



US Army Corps  
of Engineers®  
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# Hurricane Delta Adv. #13

For Planning Purposes Only!

WASHINGTON, DC  
17:27:00  
07 Oct 2020

CHICAGO  
16:27:00  
07 Oct 2020

LOS ANGELES  
14:27:00  
07 Oct 2020

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

Updated as of 7 Oct 2020 (5:27 PM Eastern Daylight Time)



**Debris**

2,517,580  
cu. yd.

Louisiana 100% (2,517,580)

Arkansas <1% (0)

Mississippi <1% (0)

Texas <1% (0)



**Temporary Roofing**

3,539  
units

Louisiana 100% (3,539)

Arkansas <1% (0)

Mississippi <1% (0)

Texas <1% (0)



**Population**

4,157,237  
people

Louisiana 66% (2,741,104)

Mississippi 19% (788,102)

Texas 15% (615,706)

Arkansas <1% (12,325)



**Households**

1,451,147  
households

Louisiana 65% (946,778)

Mississippi 19% (279,189)

Texas 15% (219,975)

Arkansas <1% (5,205)

# Critical Infrastructure Summary

## Total

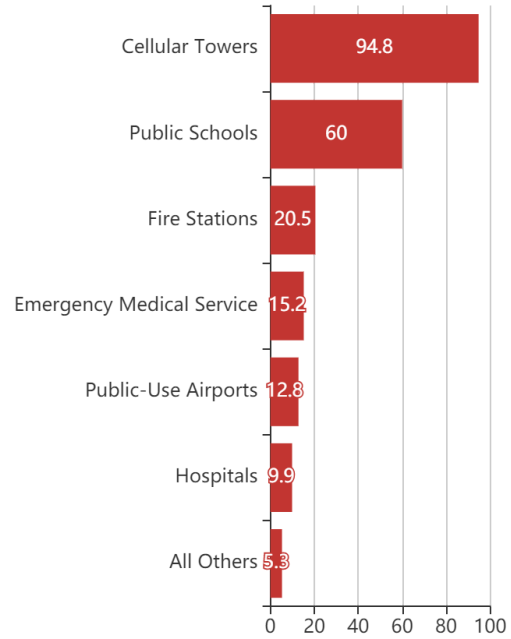


## Power Requirements



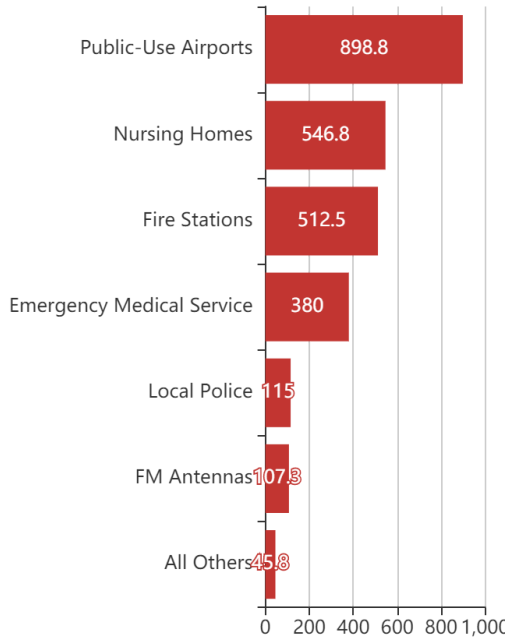
## Generators

By Generator Count



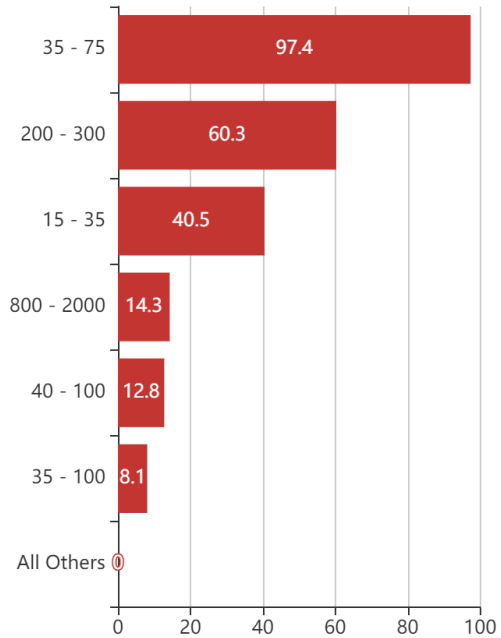
## Generators

By Power Requirement



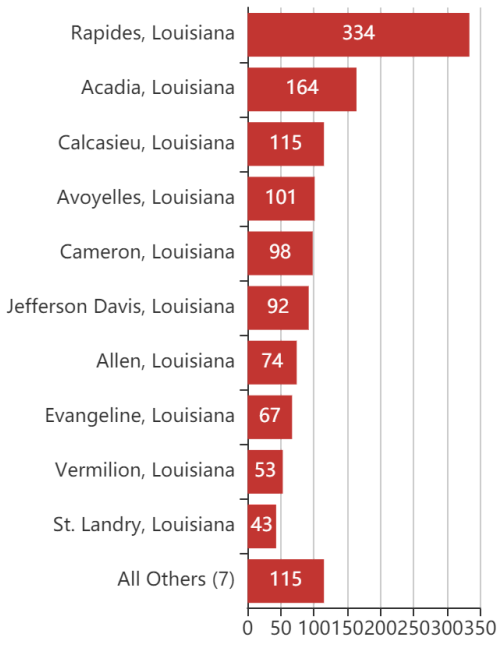
## Generators

By Range



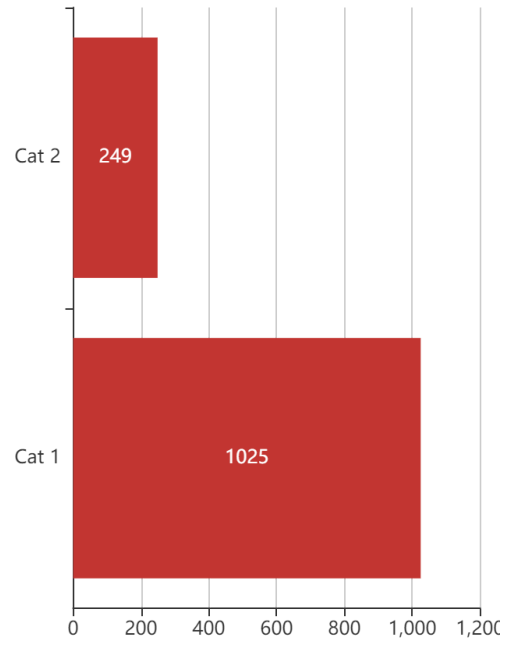
## Structures

By County



## Structures

By Intensity





# Key Messages for Hurricane Delta

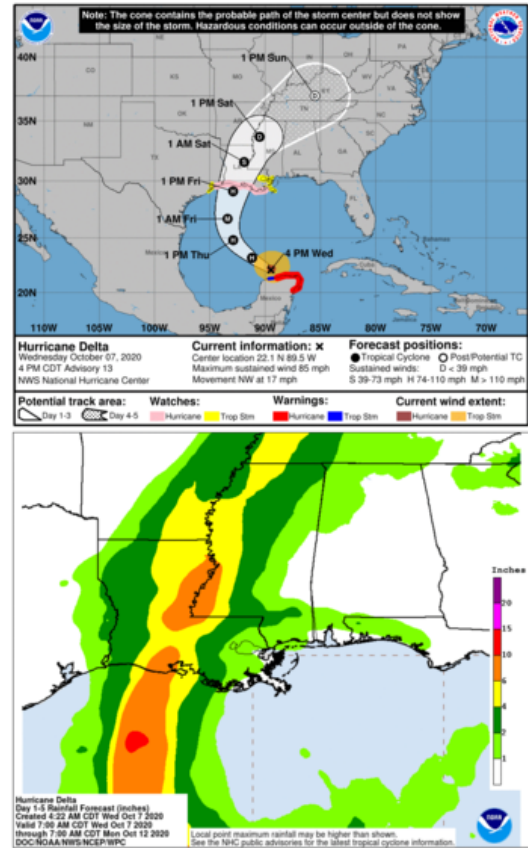
## Advisory 13: 4:00 PM CDT Wed Oct 07, 2020



1. Winds and water levels along the northern coast of the Yucatan Peninsula will gradually subside this evening. Heavy rainfall, which could lead to significant flash flooding, will affect the northern Yucatan Peninsula through early Thursday.

2. Delta is expected to grow in size as it approaches the northern Gulf Coast, where life-threatening storm surge and dangerous hurricane-force winds are likely beginning Friday, particularly for portions of the Louisiana coast. Storm Surge and Hurricane Watches are in effect, and residents in these areas should follow advice given by local officials.

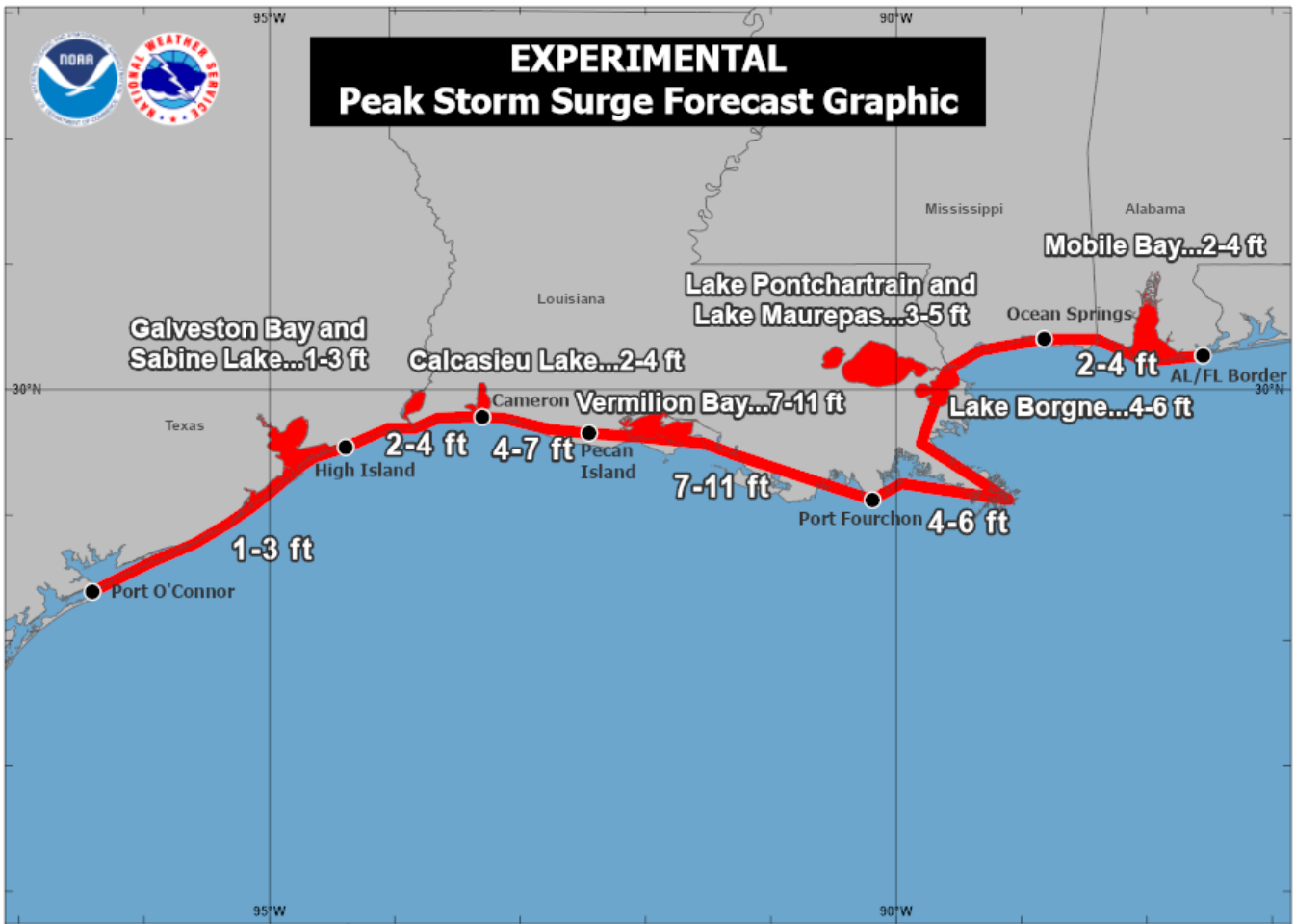
3. Flash, urban, small stream and minor to isolated moderate river flooding is likely Friday and Saturday from portions of the central Gulf Coast into portions of the Lower to Middle Mississippi Valley. As Delta moves farther inland, additional heavy rainfall is expected in the Ohio Valley and Mid Atlantic this weekend.



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



# EXPERIMENTAL Peak Storm Surge Forecast Graphic

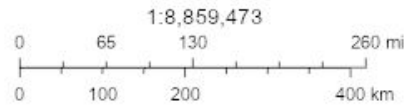


**Hurricane Delta**  
**Wednesday October 07, 2020**  
**04 PM CDT Advisory 13**  
**NWS National Hurricane Center**

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.



- Counties
- Mission Model Swaths
  - TS
  - Cat 1
  - Cat 2
- 120-hr Forecast Track Line






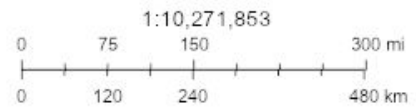
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community, NOAA/NOS/OCs nowCOAST, NOAA/NWS/NHC, NOAA/NWS/CPHC

# Debris



## Debris

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




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

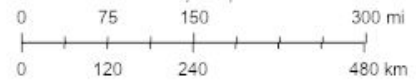
# Temporary Roofing



Temporary Roofing

 < 2,000 units

1:10,271,853

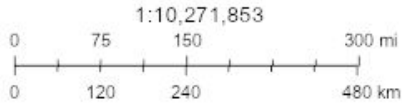
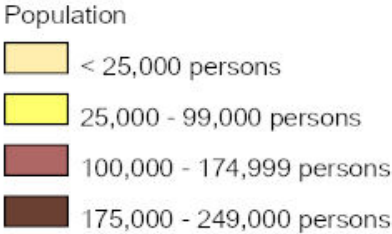
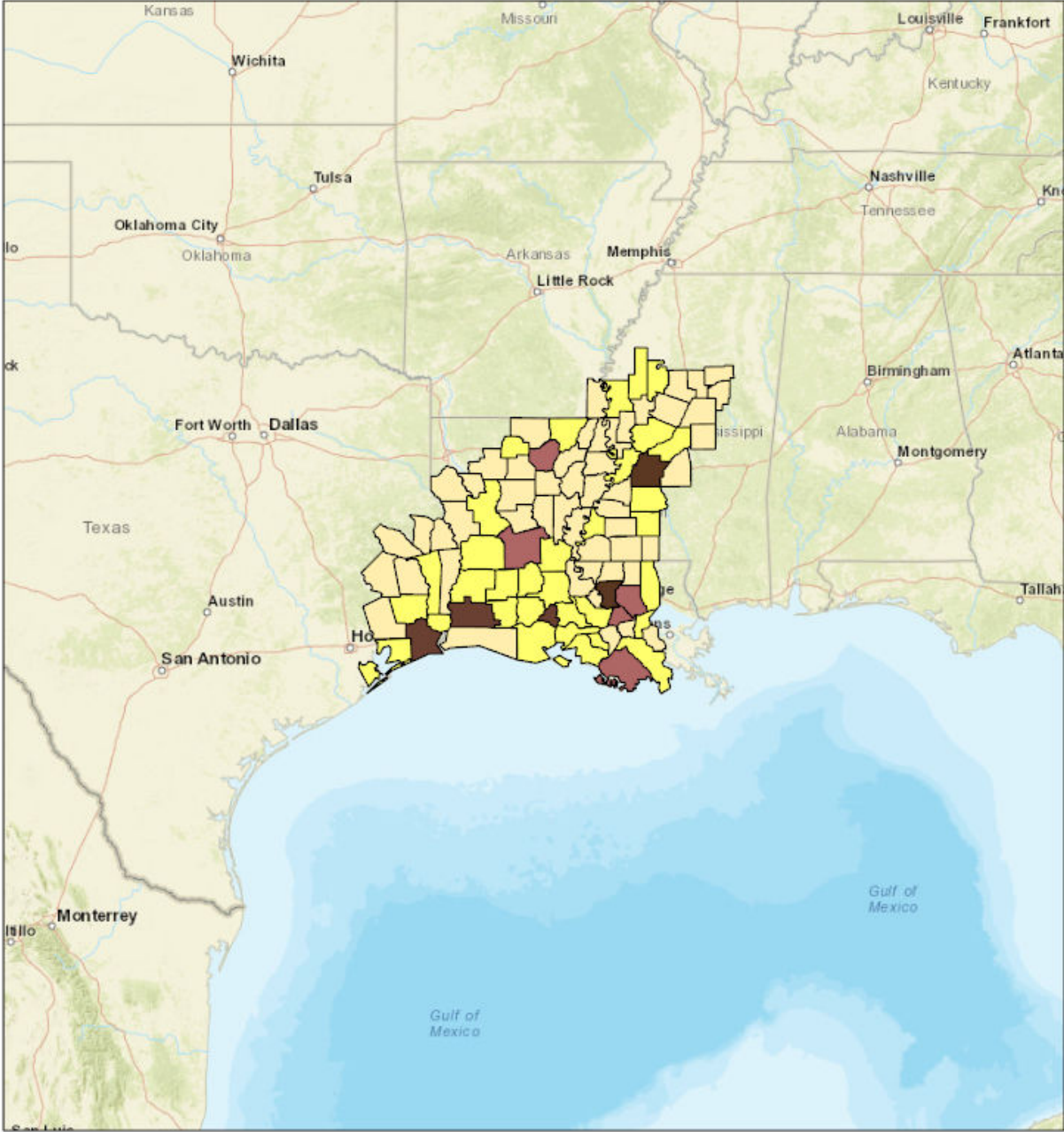


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Created by SimSuite



# Population

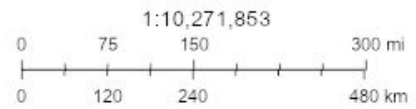


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# Households



## 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

## 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	95
Debris (cu. yd.)	2,517,580
Temporary Roofing (units)	3,539
Population	4,157,237
Households	1,451,147

Population Distribution	
Tropical Storm	3,705,369
Category 1	333,556
Category 2	118,353

ARKANSAS	Yards of Debris (0)	Roof Units (0)	Population (12,325)	Households (5,205)
Chicot	0	0	12,325	5,205

LOUISIANA	Yards of Debris (2,517,580)	Roof Units (3,539)	Population (2,741,104)	Households (946,778)
Acadia	492,475	615	60,985	21,141
Allen	110,649	153	25,819	8,102
Ascension	0	0	107,959	26,691
Assumption	0	0	23,119	8,239
Avoyelles	78,546	135	42,426	14,738
Beauregard	13	0	35,093	12,104
Bienville	0	0	14,864	6,108
Calcasieu	225,241	354	187,669	68,629
Caldwell	11,776	20	10,333	3,941
Cameron	60,725	74	7,340	3,592
Catahoula	29,194	50	10,656	4,082
Concordia	1,320	2	19,307	7,521
De Soto	0	0	1,130	413
East Baton Rouge	0	0	430,746	156,365
East Carroll	0	0	8,196	2,969
East Feliciana	0	0	20,723	6,699
Evangeline	319,090	391	36,011	12,736
Franklin	24,135	41	19,999	7,754
Grant	13,792	24	21,737	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	311,303	374	31,374	11,480
La Salle	44,182	76	14,164	5,291
Lafayette	69,066	119	210,850	72,372
Lafourche	0	0	37,693	12,882
Lincoln	0	0	42,709	15,235
Livingston	0	0	125,599	32,630
Madison	0	0	12,171	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	375,329	615	133,482	47,116
Red River	0	0	4,788	1,766
Richland	861	1	20,657	7,490
Sabine	0	0	23,657	9,221
St. Charles	0	0	8,247	2,568
St. Helena	0	0	10,363	3,873
St. James	0	0	21,505	6,992
St. John the Baptist	0	0	47,737	14,283
St. Landry	115,011	181	93,347	32,324
St. Martin	0	0	52,518	17,164
St. Mary	0	0	50,953	19,318
Tangipahoa	0	0	42,419	12,947
Tensas	0	0	5,558	2,416
Terrebonne	0	0	110,329	35,997
Union	0	0	22,631	8,857
Vermilion	234,518	313	56,869	19,833
Vernon	357	1	45,284	18,261
West Baton Rouge	0	0	23,162	7,663
West Carroll	0	0	11,456	4,458
West Feliciana	0	0	15,317	3,645
Winn	0	0	15,431	5,930

<b>MISSISSIPPI</b>	<b>Yards of Debris (0)</b>	<b>Roof Units (0)</b>	<b>Population (788,102)</b>	<b>Households (279,189)</b>
Adams	0	0	31,752	13,677
Amite	0	0	13,229	5,271
Attala	0	0	9,874	3,817
Carroll	0	0	10,609	4,071
Choctaw	0	0	235	94
Claiborne	0	0	11,121	3,685
Copiah	0	0	29,673	10,142
Franklin	0	0	8,292	3,211
Hinds	0	0	250,044	91,030
Holmes	0	0	21,088	7,314
Humphreys	0	0	10,268	3,765
Issaquena	0	0	1,921	726
Jefferson	0	0	9,098	3,308
Leake	0	0	8	3
Leflore	0	0	36,041	12,956
Lincoln	0	0	34,834	12,538
Madison	0	0	97,343	27,219
Montgomery	0	0	12,106	4,690
Pike	0	0	14,497	5,335
Rankin	0	0	382	110
Sharkey	0	0	6,093	2,163
Sunflower	0	0	31,694	9,637
Warren	0	0	48,349	18,756
Washington	0	0	58,324	22,158
Webster	0	0	1,984	758
Wilkinson	0	0	10,128	3,578
Yazoo	0	0	29,115	9,178

<b>TEXAS</b>	<b>Yards of Debris (0)</b>	<b>Roof Units (0)</b>	<b>Population (615,706)</b>	<b>Households (219,975)</b>
Angelina	0	0	17	6
Chambers	0	0	33,630	9,139
Galveston	0	0	94,374	30,079
Hardin	0	0	52,994	17,805
Jasper	0	0	34,760	13,450
Jefferson	0	0	246,125	92,882
Liberty	0	0	22,684	6,866
Newton	0	0	14,285	5,583
Orange	0	0	84,766	31,642
Polk	0	0	208	68
Sabine	0	0	10,437	4,485
San Augustine	0	0	476	195
Tyler	0	0	20,950	7,775

## COVID-19

#	County	Cases
1	East Baton Rouge	15,332
2	Galveston	11,807
3	Lafayette	9,082
4	Calcasieu	7,954
5	Jefferson	7,669
6	Hinds	7,326
7	Ouachita	6,451
8	Tangipahoa	4,568
9	Rapides	4,348
10	Livingston	3,870
11	Ascension	3,826
12	Lafourche	3,725
13	Terrebonne	3,688
14	Rankin	3,491
15	Madison	3,441
16	St. Landry	3,403
17	Acadia	3,000
18	Iberia	2,998
19	Washington	2,338
20	Liberty	2,259
21	Angelina	2,205
22	St. Martin	2,124
23	Vermilion	2,060
24	Orange	2,008
25	St. Mary	1,956
26	Bolivar	1,912
27	St. Charles	1,849
28	East Feliciana	1,751
29	Allen	1,706
30	St. John the Baptist	1,599
31	Avoyelles	1,592
32	Panola	1,558
33	Sunflower	1,518
34	Leflore	1,470
35	Lincoln	1,448
36	Warren	1,438
37	Iberville	1,419
38	Chambers	1,377
39	Hardin	1,355

40	Evangeline	1,353
41	Jefferson Davis	1,279
42	Pike	1,277
43	Copiah	1,254
44	Natchitoches	1,233
45	Franklin	1,233
46	Coahoma	1,195
47	Lincoln	1,172
48	Grenada	1,131
49	Holmes	1,113
50	Yazoo	1,086
51	Vernon	1,081
52	Pointe Coupee	1,073
53	Beauregard	1,024
54	Chicot	1,014
55	Union	1,011
56	Leake	985
57	Adams	973
58	Union	948
59	De Soto	929
60	West Baton Rouge	920
61	Sabine	899
62	Madison	888
63	Polk	876
64	Morehouse	829
65	St. James	812
66	Richland	800
67	Tallahatchie	792
68	Assumption	772
69	West Feliciana	740
70	Attala	695
71	Jackson	688
72	Winn	643
73	Calhoun	553
74	East Carroll	549
75	Concordia	524
76	Bienville	507
77	Grant	502
78	Montgomery	497
79	Jasper	495
80	Claiborne	489
81	Yalobusha	454
82	Ashley	452
83	Catahoula	443



84	LaSalle	438
85	St. Helena	422
86	Quitman	402
87	Humphreys	382
88	Drew	366
89	Red River	365
90	Amite	360
91	West Carroll	352
92	Webster	351
93	Carroll	333
94	Desha	326
95	Wilkinson	312
96	Caldwell	309
97	Sharkey	268
98	Jefferson	246
99	Tyler	236
100	Cameron	228
101	San Augustine	207
102	Franklin	206
103	Choctaw	193
104	Newton	187
105	Tensas	163
106	Issaquena	106
107	Sabine	82

## Critical Infrastructure

Summary			
Total Critical Facilities		1,274	
Power Requirements (kW)		46,093.5	
Range (kW)			
Communications	# FED Gen Req	Range (kW)	Req kW
AM Antennas (11)	0.6	35 - 75	30.3
Cellular Towers (158)	94.8	35 - 75	5,214.0
FM Antennas (39)	2.0	35 - 75	107.3
Education	# FED Gen Req	Range (kW)	Req kW
Private Schools (35)	0.0	200 - 300	0.0
Public Schools (200)	60.0	200 - 300	15,000.0
Colleges and Universities (16)	0.3	200 - 300	80.0
Emergency Services	# FED Gen Req	Range (kW)	Req kW
911 Call Centers (0)	0.0	15 - 35	0.0
Emergency Medical Service (152)	15.2	15 - 35	380.0
Fire Stations (205)	20.5	15 - 35	512.5
Service Providers (0)	0.0	0 - 0	0.0
Healthcare	# FED Gen Req	Range (kW)	Req kW
Nursing Homes (54)	8.1	35 - 100	546.8
Hospitals (33)	9.9	800 - 2000	13,860.0
Urgent Care Facilities (0)	0.0	200 - 300	0.0
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 (18)	0.0	15 - 35	0.0
National Security Government Military Facilities (56)	0.0	15 - 35	0.0
Law Enforcement	# FED Gen Req	Range (kW)	Req kW
Prison Points (31)	6.2	400 - 600	3,100.0
Local Police (46)	4.6	15 - 35	115.0
State Police (3)	0.2	15 - 35	3.8
Correctional Facilities (0)	0.0	400 - 600	0.0
State and Local EOC	# FED Gen Req	Range (kW)	Req kW
Local Emergency Operations Centers (10)	2.0	15 - 40	55.0
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 (75)	0.0	600 - 1200	0.0
Amtrak Stations (0)	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 (0)	0.0	100 - 300	0.0
Public-Use Airports (107)	12.8	40 - 100	898.8

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

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