



US Army Corps  
of Engineers®  
BUILDING STRONG®

# Hurricane Delta Adv. #20

For Planning Purposes Only!

WASHINGTON, DC  
13:18:00  
09 Oct 2020

CHICAGO  
12:18:00  
09 Oct 2020

LOS ANGELES  
10:18:00  
09 Oct 2020

<https://go.usa.gov/xGzb7>

Updated as of 9 Oct 2020 (1:18 PM Eastern Daylight Time)



Debris

4,183,775  
cu. yd.

Louisiana 100% (4,183,775)

Arkansas <1% (0)

Mississippi <1% (0)

Texas <1% (0)



Temporary  
Roofing

5,028  
units

Louisiana 100% (5,028)

Arkansas <1% (0)

Mississippi <1% (0)

Texas <1% (0)



Population

4,034,085  
people

Louisiana 58% (2,359,727)

Texas 35% (1,403,717)

Mississippi 7% (267,017)

Arkansas <1% (3,624)



Households

1,377,481  
households

Louisiana 60% (821,732)

Texas 33% (453,741)

Mississippi 7% (100,477)

Arkansas <1% (1,530)

# Critical Infrastructure Summary

## Total

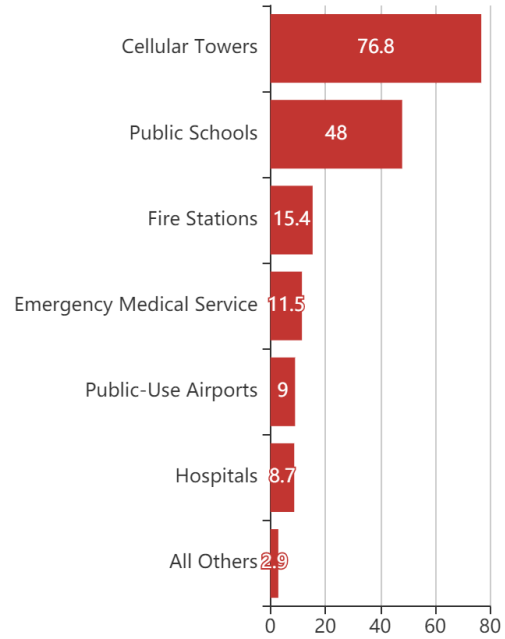


## Power Requirements



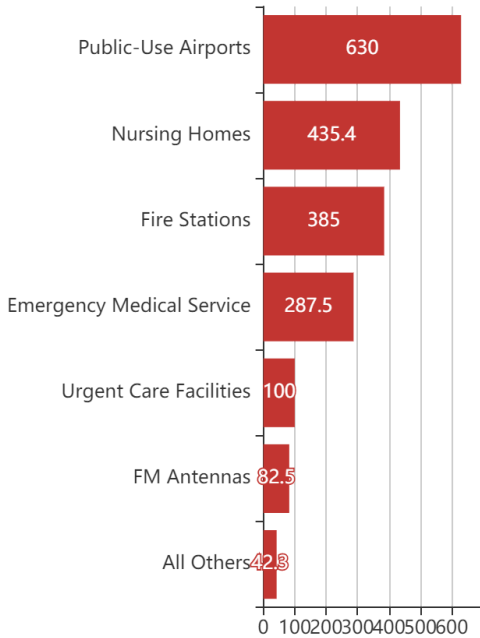
## Generators

By Generator Count



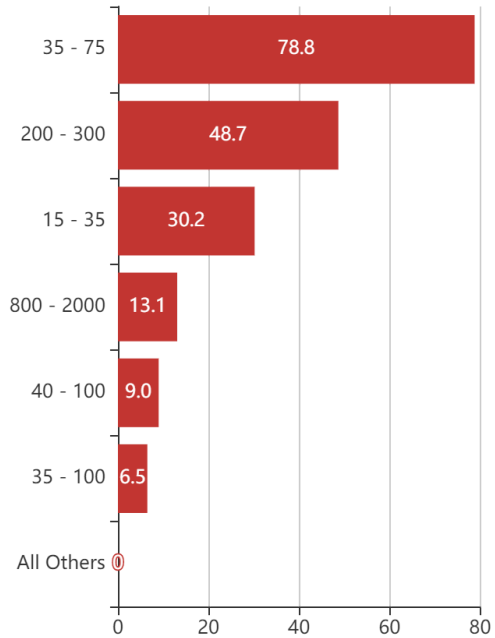
## Generators

By Power Requirement



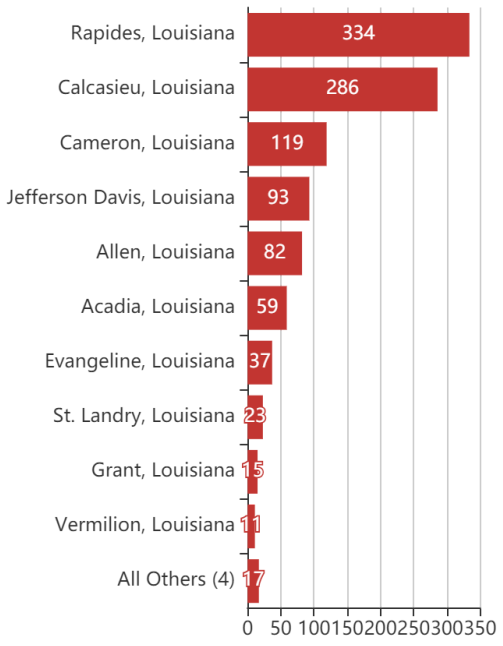
## Generators

By Range



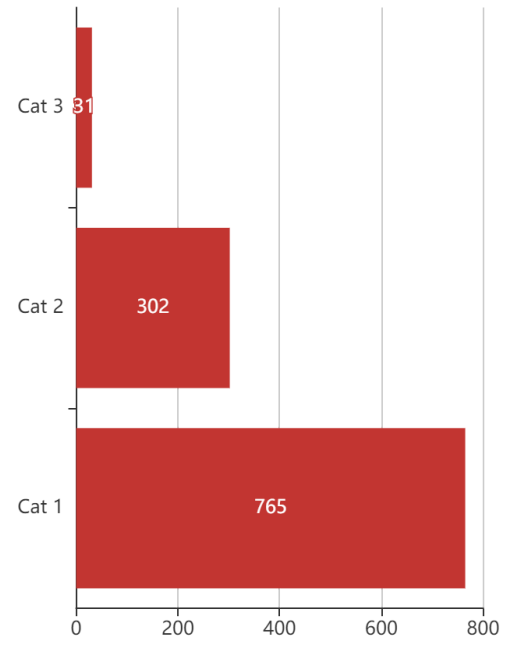
## Structures

By County



## Structures

By Intensity





# Key Messages for Hurricane Delta

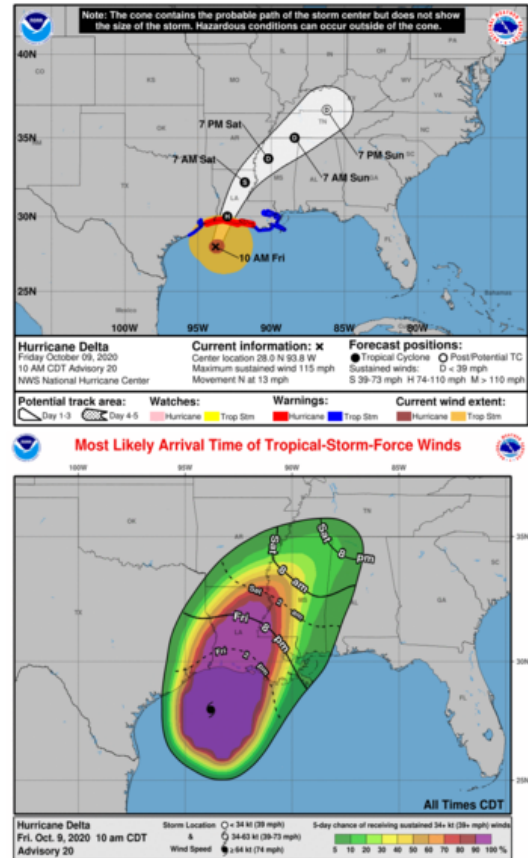
## Advisory 20: 10:00 AM CDT Fri Oct 09, 2020



1. Life-threatening storm surge is expected near and east of where Delta makes landfall this evening, and a Storm Surge Warning is in effect from High Island, Texas, to the Mouth of the Pearl River. The highest inundation of 7 to 11 feet is expected somewhere between Rockefeller Wildlife Refuge and Morgan City, Louisiana. Water levels in this area will rise quickly this afternoon and evening as Delta approaches and efforts to protect life and property should be rushed to completion.

2. Hurricane-force winds are expected this afternoon and evening within portions of the Hurricane Warning area, especially along the coast of southwest Louisiana. Hurricane force winds will also spread inland across portions of southern Louisiana near the path of Delta's center this evening and tonight.

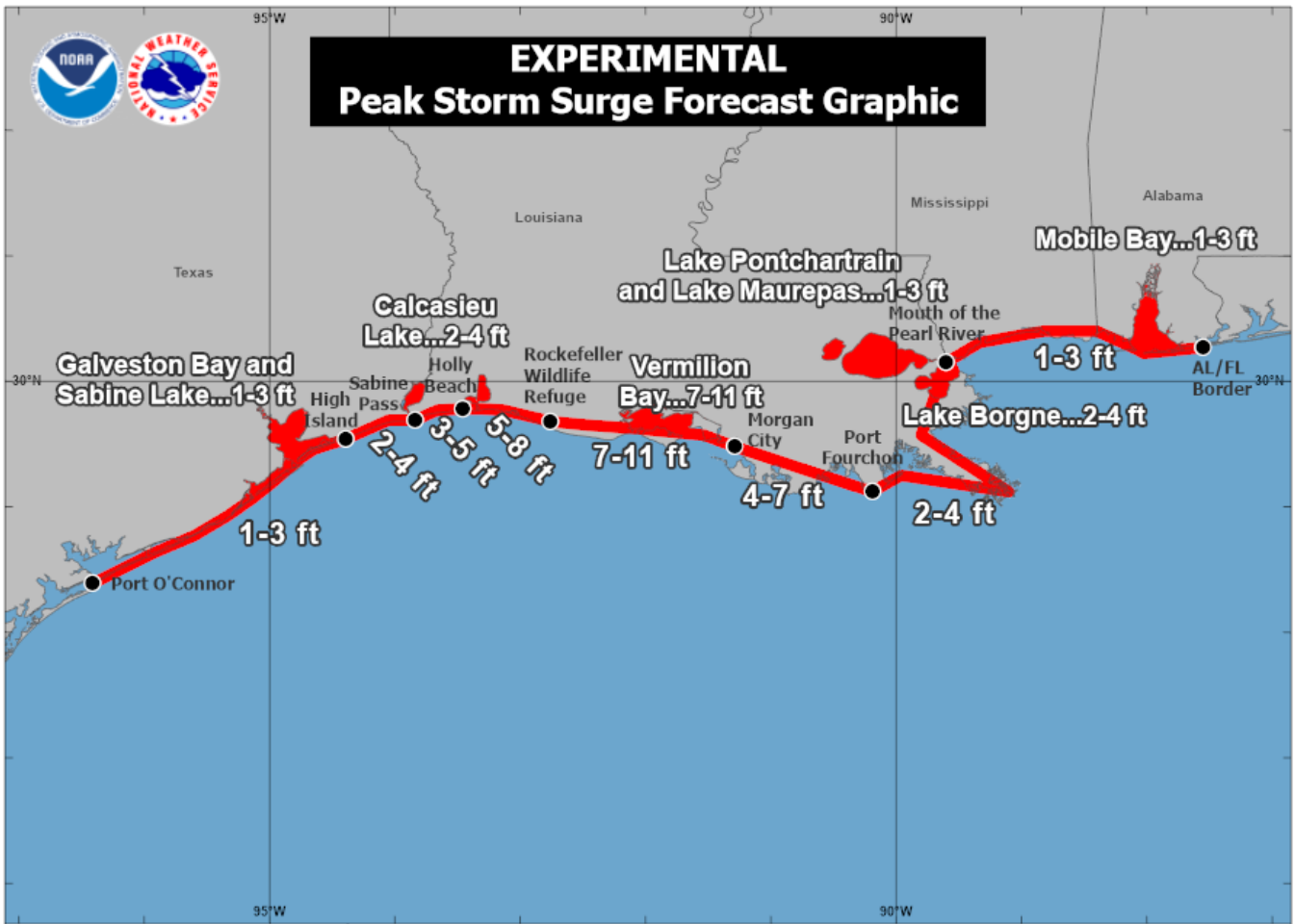
3. Heavy rainfall will lead to significant flash flooding and minor to major river flooding in parts of Louisiana today and Saturday. Additional flooding is expected across portions of the central Gulf Coast into the Lower Mississippi Valley.



For more information go to [hurricanes.gov](https://hurricanes.gov)

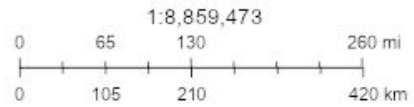
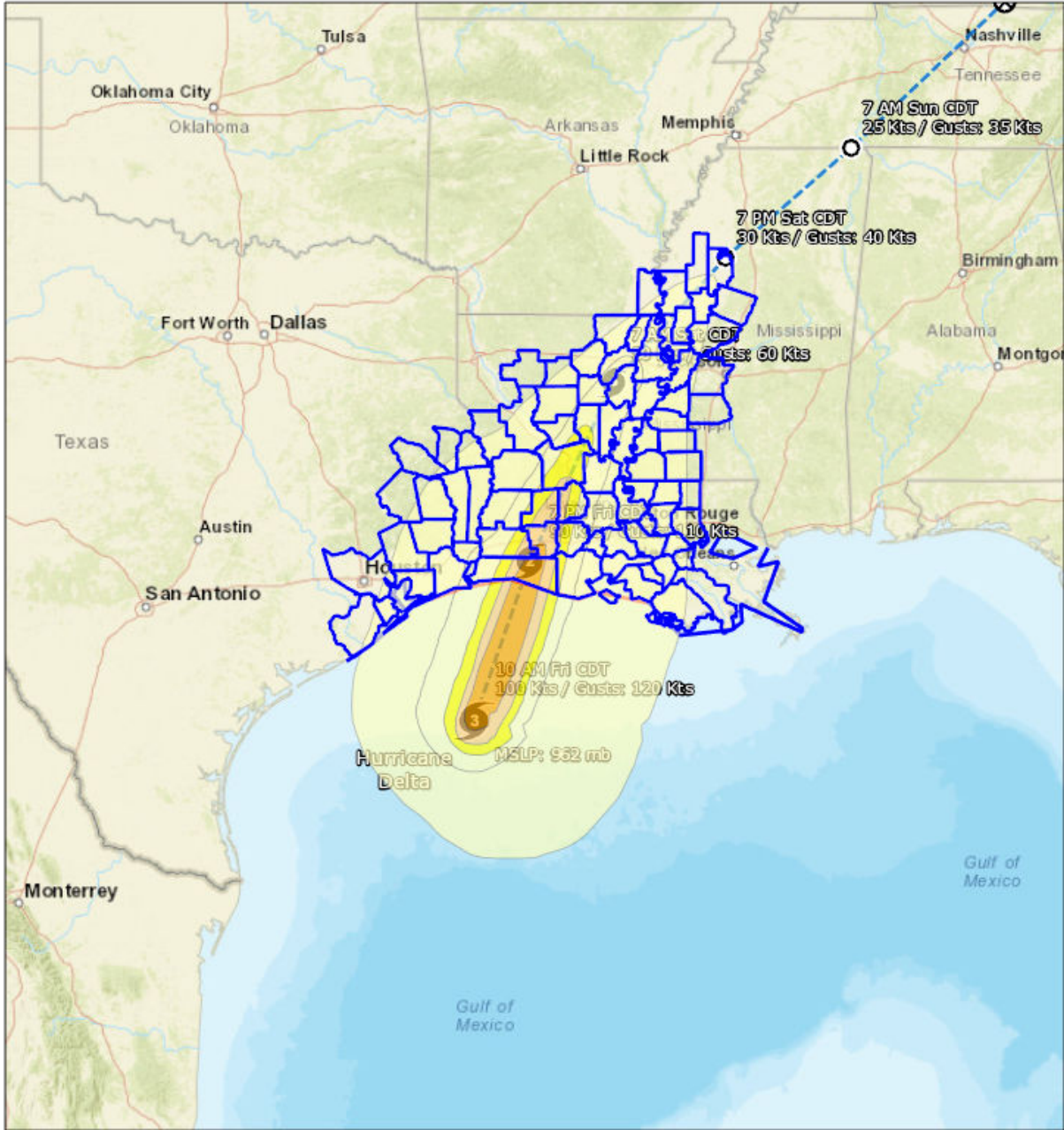


# EXPERIMENTAL Peak Storm Surge Forecast Graphic



**Hurricane Delta**  
**Friday October 09, 2020**  
**10 AM CDT Advisory 20**  
**NWS National Hurricane Center**

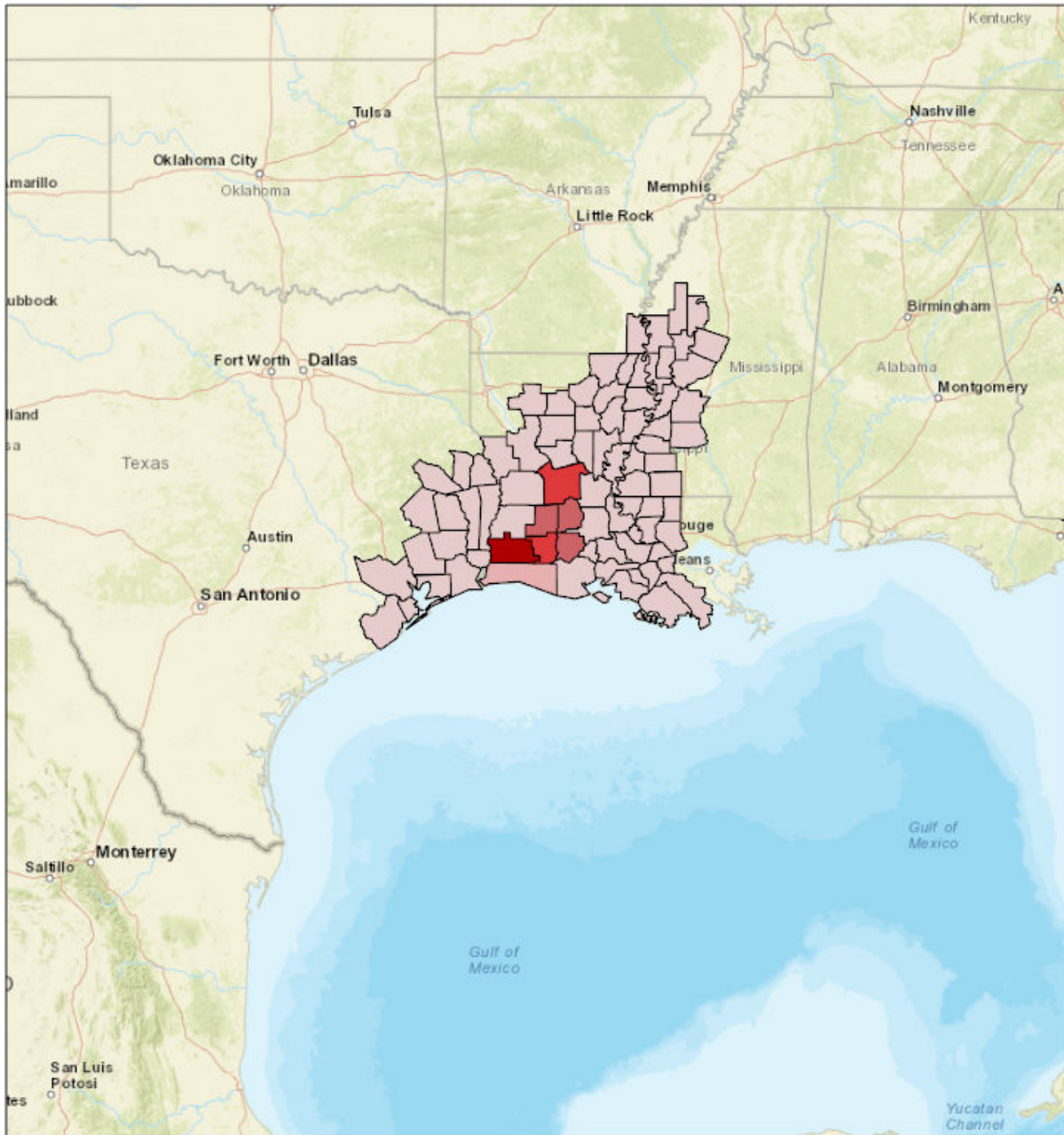
The combination of a dangerous storm surge and the tide will cause normally dry areas near the coast to be flooded by rising waters moving inland from the shoreline. The water could reach the following heights above ground somewhere within the indicated areas if the peak surge occurs at the time of high tide. The deepest water will occur along the immediate coast near the landfall location, where the surge will be accompanied by large and destructive waves. Surge-related flooding depends on the relative timing of the surge and the tidal cycle, and can vary greatly over short distances.



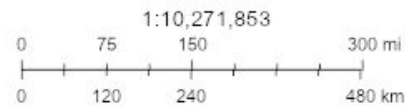
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community, NOAA/NOS/OCs nowCOAST, NOAA/NWS/NHC, NOAA/NWS/CPHC



# Debris



## Debris



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Created by SimSuite

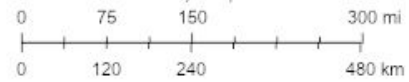
# Temporary Roofing



Temporary Roofing

 < 2,000 units

1:10,271,853

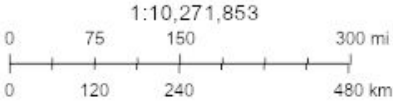
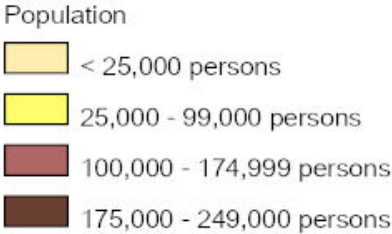
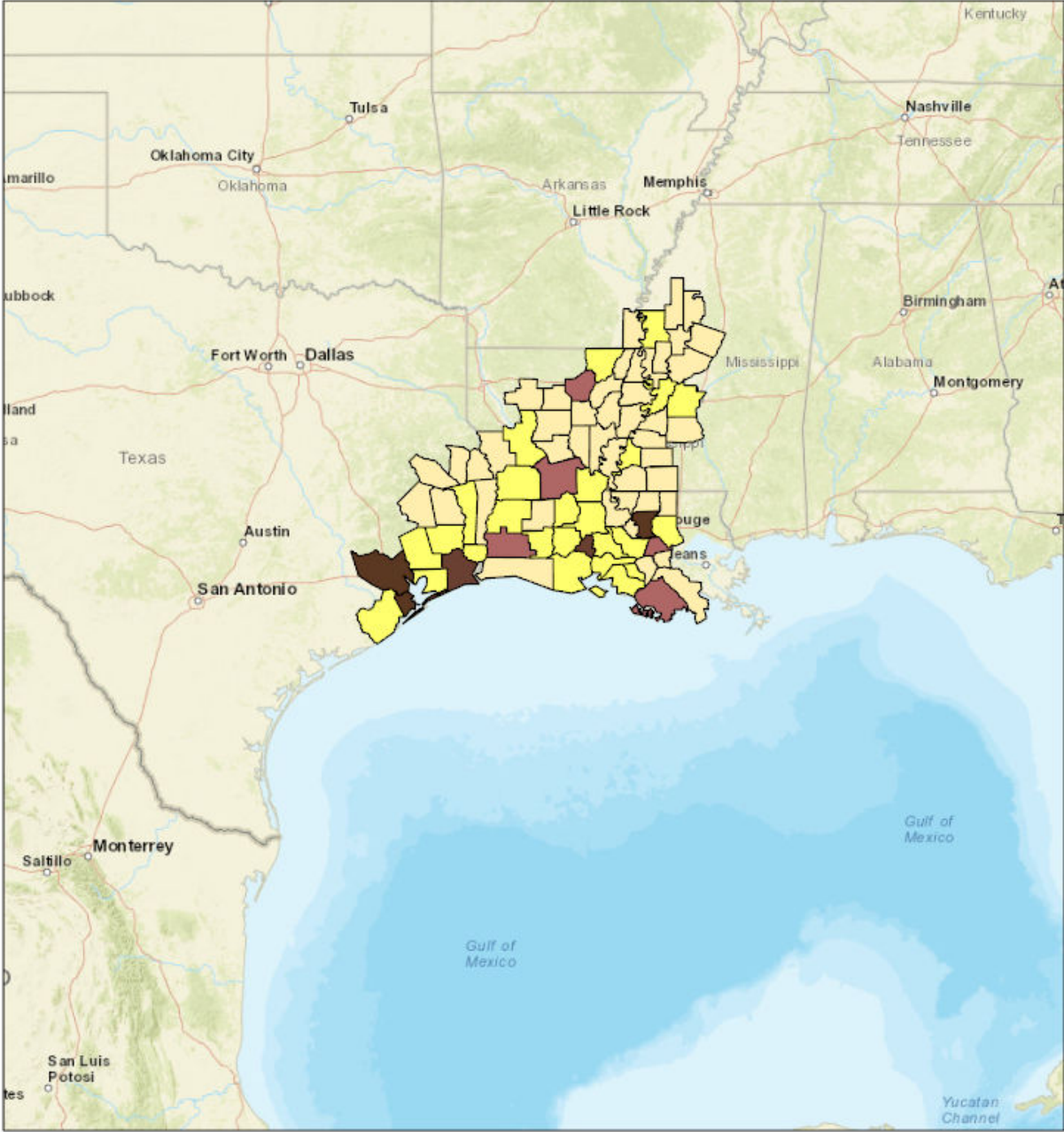


Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Created by SimSuite

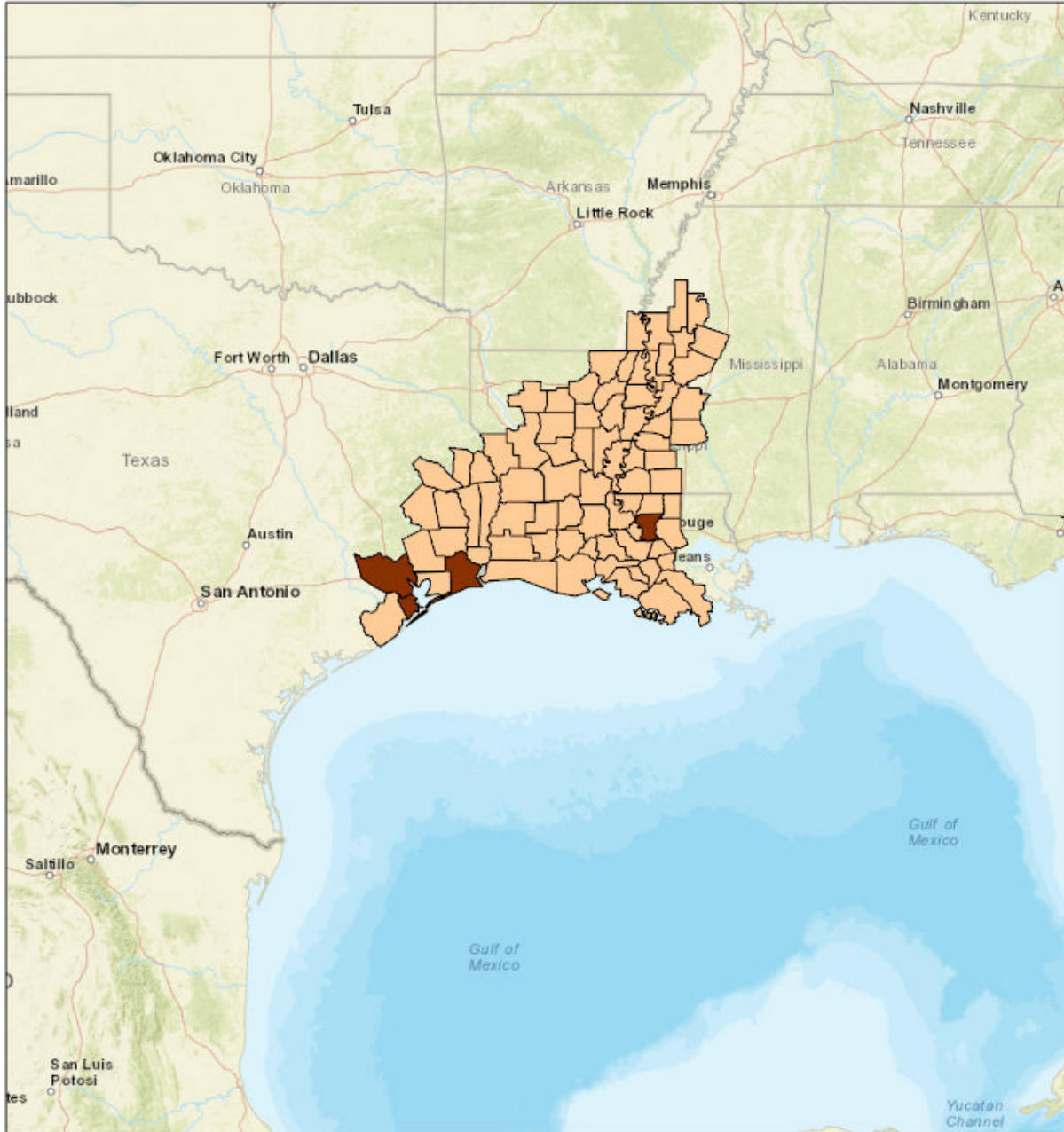


# Population

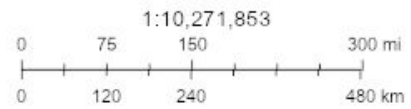


Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

# Households



## Households



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, 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	80
Debris (cu. yd.)	4,183,775
Temporary Roofing (units)	5,028
Population	4,034,085
Households	1,377,481

Population Distribution	
Tropical Storm	3,690,551
Category 1	177,597
Category 2	88,228
Category 3	12,131

ARKANSAS	Yards of Debris (0)	Roof Units (0)	Population (3,624)	Households (1,530)
Chicot	0	0	3,624	1,530

LOUISIANA	Yards of Debris (4,183,775)	Roof Units (5,028)	Population (2,359,727)	Households (821,732)
Acadia	278,345	396	60,758	21,062
Allen	320,084	406	24,895	7,812
Ascension	0	0	107,959	26,691
Assumption	0	0	23,119	8,239
Avoyelles	14,302	25	29,817	10,358
Beauregard	7,987	14	35,094	12,104
Bienville	0	0	0	0
Calcasieu	1,283,170	1,402	160,755	58,787
Caldwell	0	0	10,332	3,941
Cameron	231,989	178	5,474	2,679
Catahoula	0	0	10,656	4,082
Concordia	0	0	19,307	7,521
East Baton Rouge	0	0	430,746	156,365
East Carroll	0	0	8,195	2,969
East Feliciana	0	0	20,723	6,699
Evangeline	356,463	465	27,181	9,613
Franklin	0	0	19,999	7,754
Grant	17,269	30	21,739	7,074
Iberia	0	0	75,402	25,381
Iberville	0	0	32,992	10,674
Jackson	0	0	15,165	6,086

Jefferson Davis	854,878	807	30,139	11,028
La Salle	21,355	37	14,165	5,291
Lafayette	0	0	210,850	72,372
Lafourche	0	0	10,162	3,473
Livingston	0	0	52,041	13,520
Madison	0	0	12,172	4,469
Morehouse	0	0	28,799	11,382
Natchitoches	0	0	39,823	14,263
Ouachita	0	0	151,722	55,216
Pointe Coupee	0	0	22,820	8,397
Rapides	722,710	1,145	123,901	43,735
Richland	0	0	20,657	7,490
Sabine	0	0	23,657	9,221
St. Helena	0	0	3,587	1,340
St. James	0	0	21,505	6,992
St. Landry	14,075	24	93,347	32,324
St. Martin	0	0	52,518	17,164
St. Mary	0	0	50,951	19,317
Tensas	0	0	5,558	2,416
Terrebonne	0	0	110,329	35,997
Vermilion	56,229	91	30,352	10,585
Vernon	4,918	8	45,282	18,260
West Baton Rouge	0	0	23,162	7,663
West Carroll	0	0	11,456	4,458
West Feliciana	0	0	15,318	3,645
Winn	0	0	15,147	5,821

<b>MISSISSIPPI</b>	<b>Yards of Debris (0)</b>	<b>Roof Units (0)</b>	<b>Population (267,017)</b>	<b>Households (100,477)</b>
Adams	0	0	31,752	13,677
Amite	0	0	13,229	5,271
Claiborne	0	0	11,121	3,685
Copiah	0	0	581	199
Franklin	0	0	8,292	3,211
Hinds	0	0	31,886	11,608
Holmes	0	0	234	81
Humphreys	0	0	10,268	3,765
Issaquena	0	0	1,921	726
Jefferson	0	0	9,098	3,308
Leflore	0	0	6,466	2,325
Sharkey	0	0	6,093	2,163
Sunflower	0	0	9,786	2,976
Warren	0	0	48,349	18,756
Washington	0	0	58,324	22,158
Wilkinson	0	0	10,128	3,578
Yazoo	0	0	9,488	2,991



<b>TEXAS</b>	<b>Yards of Debris (0)</b>	<b>Roof Units (0)</b>	<b>Population (1,403,717)</b>	<b>Households (453,741)</b>
Angelina	0	0	5,922	2,027
Brazoria	0	0	57,936	14,981
Chambers	0	0	33,630	9,139
Galveston	0	0	297,386	94,782
Hardin	0	0	52,994	17,805
Harris	0	0	460,231	133,369
Jasper	0	0	34,760	13,450
Jefferson	0	0	246,123	92,881
Liberty	0	0	76,782	23,242
Newton	0	0	14,285	5,583
Orange	0	0	84,766	31,642
Polk	0	0	5,923	1,926
Sabine	0	0	10,437	4,485
San Augustine	0	0	1,592	654
Tyler	0	0	20,950	7,775

## COVID-19

#	County	Cases
1	Harris	149,771
2	East Baton Rouge	15,395
3	Galveston	11,851
4	Brazoria	11,691
5	Lafayette	9,120
6	Calcasieu	8,005
7	Jefferson	7,753
8	Hinds	7,379
9	Ouachita	6,535
10	Rapides	4,382
11	Livingston	3,926
12	Ascension	3,862
13	Lafourche	3,745
14	Terrebonne	3,718
15	St. Landry	3,433
16	Acadia	3,014
17	Iberia	3,014
18	Washington	2,360
19	Liberty	2,272
20	Angelina	2,205
21	St. Martin	2,131
22	Vermilion	2,066
23	Orange	2,022
24	St. Mary	1,962
25	East Feliciana	1,763
26	Allen	1,721
27	Avoyelles	1,610
28	Sunflower	1,522
29	Leflore	1,487
30	Warren	1,452
31	Iberville	1,429
32	Chambers	1,419
33	Hardin	1,363
34	Evangeline	1,351
35	Jefferson Davis	1,282
36	Copiah	1,260
37	Natchitoches	1,250
38	Franklin	1,239
39	Holmes	1,113

40	Yazoo	1,091
41	Vernon	1,089
42	Pointe Coupee	1,075
43	Beauregard	1,029
44	Chicot	1,016
45	Adams	984
46	West Baton Rouge	928
47	Sabine	899
48	Madison	888
49	Polk	876
50	Morehouse	836
51	St. James	816
52	Richland	805
53	Assumption	774
54	West Feliciana	737
55	Jackson	718
56	Winn	646
57	East Carroll	549
58	Concordia	525
59	Bienville	520
60	Claiborne	509
61	Grant	503
62	Jasper	496
63	Ashley	457
64	Catahoula	444
65	LaSalle	439
66	St. Helena	424
67	Humphreys	382
68	Amite	364
69	West Carroll	354
70	Caldwell	318
71	Wilkinson	313
72	Sharkey	268
73	Jefferson	248
74	Tyler	236
75	Cameron	231
76	Franklin	207
77	San Augustine	207
78	Newton	187
79	Tensas	162
80	Issaquena	106
81	Sabine	82

## Critical Infrastructure

Summary			
Total Critical Facilities		1,098	
Power Requirements (kW)		38,831.2	
Range (kW)			
Communications	# FED Gen Req	Range (kW)	Req kW
AM Antennas (10)	0.5	35 - 75	27.5
Cellular Towers (128)	76.8	35 - 75	4,224.0
FM Antennas (30)	1.5	35 - 75	82.5
Education	# FED Gen Req	Range (kW)	Req kW
Private Schools (27)	0.0	200 - 300	0.0
Public Schools (160)	48.0	200 - 300	12,000.0
Colleges and Universities (15)	0.3	200 - 300	75.0
Emergency Services	# FED Gen Req	Range (kW)	Req kW
911 Call Centers (0)	0.0	15 - 35	0.0
Emergency Medical Service (115)	11.5	15 - 35	287.5
Fire Stations (154)	15.4	15 - 35	385.0
Service Providers (0)	0.0	0 - 0	0.0
Healthcare	# FED Gen Req	Range (kW)	Req kW
Nursing Homes (43)	6.5	35 - 100	435.4
Hospitals (29)	8.7	800 - 2000	12,180.0
Urgent Care Facilities (2)	0.4	200 - 300	100.0
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 (12)	0.0	15 - 35	0.0
National Security Government Military Facilities (50)	0.0	15 - 35	0.0
Law Enforcement	# FED Gen Req	Range (kW)	Req kW
Prison Points (21)	4.2	400 - 600	2,100.0
Local Police (30)	3.0	15 - 35	75.0
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 (6)	1.2	15 - 40	33.0
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 (2)	0.2	100 - 200	30.0

Transportation	# FED Gen Req	Range (kW)	Req kW
Ports (158)	0.0	600 - 1200	0.0
Amtrak Stations (1)	0.0	100 - 300	0.0
Bus Stations (6)	0.0	100 - 300	0.0
Intermodal Terminal Facilities (5)	0.0	100 - 300	0.0
Railroad Stations (1)	0.0	100 - 300	0.0
Public-Use Airports (75)	9.0	40 - 100	630.0

Water	# FED Gen Req	Range (kW)	Req kW
Water Treatment Facilities (0)	0.0	800 - 2000	0.0
Wastewater Treatment Plants (11)	4.4	800 - 2000	6,160.0

Report Generated by SimSuite  
<https://go.usa.gov/xGzb7>