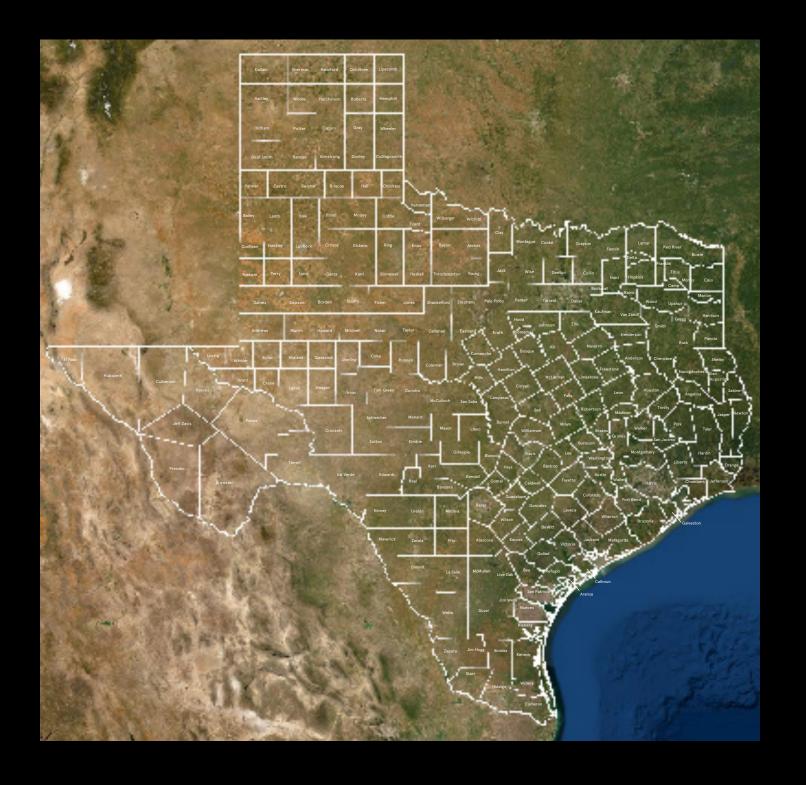
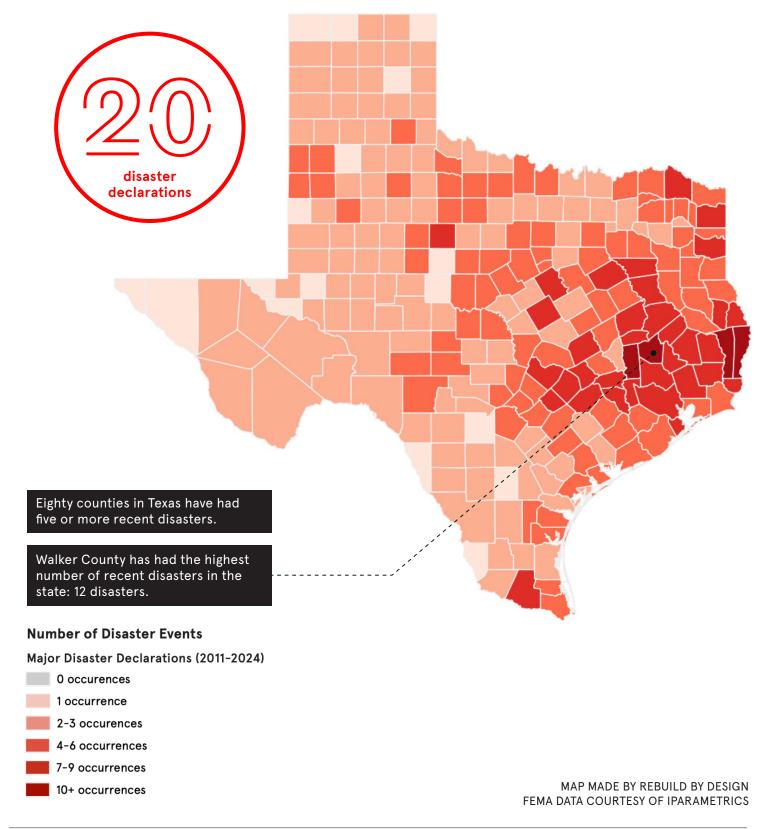
TEXAS



TEXAS STATISTICS SUMMARY (2011 - 2024)									
19	CLIMATE DISASTER DECLARATIONS								
\$15.5 BILLION	FEMA + HUD POST-DISASTER FUNDING								
29.2 MILLION PEOPLE	POPULATION TOTAL								
\$530	PER CAPITA SPENDING ON CLIMATE DISASTERS								
WALKER (12 DISASTERS)	COUNTY WITH THE HIGHEST DISASTER OCCURRENCES								
80	COUNTIES HAVE HAD FIVE OR MORE DISASTERS								
19.7 MILLION PEOPLE	LIVE IN AREAS WITH VERY HIGH SOCIAL VULNERABILITY (SVI > 0.75)								
9.7 HOURS	TOTAL OUTAGE DURATION (HOURS PER CUSTOMER PER YEAR)								
C (2025)	ASCE INFRASTRUCTURE REPORT CARD GRADE								
70	SUPERFUND SITES								
\$26.6 BILLION	CLIMATE INFRASTRUCTURE SUPPORTED THROUGH SMALL INSURANCE SURCHARGE								
\$517	PER CAPITA SPENDING ON CLIMATE DISASTERS								
\$26.6 BILLION	OF CLIMATE INFRASTRUCTURE COULD BE SUPPORTED THROUGH A SMALL INSURANCE SURCHARGE								

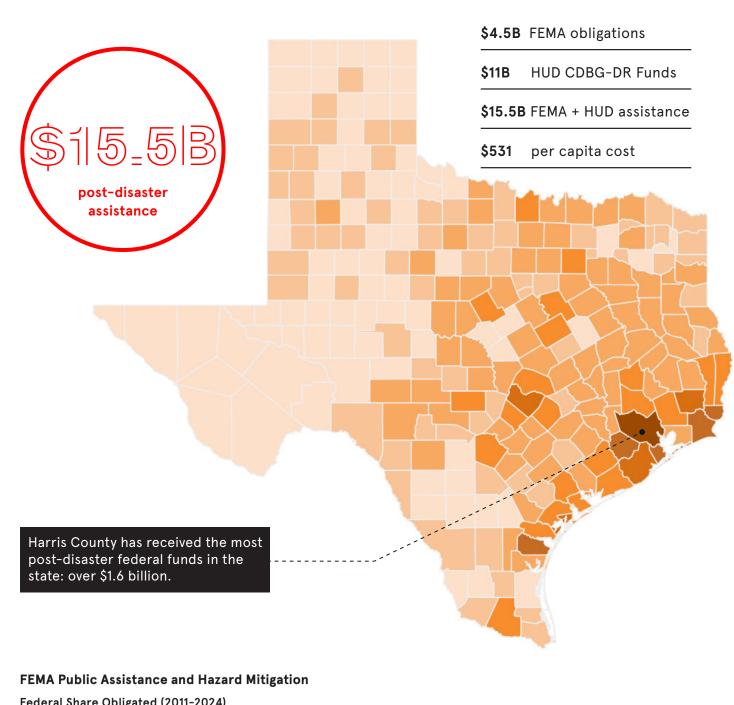
DISASTER OCCURRENCES 2011–2024

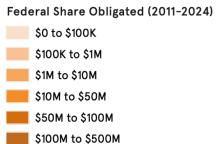
FEDERALLY DECLARED CLIMATE DISASTERS BY COUNTY



FEDERAL ASSISTANCE 2011-2024

POST-DISASTER PUBLIC ASSISTANCE AND HAZARD MITIGATION FUNDS OBLIGATED BY COUNTY FOR CLIMATE DISASTERS



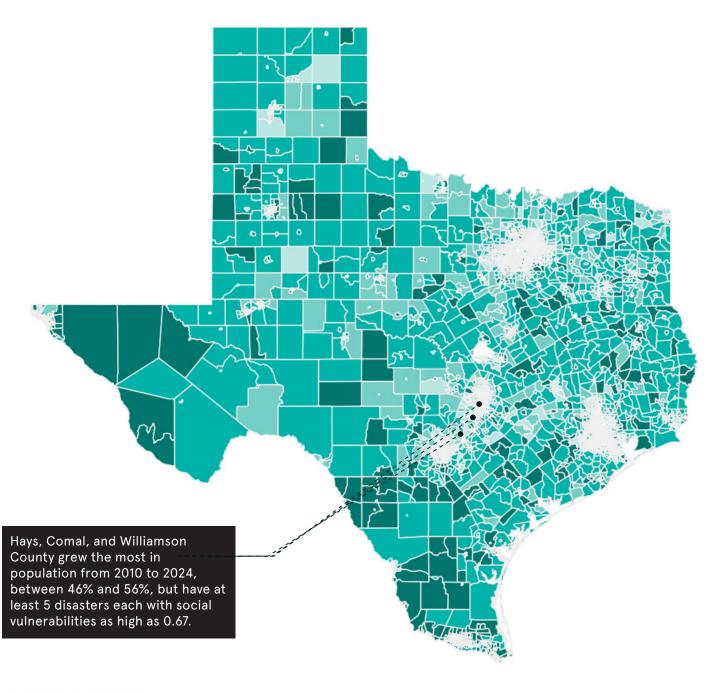


MAP MADE BY REBUILD BY DESIGN FEMA DATA COURTESY OF IPARAMETRICS

66 267

SOCIAL VULNERABILITY INDEX 2022

AREAS OF GREATEST SOCIAL VULNERABILITY



Social Vulnerability Index

CDC (2022)

No Value

0.0 - 0.2

0.2 - 0.4

0.4 - 0.6

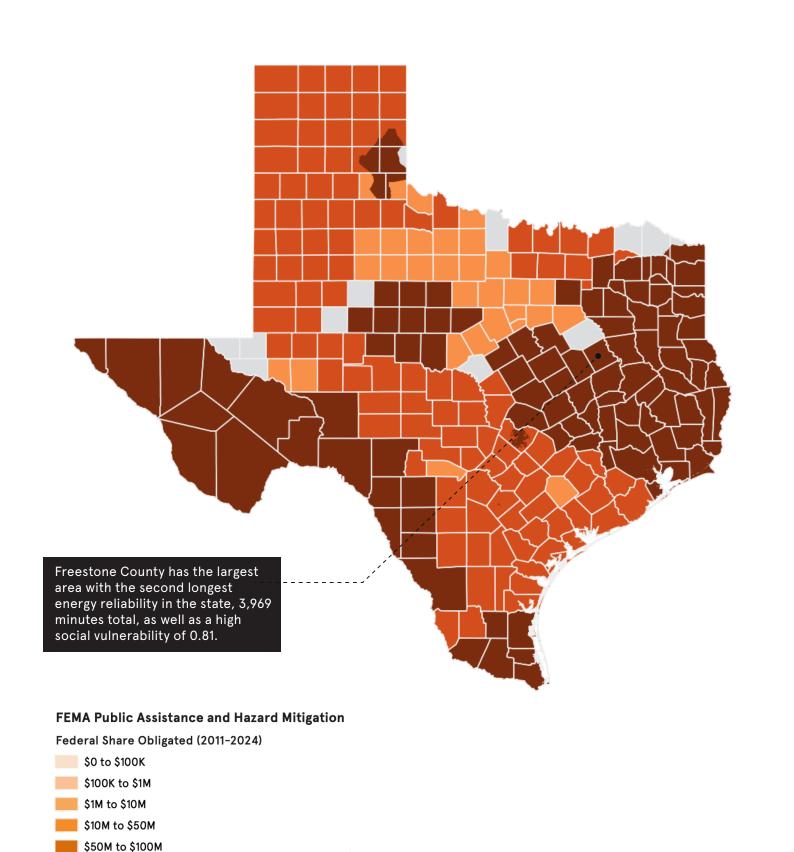
0.6 - 0.8

0.8 - 1.0

MAP MADE BY REBUILD BY DESIGN DATA SOURCE: CDC/ATSDR 2022 SVI

ENERGY RELIABILITY 2023

COUNTIES AT GREATEST RISK OF POWER OUTAGES



MAP MADE BY REBUILD BY DESIGN

SOURCE: U.S. ENERGY INFORMATION ADMINISTRATION 2023

.

\$100M to \$500M

OTAL: 20 DISASTERS EMA PA + HM: \$4.5 B UD CDBG-DR: \$11.0 B EMA + HUD ASSISTANCE: \$15.5 B OUNTY NAME # OF DISASTERS FEM.	MA TOTAL PA OF	Total HM Obligations	1999: WILDFIRES PA Obligations HM Obligations	2011 4029: WILDFIRES 4159: SEVERE STORMS AND FL PA Obligations HM Obligations PA Obligations HM Obligations	2015 LOODING 4223: SEVERE STORMS, TORNADOES, STRAIGHT-LINE WINDS AND FLOODING STRAIGHT-LINE WINDS, AND FLOODING STRAIGHT-LINE WINDS STRAIGHT-		2016 STORMS, TORNADOES, FLOODING HM Obligations PA Obligations HM Obligations PA	2017 2: SEVERE STORMS AND FLOODING 4332: HURRICANE HARVEY Obligations PA Obligations HM Obligations	2018 2019 4377: SEVERE STORMS AND FLOODING 4416: SEVERE STORMS AND FLOODING 4454: SEVERE STORMS AND FLOODING 4466: TRO PA Obligations HM Obligations PA O		2021 6: SEVERE WINTER STORMS	2023 4781: SEVERE STORMS, STRAIGHT-LINE WINDS, TORNADOES, AND FLOODING 4798: HURRICANE BERYL FA Obligations HM Obligations PA Obligations PA Obligations PA Obligations PA Obligations
3000: Statewide 16 \$1,1 3001: Anderson County 8 \$1,2	,116,072,172.53 \$1,065 ,242,027.59 \$1	\$50,674,659. 242,027.59 \$0. 134,031.87 \$0.	.82 \$48,430,425.66 \$734,285.25 .00 \$34,689.19 \$0.00 .00 \$134,031.87 \$0.00	00 \$129,702.11 \$0.00	\$0.00 \$29,322,595.52 \$2,267,280.22 \$9,525,064.80 \$397,269	9.00 \$7,557,302.63 \$192,391.00 \$5,792,412. \$19,016.	.24 \$326,342.00 \$6,145,970.77 \$821,454.00	\$11,254,193.90 \$661,354.78 \$795,713,675.17 \$39,212,828.67			\$3,196,5 \$0.00 \$0.00	
3 \$91, 3009: Archer County 4 \$1,5	1,764,187.93 \$78 ,550,592.25 \$1	661,140.62 \$107,393. 681,631.69 \$13,082,556. 355,292.25 \$195,300.	.00 \$80,895.11 \$0.00		\$1,164,567.72 \$63,375.00 \$664,716.10 \$0.00	\$434,345.	.97 \$44,018.85	\$78,493,479.61 \$13,082,556.24	\$229,158.95 \$195,300.00		\$62,226.93 \$106,693.51 \$380,522.09	\$0.00 \$0.00
3013: Atascosa County 2 \$308 3015: Austin County 7 \$2,77	08,820.74 ,728,489.59 \$2	\$19,577.59 \$0. \$40,916.16 \$267,904. 728,489.59 \$0.	.58		\$0.00 \$267,904.58 \$422,354.62 \$0.00		\$827,502.00 \$0.00	\$234,451.68 \$0.00 \$992,425.98 \$0.00			\$0.00 \$40,916.16 \$25,081.75	\$0.00 \$0.00 \$0.00 \$219,493.59 \$0.00 \$7,179.97 \$0.00
8019: Bandera County 2 \$237 8021: Bastrop County 9 \$31,	37,908.11 \$1,740,741.23 \$21	536,415.26 \$0. 237,908.11 \$0. 985,663.64 \$9,755,077. 808.104.29 \$157.500.	.00 .59 \$0.00 \$3,101,894.65	\$13,472,050.78 \$188,388.75	\$1,568,800.41 \$1,827,008.83 \$461,554.85 \$1,818,805 \$100,601.31 \$0.00	\$465,602.98 \$0.00 5.43	\$545,365.50 \$0.00	\$237,908.11 \$0.00 \$2,379,714.50 \$2,564,973.60 \$3,173,372.45 \$20,970.00	\$677,641.36 \$157,500.00		\$0.00 \$0.00 \$113,575.99 \$0.00	\$0.00 \$66,910.98 \$0.00 \$0.00 \$271,229.16 \$233,036.33 \$0.00 \$18,996.56 \$0.00
8025: Bee County 2 \$1,18 8027: Bell County 3 \$3,0	,150,610.07 \$3 ,003,727.13 \$3	966,857.07 \$183,753. 903,727.13 \$0. 933,637.45 \$0.	i.00		\$39,178.10	0.00		\$951,677.85 \$183,753.00 \$0.00 \$0.00		\$1	\$15,179.22 ,041,040.68	\$0.00 \$0.00 \$0.00 \$123,323.02 \$0.00 \$0.00 \$0.00 \$0.00
3031: Blanco County 5 \$646 3033: Borden County 2 \$0.00	.00 46,946.88 5	\$0.00 \$0.097,467.40 \$0.	.00	\$107,064.48 \$0.00	\$641,178.63 \$0.00 \$237,915.10 \$0.00 \$309,763.05 \$0	\$0.00	\$76,093.77 \$0.00	\$366,631.00 \$0.00			\$0.00 \$0.00 \$0.00	\$0.00 \$5,768.25 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3039: Brazoria County 6 \$65,	5,701,033.73 \$33	921,563.72 \$0. 822,410.00 \$31,878,623. 644,485.34 \$0.	.73	\$75,441.06 \$0.00	\$781,196.08 \$0.00 \$265,318.95 \$0.00 \$0.00	0.00		\$1,582,398.25 \$0.00 \$29,111,926.34 \$30,880,163.73 \$901,986.92 \$0.00			\$0.00 \$982,951.01 \$998,4 \$742,498.42	\$0.00 \$64,926.58 \$0.00 \$0.00 \$0.00 460.00 \$1,879,815.45 \$0.00 \$0.00 \$0.00 \$0.00
3 \$51, 3047: Brooks County 2 \$103	1,474.93 03,317.88	\$51,474.93 \$0. 103,317.88 \$0.	.00 \$79,593.90 \$0.00	\$24,719.90 \$0.00 00							\$12,017.73 \$0.00 \$23,723.98	\$0.00 \$0.00 \$0.00
8051: Burleson County 6 \$1,12 8053: Burnet County 4 \$4,7	,120,482.11 \$1 ,774,977.56	\$0. \$120,482.11 \$0. \$120,482.11 \$0. \$3,975,667. \$35,715.32 \$85,096.	.00 .45 \$0.00 \$0.00		\$839,624.89 \$0.00 \$432,299.98 \$0.00 \$0.00 \$295,916.67 \$0.00 \$295,323.30 \$0	2.00		\$4,700,906.53 \$0.00 \$522,083.95 \$0.00 \$166,098.18 \$0.00 \$369,831.80 \$85,096.72 \$1,398,880.67 \$0.00	\$682,005.52 \$3,975,667.45			\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3057: Calhoun County 4 \$19, 3059: Callahan County 6 \$5,3	9,746,226.55 \$18 ,343,100.39 \$4	641,276.54 \$1,104,950. 033,564.61 \$1,309,535. 124,505.41 \$502,116.	.01 5.78 \$77,274.03 \$0.00		\$0.00 \$295,916.67 \$0.00 \$295,323.30 \$0.00		\$0.00	\$369,831.80 \$85,096.72 \$1,398,880.67 \$0.00 \$18,614,001.19 \$1,104,950.01 \$2,204,222.35 \$0.00			\$27,275.35 \$8,909.62 \$98,068.09	\$0.00 \$0.00
3 \$12,3 8065: Carson County 2 \$34,9	2,308.14 4,948.25	\$12,308.14 \$0. \$34,948.25 \$0. 694,129.05 \$126,967.	0.00 \$34,948.25 \$0.00		\$192,212.90 \$67,200.00	\$34,797.70 \$59,767.94 \$262,176.	.73 \$0.00 \$95,035.96 \$0.00		φοιού φεσι, ττι. ευ 		\$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3 \$324 3071: Chambers County 4 \$4,3	24,886.77 \$4 ,347,855.67 \$4	\$0. 324,886.77 \$0. 347,855.67 \$0. 937,768.99 \$189,900.	\$8,163.99 \$0.00 .00		\$902,267.88 \$0.00	\$316,722.78 \$0.00	\$535,714.71 \$0.00	\$3,973,002.61 \$0.00			\$0.00 \$367,344.72 \$365,086.00 \$189,\$	\$0.00 \$0.00 \$7,508.34 \$0.00
3 \$33,0075 30775 Childress County 5 \$315 3079 Cochran County 4 \$68,000	15,345.20	\$33,501.61 \$0. 315,345.20 \$0. \$68,040.06 \$0.	\$14,043.52 \$0.00 \$0.00 \$82,651.02 \$0.00 \$0.00 \$13,807.50 \$0.00	\$40,176.72 \$0.00	\$192,517.46 \$0.00	\$19,458.09 \$0.00 \$54,232.56 \$0.00					\$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00
3 \$671 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	,514,473.60 \$1 71,622.90	\$0.00 \$0. 397,111.87 \$117,361. 671,622.90 \$0.	.73 \$34,991.68 \$0.00		\$34,805.98 \$0.00			\$1,311,869.09 \$0.00			\$0.00 \$50,251.10 \$636,816.92	\$0.00 \$0.00 \$0.00 361.73 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
8089: Colorado County 6 \$4,00 8091: Comal County 5 \$2,20	,040,020.34 \$4 ,262,653.46 \$2	262,653.46 \$0.	0.00 0.00	\$115,092.53 \$0.00		0.00	\$1,054,001.27 \$0.00	\$2,360,539.57 \$0.00 \$336,817.18 \$0.00				\$0.00 \$0.00 \$4,558.28 \$0.00 \$0.00 \$251,551.66 \$0.00
3 \$9,88 3097: Cooke County 3 \$5,66	,891.38 ,645,712.73 \$5	\$9,891.38 \$0. \$9,891.38 \$0. 233,007.83 \$412,704. 499.645.71 \$0.			\$4,448,155.63 \$0.00 \$4,980,478.20 \$0.00 \$273,390.47 \$0.00			\$5,860,227.63	\$84,260.90 \$0.00 \$1,274,059.66 \$0.00		\$0.00 \$0.00 \$45,399.11 \$412,7	\$0.00 \$0.00 \$0.00 \$0.00 \$207,130.52 \$0.00 \$51,066.55 \$0.00
\$101: Cottle County 3 \$88,0 \$103: Crane County 2 \$18,0	8,959.04 8,682.31	\$88,959.04 \$0. \$18,682.31 \$0.		00 00 00 00 00 00 00 00 00 00 00 00 00	φ213,330.41 φ0.00	\$0.00	\$630,451.00 \$0.00		\$1,274,059.66 \$0.00		\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00
3 \$34,5	4,884.98 1,653.63		.00 \$7,620.75 \$0.00 .00 \$51,653.63 \$0.00	00		\$0.00					\$27,264.23 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00
3113: Dallas County 5 \$20,9 3115: Dawson County 2 \$12,9	2,892.10	772,371.12 \$2,164,938. \$12,892.10 \$0. 362,415.30 \$0.	\$12,892.10 \$0.00		\$6,632,148.38 \$154,738.20	\$5,558,128.15 \$398,277.18 \$309,979.16 \$0.00		\$2,849,011.52 \$149,340.00		\$2	\$1,462,5 \$0.00 \$0.00	\$1,026,744.34 \$0.00 \$0.00 \$0.00
3 \$5,63 3123: DeWitt County 4 \$2,03	,636,621.51 \$5 ,039,927.70 \$1	538,690.72 \$0. 571,855.26 \$64,766. 546,577.70 \$493,350.	.00		\$259,014.09 \$0.00 \$4,886,788.03 \$64,766.25 \$58,312.20 \$0.00	\$227,014.89 \$0.00		\$1,488,265.50 \$161,250.00			\$12,012.76 \$685,067.23 \$0.00 \$332,	\$0.00 \$40,648.98 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
8127: Dimmit County 2 \$0.00 8129: Donley County 3 \$811	.00 11,367.03	\$0.00 \$0. \$53,929.73 \$757,437. \$70,354.54 \$0.	.00 .30 \$53,929.73 \$0.00	00	\$72,414.49 \$0.00 \$344,386.36 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00			\$0.00 \$0.00 \$0.00		\$38,922.92 \$0.00 \$0.00 \$4,119.98	\$0.00 \$0.00 437.30 \$0.00
3133: Eastland County 5 \$9,72 3135: Ector County 1 \$29,62	,728,881.80 \$6 9,091.84	\$0. \$2,910,917. \$0. \$2,9091.84 \$0. \$262,239.14	7.60 \$45,322.23 \$0.00 0.00		\$2,475,006.83 \$2,687,079.79 \$90,302.00 \$0.00			\$4,176,733.00 \$223,837.81	\$1,171,937.14 \$0.00		\$4,119.98 \$20,280.88 \$29,091.84 \$0.00	\$0.00 \$100,621.26 \$0.00 \$0.00 \$0.00
3139: Ellis County 4 \$1,43 3141: El Paso County 1 \$0.00 3143: Erath County 5 \$3,55	,434,052.43 \$1 .00 \$3	\$0.00 \$0.477,736.79 \$75,179.	0.00 0.00 0.55 \$91,950.34 \$0.00		\$732,604.94 \$0.00 \$546,504.97 \$0.00	\$380,654.54 \$0.00 \$1,155,756.	.61 \$0.00	\$1,588,036.50 \$0.00			\$320,792.95 \$0.00 \$95,488.37 \$75,7	\$0.00 \$0.00 \$0.00 179.55
3145: Falls County 4 \$586 3147: Fannin County 4 \$1,9° 3149: Fayette County 7 \$3,9°	86,377.76 \$,971,061.51 \$,952,720.12 \$3	\$0. \$1,027,014. \$283,028.55 \$669,691.		\$0.00	\$653,997.04 \$1,008,264.61 \$262,651.48 \$236,119.35		\$155,256.96 \$0.00	\$580,236.82 \$0.00 \$310,646.22 \$84,042.26 \$2,533,924.21 \$349,529.96	\$232,191.50 \$18,750.00		\$6,140.94 \$9,000.00 \$20,549.68	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3151: Fisher County 4 \$390 3153: Floyd County 3 \$335 3155: Foard County 4 \$30,4	35,528.90		0.00 \$17,357.72 \$0.00		\$0.00	\$0.00 \$0.00 \$228,639.85 \$0.00 \$0.00 \$0.00	0054.004.00	\$332,493.16 \$0.00 \$106,889.05 \$0.00 \$2,668,808.01 \$486,143.26 \$47,461,863.23 \$38,870,714.90			\$0.00 \$0.00 \$0.00 \$257,627,00 \$1,688,4	\$0.00 \$0.00 \$0.00
8159: Franklin County 6 \$745 8161: Freestone County 4 \$1,10	45,124.60 \$	273,260.40 \$45,005,912. 745,124.60 \$0. 454,522.60 \$654,588. \$12,766.27 \$0.	\$50,212.90 \$0.00 \$.00	\$426,654.03	\$0.00 \$533,287.47 \$0.00 \$12,766.27 \$0.00	\$556,567.41 \$0.00	\$254,921.23 \$3,427,366.51	\$2,668,808.01 \$486,143.26 \$47,461,863.23 \$38,870,714.90	\$128,787.79 \$0.00		,257,627.00 \$1,688,4 \$0.00 \$24,718.57 \$654,5 \$0.00	\$0.00 \$0.00
3165: Gaines County 2 \$109 3167: Galveston County 8 \$168	09,286.15 \$156 68,937,678.36 \$156	109,286.15 \$0. 759,100.89 \$12,178,577.	.00		\$109,286.15 \$0.00 \$8,169.93 \$0.00 \$0.00 \$147,382.38 \$0.00	0.00	\$19,053.17 \$0.00	\$65,502.59 \$0.00 \$149,556,457.10 \$10,968,789.01			\$0.00 \$,217,539.48 \$113,	\$0.00 \$0.00 130.00 \$0.00
3171: Gillespie County 3 \$10, 3173: Glasscock County 2 \$11, 3175: Goliad County 3 \$493	0,125,660.06 \$10 1,427.09 93,424.84	125,660.06 \$0. \$11,427.09 \$0. 294,542.80 \$198,882.	0.00 \$11,427.09 \$0.00 0.04	00	\$64,544.03 \$0.00			\$278,563.07 \$0.00		\$9	\$0.00 \$15,979.73 \$198,8	\$0.00 \$905,982.80 \$0.00 \$0.00 \$82.04 \$0.00 \$0.00
3177: Gonzales County 5 \$2,83 3179: Gray County 1 \$0.00 3181: Grayson County 3 \$3,00	,824,923.77 \$2 .00 ,045,205.39 \$1	\$386,422. \$0.00 \$95,590.12 \$386,422. \$0.895,590.12	\$14,580.31 \$0.00 \$.27	\$57,777.24 \$1,028,602.77	\$131,498.94 \$25,357.50 \$1,775,232.00 \$121,012.50		30	\$1,246,460.52 \$361,064.96			\$836,718.66 \$0.00 \$62,580.88	\$0.00 \$0.00 \$0.00
3183: Gregg County 5 \$2,69 3185: Grimes County 10 \$2,40 3187: Guadalupe County 5 \$1,00	,462,608.84 \$2 ,002,535.38 \$1	\$973,792. 355,733.84 \$106,875. 002,535.38 \$0. \$0.00 \$0.	\$0.00 \$71,753.12 \$0.00 \$0.00	\$227,108.46 \$0.00 00 \$0.00 \$0.00	\$538,579.14 \$0.00 \$0.00 \$0.00 \$113,205.60 \$0	0.00		\$530,591.55 \$0.00 \$608,576.46 \$106,875.00 \$681,988.13 \$0.00			\$76,030.38 \$973,7 \$131,000.00 \$207,341.65 \$0.00	792.80 \$0.00 <t< td=""></t<>
8189: Hale County 1 \$0.00 8191: Hall County 6 \$941 8193: Hamilton County 2 \$0.00 8195: Hansford County 2 \$0.00	41,883.23 \$.00 \$23,653.00 \$0.00		\$218,478.95 \$0.00	\$0.00		\$679,765.28 \$0.00			\$0.00 \$0.00 \$0.00 \$0.00	\$0.00
3 \$33,0 3199: Hardin County 9 \$61,0 3201: Harris County 9 \$1,6	3,696.56 1,120,316.87 ,611,303,016.27 \$1,359	\$0.00 \$0. \$33,696.56 \$0. 585,877.26 \$5,534,439. 785,888.38 \$251,517,127.	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	00 \$10,723.32 \$0.00	\$11,910,301.95 \$1,045,696.04 \$0.00 \$0	\$33,696.56 \$0.00 0.00	\$20,613,678.41 \$183,218.72	\$26,352.18 \$0.00 \$54,841,456.94 \$5,534,439.61 \$423,112.62 \$23,085.59 \$1,231,939,303.41 \$246,436,996.69			\$0.00 \$21,803.40 ,952,334.97 \$3,632,9	
3203: Harrison County 8 \$1,70 3205: Hartley County 3 \$72,0 3207: Haskell County 4 \$444	,768,293.74 \$1 2,807.32 44,453.23	351,638.74 \$416,655. \$72,807.32 \$0. 391,267.73 \$53,185.	\$0.00 \$62,256.45 \$0.00 \$0.00 \$53,480.87 \$0.00 \$0.50 \$0.00 \$0.00	00 00 00 00 00 00 00 00 00 00 00 00 00	\$299,401.01 \$0.00 \$19,326.45 \$0.00	\$41,071.16 \$0.00 \$435,679. \$0.00 \$0.00			\$391,267.73 \$0.00		\$8,083.32 \$416,6 \$0.00 \$0.00 \$53,7	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3211: Hemphill County 2 \$36,3 3213: Henderson County 7 \$3,4	6,565.13 ,445,357.37 \$2	686,290.64 \$3,901,989. \$36,565.13 \$0. 243,563.51 \$1,201,793.	.00 \$36,565.13 \$0.00 .86	\$999,453.32 00 \$89,468.58 \$0.00	\$0.00 \$3,602,869.33 \$60,000.00 \$3,268,163.83 \$2,615,558 \$1,295,795.53 \$0.00	\$235,351.82 \$0.00 \$109,012.					\$1,226,4 \$0.00 \$87,015.77 \$1,201,7	\$0.00 793.86 \$158,895.90 \$0.00 \$268,023.79 \$0.00
3217: Hill County 6 \$11, 3219: Hockley County 4 \$413	1,424,414.27 \$11 13,903.21 \$	\$9,824,704. 404,621.77 \$19,792. 413,903.21 \$0.	50 00 \$17,451.52 \$0.00	\$131,071.12 \$0.00		0.00 \$359,059.59 \$0.00		\$130,861.33 \$1,439,397.07	\$0.00 \$1,374,896.72 \$0.00 \$0.00 \$7,751,299.24 \$0.00		\$217,940.46 \$720,0 \$0.00 \$8,524.13	\$0.00 \$0.00 \$0.00 \$0.00 \$28,867.97 \$0.00
3223: Hopkins County 6 \$5,0° 3225: Houston County 8 \$5,7°	,014,004.66 \$4 ,777,297.83 \$5	\$0.84990.84 \$0.855,324.66 \$358,680.777,297.83 \$0.858,424.90 \$0.858	0.00 \$62,067.76 \$0.00		\$419,121.14 \$0.00 \$1,860,280.38 \$0.00 \$752,892.53 \$0.00	\$0. \$1,022,919.08 \$0.00		\$181,714.79 \$0.00 \$1,708,948.24 \$0.00	\$1,452,165.53 \$2,643,045.38 \$0.00		\$9,501.63 \$34,058.33	\$0.00 \$0.00 \$0.00 \$0.00 \$310,458.04 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3229: Hudspeth County 1 \$0.00 3231: Hunt County 2 \$52,	.00			\$52,558.53 \$0.00							\$78,767.76 \$0.00 \$0.00 \$0.00 \$105,8	\$0.00 \$0.00 840.00
3235: Irion County 2 \$22,4 3237: Jack County 3 \$667 3239: Jackson County 3 \$2,5	2,524.35 67,173.61 ,575,784.61 \$2	\$22,524.35 \$0. 667,173.61 \$0. 039,638.26 \$536,146.	\$22,524.35 \$0.00 \$0.00 \$0.00 \$0.00	00	\$667,173.61 \$0.00			\$1,933,954.12 \$249,000.00			\$0.00 \$0.00 \$83,303.48 \$287,	
3241: Jasper County 10 \$17,9 3243: Jeff Davis County 2 \$85,9 3245: Jefferson County 6 \$204	7,954,242.21 \$17 5,575.40 04,891,798.61 \$150	\$48,000. \$85,575.40 \$0. 171,236.38 \$54,720,562.	\$29,985.04 \$0.00 \$0.00 \$85,575.40 \$0.00 \$0.23	\$0.00 \$0.00	\$663,919.35 \$0.00 \$145,182.35 \$48,000	\$549,138.	.94 \$0.00	\$467,031.63 \$0.00 \$2,576,628.43 \$0.00 \$146,786,801.21 \$51,010,321.70		\$11,610,726.55 \$0.00 \$0.00 \$2,355,051.75 \$2,911,217.89 \$983,314.04	\$6,960.26 \$0.00 \$473,217.28 \$371,8	\$0.00 \$0.00 874.74 \$0.00 \$0.00 \$0.00 \$0.00
3247: Jim Hogg County 2 \$10,9 3249: Jim Wells County 4 \$2,19 3251: Johnson County 2 \$541	,141,524.79 \$1 41,089.29	\$10,988.13 \$0. 507,482.20 \$634,042. 541,089.29 \$0. 213.541.48 \$0.			\$1,338,771.55 \$0.00 \$541,089.29 \$0.00 \$1,359.843.37 \$0.00	\$265.274.79	\$4.450.004.40	\$135,235.05 \$441,000.00			\$33,475.60 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00
3255: Karnes County 2 \$128 3257: Kaufman County 4 \$2,4	28,924.14 \$2 ,458,236.08 \$2	213,541.48 \$0. 128,924.14 \$0. 393,811.08 \$64,425. 348,112.66 \$0.	0.00	\$0.00	\$1,359,843.37 \$0.00 \$1,067,671.74 \$0.00 \$280,441.83 \$0.00	\$265,274.78 \$0.00 \$656,538.48 \$64,425.00	\$1,156,694.43 \$0.00	\$128,924.14 \$0.00	\$5,403,845.36 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00
3261: Kenedy County 2 \$0.00 3263: Kent County 3 \$42,9	.00 2,962.12	\$0.00 \$0. \$42,962.12 \$0. 129,545.11 \$4,100,760.	.00 \$42,962.12 \$0.00		φ2.00	\$0.00						\$0.00 \$0.00
3267: Kimble County 5 \$3,20 3269: King County 3 \$22,30 3271: Kinney County 2 \$430	,208,151.73 \$3 2,369.88 30,976.27	208,151.73 \$0. \$22,369.88 \$0. 430,976.27 \$0.	\$0.00 \$0.00 \$0.00 \$0.00 \$22,369.88 \$0.00			\$0.00			\$3,150,203.46 \$0.00 \$417,807.76 \$0.00		\$34,122.19 \$0.00 \$13,168.51	\$0.00 \$0.00
3273: Kleberg County 4 \$1,09 3275: Knox County 4 \$190 3277: Lamar County 5 \$2,90	,099,203.63 \$90,888.21 \$9,963,342.94 \$2	954,244.23 \$144,959. 190,888.21 \$0. 743,742.94 \$219,600.	0.40 0.00 \$0.00 \$0.00 0.00 \$42,359.25 \$0.00	00	\$2,197,545.04 \$0.00	\$0.00 \$0.00 \$486,483.		\$782,324.10 \$0.00 \$100,736.06 \$0.00			\$42,074.87 \$144,9 \$0.00 \$17,354.71 \$219,6	\$59.40 \$29,109.20 \$0.00 \$0.00 \$0.00 \$0.00
3279: Lamb County 4 \$878 3281: Lampasas County 3 \$0.00 3283: La Salle County 2 \$0.00	78,677.68 .00 .00	774,793.74 \$103,883. \$0.00 \$0. \$0.00 \$0.	\$38,700.00 \$0.00 \$0.00 \$0.00	00		\$725,768.59 \$0.00					\$0.00 \$103,8 \$0.00 \$0.00	883.94 \$10,325.15 \$0.00 \$0.00 \$0.00 \$0.00
3287: Lee County 9 \$836 3289: Leon County 9 \$1,7	36,450.83 \$1,713,841.73 \$1	255,790.68 \$463,050. 449,150.83 \$387,300. 713,841.73 \$0. 811,786.81 \$4,665,302.	0.00 \$0.00 0.00 \$81,917.70 0.00 \$0.00		\$156,491.09 \$0.00 \$328,778.30 \$0.00 \$2,675,258.59 \$0.00 \$322,441.88 \$0	\$667,966.60 \$0.00	\$924,907.58 \$0.00	\$250,701.56 \$193,050.00 \$111,641.96 \$0.00 \$154,688.62 \$120,000.00 \$104,938.83 \$0.00 \$658,963.29 \$0.00 \$4,626,495.54 \$4,665,302.34			, , , , , , , , , , , , , , , , , , , ,	000.00 \$0.00 <t< td=""></t<>
3293: Limestone County 5 \$11,3 3295: Lipscomb County 1 \$0.0 3297: Live Oak County 2 \$40,4	1,260.06 .00 0,410.56	\$11,260.06 \$0. \$0.00 \$0. \$40,410.56 \$0.	0.00 0.00 0.00 \$21,744.00 \$0.00	\$0.00	φυνες, ττ 1.00 \$(.00 \$0.00	φ4,000,302.34			\$11,260.06 \$0.00 \$18,666.56	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3299: Llano County 2 \$3,03 3301: Loving County 1 \$0.00 3303: Lubbock County 3 \$2,9	,028,904.84 \$2 .00 ,977,596.06 \$2	\$188,821. \$0.00 \$12,596.06 \$188,821. \$0.00 \$0.	.55 .00 .00		\$1,071,633.76 \$465,000.00 \$1,071,633.76 \$465,000.00	\$1,133,221.98 \$0.00			\$2,708,831.99 \$188,821.55		\$131,251.30 \$0.00 \$307,740.32	\$0.00 \$0.00 \$0.00
3305: Lynn County 4 \$164 3307: McCulloch County 4 \$2,0 3309: McLennan County 2 \$2,4	64,299.97 \$,028,084.83 \$2 ,442,726.06 \$1	164,299.97 \$0. 028,084.83 \$0. 682,165.31 \$760,560.		\$0.00 \$0.00	\$138,789.57 \$0.00 \$1,002,610.69 \$760,560.75				\$2,028,084.83 \$0.00		\$4,443.81 \$0.00 \$679,554.62	\$0.00 \$10,700.65 \$0.00 \$0.00 \$0.00 \$0.00
3315: Marion County 5 \$250	,644,988.39 \$1 50,351.03	\$0.00 \$0. 570,958.48 \$74,029. 250,351.03 \$0. \$4,574.14 \$0.	.00 \$24,548.07 \$0.00		\$414,907.97 \$0.00	\$60,028. \$148,740.		\$120,201.82 \$0.00 \$193,628.05 \$0.00	\$696,380.29 \$74,029.91		\$0.00 \$29,561.83 \$0.00 \$0.00	\$0.00 \$0.00 \$56,250.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3 \$444 3321: Matagorda County 4 \$12,	44,812.94 \$9 2,597,914.72 \$9	\$4,574.14 \$0. 444,812.94 \$0. 962,330.85 \$2,635,583. 156,123.84 \$0.	\$37,764.08 \$0.00 .87					\$9,602,808.31 \$2,635,583.87	\$407,048.86 \$0.00		\$0.00 \$0.00 \$170,911.30 \$156,123.84	\$0.00 \$0.00 \$0.00 \$0.00
3325: Medina County 1 \$21,0 3327: Menard County 4 \$409 3329: Midland County 2 \$93,7	1,015.63 09,840.76 3,741.63	\$21,015.63 \$0. 409,840.76 \$0. \$14,255.07 \$79,486.	0.00 \$17,457.99 \$0.00 0.56 \$14,255.07 \$0.00						\$378,033.84 \$0.00		\$21,015.63 \$14,348.93 \$0.00 \$79,4	\$0.00 \$0.00 \$0.00 486.56
3331: Milam County 7 \$4,29 3333: Mills County 3 \$23,7 3335: Mitchell County 2 \$13,7	,283,639.99 \$3 3,231.89 3,173.60	284,820.15 \$998,819. \$23,231.89 \$0. \$13,173.60 \$0.	84 80.00 80.00 80.00 80.00 80.00 80.00	00 00 00 00 00 00 00 00 00 00 00 00 00	\$366,368.52 \$173,033.84		\$391,695.19 \$0.00	\$2,120,684.25 \$0.00			\$0.00 \$825,7 \$0.00 \$0.00	786.00 \$406,072.19 \$0.00
3337: Montague County 5 \$14,7 3339: Montgomery County 9 \$45,7 3341: Moore County 2 \$60,7	4,233,453.86 \$13 5,863,252.51 \$42 0,129.52		.40 .00 \$60,129.52 \$0.00	\$0.00 \$0.00	\$13,337,262.43 \$0.00 \$0.00		\$2,183,828.27 \$0.00	\$5,033,620.17 \$0.00 \$24,285,227.70 \$2,149,391.40			\$39,399.43 \$727,7 \$426,518.31 \$644,4 \$0.00	\$482,471.53 \$0.00 \$10,384,795.13 \$0.00 \$0.00
3 \$84,0 3347: Nacogdoches County 4 \$1,9	4,887.39 ,976,318.85 \$1	\$52,018.58 \$0. \$84,887.39 \$0. 976,318.85 \$0. 423,388.27 \$462,046.	.00		\$1,089,633.85 \$1,840,448.40 \$289,519.83 \$3,018,927.42 \$66,268	\$0.00 \$0.00 8.00 \$200,253.59 \$34,259.00		\$228,074.56 \$0.00			\$0.00 \$23,138.61 \$877,434.77 \$17,954.85 \$72,0	\$0.00 \$30,556.58 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3351: Newton County 10 \$30, 3353: Nolan County 5 \$80,	0,165,042.95 \$26 0,505.14	423,388.27 \$462,046. 114,479.86 \$4,050,563. \$80,505.14 \$0. 914,893.45 \$4,345,127.	0.09 \$36,701.22 \$25,629.88 0.00 \$0.00	\$11,828.12 \$0.00		\$19,373,444. \$0.00 \$0.00		\$228,074.56 \$0.00 \$4,369,216.10 \$1,270,375.24 \$183,295,919.32 \$4,209,339.50	\$80,505.14 \$0.00	\$1,988,344.99 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00
3357: Ochiltree County 2 \$0.00 3359: Oldham County 2 \$0.00 3361: Orange County 8 \$147	.00 .00 47,416,709.91 \$138	\$0.00 \$0. \$0.00 \$0. 223,642.80 \$9,193,067.	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00	\$368,160.75 \$0.00	\$1,088,231.		\$119,896,808.02 \$8,176,554.61		\$0.00 \$487,582.50 \$16,840,449.81 \$254,250.00	\$0.00 \$0.00 \$29,992.97 \$274,6	\$0.00 \$0.00 680.00 \$0.00
3363: Palo Pinto County 4 \$705 3365: Panola County 5 \$293 3367: Parker County 5 \$2,1	93,990.42 ,159,998.23 \$1	445,143.00 \$260,200. 133,196.42 \$160,794. 367,699.52 \$792,298. 967,401,94 \$0.	\$0.00 \$0.00 \$0.00		\$171,083.98 \$0.00 \$1,204,802.33 \$0.00	\$18,618. \$967.401.94 \$0.00		\$185,165.97 \$260,200.53 \$15,822.71 \$0.00			\$0.00 \$160,7 \$128,456.09 \$792,2	
3 \$59,03373: Pelk County 8 \$1,7	9,682.94 ,715,017.19 \$1	\$0. \$0. \$0. \$59,682.94 \$0. \$0. \$15,017.19 \$0. \$37,938.74 \$145,705.	.00 \$59,682.94 \$0.00 .00	\$0.00	\$184,248.38 \$0.00	\$967,401.94 \$0.00		\$420,338.39 \$0.00 \$794,719.49 \$0.00	\$0.00		* 1 11	\$0.00 \$0.00 \$0.00 \$0.00 \$188,580.72 \$0.00 \$127,130.21 \$0.00
3377: Presidio County 2 \$43,3 3379: Rains County 3 \$121	3,751.76 21,105.09		.00 \$43,751.76 \$0.00 .00			\$121,105.09 \$0.00					\$0.00	\$0.00 \$0.00 \$0.00
3383: Reagan County 2 \$0.00 3385: Real County 3 \$584 3387: Red River County 8 \$848	.00 84,987.37 48,947.90	\$0.00 \$0. 584,987.37 \$0. 848,947.90 \$0.	\$0.00 \$0.00 \$0.00 0.00 \$19,751.45 \$0.00	00 \$32,156.94 \$0.00	\$207,350.22 \$0.00 \$512,204.72 \$0.00	\$203,955.24 \$0.00 \$80,879.	.55 \$0.00		\$355,661.37 \$0.00		\$0.00 \$21,975.78 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3389: Reeves County 2 \$0.00 3391: Refugio County 4 \$31,3 3393: Roberts County 3 \$34,0	1,376,469.82 \$30 4,665.41	\$0.00 \$0. 530,419.50 \$846,050. \$34,665.41 \$0.	.32 .00 \$28,198.86 \$0.00	\$0.00	\$33,535.53 \$0.00			\$30,373,936.92 \$846,050.32			\$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3 \$158 3399: Runnels County 1 \$97,0	58,813.64 7,086.65	902,544.86 \$0. 158,813.64 \$0. \$0.00 \$97,086. 620,087,58 \$537,300.		00 \$223 321 01 \$0.00	\$290,601.93 \$0.00 \$304,150.04 \$0.00	\$0.00					\$13,076.70 \$0.00 \$97,0	\$0.00 \$1,587,507.45 \$0.00
3403: Sabine County 7 \$1,26 3405: San Augustine County 8 \$638	,281,078.60 \$1 38,175.94	620,087.58 \$537,300. 262,854.60 \$18,224. 638,175.94 \$0. 421,401.97 \$39,090.	.00 \$0.00 .00 \$24,330.60 \$0.00	00	\$304,150.04 \$0.00 \$173,043.95 \$0.00 \$0.00 \$0.00 \$1,504,802.68 \$39,090.00	\$268,316. \$126,336.	.40 \$0.00	\$673,041.58 \$0.00 \$346,701.55 \$0.00 \$336,668.54 \$0.00 \$1,763,843.17 \$0.00			\$41,938.06 \$537,3 \$87,220.91 \$86,623.16 \$0.00	300.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$61,232.13 \$0.00 \$0.00 \$0.00 \$0.00 \$41,720.43 \$0.00 \$0.00 \$0.00 \$0.00 \$833,447.01 \$0.00 \$3,987.38 \$0.00
3 \$42,0 3411: San Saba County 4 \$1,6 3413: Schleicher County 2 \$19,0	2,051,299.75 \$38 ,613,678.22 \$1 9,672.51	907,575.00 \$3,143,724. 613,678.22 \$0. \$19,672.51 \$0.	\$0.00 \$0.00 \$0.00				φυ.συ	\$336,666.54 \$0.00 \$1,763,643.17 \$0.00 \$38,667,201.20 \$3,023,574.75			\$215,907.46 \$120,° \$0.00 \$0.00	
3 \$30, 3415: Scurry County 3 \$30, 3417: Shackelford County 3 \$0.0 3419: Shelby County 6 \$2,4	0,160.49 .00 ,414,267.33 \$2	\$30,160.49 \$0. \$0.00 \$0. 414,267.33 \$0.	\$30,160.49 \$0.00 \$0.00 \$0.00 \$0.00		\$1,616,378.59 \$0.00	\$0.00 \$0.00 \$0.00 \$628,469.	.84 \$0.00				\$0.00 \$0.00 \$36,338.41	\$0.00 \$0.00 \$0.00 \$0.00 \$118,928.03 \$0.00 \$14,152.46 \$0.00
3425: Somervell County 4 \$337	,387,944.16 \$2 37,490.78	\$0.00 \$0. 240,389.16 \$147,555. 337,490.78 \$0. \$66,484.61 \$567,186.	\$0.00 \$0.00 \$0.00	\$195,005.61 \$0.00 00	\$115,954.43 \$0.00 \$1,370,101.26 \$0 \$165,216.74 \$0.00 \$66,484.61 \$0.00	0.00	\$346,742.91 \$0.00	\$172,274.04 \$0.00			\$0.00 \$212,584.95 \$0.00 \$0.00 \$567,	\$0.00
	51,032.29 \$	\$0.00 \$0.	.00 \$41,011.68 \$0.00	00	φυ.υυ	\$0.00		\$510,020.61 \$0.00			\$0.00 \$567,7 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3435: Sutton County 4 \$1,00 3437: Swisher County 2 \$0.00	,063,122.66 \$1 .00	\$0.00 \$0. 063,122.66 \$0. \$0.00 \$0. 214,025.06 \$1,453,702.	.00 \$30,268.75 \$0.00 .00 \$0.00 \$0.00	00 \$0.00 \$0.00	\$2,690,272.60 \$1,215,625.07	φυ.συ		\$0.00	\$1,011,362.76 \$0.00		\$0.00 \$21,491.15 \$0.00 \$523,752.46 \$238,0	\$0.00 \$0.00 077.00
3441: Taylor County 1 \$498 3443: Terrell County 3 \$51,9 3445: Terry County 3 \$433	98,883.46 \$1,957.06 \$33,435.00 \$	498,883.46 \$0. \$51,957.06 \$0. 433,435.00 \$0.	0.00 \$51,957.06 \$0.00 0.00 \$16,166.50 \$0.00	00		\$417,268.50 \$0.00					\$498,883.46 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00
3447: Throckmorton County 5 \$1,1° 3449: Titus County 4 \$405 3451: Tom Green County 3 \$434	05,076.57 \$34,644.14 \$		\$0.00 \$50,953.64 \$0.00 0.00 \$139,226.94 \$0.00	\$33,613.34 \$0.00	\$192,005.38 \$0.00 \$0.00 \$0.00 132,024,96 \$2,278,862,12 \$669,024,38 \$14,434,129,50 \$6	\$230,709.51 \$0.00		\$0.00 \$0.00 \$26 617 18 \$0.00 \$499 288 22 \$0.00	\$873,837.96 \$0.00		\$0.00 \$140,753.72 \$295,417.20	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3455: Trinity County 7 \$1,13 3457: Tyler County 9 \$2,1	,128,814.64 \$1 ,145,139.43 \$2	701,000.34 \$2,006,459. 057,820.57 \$70,994. 085,064.43 \$60,075. 289,901.80 \$473.508.	.07 \$137,111.38 \$0.00 .00 \$121,188.70 \$0.00	00 \$17,650.00 \$0.00	132,024.96 \$2,278,862.12 \$669,024.38 \$14,434,129.50 \$0 \$238,993.49 \$0.00 \$264,213.45 \$0.00	\$50,216.20 \$70,994.07 \$296,814.		\$26,617.18 \$0.00 \$499,288.22 \$0.00 \$204,847.85 \$0.00 \$286,226.33 \$60,075.00 \$730,353.53 \$0.00		\$3 	\$0.00 \$0.00	\$0.00 \$45,499,091.00 \$0.00 \$0.00 \$363,465.58 \$0.00 \$63,186.07 \$0.00 \$0.00 \$0.00 \$0.00 \$368,618.07 \$0.00 508.00 \$0.00 \$0.00
3461: Upton County 2 \$0.00 3463: Uvalde County 3 \$1,15	.00 ,135,488.86 \$1	\$473,508. \$0.00 \$0. 135,488.86 \$0. 831,911.32 \$0.	\$0.00 \$0.00		\$807,420.62 \$0.00		\$0.00		\$328,068.24 \$590,926.87 \$0.00		\$0.00 \$473,8 \$0.00 \$0.00 \$129,818.49	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3467: Van Zandt County 5 \$6,5 3469: Victoria County 4 \$25,0	,573,900.38 \$6 5,621,814.26 \$24	\$31,911.32 \$0. 196,638.38 \$377,262. 740,174.77 \$881,639. 316,484.77 \$111,937.	00 49		\$3,117,955.97 \$0.00 \$128,820.34 \$41,250.00 \$1,588,095.69 \$0.00 \$1,808,814.96 \$0	\$2,229,185.57 \$0.00 0.00 \$218,181.84 \$0.00 \$304,750.	\$793,210.19 \$0.00 .46 \$0.00	\$24,445,560.36 \$840,389.49 \$584,547.58 \$0.00 \$3,983,517.57 \$0.00			\$15,908.82 \$377,2	\$0.00
8 \$4,10 8473: Waller County 8 \$4,10 8475: Ward County 1 \$0.00 8477: Washington County 7 \$7,20	,106,682.24 \$4 .00 ,242,060.60 \$5	\$0.00 \$0.512,452.10 \$1,729,608.	0.00 0.00 0.50	\$0.00 \$0.00	\$1,588,093.69 \$0.00 \$1,808,814.90 \$0.00 \$308,457.37 \$0.00 \$327,749.69 \$0.00	ψυστ,1 συ.	\$428,793.65 \$0.00	\$383,171.75 \$0.00 \$3,963,517.57 \$0.00 \$383,171.75 \$0.00 \$2,444,556.15 \$0.00 \$4,468,593.02 \$1,456,081.40 \$470,978.32 \$0.00			\$0.00 \$0.00 \$42,771.35 \$273,8	\$0.00 \$493,256.19 \$0.00 \$48,447.13 \$0.00 \$0.00 \$27.10 \$5,191.68 \$0.00 \$3,207.38 \$0.00
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APPENDIX

DATA VISUALIZATION TOOLS

It is evident the U.S. is already paying a steep price for this challenge. Rebuild by Design partnered with APTIM and iParametrics to create the following visual tools to demonstrate how climate events have affected each state. The set of six maps depicts which areas have been hit the hardest by recent climate events, where recovery funds are focused, where those individuals with high social vulnerabilities live, and which areas have the least energy reliability.

The U.S. needs to change the way it is making funding decisions. Where we make priority investments is equally important to what we invest in. Returns on investments (ROI) in the form of social benefits to communities needs to be part of grant evaluations. The U.S. need to utilize new decision-making frameworks that are forward-looking. The final map in the set includes an example of a new decisionmaking framework that takes into account current vulnerabilities and future climate risks. This is one example of how physical and social vulnerability indicators could inform where investments in adaptation infrastructure can yield high returns in social benefits to the most impacted communities. Our team recognizes, however, that there are other decision-making frameworks to explore, and further research is needed to understand which indicators should be included in any state-specific model. Given the ever-present constraints on funding availability, the intent of presenting these maps together is to prompt investments that address multiple known vulnerabilities simultaneously within projects, furthering comprehensive climate adaptation planning.

The following data are designed as a tool to help communities understand their risks to make better-informed choices with higher returns on investment, though each state should determine their own framework for investment.

There are always many ways to present these data. For the purposes of this report, we chose to analyze the years 2011–2024. The following six maps and two tables are presented in this format with the following considerations and limitations:

GEOGRAPHIC MAP

The map provides topographic and geographic context for each state and its surrounding areas, indicating whether the state encompasses coastal, riverine, lake, alpine, or desert land.

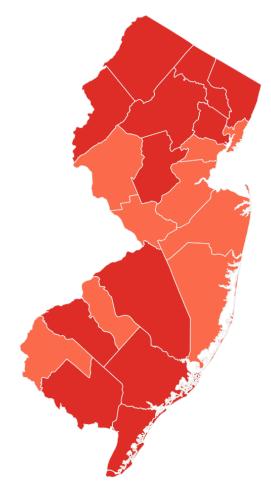


GEOGRAPHIC MAP. SOURCE: ESRI WORLD IMAGERY BASEMAP

DISASTER DECLARATIONS (RED)

This map shows federally declared climate disasters by county from 2011-2024 – providing a snapshot of the magnitude of climate disasters across the country in recent history. This report only identifies federally declared disasters, as there is no entity that collects and publishes state disaster declarations. It should be noted that the declarations shown in this report do not reflect every climate event that has occurred between 2011-2024; the report instead only shows those which have met the cost threshold for a federal disaster declaration. Therefore, the findings overall underestimate the number of occurrences and the suffering that some communities have experienced.

According to the Stafford Act, as amended in May 2021, a "major disaster" includes "any natural catastrophe (including any hurricane, tornado, storm, high water, winddriven water, tidal wave, tsunami, earthquake, volcanic eruption, landslide, mudslide, snowstorm, or drought), or, regardless of cause, any fire, flood,



DISASTER OCCURRENCES SOURCE: FEMA 2011-2024 MAP MADE BY REBUILD BY DESIGN

or explosion, in any part of the United States, which in the determination of the President causes damage of sufficient severity and magnitude to warrant major disaster assistance under this Act to supplement the efforts and available resources of States, local governments, and disaster relief organizations in alleviating the damage, loss, hardship, or suffering caused thereby."

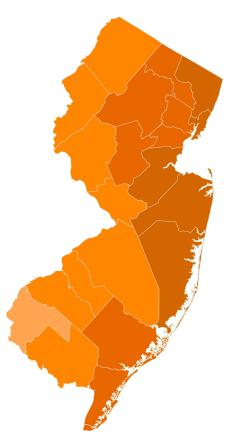
Importantly, extreme heat waves do not fit the criteria for federal disaster declarations despite being the leading cause of deaths among climate hazards. Likewise, sea level rise is not included in this definition despite the threat it poses to numerous communities, including damage to property, loss of land, and displacement.

It should be noted that while most disaster declarations are due to climate events, there are a few instances of disasters due to other natural hazards, such as earthquakes and volcanic eruptions. Though these events are not increasing in magnitude or frequency due to climate change, the severity of their impact may be connected. As climate impacts degrade household and critical infrastructure, communities may become more vulnerable to other natural hazards. Retrofitting infrastructure after these events often requires the same measures as floods, tornadoes, fires, etc., so these events were included in the report to demonstrate the need to prioritize multi hazard adaptation approaches.

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FEDERAL ASSISTANCE (ORANGE)

The map shows the amount of federal dollars allocated to counties through FEMA's Public Assistance and Hazard Mitigation Grant Programs between 2011-2024 which allocates funding to individual counties and statewide. The map does not show where "statewide" allocations were spent within the state, but rather only shows county allocations. However, these statewide allocation amounts are included in the Disaster Declaration table at the end of each chapter and included in the "FEMA Total" provided next to the map. The adjacent table adds HUD's Community Development Block Grant Disaster Recovery funds – which are only available to states after a disaster – to the FEMA Total for an estimate of federal post-disaster spending in each state.



FEDERAL ASSISTANCE SOURCE: FEMA (HA+PM) 2011-2024 MAP MADE BY REBUILD BY DESIGN

The Disaster Declaration tables provided at the end of each chapter show all federal Disaster Declarations declared between 2011-2024 and the corresponding FEMA obligations associated with those events.

However, in some instances, FEMA continues to obligate funds for years following a declaration. Some states have received funds for events that took place

between 2011-2024 after 2024, so the total sum of funds associated with that event are not captured. All FEMA funds allocated to counties between 2011-2024 are shown in the federal assistance map; however, they do not show up in the Disaster Declaration table if their corresponding event took place prior to 2011. For example, counties in the State of Illinois are still receiving funds from a 1960s storm. The funds obligated to those counties are included in the map, but that event is not included in the Disaster Declaration table at the end of the chapter.

There are additional sources of federal funding made available to governments or individuals in response to disasters, such as the U.S. Army Corp of Engineers (USACE) projects, Small Business Administration (SBA) loans, and private insurance payouts, which are not included in this report because they are harder to uniformly track and/or must be paid back. Therefore, our findings underestimate the total support available to states and individuals post-disaster.

Since disaster aid is allocated to repair physical damage to property, events such as extreme heat, which largely creates physical damage to persons and not property, rarely qualify for federal disaster recovery aid. Additionally, there is only a shallow understanding of the economic impact of social and health-related costs and environmental degradation after a disaster.

SOCIAL VULNERABILITY INDEX (GREEN)

Social vulnerability refers to the potential negative effects on communities caused by external stresses on human well-being. Such stresses include natural or human-caused disasters or disease outbreaks. The factors that determine social vulnerability are directly tied to social determinants of health or the social, economic, and physical factors - such as race, socioeconomic status, and environmental conditions - that influence health. Socially vulnerable populations fare the worst during a disaster and often take longer to recover. The Center for Disease Control/ Agency for Toxic Substance and Disease Registry Social Vulnerability Index (CDC/ATSDR SVI) uses 15 U.S. census variables to help local officials identify communities that may need support before, during, or after disasters. The map presents the SVI on a census block



SOCIAL VULNERABILITY SOURCE: CDC/ATSDR 2022 MAP MADE BY REBUILD BY DESIGN

level, indicating where the most socially vulnerable populations within each county live. The 15 indicators are grouped into four themes:

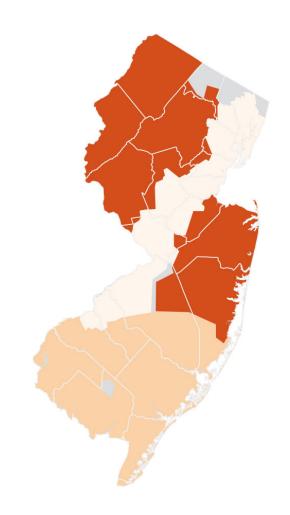
- Socioeconomic Status (below poverty, unemployed, income, no high school diploma);
- Household Composition & Disability (aged 65 or older, aged 17 or younger, older than age 5 with a disability, single-parent households);
- Minority Status & Language (minority, speak English "less than well"); and
- Housing Type & Transportation (multi-unit structures, mobile homes, crowding, no vehicle, group quarters).

Social Vulnerability Index data are not being used to make post-disaster assistance funding decisions. HUD only requires Low and Moderate Income for a portion of their funding. FEMA does not consider it in their allocations.

ENERGY RELIABILITY (BROWN)

Climate events often lead to energy disruptions for hours, days, or weeks. This map shows the annual average interruption time (in minutes) across the different energy utility providers within a state. Regions (or utility territories) in the darkest shade, on average, experience longer energy outages. These data are aggregated by utility territory, not county, meaning more than one provider can serve a county or group of counties.

Viewing the Energy Reliability Map next to the SVI Map, one can begin to infer which regions have the most socially vulnerable residents and are served by the least reliable energy providers. Energy reliability is increasingly becoming related to climate disasters and weather events. Inclusion of these maps is to support evaluation of need for concurrent flood and energy resilience projects.



ENERGY RELIABILITY SOURCE: US ENERGY INFORMATION ADMINISTRATION 2023 MAP MADE BY REBUILD BY DESIGN

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System Average Interruption Duration Index (SAIDI)

is one of the performance metrics used to measure the reliability of an electric utility's service. This metric measures the total time (in minutes) an average customer experiences a non-momentary power interruption over a one-year (calendar) period.

A Major Event Day (MED) is another metric which occurs when the SAIDI exceeds a specific threshold within a given day and tends to reflect outages on the longer end of the spectrum. The data presented in this report shows a metric of SAIDI combined with MED to highlight and report electric reliability in areas (utility territories) irrespective of the root cause of the interruption. The Energy Reliability Map displays the SAIDI_W_MED metric for utility territories and highlights areas that are susceptible to electric system vulnerabilities based on reliability performances. These vulnerabilities serve as an indicator as to where investments and improvements in the distribution grid should be focused.

Electric utilities experience power interruptions due to a variety of issues. Those issues include inclement weather, vegetation management practices, utility practices, maintenance patterns, and capital investment strategy, among others, which all play a part in a utility's overall reliability performance. The U.S. Energy Information Administration produces an Annual Electric Power Industry Report which utilizes data collected from U.S. electric utilities reflecting their reliability performance against certain industry standards and performance metrics. Utilities have the flexibility to report interruptions according to duration and frequency either with major events, without major events, or both.

The annual SAIDI is the summation of the individual SAIDIs for each non-momentary interruption event over the entire year (2023):

 $SAIDI = \frac{\sum (Duration of Interruption \times No. of Sustained Customer Interruptions)}{Total No. of Customers Served}$

For utilities that report SAIDI metrics using the Institute of Electrical and Electronics Engineers (IEEE) standards, "non-momentary" interruptions are those lasting

longer than five minutes. A Major Event Day (MED) is another metric which occurs when the SAIDI exceeds a specific threshold within a given day and tends to reflect outages on the longer end of the spectrum.

Utilities have certain flexibilities when reporting with these metrics. Including MED in the SAIDI metric (SAIDI_W_MED) provides an overall picture of the electric reliability experienced by customers. Excluding MED from the SAIDI metrics (SAIDI_WO_MED) tends to separate power interruption events by their durations, which provides an indicator of the source of the power interruption (i.e., distinguishes a Major Event vs. Systematic Operation interruption).

Our methodology utilizes SAIDI_W_MED as the primary measurement indicator for the electric reliability experience of the end user (customer). Our SAIDI_W_MED metric highlights the reported electric reliability in areas (utility territories, counties, and states) irrespective of the root cause of the interruption. Our metric does not exclude interruptions categorized as MEDs.

This report endeavors to highlight areas across the national electric distribution network (utility territories) that are susceptible to electric system vulnerabilities based on historical reliability of performance. We view vulnerabilities caused by major events (longer duration outages) on par with vulnerabilities caused by systematic failures (shorter duration outages) and believe they should equally drive electric grid investment and improvement decisions. These investments should also incorporate solutions aimed at mitigating systemic vulnerabilities that stem from issues like vegetation management practices, distribution automation improvements to major event vulnerabilities with root causes embedded in grid hardening, distribution generation schemes, and Automated Metering Infrastructure (AMI) upgrades aimed at minimizing customer interruption numbers and durations.

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