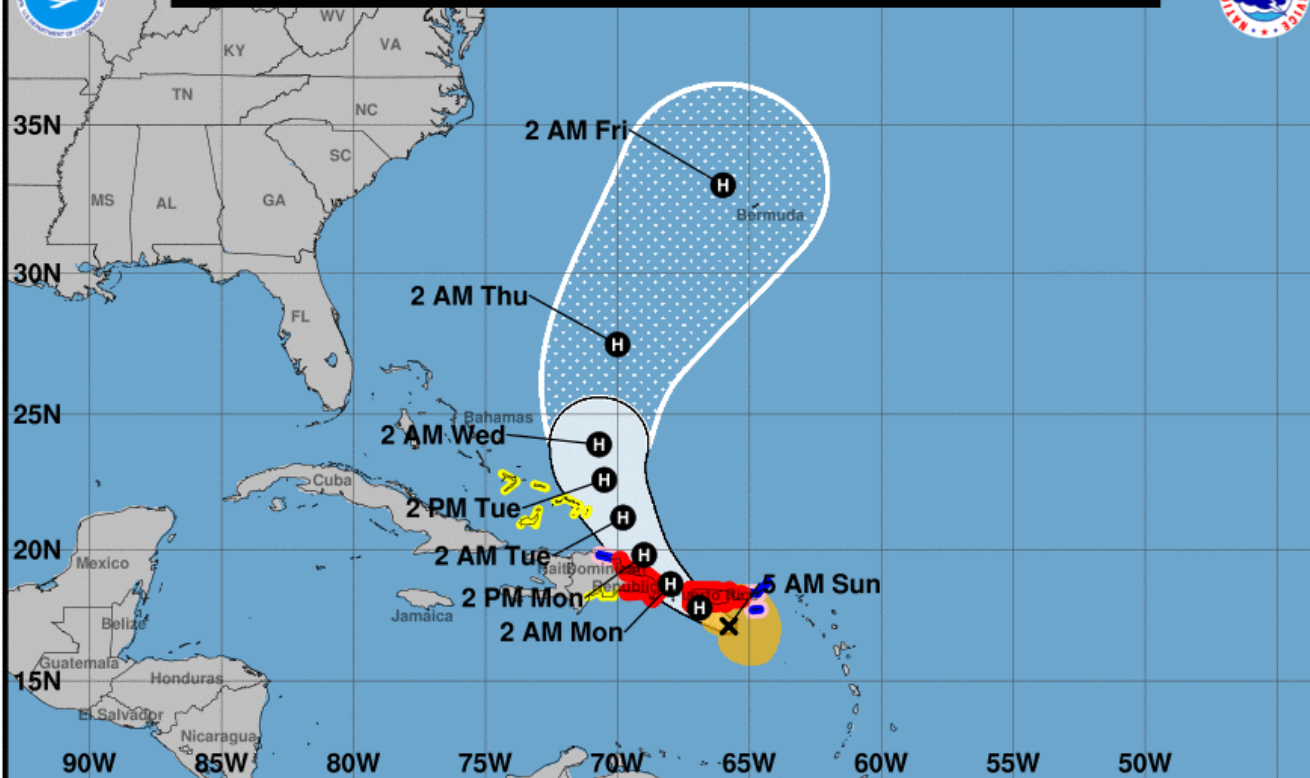


Households By USACE District





Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.



Tropical Storm Fiona

Sunday September 18, 2022

5 AM AST Advisory 16

NWS National Hurricane Center

Current information: x

Center location 17.1 N 65.8 W

Maximum sustained wind 65 mph

Movement WNW at 8 mph

Forecast positions:

● Tropical Cyclone ○ Post/Potential TC

Sustained winds: D < 39 mph

S 39-73 mph H 74-110 mph M > 110 mph

Potential track area:

Day 1-3 Day 4-5

Watches:

Hurricane Trop Stm

Warnings:

Hurricane Trop Stm

Current wind extent:

Hurricane Trop Stm



Key Messages for Tropical Storm Fiona

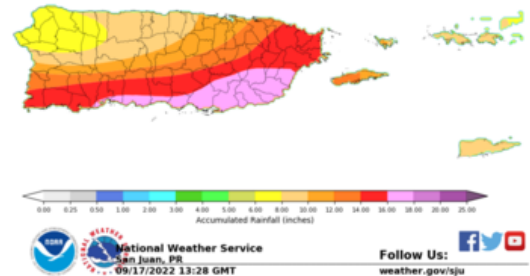
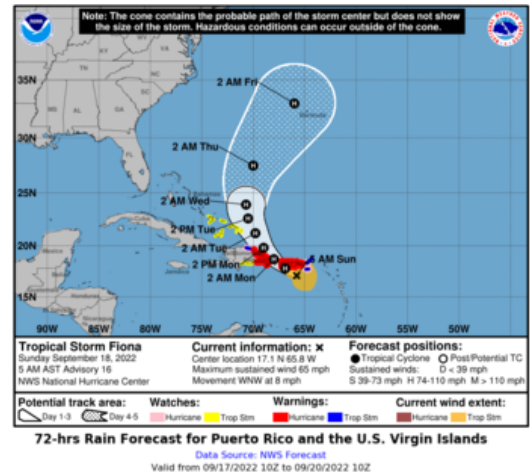
Advisory 16: 5:00 AM AST Sun Sep 18, 2022



1. Hurricane conditions are expected across portions of Puerto Rico today, and are expected in portions of the Dominican Republic tonight and Monday. Tropical storm conditions are occurring across the U.S. and British Virgin Islands and are spreading westward across Puerto Rico. Tropical storm conditions will reach the Dominican Republic later today and tonight.

2. Heavy rains from Fiona will continue across Puerto Rico through tonight and occur over the Dominican Republic later today into Monday. These rainfall amounts will produce life-threatening flash floods and urban flooding across Puerto Rico and portions of the eastern Dominican Republic, along with mudslides and landslides in areas of higher terrain.

3. Fiona is forecast to strengthen after moving away from Puerto Rico and the Dominican Republic. Tropical storm conditions are possible in the Turks and Caicos Islands and the southeastern Bahamas by late Monday or early Tuesday, and a Tropical Storm Watch has been issued for these locations.



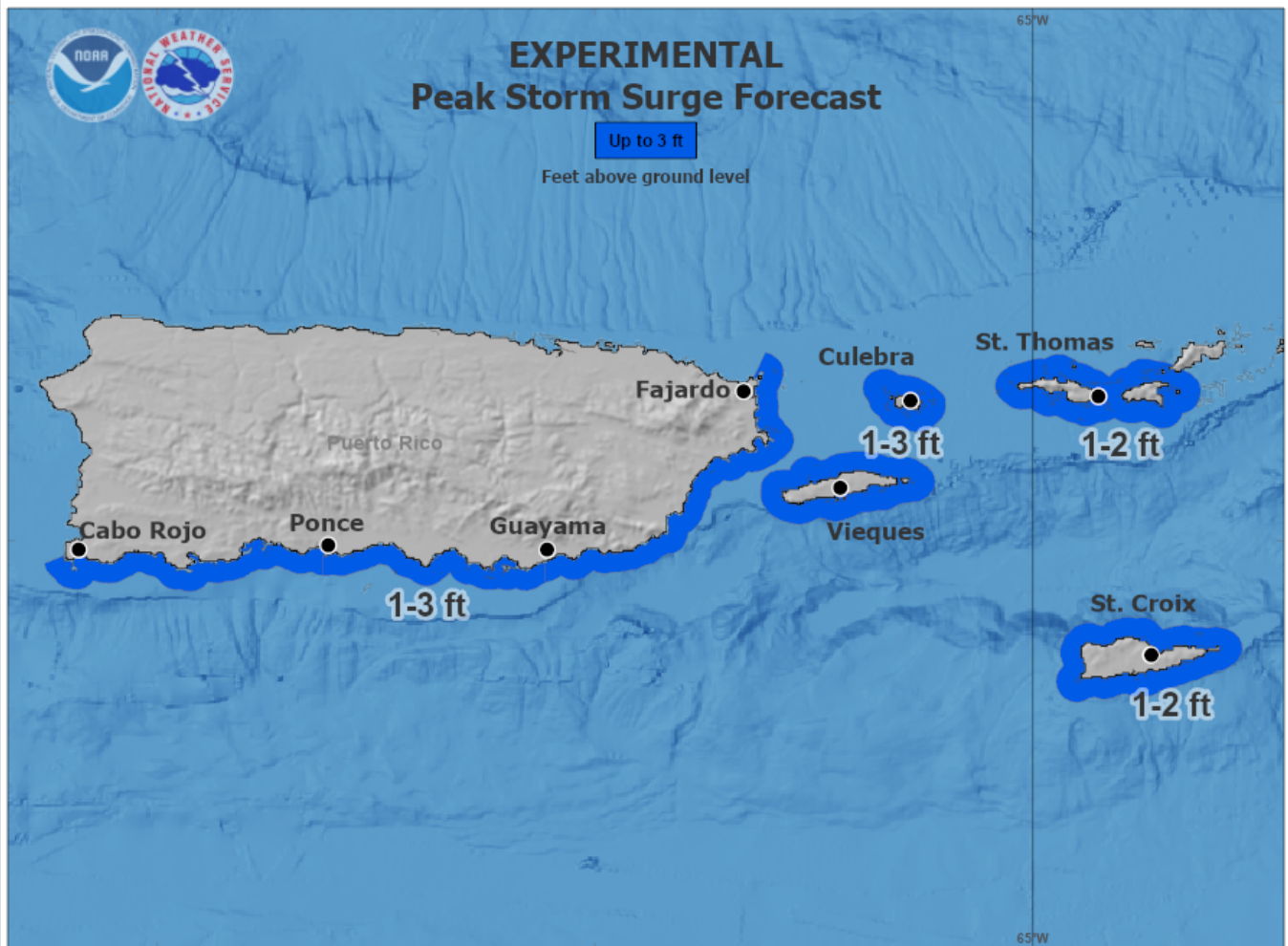
For more information go to hurricanes.gov



EXPERIMENTAL Peak Storm Surge Forecast

Up to 3 ft

Feet above ground level



Tropical Storm Fiona
Sunday September 18, 2022
05 AM AST Advisory 16
NWS National Hurricane Center

User Notes: Water levels along the immediate coast could reach the following heights above ground level within the indicated areas. Elevated water levels will likely be accompanied by large and destructive waves. Colors are determined by the highest values in the associated forecast peak surge range. Values shown on this graphic are inclusive of tide.

Letter ANSI A Portrait



Counties

Mission Model Swaths

TS

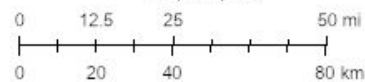
Cat 1

Tropical Cyclone Observed Surface Wind Swath

Observed (Best Track) Winds ≥ 34 knots (39 mph)

Observed (Best Track) Winds ≥ 50 knots (58 mph)

1:1,730,165



Esri, HERE, Garmin, FAO, NOAA, USGS, NPS, Source: NOAA, Esri, NOAA/ NOS/OCS nowCOAST, NOAA/NWS/NHC, NOAA/NWS/C/PHC, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Created by SimSuite

Debris



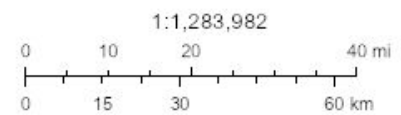
Debris



< 100,000 cubic yards



100,000 - 249,000 cubic yards



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

Created by SimSuite

Est. Temp. Roofing



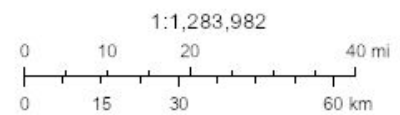
Est. Temp. Roofing



< 1000 units



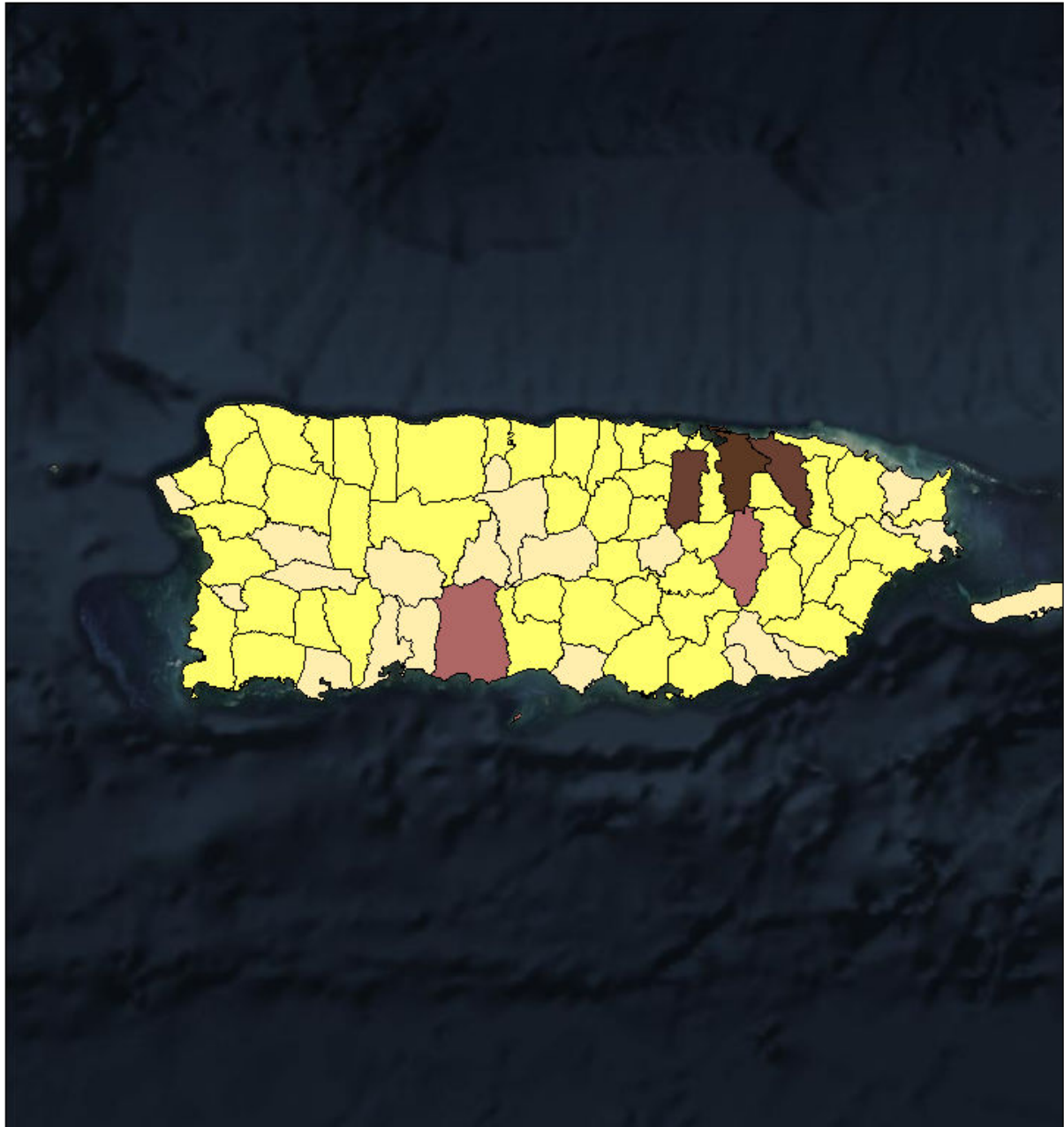
1000 - 4999 units



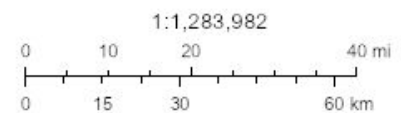
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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Population



Population



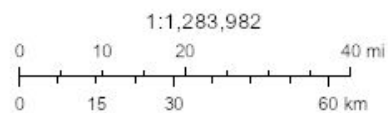
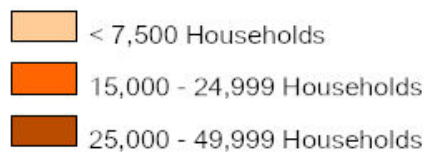
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Created by SimSuite

Households



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	14
Debris (cu. yd.)	530,972
Est. Temp. Roofing (units)	5,787
Act. Temp. Roofing (units)	1,910
Population	3,819,727
Households	1,264,454

Population Distribution	
Tropical Storm	3,544,830
Category 1	274,897

PUERTO RICO	Yds of Debris (530,972)	Est. Roof Units (5,787)	Act. Roof Units (1,910)	Population (3,706,691)	Households (1,225,235)
Adjuntas Municipio	0	0	0	19,460	5,992
Aguada Municipio	6,166	144	48	41,813	13,445
Aguadilla Municipio	0	0	0	60,315	20,594
Aguas Buenas Municipio	0	0	0	28,599	9,103
Aibonito Municipio	0	0	0	25,724	8,163
Arecibo Municipio	0	0	0	95,815	32,769
Arroyo Municipio	0	0	0	19,594	6,318
Añasco Municipio	9,398	220	72	29,280	9,709
Barceloneta Municipio	0	0	0	25,013	8,414
Barranquitas Municipio	0	0	0	30,402	9,111
Bayamón Municipio	0	0	0	205,692	67,660
Cabo Rojo Municipio	109,383	1,136	375	51,245	18,698
Caguas Municipio	0	0	0	142,677	47,669
Camuy Municipio	0	0	0	35,034	11,387
Canóvanas Municipio	0	0	0	48,068	14,916
Carolina Municipio	0	0	0	175,130	59,813
Cataño Municipio	0	0	0	27,820	8,915
Cayey Municipio	0	0	0	48,065	15,863
Ceiba Municipio	0	0	0	13,440	4,293
Ciales Municipio	0	0	0	18,625	5,685
Cidra Municipio	0	0	0	43,523	13,442
Coamo Municipio	0	0	0	40,846	12,763
Caguas Municipio	0	0	0	22,770	6,555

Comerio Municipio	0	0	0	20,779	6,555
Corozal Municipio	0	0	0	37,109	11,341
Culebra Municipio	0	0	0	1,809	678
Dorado Municipio	0	0	0	38,524	12,331
Fajardo Municipio	0	0	0	36,499	12,709
Florida Municipio	0	0	0	12,678	4,062
Guayama Municipio	0	0	0	45,347	14,560
Guayanilla Municipio	4,823	113	37	21,368	6,677
Guaynabo Municipio	0	0	0	97,281	33,126
Gurabo Municipio	0	0	0	46,407	14,829
Guánica Municipio	16,554	387	128	19,114	6,367
Hatillo Municipio	0	0	0	42,245	13,766
Hormigueros Municipio	47,245	368	121	17,295	6,057
Humacao Municipio	0	0	0	58,190	19,016
Isabela Municipio	0	0	0	45,670	15,384
Jayuya Municipio	0	0	0	16,524	4,849
Juana Díaz Municipio	0	0	0	50,675	14,996
Juncos Municipio	0	0	0	40,609	13,293
Lajas Municipio	142,529	533	176	25,571	8,771
Lares Municipio	0	0	0	30,220	9,635
Las Marías Municipio	0	0	0	9,758	3,143
Las Piedras Municipio	0	0	0	39,088	12,633
Loíza Municipio	0	0	0	29,737	8,770
Luquillo Municipio	0	0	0	20,061	6,654
Manatí Municipio	0	0	0	43,773	14,718
Maricao Municipio	302	7	2	6,227	1,945
Maunabo Municipio	0	0	0	12,143	3,806
Mayagüez Municipio	48,486	1,133	374	87,713	30,953
Moca Municipio	0	0	0	40,052	12,826
Morovis Municipio	0	0	0	32,824	9,640
Naguabo Municipio	0	0	0	27,051	8,966
Naranjito Municipio	0	0	0	30,422	9,145
Orocovis Municipio	0	0	0	23,360	6,940
Patillas Municipio	0	0	0	19,105	6,235
Peñuelas Municipio	96	2	1	23,947	6,899
Ponce Municipio	0	0	0	163,727	52,335
Quebradillas Municipio	0	0	0	25,890	8,423
Rincón Municipio	13,767	322	106	15,193	5,295
Río Grande Municipio	0	0	0	54,311	17,043
Sabana Grande Municipio	17,658	413	136	25,133	8,592
Salinas Municipio	0	0	0	30,081	10,130

San Germán Municipio	0	0	0	30,501	10,109
San Germán Municipio	102,845	737	243	35,254	12,171
San Juan Municipio	0	0	0	389,714	146,656
San Lorenzo Municipio	0	0	0	40,946	13,120
San Sebastián Municipio	0	0	0	42,092	14,255
Santa Isabel Municipio	0	0	0	23,389	7,320
Toa Alta Municipio	0	0	0	75,105	22,815
Toa Baja Municipio	0	0	0	88,798	28,745
Trujillo Alto Municipio	0	0	0	74,490	23,764
Utua Municipio	0	0	0	32,776	10,394
Vega Alta Municipio	0	0	0	40,100	12,580
Vega Baja Municipio	0	0	0	59,171	18,879
Vieques Municipio	0	0	0	9,349	3,407
Villalba Municipio	0	0	0	25,766	7,130
Yabucoa Municipio	0	0	0	37,665	11,752
Yauco Municipio	11,720	274	90	41,486	13,423

US VIRGIN ISLANDS	Yds of Debris (0)	Est. Roof Units (0)	Act. Roof Units (0)	Population (113,036)	Households (39,219)
ANNA'S HOPE VILLAGE	0	0	0	3,420	1,179
ANNA'S RETREAT	0	0	0	9,213	3,177
CENTRAL	0	0	0	5,700	1,966
CENTRAL - NORTHEAST	0	0	0	301	120
CENTRAL - NORTHWEST	0	0	0	86	34
CENTRAL - SOUTHEAST	0	0	0	387	155
CENTRAL - SOUTHWEST	0	0	0	0	0
CHARLOTTE AMALIE	0	0	0	17,913	6,177
CHRISTIANSTED	0	0	0	11,970	4,128
CORAL BAY	0	0	0	860	344
CRUZ BAY	0	0	0	2,580	1,032
EAST END	0	0	0	8,189	2,824
EAST END	0	0	0	129	52
EAST END - NORTH	0	0	0	2,850	983
EAST END - NORTH ISLAND 1	0	0	0	0	0
EAST END - SOUTH	0	0	0	1,140	393
EAST END ISLAND - 1	0	0	0	256	88
EAST END ISLAND - 10	0	0	0	0	0
EAST END ISLAND - 11	0	0	0	0	0

EAST END ISLAND - 11	0	0	0	0	0
EAST END ISLAND - 12	0	0	0	0	0
EAST END ISLAND - 13	0	0	0	0	0
EAST END ISLAND - 2	0	0	0	0	0
EAST END ISLAND - 3	0	0	0	0	0
EAST END ISLAND - 4	0	0	0	0	0
EAST END ISLAND - 5	0	0	0	0	0
EAST END ISLAND - 6	0	0	0	0	0
EAST END ISLAND - 7	0	0	0	0	0
EAST END ISLAND - 8	0	0	0	0	0
EAST END ISLAND - 9	0	0	0	0	0
NORTHCENTRAL	0	0	0	2,280	786
NORTHSIDE - EAST	0	0	0	4,606	1,588
NORTHSIDE - EAST ISLAND 1	0	0	0	0	0
NORTHSIDE - EAST ISLAND 2	0	0	0	0	0
NORTHSIDE - EAST ISLAND 3	0	0	0	0	0
NORTHSIDE - WEST	0	0	0	3,583	1,236
NORTHSIDE - WEST ISLAND 1	0	0	0	0	0
NORTHSIDE - WEST ISLAND 2	0	0	0	0	0
NORTHWEST	0	0	0	3,990	1,376
SION FARM	0	0	0	9,120	3,145
SOUTHCENTRAL	0	0	0	6,270	2,162
SOUTHSIDE	0	0	0	4,606	1,588
SOUTHWEST	0	0	0	10,260	3,538
ST JOHN	0	0	0	0	0
ST THOMAS	0	0	0	0	0
WATER ISLAND - 1	0	0	0	512	177
WATER ISLAND - 2	0	0	0	256	88
WEST END - EAST	0	0	0	2,047	706
WEST END - WEST	0	0	0	512	177
WEST END - WEST ISLAND 1	0	0	0	0	0
WEST END - WEST ISLAND 2	0	0	0	0	0
WEST END - WEST ISLAND 3	0	0	0	0	0

