



## Filing Receipt

**Received - 2022-02-14 04:25:44 PM**

**Control Number - 52946**

**ItemNumber - 10**

**Service Quality Report**  
To The  
**Public Utility Commission of Texas**  
In Accordance With  
**Substantive Rule §25.81**  
**2021 Reporting Year**

**AEP Texas Inc.**

**Project 52946**



Service Quality Report to the Public Utility Commission of Texas

**AEP Texas Inc.**

<b>System SAIFI</b>	<b>Annual</b>	<b>Jan</b>	<b>Feb</b>	<b>March</b>	<b>April</b>	<b>May</b>	<b>June</b>	<b>July</b>	<b>Aug</b>	<b>Sept</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>
<b>Forced</b>													
<b>2021</b>	1.26	0.07653	0.06093	0.08758	0.11116	0.16477	0.11829	0.12454	0.09938	0.10176	0.12658	0.10761	0.08168
<b>Scheduled</b>													
<b>2021</b>	0.09	0.00506	0.00401	0.00916	0.00386	0.00462	0.00563	0.00539	0.00636	0.01017	0.01438	0.00864	0.00833
<b>Outside Causes</b>													
<b>2021</b>	0.23	0.0125	0.03784	0.03572	0.03571	0.0255	0.00149	0.0058	0.01409	0.01425	0.02076	0.00174	0.02
<b>Major Events</b>													
<b>2021</b>	1.68		1.52747			0.12721				0.02044			

Service Quality Report to the Public Utility Commission of Texas

**AEP Texas Inc.**

<b>System SAIDI</b>	<b>Annual</b>	<b>Jan</b>	<b>Feb</b>	<b>March</b>	<b>April</b>	<b>May</b>	<b>June</b>	<b>July</b>	<b>Aug</b>	<b>Sept</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>
<b>Forced</b>													
<b>2021</b>	148.40	8.18847	7.98565	8.03146	12.18683	23.71863	14.22371	14.63728	12.55849	12.25674	16.03539	10.43709	8.13906
<b>Scheduled</b>													
<b>2021</b>	11.46	0.75751	0.50108	1.16546	0.55293	0.90121	0.80757	0.73282	0.72913	1.51978	1.70241	0.92555	1.16807
<b>Outside Causes</b>													
<b>2021</b>	17.99	0.95775	2.10300	3.89498	3.52239	1.77668	0.14710	0.39416	0.51251	2.53254	1.57736	0.13537	0.44010
<b>Major Events</b>													
<b>2021</b>	1584.11		1520.83809			36.69811				26.57878			

## Service Quality Report to the Public Utility Commission of Texas

Distribution Feeder Indices for Forced Interruptions

List all Distribution Feeders on Texas System

Total Number of Feeders

With 10 or more Customers

<b>1289</b>
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Add or Delete Rows as Necessary

**AEP Texas Inc.**

2021 SAIFI Ranking	2020 SAIFI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIFI Value
1	349	WESMER	94SB6900	52	37.173
2	114	LOS FRESNOS	94SB5335	119	20.370
3	761	BAY CITY	94CN6450	224	16.567
4	25	GREGORY	94CS5920	704	10.314
5	#N/A	RAYMONDVILLE #2	94SB5875	28	10.179
6	118	BLACK BAYOU	94CN1120	370	8.186
7	260	O CONNER	94CN390	203	8.059
8	20	MARKHAM	94CN6440	468	7.551
9	780	BAY CITY	94CN5960	401	6.803
10	1069	SHROPSHIRE	94CN1240	72	6.639
11	68	MEDIO CREEK	94CN1380	797	6.469
12	487	HOLLY	94CS7620	2697	6.451
13	770	NORTH MERCEDES	94SB3770	1798	6.405
14	78	CRESTONIO	94LA270	636	6.113
15	21	CAUSEWAY	94SB4765	931	5.824
16	91	EAGLE PASS CITY	94LA450	849	5.767
17	667	GREGORY	94CS8560	253	5.593
18	1117	STAMFORD	97AB2835	96	5.490
19	326	MORRIS STREET	94CS7465	756	5.431
20	159	NORTH VICTORIA	94CN7440	1630	5.383
21	381	UVALDE	94LA480	570	5.349
22	421	SUNCHASE	94SB1150	1313	5.249
23	47	FREER	94LA1500	200	5.185
24	102	SUNCHASE	94SB1155	1436	5.148
25	550	SAN DIEGO	94LA1980	615	5.085
26	221	WEIL TRACT (138/12KV)	94CS5405	180	4.961
27	849	MCELROY	97SA5165	95	4.905
28	46	COFFEE PORT	94SB1095	1063	4.849
29	590	CAUSEWAY	94SB4795	336	4.807
30	1001	HALL ACRES ROAD	94SB4895	870	4.687
31	757	HARLINGEN SWITCH	94SB4090	2361	4.687
32	214	CHARLOTTE	94LA2780	58	4.672
33	318	WEIL TRACT (138/12KV)	94CS1990	1397	4.671
34	194	CONOCO-CHITTAM RANCH	94LA8580	27	4.667
35	321	OZONA	97SA4185	739	4.654
36	12	TATTON	94CN8490	357	4.602
37	904	CITRUS CITY	94SB9775	1583	4.541
38	319	GREENLAKE	94CN2740	381	4.528
39	558	PLEASANTON	94LA120	1236	4.422
40	673	PLACEDO	94CN7980	426	4.418
41	1095	MCCAMEY	97SA2830	474	4.346
42	735	SONORA ATLANTIC (SWTEC)	97SA4415	31	4.323
43	224	BANQUETTE	94CS9000	464	4.300
44	721	RIO RICO	94SB8290	308	4.266
45	658	PALMVIEW	94SB7595	3196	4.249
46	903	MARKHAM	94CN5550	17	4.235
47	85	RIO RICO	94SB8330	471	4.225
48	833	GILA	94CS350	30	4.200

## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIFI Ranking	2020 SAIFI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIFI Value
49	594	FOSTER FIELD	94CN2550	60	4.200
50	191	CLARKWOOD	94CS5525	612	4.193
51	538	ALBANY	97AB2029	240	4.167
52	147	RODD FIELD	94CS2190	98	4.133
53	1196	IRAAN	97SA4305	21	4.095
54	100	NAVAL BASE	94CS9720	2519	4.027
55	1048	CHERRY CREEK TAP	97SA485	52	4.019
56	11	ALAZAN	94CS620	167	4.012
57	338	PRAIRIE PUMP	94CN1940	89	3.989
58	629	WEST OSO	94CS9085	934	3.975
59	763	EL CAMPO	94CN2800	840	3.963
60	561	MASTERTON FIELD	97SA800	183	3.962
61	378	MORRIS STREET	94CS8820	1255	3.925
62	384	BAY CITY	94CN7480	2060	3.879
63	271	RANDADO	94LA8350	135	3.867
64	478	SAN DIEGO	94LA2930	568	3.866
65	855	WESMER	94SB4480	1154	3.852
66	824	MOORE FIELD	94SB3110	715	3.815
67	744	WESMER	94SB1850	883	3.806
68	984	WESLACO UNIT	94SB9805	1136	3.774
69	578	SABINAL	94LA485	495	3.756
70	348	ELSA	94SB3500	1301	3.752
71	49	RAYMONDVILLE #2	94SB3170	754	3.688
72	329	PALMHURST	94SB3890	1846	3.684
73	56	BONNIEVIEW	94CS8020	527	3.683
74	830	BEEVILLE	94CN8090	1411	3.680
75	715	BANDERA ELECTRIC (LEAKEY)	94LAL30	271	3.664
76	232	LOS FRESNOS	94SB2160	1842	3.642
77	294	ZAPATA	94LA8300	1609	3.640
78	163	BLESSING	94CN8780	58	3.621
79	894	MCCAMEY	97SA2420	106	3.594
80	18	STAFFORD HILL	94CN1550	140	3.493
81	638	BEEVILLE	94CN1760	1842	3.464
82	129	UVALDE	94LA550	732	3.452
83	812	ELSA	94SB3520	969	3.428
84	415	WEST HARLINGEN	94SB3720	1304	3.405
85	1015	ALBANY	97AB3655	623	3.401
86	57	NORTH MERCEDES	94SB3840	690	3.391
87	944	NORTH WESLACO	94SB4810	1514	3.391
88	258	LAREDO PLANT	94LA8745	758	3.391
89	287	MAYO	94CS625	205	3.376
90	1190	MINES ROAD	94LA7235	1280	3.334
91	395	AIRLINE	94CS7280	643	3.320
92	226	BEEVILLE	94CN8510	834	3.314
93	568	CAUSEWAY	94SB9880	961	3.310
94	774	HOLLY	94CS1950	836	3.309
95	532	GOLIAD	94CN8220	1062	3.288
96	485	PHARAOH	94CS5175	1286	3.273
97	173	VILLA CAVAZOS	94SB5680	1937	3.255
98	545	NORTH ALAMO	94SB3610	1616	3.237
99	892	EAST HARRISON	94SB3190	1484	3.232
100	418	VALENTINE	97SA6325	511	3.225
101	880	SOUTHSIDE	94CS7925	1156	3.222

## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIFI Ranking	2020 SAIFI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIFI Value
102	130	PORTLAND	94CS6505	1823	3.216
103	350	GARWOOD CITY	94CN2570	144	3.215
104	296	SARAGOSA	97SA1590	42	3.190
105	89	PALACIOS	94CN6830	840	3.190
106	821	RULE	97AB3396	447	3.141
107	525	HARLINGEN SWITCH	94SB4110	885	3.124
108	1004	WESLACO UNIT	94SB8610	1178	3.123
109	819	BROWNSVILLE	94SB4290	477	3.117
110	229	EAGLE PASS CITY	94LA2510	704	3.063
111	472	MILES	97SA4670	386	3.062
112	749	MCCAMEY	97SA2415	82	3.061
113	637	VERHALEN	97SA14765	22	3.045
114	132	PORT ARANSAS	94CS3030	899	3.024
115	390	MESA VIEW	97SA7045	99	3.020
116	687	MALONE	94CN7550	199	3.020
117	67	SANTA RITA	97SA1105	73	3.014
118	322	AB MAPLE ST	97AB5755	1138	3.011
119	286	SOUTH SANTA ROSA	94SB1215	1714	3.004
120	370	GRAYBACK	97AB3315	45	3.000
121	99	GREGORY	94CS5900	119	2.992
122	115	EAST HARRISON	94SB3950	754	2.977
123	574	AB ELM CREEK	97AB4780	567	2.977
124	189	MAYBERRY	94SB3160	548	2.964
125	551	PORT ISABEL S.S.	94SB3760	763	2.955
126	324	PAWNEE (STEC OWNED)	94CN22202	196	2.949
127	668	ARCADIA	94CS1450	1672	2.932
128	1115	GIRARD	97AB6260	44	2.932
129	273	PECAN BAYOU	97AB6810	446	2.930
130	518	HIGHWAY 9	94CS6770	959	2.921
131	257	AB RAINEY CREEK	97AB4225	122	2.902
132	608	BROOKHOLLOW	94CN8950	911	2.896
133	223	GEORGE WEST	94CN1320	689	2.859
134	895	SOUTH PADRE ISLAND	94SB6440	2720	2.857
135	397	PECOS VALLEY	97SA4080	110	2.827
136	320	PLACEDO	94CN7970	498	2.825
137	382	HARLINGEN	94SB360	2459	2.789
138	1155	CALLICOATTE	94CS8785	1203	2.772
139	674	BIG WELLS	94LA1570	426	2.765
140	698	RIO GRANDE CITY	94SB3220	1396	2.741
141	242	WESLACO UNIT	94SB5970	2030	2.739
142	13	DARST	94CN1845	184	2.723
143	146	PREMONT	94LA2730	197	2.716
144	393	SOUTH MCALLEN	94SB3850	1374	2.704
145	176	SINTON	94CS6860	1000	2.687
146	933	MAGNOLIA	94CN315	83	2.687
147	469	LULING - LCRA	94CN10	434	2.668
148	95	GOVERNMENT WELLS	94LA7250	567	2.663
149	53	WEST MCALLEN	94SB4555	1684	2.659
150	845	OLMITO	94SB4275	808	2.655
151	166	HOLLY	94CS1480	1730	2.648
152	936	COFFEE PORT	94SB1090	1284	2.629
153	111	AFTON	97AB2225	49	2.612
154	777	HALL ACRES ROAD	94SB3670	1209	2.611

## Service Quality Report to the Public Utility Commission of Texas

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2021 SAIFI Ranking	2020 SAIFI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIFI Value
155	718	SABINAL	94LA200	435	2.605
156	281	CROSS PLAINS	97AB2915	772	2.601
157	64	WEAVER ROAD	94CN1900	60	2.600
158	842	ROCKPORT	94CS5950	42	2.595
159	231	PERKINS PROTHO	97SA3180	22	2.591
160	420	EAGLE LAKE	94CN320	628	2.580
161	948	GARCENO	94SB2130	1827	2.577
162	201	BROWNSVILLE	94SB3050	2024	2.570
163	451	RISING STAR	97AB5075	686	2.564
164	1137	ALPINE 12KV	97SA6825	1806	2.542
165	794	WEST HARLINGEN	94SB3700	1823	2.540
166	361	DILLEY	94LA3795	103	2.534
167	359	HALL ACRES ROAD	94SB3460	3193	2.513
168	760	FOSTER FIELD	94CN8880	287	2.505
169	208	PALACIOS	94CN8550	83	2.494
170	992	HEARN ROAD	94CS8980	1271	2.493
171	700	ELSA	94SB700	1530	2.486
172	789	NORTH PADRE ISLAND	94CS720	1386	2.480
173	63	CROSS PLAINS	97AB2920	536	2.472
174	528	TANKERSLY (CVEC)	97SA5260	479	2.466
175	#N/A	BLACK CAT	94CN4525	121	2.463
176	#N/A	PICACHO	94LA630	340	2.459
177	1160	HOLLY	94CS9675	1780	2.449
178	477	FULTON	94CS9050	1245	2.446
179	711	BUENA VISTA	94LA8965	930	2.437
180	251	RIO PECOS	97SA3835	105	2.429
181	298	SOUTH SANTA ROSA	94SB1225	863	2.423
182	211	ALICE	94LA2530	1479	2.405
183	351	SOUTH PADRE ISLAND	94SB4695	1355	2.390
184	170	ODEM	94CS385	574	2.389
185	665	MCCAMEY	97SA2855	76	2.382
186	76	MORRIS STREET	94CS7625	527	2.380
187	341	WESMER	94SB7760	1452	2.375
188	239	WYLIE	97AB2665	1085	2.372
189	32	HEARN ROAD	94CS8990	1353	2.370
190	654	VALENTINE	97SA5590	214	2.369
191	628	CABANISS	94CS615	250	2.360
192	253	PAULANN	97SA6285	68	2.353
193	285	THREE RIVERS	94CN5100	72	2.347
194	77	DEL RIO CITY	94LA420	2084	2.338
195	316	PEARSALL	94LA7050	585	2.335
196	967	PHARR	94SB1645	1701	2.333
197	8	ESCONDIDO	94LA2035	244	2.328
198	3	PIRATE	94CS3380	454	2.324
199	745	WYLIE	97AB6340	765	2.322
200	299	SOUTHSIDE	94CS8045	964	2.316
201	766	GILA	94CS345	64	2.313
202	246	SONORA 138 SUB	97SA4805	441	2.311
203	719	PALMHURST	94SB2525	2315	2.307
204	1041	CLOSNER	94SB2945	478	2.305
205	886	EL GATO	94SB780	1989	2.304
206	655	LEARY LANE	94CN7530	3065	2.286
207	#N/A	ODEM	94CS2400	315	2.286

## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIFI Ranking	2020 SAIFI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIFI Value
208	220	WADSWORTH	94CN7660	1454	2.274
209	180	MATHIS	94CS2870	886	2.261
210	818	FREER	94LA5200	1030	2.258
211	186	BRACKETTVILLE	94LA8460	1199	2.258
212	765	NORTH PADRE ISLAND	94CS5170	866	2.256
213	#N/A	PIRATE	94CS3220	714	2.252
214	7	LA PRYOR	94LA580	268	2.250
215	22	WOOLRIDGE	94CS1170	435	2.244
216	97	KLEBERG	94CS280	1340	2.240
217	128	EDROY	94CS6990	290	2.234
218	872	MESQUITE	94SB8340	750	2.232
219	874	KINGSVILLE	94CS1660	1994	2.226
220	429	STERLING CITY	97SA1445	909	2.224
221	334	PALMHURST	94SB1300	2272	2.220
222	14	RIO BRAVO	94LA5	716	2.211
223	181	PHARAOH	94CS1185	1545	2.205
224	685	PORT ARANSAS	94CS990	2658	2.198
225	193	DEL MAR	94LA220	1451	2.196
226	30	ELDORADO	97SA1845	539	2.195
227	848	CLARKWOOD	94CS7230	606	2.195
228	524	EL GATO	94SB720	2558	2.192
229	212	DUNE FIELD (N CRANE)	97SA3885	69	2.188
230	81	NORTH MCALLEN	94SB9640	1537	2.186
231	462	CASA BLANCA	94CS55	869	2.181
232	28	KENEDY	94CN1970	560	2.180
233	1075	EDNA	94CN5775	508	2.179
234	124	NIXON	94CN2025	529	2.176
235	868	RULE	97AB3378	103	2.175
236	27	CABANISS	94CS75	2248	2.168
237	342	FREISS RANCH	97SA4870	98	2.163
238	448	KARNES CITY	94CN2315	1028	2.158
239	107	MCKENZIE ROAD	94CS140	277	2.155
240	677	WEST HARLINGEN	94SB3800	1421	2.154
241	822	SANTA RITA	97SA1100	82	2.146
242	804	BIG OAK	94CN420	147	2.143
243	141	PHARAOH	94CS1285	1777	2.141
244	1105	ESCONDIDO	94LA3350	1467	2.140
245	499	NORTH MCALLEN	94SB9660	2177	2.138
246	908	CLARKWOOD	94CS7610	109	2.138
247	184	DARST	94CN1265	75	2.133
248	1061	SANTA ANNA	97SA3420	369	2.114
249	116	WADSWORTH	94CN8630	681	2.113
250	778	TANKERSLY (CVEC)	97SA5265	374	2.102
251	1027	HIGHWAY 9	94CS7210	348	2.101
252	394	EL CAMPO	94CN6370	768	2.099
253	1181	ROCKPORT	94CS5940	61	2.098
254	447	MUSTANG ISLAND	94CS9470	741	2.093
255	237	HASKELL 12KV	97AB3495	820	2.085
256	1109	DEL MAR	94LA10	1739	2.083
257	941	HAINES DRIVE	94SB9700	1161	2.082
258	511	ABILENE PLANT	97AB1910	248	2.081
259	202	ROMA	94SB3070	900	2.080
260	1131	SANTA ANNA	97SA3415	338	2.080

## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIFI Ranking	2020 SAIFI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIFI Value
261	888	PREMONT	94LA6570	791	2.076
262	1058	ESCONDIDO	94LA1510	737	2.068
263	1044	KNOX CITY	97AB3300	466	2.064
264	813	INGLESIDE CITY	94CS8060	2480	2.061
265	1161	JAYTON	97AB6125	349	2.057
266	340	PALMHURST	94SB2535	2598	2.052
267	596	AB ELM CREEK	97AB4745	923	2.048
268	1173	GREENLAKE	94CN2750	71	2.042
269	177	DEVINE	94LA8100	1621	2.038
270	284	HOLCOMB	94LA3025	355	2.034
271	509	INGLESIDE CITY	94CS2495	266	2.030
272	17	ODEM	94CS375	632	2.022
273	1201	PAULANN	97SA6310	1098	2.021
274	779	OZONA	97SA3555	158	2.019
275	369	WESMER	94SB9705	1132	2.017
276	1076	THREE RIVERS	94CN8430	193	2.016
277	446	CLARKWOOD	94CS2170	746	2.007
278	837	PAULANN	97SA6280	479	2.006
279	143	GREGORY	94CS420	467	2.002
280	923	VERHALEN	97SA4460	71	2.000
281	799	GOODWIN	94SB4625	2207	1.996
282	162	CASA BLANCA	94CS4170	1156	1.995
283	539	ROWENA	97SA4480	228	1.965
284	1216	CAUSEWAY	94SB4775	1084	1.960
285	92	VILLA CAVAZOS	94SB1980	2241	1.955
286	579	RACHAL	94LA6595	335	1.952
287	788	COTULLA	94LA460	521	1.950
288	171	LA GRULLA	94SB5110	1055	1.927
289	557	KEPLER	94CS1700	26	1.923
290	785	LOS FRESNOS	94SB4315	1215	1.909
291	954	BISHOP	94CS7180	940	1.902
292	356	PORT ARANSAS	94CS6940	1620	1.897
293	1045	STAMFORD PUMP	97AB3930	38	1.895
294	663	ARCADIA	94CS1440	1684	1.868
295	244	HIDALGO	94SB3680	324	1.867
296	1225	HEINES	94CS3515	1296	1.860
297	88	HIGHWAY 9	94CS6780	760	1.858
298	675	CAMPWOOD	94LA3430	125	1.856
299	247	AIRLINE	94CS5870	1015	1.849
300	391	KINGSVILLE	94CS1130	2227	1.837
301	1208	SA JACKSON ST	97SA4250	328	1.826
302	42	TURKEY	97AB3825	390	1.821
303	863	MATHIS	94CS1420	918	1.807
304	640	PALMVIEW	94SB3930	1156	1.806
305	1092	PARKER	94CN9260	123	1.805
306	179	CRYSTAL CITY	94LA8380	1355	1.793
307	87	EAGLE LAKE	94CN9455	600	1.792
308	355	DIMMIT	94LA4120	1305	1.791
309	31	NAVAL BASE	94CS8540	1612	1.776
310	217	FALFURRIAS	94LA5210	1178	1.775
311	313	BAY CITY	94CN6670	1602	1.775
312	572	CONTINENTAL	94SB3650	17	1.765
313	266	NAVAL BASE	94CS7950	794	1.752



Service Quality Report to the Public Utility Commission of Texas

**AEP Texas Inc.**

2021 SAIFI Ranking	2020 SAIFI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIFI Value
314	827	INDIAN MESA	97SA2690	68	1.750
315	973	BROOKHOLLOW	94CN8960	598	1.749
316	15	BLESSING	94CN8790	765	1.749
317	61	HIDALGO	94SB4845	1407	1.743
318	474	AB DYESS 2	97AB6335	362	1.738
319	37	MORRIS STREET	94CS8830	1534	1.734
320	43	UVALDE	94LA540	1974	1.729
321	206	MOORE FIELD	94SB3120	151	1.722
322	353	VICTORIA POWER PLANT	94CN7600	165	1.715
323	884	RODD FIELD	94CS225	2924	1.713
324	29	PORTLAND	94CS9290	1790	1.708
325	484	BROWNSVILLE	94SB4280	325	1.705
326	199	RIO BRAVO	94LA1130	1063	1.702
327	65	MORRIS STREET	94CS8715	1600	1.693
328	929	PLEASANTON	94LA9475	1368	1.692
329	526	BLESSING	94CN1030	282	1.688
330	613	MIDWAY LANE	97SA3440	54	1.685
331	1028	TAFT	94CS1180	950	1.684
332	248	NORTH MCALLEN	94SB5060	2518	1.678
333	#N/A	SAND CRAB	94CN8120	258	1.678
334	951	MAGRUDER	94CN6680	699	1.677
335	71	GREENLAKE	94CN2760	1172	1.672
336	437	WEST MCALLEN	94SB4535	2930	1.672
337	883	CAMPWOOD	94LA2610	983	1.671
338	541	RISING STAR	97AB5080	596	1.668
339	280	GOVERNMENT WELLS	94LA6800	233	1.665
340	990	GARCENO	94SB2135	1527	1.663
341	145	DEL RIO CITY	94LA1930	1562	1.649
342	198	LAREDO PLANT	94LA8695	1518	1.636
343	1138	FLOMOT	97AB1852	71	1.634
344	149	PALACIOS	94CN6840	1531	1.632
345	581	PETTUS	94CN1020	454	1.630
346	157	HIGHWAY 9	94CS6720	1308	1.622
347	512	ALICE	94LA1780	519	1.620
348	4	CARANCAHUA	94CN1875	60	1.617
349	767	AB ELMDALE	97AB4520	279	1.616
350	823	ANNA STREET	94LA850	1579	1.615
351	23	UVALDE	94LA6620	2138	1.604
352	690	INDIAN MESA	97SA2695	168	1.595
353	311	PLEASANTON	94LA2080	1714	1.595
354	965	SOUTHSIDE	94CS8055	856	1.585
355	713	PEARSALL	94LA5580	847	1.583
356	309	ARANSAS PASS	94CS590	455	1.580
357	269	ELSA	94SB710	2232	1.573
358	857	WOOLRIDGE	94CS1120	1633	1.571
359	1013	MCKENZIE ROAD	94CS330	2416	1.571
360	701	FREER	94LA2900	161	1.565
361	814	AB MCMURRY	97AB4510	820	1.561
362	597	CONTINENTAL	94SB4080	66	1.561
363	1159	OZONA	97SA3810	1215	1.556
364	33	LAGUNA	94CS9590	2259	1.550
365	722	ROTAN	97AB1865	191	1.545
366	66	UVALDE	94LA5060	1280	1.543

## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIFI Ranking	2020 SAIFI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIFI Value
367	325	CLARKWOOD	94CS9570	1234	1.534
368	138	RIO RICO	94SB5050	1851	1.531
369	959	HOLLY	94CS5820	900	1.530
370	103	RAYMONDVILLE #1	94SB630	782	1.524
371	737	MILO	94LA3060	128	1.523
372	109	RIO GRANDE CITY	94SB3210	1966	1.523
373	449	VERHALEN	97SA4465	35	1.514
374	741	BANQUETTE	94CS130	230	1.513
375	272	ZAPATA	94LA2710	1355	1.506
376	858	THREE RIVERS	94CN5190	474	1.498
377	565	BEN FICKLIN	97SA6180	547	1.484
378	781	SOUTH SANTA ROSA	94SB1240	1672	1.484
379	379	RAYMONDVILLE #1	94SB800	1755	1.483
380	498	ZAPATA	94LA7330	1378	1.480
381	317	TUSCOLA	97AB3730	1178	1.479
382	300	PECOS VALLEY	97SA4075	21	1.476
383	1147	AB OIL MILL	97AB2780	754	1.476
384	552	BRUNI	94LA5440	127	1.472
385	190	GOODWIN	94SB4390	406	1.468
386	203	SINTON	94CS360	337	1.460
387	633	HIDALGO	94SB3400	872	1.460
388	468	SOUTH SANTA ROSA	94SB1235	637	1.457
389	234	HAMILTON ROAD	94LA9665	1252	1.447
390	9	MATTHEWS	94CN1740	166	1.446
391	676	PETTUS	94CN8210	328	1.433
392	913	SOUTH MISSION	94SB5215	1238	1.431
393	428	HEIGHTS	94LA9080	690	1.425
394	716	PALMHURST	94SB2530	2809	1.424
395	635	PUTNAM	97AB2129	201	1.423
396	408	WEST MCALLEN	94SB6385	235	1.421
397	927	SANTO NINO	94LA75	1534	1.421
398	817	BAY CITY	94CN1110	1226	1.419
399	976	UNIVERSITY	94LA305	117	1.419
400	86	LAGUNA	94CS9065	2358	1.417
401	591	SA SOUTH	97SA4255	863	1.414
402	185	YORKTOWN	94CN8420	664	1.413
403	243	NORTH PADRE ISLAND	94CS1010	2266	1.411
404	155	INGLESIDE CITY	94CS8050	1267	1.410
405	727	AB HARTFORD ST	97AB3815	1126	1.401
406	297	YORKTOWN	94CN3130	486	1.401
407	909	AIRLINE	94CS6970	1396	1.400
408	268	PHARAOH	94CS1365	685	1.399
409	853	CONTINENTAL	94SB4880	68	1.397
410	291	ARCADIA	94CS5030	1602	1.393
411	893	REFUGIO	94CN1040	164	1.390
412	887	WESLACO UNIT	94SB8195	1675	1.390
413	651	LIVE OAK	94CS1090	283	1.389
414	843	LAS CRUSES	94LA7325	2768	1.387
415	491	RANKIN	97SA5735	181	1.387
416	407	AB CANYON ROCK	97AB5030	695	1.386
417	58	WINTERS	97SA3765	819	1.382
418	80	PALMVIEW	94SB9685	2960	1.381
419	312	WEST HARLINGEN	94SB4870	1086	1.378

## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIFI Ranking	2020 SAIFI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIFI Value
420	455	NORTH MCALLEN	94SB5055	3324	1.378
421	751	AB MAPLE ST	97AB5750	423	1.376
422	358	OLMITO	94SB715	653	1.371
423	756	PEARSALL	94LA9905	436	1.367
424	932	JOURDANTON	94LA5685	343	1.364
425	106	SUN VALLEY	97SA4300	69	1.362
426	305	ARMSTRONG	94CS6050	83	1.361
427	1135	SKIDMORE	94CS380	158	1.354
428	167	FALFURRIAS	94LA2830	1534	1.353
429	144	MATHIS	94CS340	1403	1.345
430	#N/A	PANTERA	94SB1105	577	1.328
431	648	AB VOGEL ST	97AB4410	768	1.327
432	782	HAIN DRIVE	94SB270	1167	1.326
433	870	AIRLINE	94CS8370	282	1.323
434	332	CARRIZO SPRINGS	94LA370	547	1.314
435	275	EAGLE PASS CITY	94LA2770	2037	1.314
436	879	CRYSTAL CITY	94LA7425	444	1.313
437	1017	ALBANY	97AB3640	333	1.312
438	314	CLYDE	97AB3635	739	1.311
439	717	ARCADIA	94CS1360	1546	1.308
440	#N/A	PICACHO	94LA590	388	1.304
441	352	HALL ACRES ROAD	94SB5585	1485	1.299
442	979	MAGRUDER	94CN6690	756	1.299
443	1144	HAMILTON ROAD	94LA9645	294	1.296
444	771	AB ELM CREEK	97AB5045	382	1.296
445	489	HAIN DRIVE	94SB9240	34	1.294
446	315	SOUTHSIDE	94CS5335	1369	1.291
447	820	AB COUNTRY CLUB	97AB4855	954	1.289
448	60	RODD FIELD	94CS1730	2224	1.283
449	133	PORT ISABEL S.S.	94SB3820	177	1.282
450	279	ELDORADO	97SA5310	183	1.279
451	694	PHARR	94SB1620	1268	1.278
452	602	SHARYLAND	94SB2010	1177	1.276
453	36	PREMONT	94LA2720	769	1.274
454	386	MUNDAY	97AB6715	260	1.273
455	672	CHARLOTTE	94LA8120	231	1.273
456	840	PORTLAND	94CS9270	1793	1.269
457	866	SOUTH MISSION	94SB3620	2084	1.269
458	301	ARCADIA	94CS1400	446	1.262
459	335	OLMITO	94SB905	1684	1.261
460	783	WESMER	94SB4050	1954	1.261
461	1091	DIMMIT	94LA5545	563	1.259
462	96	ASPHALT MINES	94LA500	43	1.256
463	197	JOURDANTON	94LA7880	595	1.255
464	#N/A	BLACK CAT	94CN3000	620	1.253
465	200	YELLOW JACKET	97SA5505	540	1.252
466	368	KINGSVILLE	94CS1140	1144	1.252
467	265	EDNA	94CN5765	1239	1.251
468	1185	YOUNG	94SB5135	1301	1.251
469	158	CHRISTOVAL	97SA6620	627	1.250
470	410	HOLLY	94CS1370	1897	1.250
471	436	MAGRUDER	94CN245	1229	1.241
472	862	SAN BENITO	94SB3910	679	1.240

## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIFI Ranking	2020 SAIFI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIFI Value
473	431	ALICE	94LA2540	972	1.239
474	98	MATHIS	94CS1410	476	1.237
475	1132	SHARYLAND	94SB2035	817	1.234
476	427	MCCOLL ROAD	94SB4780	2014	1.233
477	1056	HASKELL 12KV	97AB3770	457	1.230
478	834	GEORGE WEST	94CN730	910	1.230
479	1099	MUNDAY	97AB3365	406	1.229
480	826	MOCKINGBIRD	94CN400	997	1.229
481	934	SHARYLAND	94SB2020	2667	1.228
482	877	SEAWALL	94CS9325	1563	1.227
483	987	YOUNG	94SB6140	2588	1.224
484	953	ZACATE CREEK	94LA2635	971	1.220
485	90	AB RAINEY CREEK	97AB4270	1417	1.219
486	430	MERTZON (CVEC)	97SA2905	584	1.219
487	652	WOODSON OIL FIELD	97AB30	32	1.219
488	569	RAYMONDVILLE #1	94SB620	661	1.218
489	924	PECAN BAYOU	97AB6815	1567	1.216
490	1107	EAST HARRISON	94SB4620	774	1.214
491	240	ELDORADO	97SA2880	353	1.212
492	952	YORKTOWN	94CN8380	785	1.211
493	860	MCCOLL ROAD	94SB4910	343	1.210
494	898	SA AVENUE N	97SA1695	1535	1.208
495	504	SOUTH SANTA ROSA	94SB7485	1191	1.207
496	148	MORRIS STREET	94CS5655	360	1.206
497	506	HAMLIN	97AB3270	878	1.203
498	1051	VICTORIA POWER PLANT	94CN8170	834	1.201
499	950	WEST MCALLEN	94SB4505	1905	1.201
500	695	SAND ROAD	97AB5655	607	1.201
501	490	GOODWIN	94SB4380	1658	1.200
502	1162	AB ELMDALE	97AB4085	45	1.200
503	392	POLK AVENUE	94SB4180	1282	1.198
504	1064	AB OIL MILL	97AB3895	137	1.197
505	852	PALMVIEW	94SB9680	1048	1.195
506	691	AB SHELTON ST	97AB3660	652	1.193
507	609	MELVIN	97SA4955	83	1.193
508	897	SA GRAPE CREEK	97SA5365	843	1.185
509	308	WEST OSO	94CS9095	1682	1.184
510	495	POLK AVENUE	94SB4170	1477	1.179
511	881	SA COKE ST	97SA3905	645	1.178
512	534	HAIN DRIVE	94SB8065	1375	1.177
513	1136	AB EAST 12KV	97AB5760	216	1.176
514	357	NORTH PADRE ISLAND	94CS7900	2411	1.175
515	772	GOODWIN	94SB7380	2056	1.175
516	994	SOUTH MISSION	94SB3940	875	1.173
517	457	DEL RIO CITY	94LA430	2080	1.172
518	372	DEVINE	94LA7100	1129	1.172
519	1209	CLOSNER	94SB4100	2037	1.168
520	808	CARRIZO SPRINGS	94LA910	873	1.167
521	1157	KEPLER	94CS2665	36	1.167
522	1100	STAMFORD	97AB4565	794	1.165
523	82	LA GRULLA	94SB3045	1188	1.164
524	459	KINGSVILLE	94CS1350	396	1.164
525	660	WASHINGTON STREET	94LA2470	452	1.164

## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIFI Ranking	2020 SAIFI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIFI Value
526	873	SAND ROAD	97AB5295	539	1.161
527	839	PALMHURST	94SB2820	1851	1.161
528	709	MINES ROAD	94LA1600	2066	1.160
529	123	ROCKSPRINGS	94LA2600	375	1.160
530	807	BRUNI	94LA1120	276	1.156
531	254	PORTLAND	94CS9370	2098	1.155
532	233	WOOLRIDGE	94CS1110	1653	1.152
533	621	VERNON CITY PLANT	97AB5775	824	1.152
534	835	ARANSAS PASS	94CS8280	622	1.151
535	435	REFUGIO	94CN5120	693	1.150
536	110	WEAVER ROAD	94CN1910	27	1.148
537	475	MERKEL	97AB1895	709	1.148
538	139	YELLOW JACKET	97SA7935	806	1.148
539	811	FULTON	94CS3070	1569	1.146
540	530	SKIDMORE	94CS600	366	1.145
541	466	ASPERMONT	97AB3380	402	1.144
542	742	PARKER	94CN9010	21	1.143
543	210	ALBANY	97AB3540	623	1.141
544	1002	CROWELL	97AB3490	177	1.141
545	513	SA NORTH	97SA3130	232	1.138
546	1052	AIRLINE	94CS8260	1416	1.136
547	1205	AB HARTFORD ST	97AB3690	171	1.135
548	632	ARCADIA	94CS8570	1444	1.134
549	544	SHARYLAND	94SB5105	1973	1.132
550	642	CABANISS	94CS240	1395	1.130
551	196	SA NORTH	97SA3120	1143	1.129
552	1089	MILO	94LA3070	1952	1.128
553	1127	CLOSNER	94SB7505	754	1.126
554	592	AIRLINE	94CS7390	2235	1.125
555	977	AB OVER STREET 12KV	97AB1840	885	1.124
556	918	HARLINGEN SWITCH	94SB5350	966	1.121
557	412	SA SOUTH	97SA3990	752	1.120
558	105	WINTERS	97SA2113	810	1.116
559	439	SAND ROAD	97AB5195	259	1.116
560	112	SPUDDER FLAT	97SA4175	54	1.111
561	461	AB OIL MILL	97AB3900	688	1.110
562	527	QUANAH	97AB3530	335	1.110
563	1047	SAN YGNACIO	94LA16060	520	1.106
564	152	POLK AVENUE	94SB4740	1734	1.104
565	515	KNOX CITY	97AB3390	391	1.100
566	52	PORT ARANSAS	94CS1000	1409	1.098
567	255	SA CONCHO	97SA3325	297	1.098
568	#N/A	READING	94LA1385	1371	1.097
569	156	GOLIAD	94CN6540	1228	1.093
570	1158	ASPERMONT	97AB1070	326	1.089
571	1110	DEL RIO CITY	94LA9850	1039	1.089
572	1031	AB OIL MILL	97AB2785	250	1.088
573	122	VERNON	97AB1750	249	1.084
574	422	SAND ROAD	97AB5290	805	1.083
575	454	SA SOUTH	97SA2595	1065	1.082
576	93	SOUTHSIDE	94CS7955	1063	1.081
577	396	UVALDE	94LA9770	509	1.081
578	460	GOVERNMENT WELLS	94LA7240	224	1.080

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### AEP Texas Inc.

2021 SAIFI Ranking	2020 SAIFI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIFI Value
579	441	SA JACKSON ST	97SA4265	791	1.080
580	925	BRUNI	94LA1100	612	1.077
581	205	SA WALNUT ST	97SA3920	912	1.076
582	601	AB REBECCA LANE	97AB6915	999	1.073
583	1000	SIERRA VISTA	94LA8205	1181	1.072
584	968	HIGHWAY 9	94CS6730	547	1.069
585	708	ANNA STREET	94LA2250	1533	1.069
586	113	AB SHELTON ST	97AB3040	175	1.069
587	1039	CLYDE	97AB1755	135	1.067
588	983	GATEWAY	94LA5055	1817	1.066
589	573	CITRUS CITY	94SB3470	1674	1.066
590	746	RAYMONDVILLE #2	94SB3240	927	1.064
591	607	RUSSEK STREET	97SA11370	206	1.063
592	801	NORTH ALAMO	94SB3580	947	1.059
593	841	COLLEGE HILLS	97SA6145	998	1.059
594	738	SA GRAPE CREEK	97SA4700	746	1.055
595	161	WESLACO UNIT	94SB7630	2643	1.054
596	328	COTULLA	94LA610	728	1.054
597	1019	ESCONDIDO	94LA5730	2906	1.053
598	1231	PECAN BAYOU	97AB530	19	1.053
599	1151	AB CANYON ROCK	97AB5025	58	1.052
600	274	BARNHART	97SA3725	138	1.051
601	739	PHARR	94SB1640	1452	1.050
602	939	ABILENE PLANT	97AB1570	966	1.046
603	764	MELVIN	97SA940	45	1.044
604	564	AB ONYX REA	97AB3260	141	1.043
605	443	MOCKINGBIRD	94CN370	48	1.042
606	631	ANSON 12KV	97AB6635	405	1.040
607	1118	SIERRA VISTA	94LA3540	1105	1.039
608	1174	TRENT	97AB2850	26	1.038
609	1256	BENTSEN	94SBSH115	341	1.035
610	1078	TWILIGHT TRAIL	97AB4285	1154	1.032
611	136	SA CONCHO	97SA1700	541	1.028
612	1167	AB SHELTON ST	97AB3145	1081	1.027
613	542	AB REBECCA LANE	97AB2710	266	1.026
614	688	SA LAKE DR	97SA6030	761	1.026
615	1055	AB HARTFORD ST	97AB3820	918	1.026
616	483	SANTO NINO	94LA70	1772	1.025
617	890	NORTH VICTORIA	94CN1470	476	1.025
618	282	MILO	94LA6940	463	1.019
619	#N/A	SAND CRAB	94CN6735	521	1.013
620	639	VALERA HUMBLE	97SA7015	78	1.013
621	643	RODD FIELD	94CS245	698	1.010
622	617	BEN FICKLIN	97SA6185	592	1.008
623	1084	AB SHELTON ST	97AB3435	296	1.007
624	626	MORAN	97AB2107	216	1.005
625	#N/A	HOEFFS ROAD	97SA15680	10	1.000
626	1	CABANISS	94CS80	95	1.000
627	1239	KNOX CITY	97AB3985	25	1.000
628	1224	AB HARTFORD ST	97AB3685	366	1.000
629	1007	SOUTH MCALLEN	94SB3640	198	1.000
630	366	RUNGE	94CN4465	373	0.997
631	151	POLK AVENUE	94SB4900	1949	0.993

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### AEP Texas Inc.

2021 SAIFI Ranking	2020 SAIFI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIFI Value
632	164	WOODSBORO	94CS8330	295	0.983
633	343	TRENT	97AB4245	183	0.973
634	304	LULING - LCRA	94CN20	270	0.963
635	195	ASPR CONTINENTAL	97AB3830	27	0.963
636	627	STADIUM	94LA7810	1324	0.958
637	1012	HALL ACRES ROAD	94SB9595	1569	0.957
638	553	HAROLD	97AB1495	23	0.957
639	1096	MILO	94LA3065	21	0.952
640	310	MUSTANG ISLAND	94CS8510	497	0.952
641	619	ABILENE PLANT	97AB1735	88	0.943
642	409	LYTLE	94LA2850	749	0.925
643	809	CASA BLANCA	94CS1300	293	0.925
644	5	FALFURRIAS	94LA1080	459	0.917
645	605	VERNON CITY PLANT	97AB5770	95	0.916
646	657	CRYSTAL CITY	94LA1425	1197	0.916
647	367	KLEBERG	94CS6000	1434	0.907
648	662	SA COKE ST	97SA4915	19	0.895
649	389	ARCADIA	94CS5020	1508	0.891
650	38	KLEBERG	94CS6410	246	0.890
651	659	WEST OSO	94CS9090	1673	0.889
652	566	NORTH VICTORIA	94CN6390	1512	0.888
653	153	NORTH MCALLEN	94SB2980	1808	0.884
654	383	NORTH MCALLEN	94SB4995	2464	0.884
655	1016	ODEM	94CS5575	77	0.883
656	288	CITRUS CITY	94SB5070	975	0.881
657	724	JOURDANTON	94LA5695	316	0.880
658	371	MOORE FIELD	94SB3960	2175	0.880
659	844	AB VOGEL ST	97AB4650	816	0.877
660	331	PUEBLO	94LA275	2901	0.877
661	262	MALONE	94CN7560	120	0.867
662	514	KINGSVILLE	94CS1670	422	0.858
663	911	SOUTH MISSION	94SB3590	554	0.856
664	34	CRESTONIO	94LA6660	791	0.855
665	#N/A	VALADEZ	94CS9890	1909	0.849
666	278	SAN BENITO	94SB3920	1630	0.847
667	889	WEST MCALLEN	94SB4515	885	0.846
668	1032	SA CONCHO	97SA1715	291	0.842
669	26	LA PRYOR	94LA2440	737	0.839
670	140	AMISTAD DAM	94LA5450	766	0.834
671	726	CHARLOTTE	94LA2790	204	0.833
672	154	AB MAPLE ST	97AB4070	1075	0.833
673	236	NORTH VICTORIA	94CN7430	1681	0.831
674	267	NORTH EDINBURG	94SB3570	1036	0.829
675	548	CHOKE CANYON	94CN9255	353	0.824
676	793	SAN DIEGO	94LA2880	1319	0.820
677	776	ABILENE PLANT	97AB1565	279	0.814
678	750	CARRIZO SPRINGS	94LA860	32	0.813
679	1009	LAREDO PLANT	94LA8565	1449	0.810
680	126	TAFT	94CS1260	190	0.805
681	797	DEVINE	94LA7090	1054	0.805
682	947	SA GRAPE CREEK	97SA5220	715	0.804
683	1054	SINTON	94CS1750	295	0.790
684	753	SOUTHSIDE	94CS8035	1091	0.772

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2021 SAIFI Ranking	2020 SAIFI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIFI Value
685	723	NORTH MERCEDES	94SB4860	1520	0.771
686	134	SOUTHSIDE	94CS7995	1550	0.770
687	940	BEEVILLE	94CN490	960	0.768
688	411	MESQUITE	94SB3360	995	0.760
689	73	EDROY	94CS6980	198	0.753
690	1179	PAISANO	97SAPAISAN	157	0.752
691	697	LANTANA	94CS7150	272	0.750
692	6	LA PRYOR	94LA570	175	0.749
693	19	ALPINE 12KV	97SA3875	639	0.745
694	1067	SOUTH EAST EDINBURG	94SB6580	951	0.744
695	501	BAIRD	97AB5125	595	0.743
696	327	QUANAH	97AB1830	628	0.742
697	1085	HAROLD	97AB3055	27	0.741
698	425	BAY CITY	94CN2700	1071	0.739
699	921	ANNA STREET	94LA5780	660	0.738
700	864	CISCO	97AB6530	529	0.733
701	575	BUENA VISTA	94LA9385	878	0.730
702	125	ARCADIA	94CS1460	2475	0.728
703	669	POINT COMFORT	94CN6060	373	0.727
704	292	TUSCOLA	97AB3305	1193	0.725
705	689	FREER	94LA6320	160	0.725
706	666	ROCHESTER	97AB3290	80	0.725
707	905	UNITEC	94LA3085	116	0.724
708	623	CRESTONIO	94LA260	1786	0.723
709	792	ASHERTON	94LA5495	612	0.711
710	680	FULTON	94CS2020	3410	0.705
711	978	GARCENO	94SB5490	1454	0.703
712	970	LIVE OAK	94CS1070	3125	0.703
713	1183	HAINE DRIVE	94SB3490	1189	0.694
714	289	VALADEZ	94CS3140	1818	0.690
715	51	SHROPSHIRE	94CN3575	32	0.688
716	84	EL CAMPO	94CN2860	1511	0.684
717	213	MAVERICK	94LA9680	825	0.684
718	486	HIGHWAY 9	94CS6760	1022	0.680
719	686	SOUTHSIDE	94CS7905	1824	0.677
720	1248	ABILENE PLANT	97AB1740	18	0.667
721	815	MORAN	97AB2108	318	0.664
722	730	READING	94LA1445	526	0.663
723	249	NIXON	94CN3300	608	0.663
724	364	QUANAH	97AB3975	210	0.662
725	1006	KENEDY S.S.	94CN8340	327	0.651
726	1042	NORTH VICTORIA	94CN7770	814	0.646
727	931	SAN DIEGO	94LA2890	1028	0.645
728	497	CHASE FIELD	94CN460	14	0.643
729	1030	TATTON	94CS950	545	0.642
730	661	PRIMERA	94SB7020	1483	0.640
731	725	ALICE	94LA1770	1643	0.638
732	218	GARWOOD CITY	94CN2560	201	0.637
733	295	KNIPPA	94LA6535	22	0.636
734	222	RANDADO	94LA8360	167	0.635
735	127	HOLCOMB	94LA2240	447	0.633
736	896	INGLESIDE CITY	94CS6040	426	0.627
737	188	GANADO	94CN5795	488	0.625



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738	480	EAST HARRISON	94SB4310	1215	0.618
739	930	BAY CITY	94CN2050	657	0.613
740	400	HAIN DRIVE	94SB9690	620	0.613
741	#N/A	SINTON	94CS180	240	0.613
742	882	SAN BENITO	94SB4945	1738	0.612
743	891	ALICE	94LA1790	450	0.611
744	39	STADIUM	94LA7490	1315	0.604
745	1217	PRIMERA	94SB5705	1224	0.600
746	523	VICTORIA POWER PLANT	94CN1390	1093	0.599
747	40	HARLINGEN	94SB380	262	0.595
748	302	KLEBERG	94CS1560	1477	0.594
749	1206	TAYLOR	94SBSH111	711	0.586
750	283	PREMONT	94LA6610	832	0.585
751	732	CARANCAHUA	94CN5870	468	0.583
752	264	RODD FIELD	94CS205	2143	0.580
753	500	FALFURRIAS	94LA1070	949	0.580
754	958	KEMPER EXXON HUMBLE	97SA72103	26	0.577
755	773	TRADE ZONE	94SB2060	52	0.577
756	836	ARANSAS PASS	94CS1250	640	0.573
757	165	PORT ISABEL S.S.	94SB9295	2424	0.572
758	926	TATTON	94CS8200	1177	0.569
759	467	EAGLE LAKE	94CN310	729	0.564
760	980	RAYMONDVILLE #1	94SB3130	314	0.564
761	681	RACHAL	94LA8145	371	0.563
762	915	SARAGOSA	97SA1552	783	0.562
763	263	STAMFORD	97AB2815	716	0.561
764	150	LAREDO PLANT	94LA9305	1068	0.560
765	800	CARRIZO SPRINGS	94LA750	582	0.558
766	625	PUTNAM	97AB2131	126	0.556
767	649	AIRLINE	94CS9605	712	0.551
768	137	CHILLICOTHE	97AB4525	120	0.550
769	245	MARFA	97SA1905	1163	0.549
770	1072	LEARY LANE	94CN1540	794	0.543
771	1175	WAGGONER	97AB5900	26	0.538
772	861	LEARY LANE	94CN1890	1632	0.538
773	1254	UNIVERSITY	94LA930	92	0.533
774	1180	HIGHWAY 9	94CS9830	141	0.532
775	376	SAN BENITO	94SB4030	2794	0.532
776	1191	VALADEZ	94CS2500	2524	0.529
777	683	NIXON	94CN6630	643	0.529
778	859	BERCLAIR	94CN990	203	0.527
779	920	DILLEY	94LA6400	886	0.524
780	1113	AIRLINE	94CS9390	1352	0.521
781	169	SOUTHSIDE	94CS8005	748	0.520
782	374	WEIL TRACT (138/12KV)	94CS2520	83	0.518
783	59	BIG WELLS	94LA2630	29	0.517
784	850	STADIUM	94LA6950	430	0.514
785	70	SOUTHSIDE	94CS8025	1066	0.512
786	403	VERNON	97AB4275	590	0.507
787	734	EAGLE PASS CITY	94LA7060	870	0.506
788	803	MOCKINGBIRD	94CN305	323	0.502
789	120	RIO GRANDE CITY	94SB3740	2397	0.501
790	48	POWELL FIELD	97SA2528	24	0.500

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791	1103	ASHLAND	94SBSH301	12	0.500
792	1128	SHAFTER	97SA5110	50	0.500
793	775	FRIO	94LA1815	1067	0.499
794	225	MARFA	97SA1900	790	0.494
795	458	PALMVIEW	94SB6790	2454	0.493
796	664	LA GRULLA	94SB5005	1208	0.488
797	434	BEEVILLE	94CN2200	749	0.487
798	705	KARNES CITY	94CN2325	668	0.487
799	387	GRETA	94CN7890	235	0.485
800	899	MCCOLL ROAD	94SB2810	2277	0.479
801	748	AB MCMURRY	97AB3245	795	0.477
802	192	ENCINAL	94LA2160	232	0.474
803	55	MESQUITE	94SB2900	924	0.472
804	795	HARLINGEN SWITCH	94SB320	1601	0.472
805	354	HEARN ROAD	94CS2220	1664	0.471
806	519	BROOKHOLLOW	94CN7580	504	0.470
807	710	ARCADIA	94CS6930	1504	0.470
808	406	ROBERT LEE	97SA4125	271	0.469
809	995	HOMEPORT	94CS4665	423	0.468
810	209	HEIGHTS	94LA9400	1471	0.466
811	1003	GARCENO	94SB2165	1963	0.465
812	678	EOLA	97SA4950	213	0.460
813	#N/A	RESACA	94SB8700	637	0.460
814	1094	HIGHLAND	97SA6385	1338	0.459
815	733	SOUTH EAST EDINBURG	94SB4570	1927	0.459
816	41	HARLINGEN	94SB660	1258	0.459
817	955	NORTH VICTORIA	94CN1580	1039	0.457
818	360	LIVE OAK	94CS1080	1768	0.450
819	1219	KLEIMANN	94CN425	612	0.449
820	333	LOS FRESNOS	94SB7270	4885	0.449
821	168	PLEASANTON	94LA9505	1778	0.447
822	682	EAST HARRISON	94SB4360	1782	0.446
823	736	ELSA	94SB690	2398	0.445
824	556	PORT ISABEL S.S.	94SB4070	274	0.445
825	1083	TYNAN	94CS4000	27	0.444
826	471	MORRIS STREET	94CS8840	654	0.443
827	24	VILLA CAVAZOS	94SB7615	1113	0.442
828	1086	IRAAN	97SA2050	526	0.441
829	679	SANTO NINO	94LA515	1642	0.440
830	235	DEL MAR	94LA490	798	0.439
831	576	JOURDANTON	94LA880	1058	0.427
832	869	CISCO	97AB7400	830	0.425
833	261	SONORA 138 SUB	97SA4810	889	0.425
834	423	BOBCAT HILLS	97SA6655	76	0.421
835	949	EDITH HUMBLE	97SA6170	81	0.420
836	535	LOLITA	94CN6330	31	0.419
837	135	CHARLOTTE	94LA1960	498	0.408
838	492	SHARYLAND	94SB2150	397	0.406
839	854	JUNCTION	97SA10805	805	0.405
840	531	PUEBLO	94LA9870	1439	0.402
841	419	CHOKE CANYON	94CN5390	414	0.399
842	62	SA WALNUT ST	97SA3925	886	0.398
843	917	ASPR CONTINENTAL	97AB4800	33	0.394

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844	692	PUEBLO	94LA130	2542	0.394
845	413	FULTON	94CS6070	1757	0.393
846	916	CITRUS CITY	94SB6000	2333	0.393
847	445	GATEWAY	94LA390	3532	0.389
848	505	NORTH WESLACO	94SB4830	530	0.389
849	758	BEEVILLE	94CN300	1664	0.388
850	337	KITTIE WEST	94CN3765	316	0.386
851	696	SOUTH MISSION	94SB3980	1931	0.386
852	444	HEIGHTS	94LA6820	1936	0.382
853	520	CLYDE	97AB1760	466	0.380
854	728	SA SOUTH	97SA3995	782	0.377
855	972	KNIPPA	94LA6365	329	0.377
856	593	LAS CRUSES	94LA8530	80	0.375
857	969	CATARINA	94LA2380	187	0.374
858	907	STADIUM	94LA8540	1691	0.373
859	401	AB VOGEL ST	97AB4560	1492	0.372
860	957	EL CAMPO	94CN7710	1078	0.371
861	540	VERNON	97AB5000	251	0.371
862	831	EL GATO	94SB910	2610	0.370
863	1202	AIRLINE	94CS9030	410	0.366
864	1108	ROBY	97AB3795	74	0.365
865	108	MORRIS STREET	94CS2515	1039	0.365
866	178	PEACOCK	97AB1375	44	0.364
867	1251	SANTA RITA	97SA1140	11	0.364
868	704	BRONTE	97SA3590	179	0.363
869	276	PHARAOH	94CS5185	1266	0.361
870	1038	EL CAMPO	94CN5745	936	0.356
871	876	AB WALNUT ST	97AB3785	583	0.355
872	402	REFUGIO	94CN1210	192	0.354
873	622	TWILIGHT TRAIL	97AB5855	253	0.352
874	426	NORTH ALAMO	94SB4370	1636	0.351
875	1053	AIRLINE	94CS7270	1035	0.350
876	1040	AB SHELTON ST	97AB3060	1602	0.350
877	456	CRYSTAL CITY	94LA2170	741	0.350
878	871	SA JACKSON ST	97SA4690	1140	0.349
879	1188	RESACA	94SB7110	580	0.343
880	398	ROCKPORT	94CS5930	1386	0.343
881	634	MAGRUDER	94CN6700	1367	0.339
882	693	MAGRUDER	94CN7870	1264	0.339
883	104	BEN FICKLIN	97SA6175	582	0.338
884	250	SOUTH MCALLEN	94SB3790	1462	0.335
885	#N/A	BLACK CAT	94CN2960	1432	0.331
886	630	LEARY LANE	94CN1430	1893	0.331
887	1171	MINES ROAD	94LA4275	252	0.329
888	385	DEL RIO CITY	94LA440	1106	0.328
889	963	KLEBERG	94CS9395	1268	0.328
890	1033	EL CAMPO	94CN7260	535	0.327
891	#N/A	BLACK CAT	94CN3175	101	0.327
892	1141	PHARR	94SB1625	1206	0.326
893	832	FRIO	94LA2270	992	0.326
894	982	TYNAN	94CS1855	139	0.324
895	404	ROUNDTOP	97AB4490	53	0.321
896	650	ANNA STREET	94LA900	2856	0.319

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897	#N/A	KLEIMANN	94CN565	569	0.315
898	503	KITTIE WEST	94CN3760	241	0.311
899	375	RUNGE	94CN3250	270	0.311
900	440	GANADO	94CN5815	603	0.310
901	464	HARLINGEN SWITCH	94SB4230	1365	0.310
902	482	BISHOP	94CS2690	636	0.310
903	919	SHARYLAND	94SB5635	2288	0.307
904	529	SEAWALL	94CS9450	298	0.305
905	216	HIGHWAY 9	94CS7200	656	0.300
906	479	SA MATHIS FIELD	97SA4790	190	0.300
907	453	CHILDRESS 69	97AB1480	297	0.300
908	1242	AB EAST 12KV	97AB4825	414	0.297
909	452	NORTH VICTORIA	94CN2240	744	0.297
910	293	FULTON	94CS440	2026	0.296
911	964	READING	94LA1275	71	0.296
912	1212	PICACHO	94LA1230	1030	0.295
913	187	WESLACO UNIT	94SB7455	1230	0.295
914	786	HARLINGEN	94SB370	1239	0.292
915	755	IRAAN	97SA2055	233	0.292
916	1029	YOUNG	94SB7145	1722	0.292
917	1213	CABANISS	94CS820	1218	0.287
918	219	CHILDRESS 69	97AB1800	547	0.287
919	943	SOUTH PADRE ISLAND	94SB5850	1359	0.287
920	#N/A	SAND CRAB	94CN9235	1198	0.281
921	1140	JUNCTION	97SA10795	810	0.280
922	307	CHILLICOTHE	97AB4530	496	0.280
923	1020	ASHERTON	94LA4175	86	0.279
924	1186	WASHINGTON STREET	94LA2360	205	0.278
925	928	NORDHEIM	94CN3380	178	0.275
926	838	KLEBERG	94CS8140	645	0.274
927	729	SA EMERSON ST	97SA4860	235	0.272
928	1068	HIGHLAND	97SA6380	468	0.271
929	35	SOUTH EAST EDINBURG	94SB4550	1354	0.271
930	703	MERKEL	97AB1890	580	0.271
931	945	CROSS PLAINS	97AB1795	440	0.268
932	345	POLK AVENUE	94SB4190	1728	0.266
933	606	TALPA ATLANTIC	97SA5180	64	0.266
934	1021	VICTORIA POWER PLANT	94CN8070	599	0.265
935	938	EL GATO	94SB890	3417	0.262
936	424	HEIGHTS	94LA2100	1974	0.260
937	1018	EAST HARRISON	94SB3030	684	0.260
938	707	MAGRUDER	94CN7690	548	0.259
939	54	NORTH EDINBURG	94SB4240	1154	0.259
940	399	AB MCMURRY	97AB4360	1120	0.259
941	702	JOURDANTON	94LA8725	31	0.258
942	1090	GOODWIN	94SB3530	335	0.257
943	1120	NORDHEIM	94CN4275	82	0.256
944	160	POLK AVENUE	94SB4520	966	0.256
945	432	TAFT	94CS5230	835	0.254
946	878	PUEBLO	94LA95	1377	0.253
947	373	GATEWAY	94LA350	2007	0.253
948	671	SAN BENITO	94SB4135	1393	0.252
949	1259	PONDER KENNEDY	97SA50208	12	0.250

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950	306	POLK AVENUE	94SB4610	157	0.248
951	508	LANTANA	94CS4095	194	0.247
952	885	SHEFFIELD	97SA6430	207	0.246
953	825	BUSH KNOB	97AB5200	298	0.245
954	416	JOURDANTON	94LA250	772	0.245
955	#N/A	ROCKPORT	94CS5130	553	0.244
956	956	ARANSAS PASS	94CS660	713	0.244
957	624	SEAWALL	94CS9420	808	0.243
958	604	CITRUS CITY	94SB7985	1192	0.242
959	762	FASHING	94CN360	33	0.242
960	44	WEST MCALLEN	94SB4595	1200	0.242
961	537	AILEEN	97AB4605	428	0.241
962	50	SOUTH EAST EDINBURG	94SB5045	1740	0.239
963	405	VERNON	97AB1520	731	0.235
964	1126	COLLEGE HILLS	97SA4840	213	0.235
965	740	ROMA	94SB3060	1626	0.233
966	784	KARNES CITY	94CN2340	795	0.233
967	45	ROBSTOWN	94CS1650	362	0.232
968	656	WASHINGTON STREET	94LA6525	2743	0.232
969	182	NORTH MCALLEN	94SB2750	3040	0.231
970	377	POWELL FIELD	97SA2529	13	0.231
971	644	AB RAINEY CREEK	97AB4550	998	0.229
972	906	MATADOR	97AB3090	310	0.229
973	#N/A	RESACA	94SB9975	547	0.229
974	731	SANTO NINO	94LA80	1921	0.227
975	1112	SOUTH MISSION	94SB4650	1021	0.225
976	1119	FT DAVIS	97SA3345	528	0.223
977	414	NORTH EDINBURG	94SB560	2112	0.223
978	582	CHILDRESS 69	97AB4865	771	0.223
979	914	HOLLY	94CS7740	2220	0.223
980	259	ALAZAN	94CS2740	36	0.222
981	336	KENEDY	94CN6270	553	0.219
982	172	LA GRULLA	94SB6150	1678	0.219
983	1187	YOUNG	94SB3310	1862	0.219
984	610	EAGLE PASS CITY	94LA2650	1364	0.218
985	961	AB MCMURRY	97AB4350	700	0.217
986	1121	ESCONDIDO	94LA3775	218	0.211
987	1148	SA CONCHO	97SA1705	921	0.208
988	450	NORTH EDINBURG	94SB3810	1458	0.206
989	759	FT DAVIS	97SA4515	994	0.206
990	806	WASHINGTON STREET	94LA2350	3063	0.204
991	790	FT CHADBOURNE	97SA6520	556	0.203
992	1125	BRADY	97SA5015	202	0.203
993	912	NORTH VICTORIA	94CN7860	1509	0.200
994	#N/A	SANTA RITA	97SA1135	10	0.200
995	1236	FLOMOT	97AB81335	30	0.200
996	966	SA LAKE DR	97SA5880	740	0.199
997	1005	CISCO	97AB9715	997	0.197
998	1057	RIO GRANDE CITY	94SB3230	2724	0.196
999	993	BRONTE	97SA4160	215	0.195
1000	847	SHARYLAND	94SB6745	2136	0.195
1001	252	WESLACO UNIT	94SB2195	1121	0.194
1002	183	DILLEY	94LA510	562	0.192

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1003	204	HEARN ROAD	94CS9665	691	0.191
1004	516	HAMILTON ROAD	94LA9655	1319	0.190
1005	533	AB ELM CREEK	97AB4775	890	0.190
1006	1011	PADUCAH CITY	97AB1930	570	0.189
1007	559	THROCKMORTON	97AB2090	74	0.189
1008	1022	MILO	94LA5020	111	0.189
1009	1150	MILO	94LA8365	2086	0.188
1010	1014	AB ELM CREEK	97AB1815	393	0.188
1011	975	SA COKE ST	97SA4910	1805	0.187
1012	1200	ABILENE PLANT	97AB1575	616	0.187
1013	1164	ALPINE 12KV	97SA3155	1366	0.186
1014	743	MCCOLL ROAD	94SB4790	2093	0.186
1015	#N/A	BEN FICKLIN	97SA14065	778	0.185
1016	1222	AB OVER STREET 12KV	97AB1635	519	0.185
1017	647	MAYBERRY	94SB1790	1822	0.185
1018	900	LEARY LANE	94CN6175	2456	0.185
1019	1221	PIRATE	94CS3490	473	0.182
1020	810	CHILDRESS 20TH ST	97AB5720	182	0.181
1021	747	BUENA VISTA	94LA9035	2036	0.181
1022	1142	BAIRD	97AB5120	469	0.181
1023	323	HEIGHTS	94LA2450	2105	0.180
1024	227	RUSSEK STREET	97SA7705	1346	0.179
1025	856	AB MCMURRY	97AB3235	796	0.178
1026	74	HAWLEY	97AB4455	652	0.178
1027	1260	TEX/NEW MEX PIPELINE	97SA9045	17	0.176
1028	560	MUNDAY	97AB2080	494	0.170
1029	230	ROTAN	97AB1860	711	0.167
1030	554	THOMASTON	94CN9580	42	0.167
1031	1008	TURKEY	97AB2980	330	0.167
1032	684	AB RAINEY CREEK	97AB4220	210	0.167
1033	583	ARANSAS PASS	94CS650	1157	0.166
1034	996	DEL RIO CITY	94LA9790	2341	0.166
1035	1210	GILA	94CS7840	1005	0.164
1036	1152	EAST HARRISON	94SB3000	543	0.164
1037	101	SA WALNUT ST	97SA4635	1570	0.162
1038	1199	LAREDO PLANT	94LA8705	173	0.162
1039	769	CISCO	97AB1020	476	0.162
1040	215	SA EMERSON ST	97SA4630	1258	0.161
1041	802	AB VOGEL ST	97AB4405	592	0.160
1042	228	NORTH MCALLEN	94SB3830	1418	0.159
1043	481	HEIGHTS	94LA2390	1724	0.157
1044	#N/A	CABANISS	94CS710	172	0.157
1045	536	CEDAR GAP (TEC)	97AB4115	963	0.157
1046	846	PADUCAH CITY	97AB1935	281	0.157
1047	754	AB OVER STREET 12KV	97AB1645	801	0.156
1048	587	MCKENZIE ROAD	94CS150	26	0.154
1049	1093	AB EAST 12KV	97AB4820	1157	0.154
1050	828	ALPINE 12KV	97SA3160	1043	0.153
1051	380	MERTZON (CVEC)	97SA1530	339	0.150
1052	1122	ARANSAS PASS	94CS9130	449	0.149
1053	1063	HALL ACRES ROAD	94SB8870	2489	0.149
1054	867	STAMFORD	97AB6255	437	0.149
1055	787	SPUR	97AB5170	370	0.149

## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIFI Ranking	2020 SAIFI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIFI Value
1056	131	ROCKSPRINGS	94LA8040	337	0.148
1057	522	MORRIS STREET	94CS8850	421	0.147
1058	1246	MUNDAY REA (BKEC)	97AB2015	21	0.143
1059	910	BRONTE AMBASSADOR	97SA6650	14	0.143
1060	962	GATEWAY	94LA3595	1512	0.142
1061	999	THREE RIVERS	94CN2580	121	0.140
1062	599	SA NORTH	97SA3115	574	0.139
1063	645	AB CANYON ROCK	97AB5035	820	0.139
1064	997	ROCHESTER	97AB3295	217	0.138
1065	1059	SA JACKSON ST	97SA4695	563	0.137
1066	476	HEIGHTS	94LA6810	2118	0.134
1067	988	GONZALES	97SA15390	1384	0.134
1068	974	SILVER	97SA4295	15	0.133
1069	344	COTULLA	94LA90	1062	0.132
1070	238	RANKIN	97SA6400	69	0.130
1071	83	RIO BRAVO	94LA300	786	0.130
1072	94	SONORA	97SA2045	612	0.129
1073	1145	ALPINE 12KV	97SA6820	785	0.129
1074	1023	DEL MAR	94LA7930	1901	0.128
1075	1046	EDEN	97SA3195	524	0.128
1076	363	PHARR	94SB1650	892	0.128
1077	#N/A	PANTERA	94SB1315	3017	0.127
1078	2	POLK AVENUE	94SB4600	158	0.127
1079	1163	SOUTHSIDE	94CS5345	502	0.125
1080	1253	JOSLIN POWER PLANT	94CN8720	24	0.125
1081	1139	REFUGIO	94CN1170	850	0.125
1082	798	CHRISTOVAL	97SA6615	442	0.124
1083	1098	HOLLY	94CS1220	3402	0.123
1084	712	LA GRULLA	94SB4120	1515	0.123
1085	1106	PRIMERA	94SB6085	1464	0.123
1086	1177	COTULLA	94LA110	57	0.123
1087	600	DEL MAR	94LA2120	1325	0.120
1088	339	QUANAH	97AB3100	559	0.120
1089	986	NEW BLUFFS	97SA9110	726	0.120
1090	546	THROCKMORTON	97AB3190	644	0.118
1091	16	RIO PECOS	97SA513	17	0.118
1092	706	MCCOLL ROAD	94SB4400	1134	0.116
1093	1176	ABILENE PLANT	97AB1915	52	0.115
1094	549	SA NORTH	97SA3125	1400	0.115
1095	816	EDNA	94CN5785	1285	0.114
1096	653	TYNAN	94CS4010	45	0.111
1097	1204	BEEVILLE	94CN2380	217	0.111
1098	768	AB SHELTON ST	97AB3050	661	0.110
1099	714	SOUTH PADRE ISLAND	94SB4675	183	0.109
1100	901	EDEN	97SA1780	229	0.109
1101	699	SIERRA VISTA	94LA7360	1671	0.108
1102	1077	MCCOLL ROAD	94SB5485	1059	0.108
1103	493	LEARY LANE	94CN6005	1376	0.108
1104	1043	ZACATE CREEK	94LA2665	1717	0.105
1105	1081	WEST MCALLEN	94SB4965	959	0.104
1106	502	WASHINGTON STREET	94LA6355	961	0.104
1107	473	HALL ACRES ROAD	94SB5465	1448	0.101
1108	1124	LAREDO PLANT	94LA8505	1052	0.101

## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIFI Ranking	2020 SAIFI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIFI Value
1109	595	AB DYESS 1	97AB1775	826	0.100
1110	1249	JOSLIN POWER PLANT	94CN7915	10	0.100
1111	388	ROARING SPRINGS	97AB6155	30	0.100
1112	494	BROOKHOLLOW	94CN7190	280	0.100
1113	1037	EAST HARRISON	94SB3080	470	0.100
1114	1079	SA JACKSON ST	97SA4685	1463	0.100
1115	636	SA AVENUE N	97SA1730	822	0.100
1116	510	CLARKWOOD	94CS7220	936	0.098
1117	1024	CROWELL	97AB3980	477	0.096
1118	1192	COLLEGE HILLS	97SA5520	436	0.096
1119	463	GREGORY	94CS2420	909	0.096
1120	902	COMSTOCK	94LA230	181	0.094
1121	752	ZAPATA	94LA8290	997	0.093
1122	1102	ZACATE CREEK	94LA2675	1220	0.093
1123	1034	KENEDY S.S.	94CN6750	65	0.092
1124	1154	WEINERT	97AB6490	132	0.091
1125	433	CLYDE	97AB3630	629	0.089
1126	1194	TWILIGHT TRAIL	97AB4290	1218	0.089
1127	1049	MATADOR	97AB3030	215	0.088
1128	562	CEDAR GAP (TEC)	97AB5445	500	0.088
1129	1087	SA EMERSON ST	97SA4625	421	0.088
1130	1060	BENJAMIN (BEPC)	97AB5680	160	0.088
1131	1088	RODD FIELD	94CS3010	2072	0.087
1132	488	BALLINGER	97SA4395	532	0.085
1133	72	RUSSEK STREET	97SA250	143	0.084
1134	612	SPUDDER FLAT	97SA4180	48	0.083
1135	981	ANSON 12KV	97AB6630	710	0.083
1136	1035	SA SOUTHLAND HILLS	97SA5455	1437	0.083
1137	174	EAGLE PASS CITY	94LA2745	930	0.082
1138	507	SA LAKE DR	97SA5865	1065	0.082
1139	571	AFTON	97AB2310	245	0.082
1140	438	PLASTERCO (MWEC)	97AB2720	111	0.081
1141	1050	AB REBECCA LANE	97AB5550	717	0.081
1142	521	RANKIN	97SA6405	371	0.081
1143	1178	FT CHADBOURNE	97SA6515	87	0.080
1144	1111	ROBERT LEE	97SA4120	547	0.080
1145	922	AB ELM CREEK	97AB1810	835	0.080
1146	496	CASA BLANCA	94CS5440	138	0.080
1147	588	GONZALES	97SA14685	1087	0.079
1148	347	SARAGOSA	97SA14080	51	0.078
1149	1025	CHILDRESS 20TH ST	97AB5725	667	0.078
1150	1133	SIERRA VISTA	94LA7170	1451	0.078
1151	805	SAN BENITO	94SB3860	244	0.078
1152	1066	VERNON	97AB3340	530	0.077
1153	1220	HEINES	94CS7875	1823	0.076
1154	#N/A	PANTERA	94SB1915	869	0.076
1155	1197	SA AVENUE N	97SA1655	488	0.076
1156	1080	ANSON REA (SEC)	97AB5215	251	0.076
1157	1062	AIRLINE	94CS8890	516	0.076
1158	79	UNITEC	94LA4715	40	0.075
1159	69	STADIUM	94LA7800	686	0.074
1160	935	ANNA STREET	94LA780	472	0.074
1161	1129	BRONTE	97SA3560	258	0.074



## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIFI Ranking	2020 SAIFI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIFI Value
1162	791	THREE RIVERS	94CN2010	314	0.073
1163	142	AILEEN	97AB6435	847	0.072
1164	1193	ROBY	97AB2276	325	0.071
1165	865	CLOSNER	94SB6430	1023	0.070
1166	1073	AB MCMURRY	97AB4355	1026	0.070
1167	946	MCCOLL ROAD	94SB1655	1488	0.070
1168	851	AB WALNUT ST	97AB3110	676	0.070
1169	1184	CHILDRESS 69	97AB2800	348	0.069
1170	720	DEL MAR	94LA3440	1812	0.068
1171	1065	SA JACKSON ST	97SA4260	666	0.068
1172	1101	NEW BLUFFS	97SA7280	1588	0.067
1173	1168	TWILIGHT TRAIL	97AB3150	725	0.066
1174	1207	AB WALNUT ST	97AB3445	62	0.065
1175	875	AB COUNTRY CLUB	97AB4735	124	0.065
1176	1143	AB MCMURRY	97AB3240	772	0.063
1177	1169	TWILIGHT TRAIL	97AB11500	1041	0.062
1178	1156	SA EMERSON ST	97SA4620	433	0.062
1179	942	YOUNG	94SB4435	840	0.062
1180	586	HIGHLAND	97SA6375	295	0.061
1181	563	SOUTH MCALLEN	94SB3935	956	0.061
1182	1123	SOUTH MCALLEN	94SB5065	149	0.060
1183	1165	SA AVENUE N	97SA1975	323	0.059
1184	75	QUANAH	97AB100	90	0.056
1185	1114	UNIVERSITY	94LA465	919	0.054
1186	543	WASHINGTON STREET	94LA7015	1557	0.053
1187	303	RAYMONDVILLE #2	94SB4160	342	0.053
1188	1074	ROARING SPRINGS	97AB2065	218	0.050
1189	1130	SA SOUTH	97SA4795	1355	0.050
1190	547	AB COUNTRY CLUB	97AB4730	542	0.048
1191	585	BALLINGER	97SA4370	838	0.048
1192	270	SA WALNUT ST	97SA3910	150	0.047
1193	1026	WYLIE	97AB6495	365	0.047
1194	#N/A	SAND CRAB	94CN6800	1138	0.046
1195	589	WYLIE	97AB2675	810	0.046
1196	998	AB OVER STREET 12KV	97AB3140	681	0.046
1197	620	AFTON	97AB2355	44	0.045
1198	1071	HASKELL 12KV	97AB5240	645	0.045
1199	117	PAINT ROCK	97SA1110	67	0.045
1200	417	SA MATHIS FIELD	97SA5100	291	0.045
1201	577	AB EAST 12KV	97AB4830	988	0.045
1202	442	HAMLIN	97AB3775	249	0.044
1203	1070	MAYBERRY	94SB5770	888	0.044
1204	#N/A	DUST DEVIL	94LA1495	2034	0.044
1205	1036	SIERRA VISTA	94LA9900	2314	0.044
1206	1082	AB SHELTON ST	97AB3045	550	0.044
1207	517	HIGHLAND	97SA6370	277	0.043
1208	598	SPUR	97AB260	163	0.043
1209	#N/A	SAND CRAB	94CN8390	541	0.043
1210	1238	AB ONYX REA	97AB3255	24	0.042
1211	960	AB SHELTON ST	97AB4640	658	0.041
1212	#N/A	MAYO	94CS500	25	0.040
1213	330	SA SOUTH	97SA3500	558	0.039
1214	1116	SA SOUTHLAND HILLS	97SA5860	1203	0.037

Service Quality Report to the Public Utility Commission of Texas

**AEP Texas Inc.**

2021 SAIFI Ranking	2020 SAIFI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIFI Value
1215	641	SANTO NINO	94LA645	1431	0.036
1216	971	MAYBERRY	94SB3010	113	0.035
1217	277	UNIVERSITY	94LA950	2698	0.033
1218	1182	SOUTH EAST EDINBURG	94SB4015	376	0.032
1219	937	WEST MCALLEN	94SB4815	661	0.032
1220	1149	SA SOUTHLAND HILLS	97SA5055	854	0.032
1221	365	TRUSCOTT	97AB3845	32	0.031
1222	1170	SANTO NINO	94LA695	1612	0.030
1223	989	SA SOUTHLAND HILLS	97SA5050	886	0.028
1224	121	ARANSAS PASS	94CS8270	399	0.028
1225	555	BALLINGER	97SA4375	1070	0.027
1226	1104	RANKIN	97SA7425	121	0.025
1227	567	PAINT ROCK	97SA5235	137	0.022
1228	1198	UNIVERSITY	94LA920	872	0.019
1229	611	HEINES	94CS2185	1106	0.019
1230	1189	COLLEGE HILLS	97SA4835	483	0.019
1231	603	AB ELM CREEK	97AB1825	216	0.019
1232	10	SA WALNUT ST	97SA3915	715	0.017
1233	362	VALADEZ	94CS8800	1583	0.016
1234	618	KENEDY	94CN1960	68	0.015
1235	796	TRADE ZONE	94SB2220	70	0.014
1236	1195	SPUR	97AB300	214	0.014
1237	670	NEW BLUFFS	97SA3005	294	0.014
1238	1172	AB COUNTRY CLUB	97AB4725	229	0.013
1239	470	NORTH MCCAMEY	97SA6555	843	0.012
1240	985	AB ELM CREEK	97AB1820	97	0.010
1241	1211	KENEDY S.S.	94CN8320	142	0.007
1242	646	COLLEGE HILLS	97SA4845	442	0.007
1243	#N/A	HEINES	94CS8480	150	0.007
1244	#N/A	LAS CRUSES	94LA9865	366	0.005
1245	1166	TAYLOR	94SBSH112	990	0.004
1246	1223	AILEEN	97AB4600	261	0.004
1247	1218	RUSSEK STREET	97SA12295	292	0.003
1248	570	AB REBECCA LANE	97AB5555	1286	0.003
1249	1203	BENTSEN	94SBSH211	373	0.003
1250	1227	MORRIS STREET	94CSBLACK	89	0.000
1251	1226	BENTSEN	94SBSH215	40	0.000
1252	#N/A	UNITEC	94LA5895	37	0.000
1253	#N/A	TRADE ZONE	94SB1935	40	0.000
1254	1233	MORRIS STREET	94CSYELLOW	44	0.000
1255	616		94CNVred	44	0.000
1256	#N/A	DUST DEVIL	94LA1380	41	0.000
1257	1241	SA CONCHO	97SA1725	26	0.000
1258	1247	WASHINGTON STREET	94LA2330	62	0.000
1259	615		94CNVbrown	16	0.000
1260	614		94CNVgreen	29	0.000
1261	1250	WASHINGTON STREET	94LA2320	34	0.000
1262	1232	MORRIS STREET	94CSNET CC	317	0.000
1263	1229	AB WALNUT ST	97AB3250	11	0.000
1264	1134	SWENSON	97AB136	28	0.000
1265	829	HAMLIN SHELL	97AB6330	25	0.000
1266	1243	WASHINGTON STREET	94LA2310	47	0.000
1267	1244	VICTORIA POWER PLANT	94CNNETVIC	88	0.000

## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIFI Ranking	2020 SAIFI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIFI Value
1268	1214	COLLEGE HILLS	97SA5515	351	0.000
1269	1245	BARNHART	97SA590	18	0.000
1270	1257	WASHINGTON STREET	94LANETLAR	163	0.000
1271	1234	MORRIS STREET	94CSRED	149	0.000
1272	580	CROCKETT HEIGHTS	97SA73703	69	0.000
1273	1215	ABILENE PLANT	97AB3175	123	0.000
1274	1240	MORRIS STREET	94CSBROWN	64	0.000
1275	#N/A	ABILENE INDUSTRIAL PARK	97AB6600	10	0.000
1276	346	BRYANTS RANCH	97SA205	21	0.000
1277	#N/A	STAFFORD HILL	94CN9955	82	0.000
1278	1228	MORRIS STREET	94CSGREEN	233	0.000
1279	1262	ESPY WELLS	97SA50207	31	0.000
1280	1258	WASHINGTON STREET	94LA6890	21	0.000
1281	1237	MAYBERRY	94SB6450	28	0.000
1282	1235	MAYBERRY	94SB5340	37	0.000
1283	1261	KIRKLAND	97AB3545	29	0.000
1284	1153	TAYLOR	94SBSH114	607	0.000
1285	NA	PANTERA	94SB1765	112	0.000
1286	NA	DONNA SKID	94SBTX_B	524	0.000
1287	NA	GOODLETT	97AB12205	48	0.000
1288	NA	STEAMBOAT	97AB12515	68	0.000
1289	NA	MILES	97SA11330	171	0.000

### Feeders from last year that are not in this year's list

2020 Ranking	Substation Identification	Feeder ID	Reason not in 2021		
256	CLIMAX/BRADSHAW	97AB11301	Customer count is now under 10		
119	RAYMONDVILLE #2	94SB3250	Customer count is now under 10		
175	RANGERVILLE	94SB3410	Customer count is now under 10		
290	ACME BESTWALL	97AB4150	Customer count is now under 10		
207	RAYMONDVILLE #2	94SB1280	Customer count is now under 10		
241	PORT LAVACA	94CN8310	Customer count is now under 10		
584	PORT LAVACA	94CN6850	Customer count is now under 10		
991	BENTSEN	94SBSH214	Customer count is now under 10		
465	PORT LAVACA	94CN2490	Customer count is now under 10		
1010	HOMEPORT	94CS4065	Customer count is now under 10		
1146	MCCAMEY	97SA3670	Customer count is now under 10		
1097	PORT LAVACA	94CN2480	Customer count is now under 10		

## Service Quality Report to the Public Utility Commission of Texas

Distribution Feeder Indices for Forced Interruptions

List all Distribution Feeders on Texas System

Total Number of Feeders

With 10 or more Customers

**1289**

Add or Delete Rows as Necessary

### AEP Texas Inc.

2021 SAIDI Ranking	2020 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIDI Value
1	903	SANTA RITA	97SA1100	82	5,437.2
2	835	MCCAMEY	97SA2415	82	3,886.8
3	81	SANTA RITA	97SA1105	73	3,439.0
4	541	BAY CITY	94CN6450	224	2,728.5
5	3	CARANCAHUA	94CN1875	60	2,614.9
6	2	CONOCO-CHITTAM RANCH	94LA8580	27	2,221.2
7	376	WESMER	94SB6900	52	2,027.0
8	442	SONORA ATLANTIC (SWTEC)	97SA4415	31	1,997.1
9	385	O_CONNER	94CN390	203	1,946.3
10	196	DUNE FIELD (N CRANE)	97SA3885	69	1,857.9
11	#N/A	RAYMONDVILLE #2	94SB5875	28	1,636.1
12	315	LOS FRESNOS	94SB5335	119	1,606.7
13	215	MASTERTON FIELD	97SA800	183	1,603.8
14	5	CRESTONIO	94LA270	636	1,446.5
15	773	MCELROY	97SA5165	95	1,424.8
16	377	MESA VIEW	97SA7045	99	1,360.8
17	51	RANDADO	94LA8350	135	1,292.4
18	409	OZONA	97SA4185	739	1,235.1
19	60	GREGORY	94CS5920	704	1,234.6
20	#N/A	HOEFFS ROAD	97SA15680	10	1,214.4
21	618	BAY CITY	94CN5960	401	1,179.0
22	31	FREER	94LA1500	200	1,175.0
23	101	BONNIEVIEW	94CS8020	527	1,155.0
24	191	CHARLOTTE	94LA2780	58	1,153.3
25	#N/A	BLACK CAT	94CN4525	121	1,108.7
26	206	RODD FIELD	94CS2190	98	1,106.7
27	55	MARKHAM	94CN6440	468	1,063.7
28	82	BRUNI	94LA5440	127	1,007.3
29	15	TATTON	94CN8490	357	978.9
30	296	WEIL TRACT (138/12KV)	94CS1990	1,397	978.8
31	93	AFTON	97AB2225	49	940.4
32	1086	SHROPSHIRE	94CN1240	72	902.4
33	310	PRAIRIE PUMP	94CN1940	89	889.0
34	70	WEIL TRACT (138/12KV)	94CS5405	180	884.3
35	620	CABANISS	94CS615	250	873.1
36	251	BLACK BAYOU	94CN1120	370	857.4
37	383	PLACEDO	94CN7980	426	829.7
38	67	SUNCHASE	94SB1155	1,436	822.6
39	292	ZAPATA	94LA2710	1,355	817.7
40	344	SARAGOSA	97SA1590	42	816.2
41	221	ALBANY	97AB2029	240	811.1
42	75	MEDIO CREEK	94CN1380	797	777.4
43	765	INDIAN MESA	97SA2695	168	774.8
44	446	SAN DIEGO	94LA1980	615	773.3
45	614	FREER	94LA5200	1,030	757.9
46	162	GREENLAKE	94CN2740	381	755.5
47	403	BANDERA ELECTRIC (LEAKEY)	94LAL30	271	751.5
48	19	DARST	94CN1845	184	733.2
49	1011	STAMFORD PUMP	97AB3930	38	729.8
50	565	HAROLD	97AB1495	23	723.9

## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIDI Ranking	2020 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIDI Value
51	154	EAGLE PASS CITY	94LA450	849	720.6
52	111	PALACIOS	94CN6830	840	715.1
53	131	CONTINENTAL	94SB3650	17	712.9
54	88	PREMONT	94LA2730	197	705.1
55	299	MALONE	94CN7550	199	702.4
56	46	SINTON	94CS360	337	695.8
57	373	SUNCHASE	94SB1150	1,313	686.2
58	414	PAULANN	97SA6285	68	685.4
59	1037	GILA	94CS350	30	683.1
60	21	GOVERNMENT WELLS	94LA6800	233	682.8
61	267	ELSA	94SB3500	1,301	670.6
62	78	RIO RICO	94SB8330	471	659.1
63	6	ALAZAN	94CS620	167	656.1
64	293	BIG WELLS	94LA1570	426	649.9
65	443	GREGORY	94CS8560	253	645.5
66	148	BLESSING	94CN8780	58	639.1
67	260	EAGLE LAKE	94CN320	628	637.0
68	45	STAFFORD HILL	94CN1550	140	631.3
69	173	PORTLAND	94CS6505	1,823	623.8
70	104	COFFEE PORT	94SB1095	1,063	617.3
71	1217	PAULANN	97SA6310	1,098	611.9
72	230	THREE RIVERS	94CN5100	72	609.0
73	400	HOLLY	94CS7620	2,697	603.7
74	755	MARKHAM	94CN5550	17	600.5
75	533	MORRIS STREET	94CS8820	1,255	596.0
76	486	CLARKWOOD	94CS5525	612	595.6
77	106	CONTINENTAL	94SB4080	66	574.3
78	748	WEST HARLINGEN	94SB3800	1,421	558.6
79	908	GATEWAY	94LA5055	1,817	552.2
80	120	PERKINS PROTHO	97SA3180	22	551.5
81	537	FOSTER FIELD	94CN8880	287	546.0
82	192	VERHALEN	97SA4460	71	543.4
83	138	GREGORY	94CS5900	119	542.9
84	337	SAN DIEGO	94LA2930	568	542.0
85	146	MAYBERRY	94SB3160	548	534.5
86	266	GEORGE WEST	94CN1320	689	527.7
87	922	PHARR	94SB1645	1,701	527.0
88	265	AIRLINE	94CS5870	1,015	526.1
89	441	WEST OSO	94CS9085	934	523.6
90	711	NORTH MERCEDES	94SB3770	1,798	521.4
91	113	PORT ARANSAS	94CS3030	899	516.8
92	873	SOUTH PADRE ISLAND	94SB6440	2,720	515.3
93	96	MOORE FIELD	94SB3120	151	514.4
94	548	EAGLE PASS CITY	94LA2510	704	511.7
95	854	PREMONT	94LA6570	791	510.4
96	20	PALACIOS	94CN8550	83	510.3
97	177	RAYMONDVILLE #1	94SB630	782	503.2
98	722	BRUNI	94LA1100	612	500.8
99	946	STAMFORD	97AB2835	96	499.2
100	65	MCKENZIE ROAD	94CS140	277	498.3
101	524	MOORE FIELD	94SB3110	715	498.2
102	99	SOUTHSIDE	94CS8045	964	498.2
103	1040	CHERRY CREEK TAP	97SA485	52	495.8
104	272	CAUSEWAY	94SB4765	931	481.3
105	199	BRUNI	94LA1120	276	477.9

## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIDI Ranking	2020 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIDI Value
106	401	HIGHWAY 9	94CS6770	959	477.9
107	24	WADSWORTH	94CN8630	681	475.7
108	158	NORTH VICTORIA	94CN7440	1,630	474.6
109	277	BAY CITY	94CN6670	1,602	472.9
110	1175	MINES ROAD	94LA7235	1,280	467.4
111	358	PORT ARANSAS	94CS6940	1,620	462.1
112	127	SINTON	94CS6860	1,000	462.0
113	341	PLACEDO	94CN7970	498	458.7
114	11	SHROPSHIRE	94CN3575	32	457.9
115	501	WEST HARLINGEN	94SB3720	1,304	457.6
116	225	TANKERSLY (CVEC)	97SA5260	479	457.1
117	35	BANQUETTE	94CS9000	464	455.4
118	181	HOLCOMB	94LA3025	355	453.3
119	729	PORT ISABEL S.S.	94SB3760	763	453.0
120	459	PALMVIEW	94SB7595	3,196	449.1
121	326	MAYO	94CS625	205	448.0
122	909	OZONA	97SA3555	158	446.4
123	631	PARKER	94CN9010	21	442.7
124	428	VALENTINE	97SA6325	511	439.8
125	470	MIDWAY LANE	97SA3440	54	438.5
126	526	CAMPWOOD	94LA3430	125	434.5
127	249	BAY CITY	94CN7480	2,060	433.9
128	329	SABINAL	94LA485	495	433.8
129	322	ZAPATA	94LA8300	1,609	432.9
130	699	MCCAMEY	97SA2420	106	428.2
131	243	PHARAOH	94CS5175	1,286	425.1
132	207	GOVERNMENT WELLS	94LA7250	567	422.0
133	269	ARCADIA	94CS5030	1,602	411.6
134	1065	ALBANY	97AB3655	623	404.3
135	569	HASKELL 12KV	97AB3495	820	397.8
136	208	WADSWORTH	94CN7660	1,454	397.8
137	44	VERHALEN	97SA14765	22	397.6
138	398	LULING - LCRA	94CN10	434	395.0
139	445	PETTUS	94CN1020	454	394.6
140	179	NAVAL BASE	94CS9720	2,519	393.2
141	149	PIRATE	94CS3380	454	388.4
142	347	SOUTHSIDE	94CS7925	1,156	386.1
143	585	VERHALEN	97SA4465	35	385.9
144	891	GARCENO	94SB2130	1,827	385.4
145	1222	HEINES	94CS3515	1,296	384.1
146	665	TANKERSLY (CVEC)	97SA5265	374	383.4
147	1128	MUNDAY	97AB3365	406	372.8
148	1210	IRAAN	97SA4305	21	371.7
149	677	ELSA	94SB3520	969	370.9
150	245	GARWOOD CITY	94CN2570	144	367.9
151	969	UNIVERSITY	94LA305	117	362.4
152	953	NORTH PADRE ISLAND	94CS720	1,386	360.3
153	461	PAWNEE (STEC OWNED)	94CN22202	196	360.2
154	530	CAUSEWAY	94SB4795	336	358.9
155	56	AB RAINEY CREEK	97AB4225	122	358.5
156	944	OLMITO	94SB4275	808	358.0
157	164	DILLEY	94LA3795	103	357.3
158	724	GOLIAD	94CN8220	1,062	350.3
159	17	ESCONDIDO	94LA2035	244	349.4
160	1	CABANISS	94CS80	95	347.7

## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIDI Ranking	2020 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIDI Value
161	1134	MCCAMEY	97SA2830	474	347.5
162	98	ELDORADO	97SA1845	539	345.6
163	660	CAMPWOOD	94LA2610	983	345.6
164	36	RIO BRAVO	94LA5	716	345.5
165	415	BLESSING	94CN1030	282	341.7
166	115	VALENTINE	97SA5590	214	336.3
167	12	CROSS PLAINS	97AB2920	536	336.0
168	213	SONORA 138 SUB	97SA4805	441	335.8
169	25	ARMSTRONG	94CS6050	83	335.5
170	#N/A	ODEM	94CS2400	315	335.4
171	686	SABINAL	94LA200	435	334.1
172	240	ELSA	94SB710	2,232	333.5
173	211	GRAYBACK	97AB3315	45	333.1
174	100	EAGLE LAKE	94CN9455	600	331.7
175	#N/A	SAND CRAB	94CN8120	258	331.1
176	884	THREE RIVERS	94CN8430	193	330.9
177	300	DEL RIO CITY	94LA1930	1,562	330.4
178	114	EDROY	94CS6990	290	329.8
179	172	GREENLAKE	94CN2760	1,172	329.2
180	624	PALMHURST	94SB3890	1,846	327.7
181	431	FREER	94LA2900	161	327.0
182	41	VILLA CAVAZOS	94SB1980	2,241	326.5
183	339	HOLLY	94CS1480	1,730	322.8
184	510	ARCADIA	94CS1360	1,546	321.6
185	273	RACHAL	94LA6595	335	320.7
186	83	RISING STAR	97AB5080	596	320.4
187	281	FOSTER FIELD	94CN2550	60	318.1
188	416	ZAPATA	94LA7330	1,378	317.7
189	674	PLEASANTON	94LA120	1,236	315.9
190	77	VILLA CAVAZOS	94SB5680	1,937	315.8
191	123	CABANISS	94CS75	2,248	311.5
192	217	ARANSAS PASS	94CS590	455	310.4
193	652	MCCAMEY	97SA2855	76	310.2
194	129	ROCKSPRINGS	94LA2600	375	308.3
195	707	GOODWIN	94SB4625	2,207	307.7
196	282	BRACKETTVILLE	94LA8460	1,199	307.4
197	939	WESMER	94SB4480	1,154	307.3
198	69	GOVERNMENT WELLS	94LA7240	224	306.4
199	1155	CALLICOATTE	94CS8785	1,203	303.9
200	1147	OZONA	97SA3810	1,215	303.1
201	361	BROOKHOLLOW	94CN8950	911	302.7
202	602	EL CAMPO	94CN2800	840	301.2
203	840	COFFEE PORT	94SB1090	1,284	301.1
204	500	BEEVILLE	94CN1760	1,842	299.9
205	1022	MAGNOLIA	94CN315	83	294.7
206	578	DEL RIO CITY	94LA430	2,080	294.6
207	176	PORT ARANSAS	94CS1000	1,409	292.1
208	804	CONTINENTAL	94SB4880	68	291.7
209	139	PORT ISABEL S.S.	94SB3820	177	290.9
210	1120	CLYDE	97AB1755	135	290.5
211	258	RIO RICO	94SB8290	308	290.3
212	828	HARLINGEN SWITCH	94SB4090	2,361	289.3
213	793	BEEVILLE	94CN8090	1,411	289.3
214	175	PHARAOH	94CS1285	1,777	289.2
215	447	SOUTH SANTA ROSA	94SB1215	1,714	288.9

## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIDI Ranking	2020 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIDI Value
216	531	FULTON	94CS9050	1,245	286.9
217	536	RULE	97AB3396	447	284.8
218	180	ODEM	94CS385	574	284.5
219	689	HOLLY	94CS5820	900	284.1
220	785	WESMER	94SB1850	883	279.2
221	171	FALFURRIAS	94LA2830	1,534	275.1
222	810	RAYMONDVILLE #2	94SB3240	927	274.4
223	370	BUENA VISTA	94LA8965	930	271.2
224	202	BEEVILLE	94CN8510	834	270.0
225	598	KINGSVILLE	94CS1130	2,227	269.6
226	467	RISING STAR	97AB5075	686	269.5
227	763	LAS CRUSES	94LA7325	2,768	268.6
228	964	EAST HARRISON	94SB3190	1,484	267.9
229	436	BROWNSVILLE	94SB3050	2,024	267.8
230	166	DEL RIO CITY	94LA420	2,084	266.5
231	402	ARCADIA	94CS1450	1,672	265.3
232	18	ODEM	94CS375	632	263.8
233	219	MATHIS	94CS2870	886	263.2
234	915	SARAGOSA	97SA1552	783	260.7
235	727	BIG OAK	94CN420	147	260.5
236	26	MATTHEWS	94CN1740	166	259.7
237	534	UVALDE	94LA480	570	259.1
238	756	ALICE	94LA2530	1,479	259.0
239	391	DEL MAR	94LA220	1,451	258.8
240	351	LIVE OAK	94CS1090	283	255.5
241	781	PALMHURST	94SB2525	2,315	254.5
242	931	GARCENO	94SB2135	1,527	253.7
243	433	NORTH ALAMO	94SB3610	1,616	253.1
244	523	SOUTH MCALLEN	94SB3850	1,374	252.8
245	336	DEVINE	94LA8100	1,621	252.4
246	1118	GIRARD	97AB6260	44	251.8
247	962	TAFT	94CS1180	950	251.7
248	1109	HAROLD	97AB3055	27	250.7
249	643	CLARKWOOD	94CS7230	606	249.8
250	1107	ALPINE 12KV	97SA6825	1,806	249.7
251	135	ROMA	94SB3070	900	249.6
252	254	POLK AVENUE	94SB4740	1,734	249.4
253	737	RIO GRANDE CITY	94SB3220	1,396	248.7
254	22	SPUDDER FLAT	97SA4175	54	246.4
255	150	TURKEY	97AB3825	390	246.2
256	555	MORRIS STREET	94CS8830	1,534	246.1
257	898	BROWNSVILLE	94SB4290	477	246.0
258	844	HAINE DRIVE	94SB270	1,167	245.7
259	1025	WESLACO UNIT	94SB9805	1,136	245.0
260	122	WEAVER ROAD	94CN1900	60	243.9
261	600	PORT ARANSAS	94CS990	2,658	243.3
262	607	BROWNSVILLE	94SB4280	325	242.8
263	1113	ESCONDIDO	94LA3350	1,467	242.8
264	28	FALFURRIAS	94LA1080	459	241.4
265	1099	EDNA	94CN5775	508	241.4
266	999	MCKENZIE ROAD	94CS330	2,416	240.9
267	1054	CLOSNER	94SB2945	478	240.8
268	780	PAULANN	97SA6280	479	240.7
269	34	UVALDE	94LA550	732	240.5
270	201	RIO PECOS	97SA3835	105	238.1



## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIDI Ranking	2020 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIDI Value
271	623	KARNES CITY	94CN2315	1,028	237.0
272	989	CAUSEWAY	94SB9880	961	236.8
273	872	KEPLER	94CS1700	26	236.6
274	84	SUN VALLEY	97SA4300	69	236.3
275	49	WOOLRIDGE	94CS1170	435	236.2
276	656	BANQUETTE	94CS130	230	235.6
277	168	HIGHWAY 9	94CS6780	760	233.5
278	236	MORAN	97AB2107	216	232.3
279	837	ROCKPORT	94CS5950	42	230.5
280	901	FLOMOT	97AB1852	71	230.2
281	429	ARCADIA	94CS1440	1,684	229.8
282	454	COTULLA	94LA460	521	229.1
283	323	PALMVIEW	94SB3930	1,156	228.7
284	87	HIDALGO	94SB4845	1,407	228.1
285	1015	HALL ACRES ROAD	94SB4895	870	227.5
286	680	HARLINGEN SWITCH	94SB4110	885	227.5
287	858	ALBANY	97AB3640	333	226.4
288	124	ALICE	94LA2540	972	224.4
289	133	CHILLICOTHE	97AB4525	120	223.7
290	760	THREE RIVERS	94CN5190	474	223.7
291	712	INDIAN MESA	97SA2690	68	223.5
292	1061	ESCONDIDO	94LA1510	737	222.7
293	137	EAST HARRISON	94SB3950	754	222.3
294	1180	JAYTON	97AB6125	349	221.2
295	331	HARLINGEN	94SB360	2,459	221.0
296	#N/A	SAND CRAB	94CN6735	521	220.5
297	703	CASA BLANCA	94CS55	869	220.3
298	476	RANKIN	97SA5735	181	218.1
299	438	WEST MCALLEN	94SB4555	1,684	215.8
300	1105	KNOX CITY	97AB3300	466	215.2
301	144	FREISS RANCH	97SA4870	98	214.6
302	460	VICTORIA POWER PLANT	94CN7600	165	213.8
303	107	NORTH PADRE ISLAND	94CS1010	2,266	212.2
304	496	POINT COMFORT	94CN6060	373	209.5
305	812	PEARSALL	94LA5580	847	209.4
306	886	WEST HARLINGEN	94SB3700	1,823	209.0
307	853	MATHIS	94CS1420	918	208.3
308	253	YORKTOWN	94CN8420	664	207.9
309	522	LEARY LANE	94CN7530	3,065	207.8
310	1259	PONDER KENNEDY	97SA50208	12	207.6
311	753	NORTH MCALLEN	94SB5055	3,324	206.9
312	372	TRENT	97AB4245	183	206.8
313	13	ASPHALT MINES	94LA500	43	206.4
314	606	CHARLOTTE	94LA2790	204	206.1
315	226	PHARAOH	94CS1365	685	206.0
316	110	DARST	94CN1265	75	204.0
317	435	GILA	94CS345	64	203.2
318	739	MOCKINGBIRD	94CN400	997	202.9
319	813	PALMVIEW	94SB9680	1,048	202.8
320	394	MAGRUDER	94CN245	1,229	202.0
321	892	HIGHWAY 9	94CS7210	348	202.0
322	616	GOODWIN	94SB7380	2,056	201.5
323	450	WEST MCALLEN	94SB6385	235	201.1
324	1212	VALADEZ	94CS2500	2,524	200.9
325	233	PECOS VALLEY	97SA4075	21	200.7

## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIDI Ranking	2020 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIDI Value
326	309	INGLESIDE CITY	94CS2495	266	200.4
327	50	MORRIS STREET	94CS8715	1,600	200.3
328	996	SKIDMORE	94CS380	158	199.7
329	484	SOUTH SANTA ROSA	94SB1235	637	199.5
330	646	SEAWALL	94CS9325	1,563	199.2
331	480	NORTH MCALLEN	94SB2980	1,808	199.1
332	314	LULING - LCRA	94CN20	270	198.1
333	839	SA LAKE DR	97SA6030	761	197.5
334	303	LA GRULLA	94SB5110	1,055	196.5
335	708	WESMER	94SB7760	1,452	196.3
336	587	SOUTH SANTA ROSA	94SB1225	863	196.0
337	#N/A	PICACHO	94LA590	388	194.7
338	957	ANNA STREET	94LA5780	660	191.6
339	210	NORTH EDINBURG	94SB3570	1,036	190.5
340	40	PECAN BAYOU	97AB6810	446	189.8
341	305	PETTUS	94CN8210	328	189.7
342	338	WESLACO UNIT	94SB5970	2,030	188.6
343	209	PUTNAM	97AB2129	201	188.4
344	235	YORKTOWN	94CN3130	486	188.3
345	264	PORTLAND	94CS9370	2,098	188.0
346	#N/A	PICACHO	94LA630	340	187.4
347	1190	CAUSEWAY	94SB4775	1,084	187.0
348	76	CROSS PLAINS	97AB2915	772	187.0
349	259	PREMONT	94LA2720	769	186.8
350	182	LAGUNA	94CS9065	2,358	185.7
351	132	PALMVIEW	94SB9685	2,960	185.5
352	692	CARRIZO SPRINGS	94LA910	873	185.0
353	792	SOUTH MISSION	94SB3620	2,084	184.9
354	695	INGLESIDE CITY	94CS8060	2,480	184.6
355	777	CASA BLANCA	94CS1300	293	184.6
356	1172	CLOSNER	94SB4100	2,037	183.4
357	918	MAGRUDER	94CN6680	699	183.2
358	771	GEORGE WEST	94CN730	910	181.9
359	73	BIG WELLS	94LA2630	29	181.4
360	641	BEN FICKLIN	97SA6180	547	181.1
361	343	HEIGHTS	94LA9080	690	181.1
362	4	LA PRYOR	94LA570	175	180.5
363	644	CLARKWOOD	94CS7610	109	180.4
364	204	MUSTANG ISLAND	94CS9470	741	179.7
365	1160	HAMILTON ROAD	94LA9645	294	179.3
366	374	LOS FRESNOS	94SB2160	1,842	178.9
367	1046	KEMPER EXXON HUMBLE	97SA72103	26	178.7
368	197	EDNA	94CN5765	1,239	178.6
369	30	RANDADO	94LA8360	167	177.8
370	965	YORKTOWN	94CN8380	785	177.7
371	423	RAYMONDVILLE #1	94SB620	661	177.6
372	47	EDROY	94CS6980	198	176.7
373	535	CARRIZO SPRINGS	94LA370	547	176.5
374	507	GOLIAD	94CN6540	1,228	175.2
375	576	HALL ACRES ROAD	94SB3460	3,193	174.3
376	924	BISHOP	94CS7180	940	174.2
377	94	WEAVER ROAD	94CN1910	27	173.8
378	61	ELDORADO	97SA5310	183	173.8
379	237	LAGUNA	94CS9590	2,259	173.0
380	675	SKIDMORE	94CS600	366	172.9

## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIDI Ranking	2020 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIDI Value
381	42	UVALDE	94LA540	1,974	172.9
382	582	PALMHURST	94SB2535	2,598	172.8
383	349	PHARAOH	94CS1185	1,545	172.3
384	842	NORTH PADRE ISLAND	94CS5170	866	171.8
385	929	PLEASANTON	94LA9475	1,368	171.5
386	659	PEARSALL	94LA9905	436	170.5
387	878	MESQUITE	94SB8340	750	170.4
388	561	LAREDO PLANT	94LA8745	758	169.9
389	532	AB MAPLE ST	97AB5750	423	169.9
390	14	LA PRYOR	94LA580	268	169.8
391	455	RUSSEK STREET	97SA11370	206	169.5
392	74	WOODSON OIL FIELD	97AB30	32	168.5
393	1145	SANTA ANNA	97SA3420	369	168.3
394	52	HOLLY	94CS1370	1,897	166.8
395	276	ELDORADO	97SA2880	353	165.7
396	721	FULTON	94CS3070	1,569	165.0
397	1083	PARKER	94CN9260	123	164.9
398	639	DEVINE	94LA7090	1,054	164.5
399	228	MOORE FIELD	94SB3960	2,175	164.5
400	62	HIGHWAY 9	94CS6720	1,308	163.5
401	304	RACHAL	94LA8145	371	163.5
402	473	KINGSVILLE	94CS1140	1,144	161.7
403	1168	SANTA ANNA	97SA3415	338	161.3
404	321	STADIUM	94LA7490	1,315	161.0
405	465	KLEBERG	94CS6000	1,434	160.9
406	683	HAINES DRIVE	94SB9240	34	160.7
407	342	HIDALGO	94SB3680	324	160.5
408	141	HEARN ROAD	94CS8990	1,353	160.3
409	1036	SOUTHSIDE	94CS8055	856	160.0
410	795	BAIRD	97AB5125	595	159.8
411	750	AB RAINEY CREEK	97AB4270	1,417	159.1
412	978	RAYMONDVILLE #1	94SB3130	314	159.0
413	418	CHARLOTTE	94LA8120	231	158.8
414	599	DIMITT	94LA4120	1,305	158.5
415	406	AIRLINE	94CS7280	643	158.3
416	333	OLMITO	94SB905	1,684	158.2
417	407	BAY CITY	94CN2700	1,071	158.2
418	759	SOUTHSIDE	94CS8035	1,091	157.9
419	604	ASHERTON	94LA5495	612	157.8
420	198	WOODSBORO	94CS8330	295	157.6
421	72	CLARKWOOD	94CS2170	746	157.3
422	140	WINTERS	97SA3765	819	156.2
423	1142	HOLLY	94CS9675	1,780	156.0
424	1184	YOUNG	94SB5135	1,301	155.8
425	430	NORTH MERCEDES	94SB3840	690	155.6
426	612	MORAN	97AB2108	318	155.4
427	609	CITRUS CITY	94SB3470	1,674	155.1
428	157	BLESSING	94CN8790	765	155.0
429	170	PALACIOS	94CN6840	1,531	154.7
430	634	PALMHURST	94SB2530	2,809	154.6
431	200	ARCADIA	94CS5020	1,508	154.5
432	160	ASPR CONTINENTAL	97AB3830	27	154.1
433	1024	SIERRA VISTA	94LA3540	1,105	153.7
434	577	MILO	94LA3060	128	153.2
435	1146	ROCKPORT	94CS5940	61	152.5

Service Quality Report to the Public Utility Commission of Texas

**AEP Texas Inc.**

2021 SAIDI Ranking	2020 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIDI Value
436	601	HIDALGO	94SB3400	872	151.6
437	413	MORRIS STREET	94CS7465	756	151.5
438	#N/A	PANTERA	94SB1105	577	151.3
439	808	RODD FIELD	94CS225	2,924	151.1
440	90	FALFURRIAS	94LA5210	1,178	150.9
441	86	MUSTANG ISLAND	94CS8510	497	150.2
442	130	CLARKWOOD	94CS9570	1,234	149.4
443	831	PALMHURST	94SB2820	1,851	149.2
444	85	ARCADIA	94CS1460	2,475	149.1
445	456	HALL ACRES ROAD	94SB5585	1,485	149.1
446	1239	KNOX CITY	97AB3985	25	149.0
447	241	RIO GRANDE CITY	94SB3210	1,966	148.9
448	66	NIXON	94CN2025	529	147.2
449	991	ABILENE PLANT	97AB1910	248	147.0
450	174	ARCADIA	94CS8570	1,444	147.0
451	1256	BENTSEN	94SB5H115	341	146.5
452	58	LA PRYOR	94LA2440	737	146.5
453	669	CRYSTAL CITY	94LA1425	1,197	146.2
454	626	LOS FRESNOS	94SB4315	1,215	146.2
455	147	CRYSTAL CITY	94LA8380	1,355	144.9
456	262	RIO BRAVO	94LA1130	1,063	144.9
457	984	KLEBERG	94CS8140	645	144.7
458	397	AB DYESS 2	97AB6335	362	144.6
459	960	LAREDO PLANT	94LA8565	1,449	144.6
460	743	STADIUM	94LA7810	1,324	144.5
461	1104	HIGHLAND	97SA6380	468	143.8
462	676	BAY CITY	94CN1110	1,226	143.8
463	27	KLEBERG	94CS6410	246	143.3
464	941	NORTH VICTORIA	94CN1470	476	143.1
465	564	MILES	97SA4670	386	142.5
466	89	PORTLAND	94CS9290	1,790	141.9
467	1138	SA COKE ST	97SA4915	19	141.8
468	1041	AIRLINE	94CS7390	2,235	141.3
469	698	STERLING CITY	97SA1445	909	141.2
470	478	TUSCOLA	97AB3730	1,178	141.1
471	224	MALONE	94CN7560	120	140.7
472	220	PEARSALL	94LA7050	585	140.6
473	57	LA GRULLA	94SB3045	1,188	140.4
474	927	UNITEC	94LA3085	116	140.4
475	348	PALMHURST	94SB1300	2,272	139.9
476	432	LYTLE	94LA2850	749	139.9
477	38	ALBANY	97AB3540	623	139.5
478	457	AB ELMDALE	97AB4520	279	138.6
479	542	ELSA	94SB700	1,530	138.3
480	880	BROOKHOLLOW	94CN8960	598	138.1
481	805	ANNA STREET	94LA850	1,579	137.6
482	312	VALADEZ	94CS3140	1,818	137.4
483	126	NAVAL BASE	94CS8540	1,612	137.3
484	691	HALL ACRES ROAD	94SB3670	1,209	137.0
485	437	BUENA VISTA	94LA9385	878	136.7
486	830	TYNAN	94CS1855	139	135.4
487	967	BAY CITY	94CN2050	657	135.3
488	448	MATHIS	94CS340	1,403	135.0
489	658	BEN FICKLIN	97SA6185	592	134.9
490	278	PLEASANTON	94LA2080	1,714	134.8

## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIDI Ranking	2020 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIDI Value
491	287	EAGLE PASS CITY	94LA2770	2,037	134.6
492	562	MERKEL	97AB1895	709	134.5
493	776	CITRUS CITY	94SB9775	1,583	134.1
494	993	EL GATO	94SB720	2,558	133.0
495	519	SOUTH PADRE ISLAND	94SB4695	1,355	132.3
496	1201	TRENT	97AB2850	26	130.7
497	516	NORTH MCALLEN	94SB4995	2,464	130.7
498	91	CRESTONIO	94LA6660	791	130.7
499	890	HEARN ROAD	94CS8980	1,271	130.6
500	552	AB MAPLE ST	97AB4070	1,075	130.3
501	806	SOUTHSIDE	94CS7905	1,824	130.3
502	916	SAN BENITO	94SB3910	679	129.9
503	952	NORTH WESLACO	94SB4810	1,514	129.6
504	320	ARCADIA	94CS1400	446	129.4
505	611	HOLLY	94CS1950	836	129.2
506	663	CHOKE CANYON	94CN9255	353	128.3
507	1129	KENEDY S.S.	94CN8340	327	128.1
508	229	RIO RICO	94SB5050	1,851	127.9
509	613	OLMITO	94SB715	653	127.8
510	365	HAMILTON ROAD	94LA9665	1,252	127.5
511	723	ROWENA	97SA4480	228	126.9
512	693	NORTH MCALLEN	94SB5060	2,518	126.6
513	353	PREMONT	94LA6610	832	125.6
514	185	QUANAH	97AB3975	210	125.2
515	151	SOUTHSIDE	94CS7995	1,550	125.1
516	390	PUEBLO	94LA9870	1,439	124.9
517	301	REFUGIO	94CN5120	693	124.4
518	53	POWELL FIELD	97SA2528	24	124.0
519	1084	WESLACO UNIT	94SB8610	1,178	123.7
520	408	HAINE DRIVE	94SB9690	620	123.6
521	43	GOODWIN	94SB4390	406	123.2
522	389	SA CONCHO	97SA1700	541	123.1
523	165	SOUTHSIDE	94CS5335	1,369	122.7
524	848	SOUTH MISSION	94SB3590	554	122.6
525	183	WEST OSO	94CS9095	1,682	122.6
526	186	MAVERICK	94LA9680	825	122.1
527	498	BARNHART	97SA3725	138	121.6
528	814	ARANSAS PASS	94CS8280	622	121.2
529	563	KNOX CITY	97AB3390	391	121.1
530	103	TAFT	94CS1260	190	120.7
531	252	INGLESIDE CITY	94CS8050	1,267	120.6
532	936	WOOLRIDGE	94CS1120	1,633	120.3
533	33	CABANISS	94CS240	1,395	120.0
534	354	WEST OSO	94CS9090	1,673	119.6
535	797	AB MAPLE ST	97AB5755	1,138	119.5
536	651	PHARR	94SB1620	1,268	119.5
537	657	WESMER	94SB9705	1,132	119.2
538	567	NORTH VICTORIA	94CN6390	1,512	119.1
539	619	EL CAMPO	94CN6370	768	119.1
540	238	PECOS VALLEY	97SA4080	110	118.1
541	444	JOURDANTON	94LA7880	595	117.9
542	547	CARANCAHUA	94CN5870	468	117.6
543	702	AB ELM CREEK	97AB4745	923	117.5
544	279	KLEBERG	94CS280	1,340	116.6
545	1144	DIMMIT	94LA5545	563	116.2

## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIDI Ranking	2020 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIDI Value
546	352	LA GRULLA	94SB5005	1,208	115.9
547	807	AB VOGEL ST	97AB4410	768	115.8
548	539	SA NORTH	97SA3130	232	115.8
549	1027	HAINÉ DRIVE	94SB9700	1,161	115.5
550	566	CHASE FIELD	94CN460	14	114.9
551	1072	ESCONDIDO	94LA5730	2,906	113.3
552	1177	KEPLER	94CS2665	36	113.2
553	1006	AIRLINE	94CS8370	282	113.0
554	921	CRYSTAL CITY	94LA7425	444	112.7
555	29	UVALDE	94LA6620	2,138	112.2
556	955	YOUNG	94SB6140	2,588	111.9
557	178	AMISTAD DAM	94LA5450	766	111.7
558	359	HEARN ROAD	94CS2220	1,664	111.5
559	468	MOCKINGBIRD	94CN370	48	111.1
560	410	PUEBLO	94LA275	2,901	110.6
561	163	NORTH MCALLEN	94SB9640	1,537	110.3
562	877	SIERRA VISTA	94LA8205	1,181	110.3
563	764	SA SOUTH	97SA3995	782	110.2
564	856	HARLINGEN SWITCH	94SB5350	966	109.8
565	556	CRESTONIO	94LA260	1,786	109.7
566	1052	SINTON	94CS1750	295	109.6
567	360	RAYMONDVILLE #1	94SB800	1,755	109.6
568	736	UVALDE	94LA9770	509	109.5
569	906	EOLA	97SA4950	213	109.5
570	822	INGLESIDE CITY	94CS6040	426	109.0
571	325	VERNON	97AB1750	249	108.7
572	637	AB ELM CREEK	97AB4780	567	108.3
573	900	LIVE OAK	94CS1070	3,125	107.6
574	654	MOCKINGBIRD	94CN305	323	107.6
575	667	READING	94LA1445	526	107.3
576	744	REFUGIO	94CN1040	164	105.2
577	517	YELLOW JACKET	97SA5505	540	105.1
578	286	WINTERS	97SA2113	810	103.1
579	741	SA JACKSON ST	97SA4265	791	103.0
580	855	EAGLE LAKE	94CN310	729	102.4
581	627	KINGSVILLE	94CS1670	422	100.9
582	284	GRETA	94CN7890	235	100.8
583	1121	DEL MAR	94LA10	1,739	100.2
584	203	GREGORY	94CS420	467	99.7
585	655	SAN DIEGO	94LA2880	1,319	99.6
586	588	WYLIE	97AB2665	1,085	99.5
587	1156	AB OIL MILL	97AB2780	754	99.1
588	68	RAYMONDVILLE #2	94SB3170	754	98.8
589	554	PRIMERA	94SB7020	1,483	98.8
590	1165	HIGHWAY 9	94CS9830	141	98.7
591	328	SOUTHSIDE	94CS7955	1,063	98.6
592	227	LANTANA	94CS7150	272	98.2
593	190	HOLCOMB	94LA2240	447	98.2
594	48	ALPINE 12KV	97SA3875	639	97.9
595	112	CITRUS CITY	94SB5070	975	97.8
596	529	HAMLIN	97AB3270	878	97.2
597	195	COTULLA	94LA610	728	96.8
598	826	CARRIZO SPRINGS	94LA860	32	96.5
599	1092	EAST HARRISON	94SB4620	774	96.3
600	218	GANADO	94CN5795	488	96.1

## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIDI Ranking	2020 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIDI Value
601	425	LOLITA	94CN6330	31	96.0
602	913	TATTON	94CS950	545	95.8
603	966	PECAN BAYOU	97AB6815	1,567	95.3
604	404	TUSCOLA	97AB3305	1,193	95.3
605	1048	HASKELL 12KV	97AB3770	457	95.0
606	316	WESLACO UNIT	94SB7630	2,643	94.8
607	268	CHARLOTTE	94LA1960	498	94.8
608	982	ROTAN	97AB1865	191	94.6
609	818	BERCLAIR	94CN990	203	94.6
610	882	TATTON	94CS8200	1,177	94.5
611	1030	WEST MCALLEN	94SB4515	885	94.4
612	246	HIGHWAY 9	94CS6760	1,022	94.3
613	1062	VICTORIA POWER PLANT	94CN8170	834	94.3
614	1215	KLEIMANN	94CN425	612	94.1
615	949	DILLEY	94LA6400	886	93.7
616	222	NIXON	94CN3300	608	93.1
617	592	MILO	94LA6940	463	93.0
618	466	MESQUITE	94SB3360	995	93.0
619	134	RODD FIELD	94CS1730	2,224	92.6
620	145	KLEBERG	94CS1560	1,477	92.5
621	419	FREER	94LA6320	160	92.3
622	863	GARCENO	94SB5490	1,454	92.3
623	155	GARWOOD CITY	94CN2560	201	92.1
624	330	HARLINGEN	94SB380	262	91.5
625	509	SOUTH MISSION	94SB3980	1,931	91.4
626	420	SA CONCHO	97SA3325	297	91.4
627	697	PALMVIEW	94SB6790	2,454	91.3
628	1117	GREENLAKE	94CN2750	71	91.2
629	371	POLK AVENUE	94SB4900	1,949	90.9
630	714	SA SOUTH	97SA4255	863	90.8
631	1140	AIRLINE	94CS9390	1,352	90.5
632	261	WEST HARLINGEN	94SB4870	1,086	90.2
633	1152	SOUTH EAST EDINBURG	94SB6580	951	90.0
634	701	WYLIE	97AB6340	765	89.7
635	670	NORTH MERCEDES	94SB4860	1,520	89.7
636	362	PORT ISABEL S.S.	94SB9295	2,424	89.7
637	636	ROCHESTER	97AB3290	80	89.4
638	869	SA AVENUE N	97SA1695	1,535	88.7
639	1231	PECAN BAYOU	97AB530	19	88.4
640	167	RIO GRANDE CITY	94SB3740	2,397	88.2
641	308	ASHLAND	94SBSH301	12	88.0
642	95	MESQUITE	94SB2900	924	87.1
643	746	VERNON CITY PLANT	97AB5770	95	87.0
644	694	JOURDANTON	94LA5695	316	86.9
645	1045	MAGRUDER	94CN6690	756	86.8
646	979	SOUTH MISSION	94SB5215	1,238	86.1
647	#N/A	SINTON	94CS180	240	85.9
648	161	EL CAMPO	94CN2860	1,511	85.9
649	1094	NORTH VICTORIA	94CN7770	814	85.2
650	717	CATARINA	94LA2380	187	84.9
651	1081	ABILENE PLANT	97AB1915	52	84.8
652	696	ANNA STREET	94LA2250	1,533	84.4
653	740	LAREDO PLANT	94LA8695	1,518	84.3
654	768	AB COUNTRY CLUB	97AB4855	954	84.1
655	39	VILLA CAVAZOS	94SB7615	1,113	84.0

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**AEP Texas Inc.**

2021 SAIDI Ranking	2020 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIDI Value
656	1131	IRAAN	97SA2050	526	83.8
657	255	KENEDY	94CN1970	560	83.6
658	688	SANTO NINO	94LA515	1,642	83.3
659	672	NORTH MCALLEN	94SB9660	2,177	83.3
660	975	ALICE	94LA1780	519	83.1
661	800	HARLINGEN SWITCH	94SB320	1,601	82.5
662	1100	AB SHELTON ST	97AB3435	296	82.0
663	715	AIRLINE	94CS6970	1,396	81.9
664	386	SAN BENITO	94SB3920	1,630	81.9
665	622	FULTON	94CS2020	3,410	81.6
666	128	YELLOW JACKET	97SA7935	806	81.5
667	256	ENCINAL	94LA2160	232	80.8
668	244	QUANAH	97AB1830	628	80.8
669	#N/A	CABANISS	94CS710	172	80.6
670	798	WESMER	94SB4050	1,954	80.5
671	381	RUNGE	94CN4465	373	80.5
672	867	RULE	97AB3378	103	80.4
673	306	NORTH VICTORIA	94CN7430	1,681	79.9
674	629	EAST HARRISON	94SB4310	1,215	79.8
675	928	BEEVILLE	94CN490	960	79.2
676	919	SAN DIEGO	94LA2890	1,028	78.9
677	546	SOUTH SANTA ROSA	94SB7485	1,191	78.8
678	346	CLYDE	97AB3635	739	78.5
679	580	JOURDANTON	94LA880	1,058	78.3
680	1014	WESLACO UNIT	94SB8195	1,675	78.1
681	513	ROBERT LEE	97SA4125	271	78.0
682	1090	GOODWIN	94SB3530	335	77.5
683	705	KINGSVILLE	94CS1660	1,994	77.4
684	632	ROCKPORT	94CS5930	1,386	77.2
685	458	AB ONYX REA	97AB3260	141	77.1
686	512	SOUTHSIDE	94CS8005	748	76.8
687	847	ALICE	94LA1790	450	76.8
688	350	LIVE OAK	94CS1080	1,768	76.5
689	668	VALERA HUMBLE	97SA7015	78	76.4
690	193	PUTNAM	97AB2131	126	76.2
691	153	ROCKSPRINGS	94LA8040	337	76.0
692	319	AB SHELTON ST	97AB3040	175	76.0
693	527	SHARYLAND	94SB5105	1,973	75.8
694	959	SANTO NINO	94LA75	1,534	75.8
695	583	CARRIZO SPRINGS	94LA750	582	75.7
696	152	BOBCAT HILLS	97SA6655	76	75.2
697	452	MELVIN	97SA940	45	75.1
698	481	EAGLE PASS CITY	94LA7060	870	75.1
699	633	ARANSAS PASS	94CS1250	640	75.0
700	823	MCCOLL ROAD	94SB4910	343	74.7
701	950	SAN BENITO	94SB4945	1,738	74.4
702	930	HOMEPORT	94CS4665	423	74.2
703	673	BEEVILLE	94CN2200	749	74.2
704	1091	LEARY LANE	94CN1540	794	74.1
705	762	CITRUS CITY	94SB6000	2,333	73.1
706	384	CASA BLANCA	94CS4170	1,156	72.9
707	861	STADIUM	94LA6950	430	72.6
708	311	NORTH PADRE ISLAND	94CS7900	2,411	72.6
709	142	SOUTHSIDE	94CS8025	1,066	72.5
710	1070	MILO	94LA3070	1,952	72.5



## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIDI Ranking	2020 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIDI Value
711	625	BUSH KNOB	97AB5200	298	72.4
712	54	UVALDE	94LA5060	1,280	72.3
713	1077	DEL RIO CITY	94LA9850	1,039	72.1
714	801	KINGSVILLE	94CS1350	396	71.9
715	313	WEST MCALLEN	94SB4595	1,200	71.8
716	194	HARLINGEN	94SB660	1,258	71.8
717	568	SOUTH EAST EDINBURG	94SB4570	1,927	71.7
718	829	SHARYLAND	94SB2010	1,177	70.7
719	1051	SOUTH MISSION	94SB3940	875	70.6
720	870	PORT ISABEL S.S.	94SB4070	274	70.5
721	1085	BRADY	97SA5015	202	70.4
722	#N/A	KLEIMANN	94CN565	569	69.7
723	156	KITTIE WEST	94CN3765	316	69.5
724	728	ASPERMONT	97AB3380	402	69.3
725	961	PAISANO	97SAPAISAN	157	69.1
726	610	FULTON	94CS6070	1,757	69.0
727	1028	AILEEN	97AB4605	428	68.9
728	875	KNIPPA	94LA6365	329	68.7
729	345	POWELL FIELD	97SA2529	13	68.2
730	340	GOODWIN	94SB4380	1,658	67.5
731	799	AB HARTFORD ST	97AB3815	1,126	67.4
732	8	PEACOCK	97AB1375	44	67.0
733	#N/A	BLACK CAT	94CN3175	101	66.9
734	471	JOURDANTON	94LA8725	31	66.8
735	528	SA MATHIS FIELD	97SA4790	190	66.8
736	1067	ODEM	94CS5575	77	66.8
737	92	KNIPPA	94LA6535	22	66.8
738	188	SONORA 138 SUB	97SA4810	889	66.7
739	824	MCCOLL ROAD	94SB2810	2,277	66.6
740	105	MORRIS STREET	94CS7625	527	66.5
741	463	WEIL TRACT (138/12KV)	94CS2520	83	66.5
742	832	MCCOLL ROAD	94SB4780	2,014	66.3
743	1221	PRIMERA	94SB5705	1,224	66.2
744	706	PHARR	94SB1640	1,452	65.6
745	#N/A	VALADEZ	94CS9890	1,909	65.6
746	483	MUNDAY	97AB6715	260	65.4
747	742	PUEBLO	94LA130	2,542	65.1
748	745	SAND ROAD	97AB5655	607	65.0
749	735	ANSON 12KV	97AB6635	405	65.0
750	395	NIXON	94CN6630	643	64.5
751	234	LAREDO PLANT	94LA9305	1,068	64.4
752	819	FALFURRIAS	94LA1070	949	64.1
753	324	FULTON	94CS440	2,026	63.8
754	121	CHRISTOVAL	97SA6620	627	63.6
755	730	PORTLAND	94CS9270	1,793	63.5
756	1049	SA COKE ST	97SA3905	645	63.3
757	803	SOUTH SANTA ROSA	94SB1240	1,672	63.1
758	985	AB MCMURRY	97AB4510	820	62.7
759	1018	JOURDANTON	94LA5685	343	62.6
760	681	WEST MCALLEN	94SB4535	2,930	62.4
761	553	ARCADIA	94CS6930	1,504	62.3
762	1021	GARCENO	94SB2165	1,963	61.9
763	784	STADIUM	94LA8540	1,691	61.5
764	876	SA CONCHO	97SA1715	291	61.4
765	1188	AB ELMDALE	97AB4085	45	61.3

## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIDI Ranking	2020 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIDI Value
766	845	EL GATO	94SB780	1,989	61.3
767	1056	ASHERTON	94LA4175	86	60.3
768	836	ZACATE CREEK	94LA2635	971	60.3
769	453	SAND ROAD	97AB5195	259	60.2
770	859	ASPR CONTINENTAL	97AB4800	33	60.2
771	502	DEVINE	94LA7100	1,129	59.9
772	290	NAVAL BASE	94CS7950	794	59.5
773	1133	ASPERMONT	97AB1070	326	59.3
774	169	MATHIS	94CS1410	476	59.1
775	475	SAN BENITO	94SB4030	2,794	58.5
776	379	RUNGE	94CN3250	270	58.1
777	638	AB ELM CREEK	97AB5045	382	57.9
778	1154	ROBY	97AB3795	74	57.7
779	1034	SHAFTER	97SA5110	50	57.0
780	956	EL CAMPO	94CN7710	1,078	56.8
781	843	KARNES CITY	94CN2325	668	56.6
782	769	ZAPATA	94LA8290	997	56.6
783	770	MAGRUDER	94CN6700	1,367	56.2
784	#N/A	PIRATE	94CS3220	714	55.5
785	283	WOOLRIDGE	94CS1110	1,653	55.2
786	357	SOUTH MCALLEN	94SB3790	1,462	54.8
787	1208	AB HARTFORD ST	97AB3690	171	54.7
788	1012	AIRLINE	94CS8260	1,416	54.5
789	581	BEN FICKLIN	97SA6175	582	54.5
790	850	HOLLY	94CS7740	2,220	54.3
791	710	EAST HARRISON	94SB4360	1,782	53.9
792	515	AB CANYON ROCK	97AB5030	695	53.8
793	809	AB VOGEL ST	97AB4650	816	53.7
794	1042	CLOSNER	94SB7505	754	53.7
795	508	RODD FIELD	94CS245	698	53.6
796	291	SEAWALL	94CS9450	298	53.5
797	841	FRIO	94LA2270	992	53.3
798	487	BEEVILLE	94CN300	1,664	53.1
799	382	AIRLINE	94CS9605	712	53.1
800	954	SA EMERSON ST	97SA4860	235	52.9
801	189	MORRIS STREET	94CS5655	360	52.8
802	#N/A	BLACK CAT	94CN3000	620	52.7
803	857	NORTH EDINBURG	94SB3810	1,458	52.3
804	731	AB REBECCA LANE	97AB2710	266	51.5
805	1110	YOUNG	94SB7145	1,722	51.4
806	1032	AB OIL MILL	97AB2785	250	51.2
807	239	CRYSTAL CITY	94LA2170	741	51.1
808	560	THROCKMORTON	97AB2090	74	51.1
809	411	ALICE	94LA1770	1,643	51.0
810	159	MERTZON (CVEC)	97SA2905	584	50.9
811	1159	JUNCTION	97SA10795	810	50.8
812	1079	AB EAST 12KV	97AB5760	216	50.6
813	973	NORTH VICTORIA	94CN1580	1,039	50.3
814	575	LOS FRESNOS	94SB7270	4,885	50.3
815	380	AB MCMURRY	97AB3245	795	50.3
816	977	TYNAN	94CS4000	27	50.0
817	879	KLEBERG	94CS9395	1,268	49.9
818	752	SAND ROAD	97AB5295	539	49.7
819	716	EL GATO	94SB910	2,610	49.7
820	997	SHARYLAND	94SB2035	817	49.7

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2021 SAIDI Ranking	2020 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIDI Value
821	369	SHARYLAND	94SB2150	397	49.1
822	945	CROWELL	97AB3490	177	49.0
823	1213	PICACHO	94LA1230	1,030	48.7
824	1098	STAMFORD	97AB4565	794	48.6
825	1254	UNIVERSITY	94LA930	92	48.5
826	#N/A	ROCKPORT	94CS5130	553	48.4
827	355	CHOKE CANYON	94CN5390	414	48.3
828	910	SHEFFIELD	97SA6430	207	48.2
829	64	MORRIS STREET	94CS2515	1,039	48.1
830	1181	HAIN DRIVE	94SB3490	1,189	48.0
831	902	FRIO	94LA1815	1,067	48.0
832	1206	SA JACKSON ST	97SA4250	328	48.0
833	897	LEARY LANE	94CN1890	1,632	47.6
834	584	SA SOUTH	97SA2595	1,065	47.5
835	860	THOMASTON	94CN9580	42	47.2
836	275	GANADO	94CN5815	603	47.1
837	549	ROMA	94SB3060	1,626	47.0
838	232	REFUGIO	94CN1210	192	46.8
839	994	CISCO	97AB6530	529	46.8
840	427	HIGHWAY 9	94CS7200	656	46.8
841	318	SPUDDER FLAT	97SA4180	48	46.5
842	687	ELSA	94SB690	2,398	46.2
843	1069	DEL MAR	94LA7930	1,901	45.8
844	538	HEIGHTS	94LA2100	1,974	45.7
845	678	VERNON	97AB4275	590	45.4
846	649	HARLINGEN	94SB370	1,239	45.2
847	995	MILO	94LA3065	21	44.8
848	595	AB OIL MILL	97AB3900	688	44.7
849	1013	HALL ACRES ROAD	94SB9595	1,569	44.6
850	596	BROOKHOLLOW	94CN7580	504	44.5
851	864	SA JACKSON ST	97SA4690	1,140	44.5
852	709	MORRIS STREET	94CS8840	654	44.3
853	1186	WAGGONER	97AB5900	26	44.3
854	479	STAMFORD	97AB2815	716	44.2
855	685	VERNON	97AB1520	731	44.0
856	983	JUNCTION	97SA10805	805	44.0
857	1111	SA JACKSON ST	97SA4695	563	43.8
858	392	SAND ROAD	97AB5290	805	43.7
859	1139	PHARR	94SB1625	1,206	43.7
860	#N/A	SANTA RITA	97SA1135	10	43.6
861	1073	EL CAMPO	94CN5745	936	42.9
862	615	POLK AVENUE	94SB4170	1,477	42.8
863	37	ROBSTOWN	94CS1650	362	42.7
864	503	TAFT	94CS5230	835	42.6
865	1200	GILA	94CS7840	1,005	42.6
866	1148	WASHINGTON STREET	94LA2360	205	42.5
867	23	ROUNDTOP	97AB4490	53	42.4
868	80	NORTH EDINBURG	94SB4240	1,154	42.4
869	774	HARLINGEN SWITCH	94SB4230	1,365	42.2
870	621	GATEWAY	94LA350	2,007	42.1
871	334	HEIGHTS	94LA6820	1,936	41.8
872	1010	AB HARTFORD ST	97AB3820	918	41.7
873	690	TWILIGHT TRAIL	97AB5855	253	41.2
874	593	SANTO NINO	94LA70	1,772	41.2
875	518	AB REBECCA LANE	97AB6915	999	40.9

## Service Quality Report to the Public Utility Commission of Texas

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2021 SAIDI Ranking	2020 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIDI Value
876	1093	SOUTH MISSION	94SB4650	1,021	40.8
877	1223	AB HARTFORD ST	97AB3685	366	40.5
878	1088	AIRLINE	94CS7270	1,035	40.5
879	212	SA NORTH	97SA3120	1,143	40.4
880	846	SHARYLAND	94SB6745	2,136	40.3
881	1000	AB OIL MILL	97AB3895	137	40.2
882	586	PLEASANTON	94LA9505	1,778	40.1
883	1161	SA CONCHO	97SA1705	921	39.6
884	1248	ABILENE PLANT	97AB1740	18	39.6
885	589	HAIN DRIVE	94SB8065	1,375	39.5
886	911	EDITH HUMBLE	97SA6170	81	39.2
887	116	LA GRULLA	94SB6150	1,678	38.9
888	271	QUANAH	97AB3530	335	38.9
889	506	PHARAOH	94CS5185	1,266	38.9
890	1189	AB WALNUT ST	97AB3445	62	38.7
891	889	ABILENE PLANT	97AB1565	279	38.6
892	1193	RESACA	94SB7110	580	38.3
893	761	DEL RIO CITY	94LA440	1,106	38.1
894	640	VICTORIA POWER PLANT	94CN1390	1,093	38.0
895	1220	CABANISS	94CS820	1,218	37.8
896	1114	MINES ROAD	94LA4275	252	37.8
897	617	NORTH ALAMO	94SB4370	1,636	37.8
898	1116	FT DAVIS	97SA3345	528	37.7
899	1195	TAYLOR	94SBSH111	711	37.7
900	474	POLK AVENUE	94SB4180	1,282	37.4
901	223	MARFA	97SA1905	1,163	37.3
902	1143	AB CANYON ROCK	97AB5025	58	37.2
903	285	EAGLE PASS CITY	94LA2650	1,364	37.2
904	1055	MATADOR	97AB3090	310	36.8
905	725	MERKEL	97AB1890	580	36.5
906	825	AB WALNUT ST	97AB3785	583	36.5
907	942	SHARYLAND	94SB5635	2,288	36.2
908	682	CLYDE	97AB1760	466	36.1
909	250	SOUTH EAST EDINBURG	94SB4550	1,354	35.9
910	789	SHARYLAND	94SB2020	2,667	35.8
911	439	DEL MAR	94LA490	798	35.6
912	1122	NORDHEIM	94CN4275	82	35.5
913	1192	PRIMERA	94SB6085	1,464	35.4
914	766	READING	94LA1275	71	35.4
915	521	TRADE ZONE	94SB2060	52	35.3
916	597	TALPA ATLANTIC	97SA5180	64	35.3
917	187	BISHOP	94CS2690	636	35.3
918	421	KITTIE WEST	94CN3760	241	35.1
919	751	NORTH ALAMO	94SB3580	947	35.0
920	#N/A	SAND CRAB	94CN9235	1,198	34.9
921	772	VERNON	97AB5000	251	34.9
922	327	WESLACO UNIT	94SB7455	1,230	34.9
923	645	MINES ROAD	94LA1600	2,066	34.7
924	#N/A	BEN FICKLIN	97SA14065	778	34.5
925	671	KARNES CITY	94CN2340	795	34.1
926	492	NORTH VICTORIA	94CN2240	744	33.9
927	923	NORDHEIM	94CN3380	178	33.9
928	1058	ARANSAS PASS	94CS660	713	33.8
929	79	HEARN ROAD	94CS9665	691	33.5
930	366	MAGRUDER	94CN7690	548	33.4

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2021 SAIDI Ranking	2020 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIDI Value
931	298	HEIGHTS	94LA9400	1,471	33.2
932	143	ALAZAN	94CS2740	36	33.0
933	1251	SANTA RITA	97SA1140	11	32.8
934	887	SOUTH PADRE ISLAND	94SB5850	1,359	32.3
935	511	SEAWALL	94CS9420	808	32.2
936	1005	ABILENE PLANT	97AB1570	966	32.0
937	1031	EL CAMPO	94CN7260	535	32.0
938	1174	YOUNG	94SB3310	1,862	31.9
939	963	NEW BLUFFS	97SA9110	726	31.9
940	1249	JOSLIN POWER PLANT	94CN7915	10	31.8
941	871	CROSS PLAINS	97AB1795	440	31.7
942	10	RIO PECOS	97SA513	17	31.5
943	958	RIO GRANDE CITY	94SB3230	2,724	31.4
944	335	MUNDAY	97AB2080	494	31.3
945	544	MAGRUDER	94CN7870	1,264	31.1
946	970	EL GATO	94SB890	3,417	31.0
947	1124	AB SHELTON ST	97AB3060	1,602	30.7
948	216	MARFA	97SA1900	790	30.7
949	647	ANNA STREET	94LA900	2,856	30.6
950	594	SOUTH PADRE ISLAND	94SB4675	183	30.3
951	653	LEARY LANE	94CN1430	1,893	30.3
952	932	EDEN	97SA3195	524	30.2
953	405	FASHING	94CN360	33	30.2
954	1204	AIRLINE	94CS9030	410	30.1
955	472	LANTANA	94CS4095	194	29.9
956	1125	HIGHLAND	97SA6385	1,338	29.9
957	662	WASHINGTON STREET	94LA6525	2,743	29.8
958	1219	PIRATE	94CS3490	473	29.6
959	794	MAYBERRY	94SB1790	1,822	29.5
960	109	SA WALNUT ST	97SA3925	886	29.3
961	490	IRAAN	97SA2055	233	28.9
962	388	PHARR	94SB1650	892	28.7
963	451	CITRUS CITY	94SB7985	1,192	28.7
964	525	FT DAVIS	97SA4515	994	28.6
965	1017	TURKEY	97AB2980	330	28.5
966	820	NORTH WESLACO	94SB4830	530	28.5
967	917	WEST MCALLEN	94SB4505	1,905	28.5
968	933	SA GRAPE CREEK	97SA5220	715	28.5
969	726	HIGHWAY 9	94CS6730	547	28.2
970	63	SOUTH EAST EDINBURG	94SB5045	1,740	28.0
971	1194	COTULLA	94LA110	57	28.0
972	778	WASHINGTON STREET	94LA2470	452	27.9
973	881	VICTORIA POWER PLANT	94CN8070	599	27.9
974	514	POLK AVENUE	94SB4190	1,728	27.8
975	1260	TEX/NEW MEX PIPELINE	97SA9045	17	27.8
976	827	SANTO NINO	94LA80	1,921	27.4
977	422	NORTH EDINBURG	94SB560	2,112	27.4
978	440	CHILLICOTHE	97AB4530	496	27.4
979	1089	EAST HARRISON	94SB3030	684	27.3
980	943	CISCO	97AB7400	830	27.3
981	1246	MUNDAY REA (BKEC)	97AB2015	21	27.0
982	937	ARANSAS PASS	94CS650	1,157	26.9
983	642	CHILDRESS 69	97AB1480	297	26.8
984	591	SA SOUTH	97SA3990	752	26.8
985	551	FT CHADBOURNE	97SA6520	556	26.7

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2021 SAIDI Ranking	2020 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIDI Value
986	1119	COLLEGE HILLS	97SA4840	213	26.6
987	1163	AB ELM CREEK	97AB1815	393	26.6
988	704	BRONTE	97SA3590	179	26.3
989	787	PUEBLO	94LA95	1,377	25.9
990	1071	AB OVER STREET 12KV	97AB1840	885	25.6
991	852	SAN BENITO	94SB4135	1,393	25.2
992	874	AB RAINEY CREEK	97AB4550	998	25.1
993	947	NORTH VICTORIA	94CN7860	1,509	25.1
994	719	AB MCMURRY	97AB4360	1,120	24.6
995	754	VERNON CITY PLANT	97AB5775	824	24.3
996	#N/A	BLACK CAT	94CN2960	1,432	24.3
997	628	CEDAR GAP (TEC)	97AB4115	963	24.2
998	868	SAN YGNACIO	94LA16060	520	24.2
999	#N/A	READING	94LA1385	1,371	24.0
1000	885	SA LAKE DR	97SA5880	740	23.9
1001	883	SA GRAPE CREEK	97SA5365	843	23.7
1002	363	POLK AVENUE	94SB4520	966	23.7
1003	#N/A	RESACA	94SB8700	637	23.5
1004	713	AB SHELTON ST	97AB3660	652	23.5
1005	102	HAWLEY	97AB4455	652	23.4
1006	1166	LAREDO PLANT	94LA8505	1,052	23.4
1007	1242	AB EAST 12KV	97AB4825	414	23.0
1008	1020	SA COKE ST	97SA4910	1,805	22.9
1009	367	DILLEY	94LA510	562	22.8
1010	1162	BAIRD	97AB5120	469	22.7
1011	791	MCCOLL ROAD	94SB4400	1,134	22.6
1012	550	AB VOGEL ST	97AB4560	1,492	22.5
1013	504	LA GRULLA	94SB4120	1,515	22.1
1014	396	JOURDANTON	94LA250	772	21.9
1015	571	SA NORTH	97SA3115	574	21.8
1016	1171	ALPINE 12KV	97SA3155	1,366	21.7
1017	424	POLK AVENUE	94SB4610	157	21.6
1018	920	THREE RIVERS	94CN2580	121	21.6
1019	462	GATEWAY	94LA390	3,532	21.4
1020	865	SILVER	97SA4295	15	21.2
1021	520	CISCO	97AB1020	476	21.2
1022	833	ALPINE 12KV	97SA3160	1,043	21.1
1023	59	RIO BRAVO	94LA300	786	21.1
1024	720	BUENA VISTA	94LA9035	2,036	20.6
1025	1039	ESCONDIDO	94LA3775	218	20.2
1026	387	MERTZON (CVEC)	97SA1530	339	20.2
1027	1149	KENEDY S.S.	94CN6750	65	20.2
1028	297	RODD FIELD	94CS205	2,143	20.1
1029	108	POLK AVENUE	94SB4600	158	20.0
1030	1173	AB SHELTON ST	97AB3145	1,081	19.7
1031	117	SARAGOSA	97SA14080	51	19.6
1032	590	COTULLA	94LA90	1,062	19.4
1033	469	NORTH MCALLEN	94SB3830	1,418	19.4
1034	184	AB RAINEY CREEK	97AB4220	210	19.4
1035	796	LEARY LANE	94CN6175	2,456	19.2
1036	734	KENEDY	94CN6270	553	19.2
1037	1151	ARANSAS PASS	94CS9130	449	19.2
1038	749	ABILENE PLANT	97AB1735	88	18.9
1039	488	COLLEGE HILLS	97SA6145	998	18.7
1040	247	HEIGHTS	94LA2450	2,105	18.4

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1041	1203	FT CHADBOURNE	97SA6515	87	18.4
1042	1209	AB OVER STREET 12KV	97AB1635	519	18.3
1043	630	MCKENZIE ROAD	94CS150	26	18.2
1044	1176	ALPINE 12KV	97SA6820	785	18.2
1045	775	WASHINGTON STREET	94LA2350	3,063	18.1
1046	399	RUSSEK STREET	97SA7705	1,346	18.1
1047	1211	BEEVILLE	94CN2380	217	18.0
1048	648	SA GRAPE CREEK	97SA4700	746	17.9
1049	288	SA EMERSON ST	97SA4630	1,258	17.9
1050	378	RANKIN	97SA6400	69	17.6
1051	972	ZACATE CREEK	94LA2665	1,717	17.5
1052	986	SOUTH MCALLEN	94SB3640	198	17.5
1053	786	MCCOLL ROAD	94SB4790	2,093	17.5
1054	988	MCCOLL ROAD	94SB5485	1,059	17.4
1055	#N/A	RESACA	94SB9975	547	17.4
1056	788	SPUR	97AB5170	370	17.2
1057	976	STAMFORD	97AB6255	437	17.1
1058	635	AB ELM CREEK	97AB4775	890	17.0
1059	263	MELVIN	97SA4955	83	16.8
1060	1047	HALL ACRES ROAD	94SB8870	2,489	16.7
1061	664	CHILDRESS 69	97AB4865	771	16.7
1062	1059	BRONTE	97SA4160	215	16.7
1063	934	AB MCMURRY	97AB4350	700	16.6
1064	1019	GATEWAY	94LA3595	1,512	16.6
1065	1004	CISCO	97AB9715	997	16.5
1066	851	AB MCMURRY	97AB3235	796	16.5
1067	505	CHILDRESS 69	97AB1800	547	16.3
1068	1102	LAS CRUSES	94LA8530	80	16.3
1069	732	HALL ACRES ROAD	94SB5465	1,448	16.1
1070	821	AB CANYON ROCK	97AB5035	820	16.0
1071	1080	SA JACKSON ST	97SA4685	1,463	15.9
1072	491	GREGORY	94CS2420	909	15.9
1073	816	EDNA	94CN5785	1,285	15.9
1074	1050	ROCHESTER	97AB3295	217	15.6
1075	893	AB VOGEL ST	97AB4405	592	15.5
1076	1038	HOLLY	94CS1220	3,402	15.4
1077	1170	SA AVENUE N	97SA1975	323	15.3
1078	270	SA WALNUT ST	97SA3920	912	15.2
1079	1082	SA JACKSON ST	97SA4260	666	15.0
1080	317	NORTH MCALLEN	94SB2750	3,040	14.9
1081	603	HAMILTON ROAD	94LA9655	1,319	14.8
1082	#N/A	SAND CRAB	94CN6800	1,138	14.7
1083	1078	TWILIGHT TRAIL	97AB4285	1,154	14.6
1084	205	SA WALNUT ST	97SA4635	1,570	14.5
1085	1026	DEL RIO CITY	94LA9790	2,341	14.5
1086	1127	REFUGIO	94CN1170	850	14.2
1087	1101	MILO	94LA8365	2,086	14.1
1088	1187	EAST HARRISON	94SB3000	543	14.0
1089	356	ROTAN	97AB1860	711	13.9
1090	866	TYNAN	94CS4010	45	13.7
1091	543	SPUR	97AB260	163	13.7
1092	914	AB OVER STREET 12KV	97AB1645	801	13.4
1093	925	GONZALES	97SA15390	1,384	13.2
1094	1196	ABILENE PLANT	97AB1575	616	13.2
1095	1253	JOSLIN POWER PLANT	94CN8720	24	13.0

## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIDI Ranking	2020 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIDI Value
1096	940	THROCKMORTON	97AB3190	644	12.9
1097	1112	RODD FIELD	94CS3010	2,072	12.9
1098	905	AB COUNTRY CLUB	97AB4735	124	12.9
1099	307	RUSSEK STREET	97SA250	143	12.8
1100	1001	TWILIGHT TRAIL	97AB11500	1,041	12.7
1101	497	CASA BLANCA	94CS5440	138	12.7
1102	1115	AIRLINE	94CS8890	516	12.7
1103	1003	AFTON	97AB2355	44	12.5
1104	125	ROARING SPRINGS	97AB6155	30	12.5
1105	1007	MORRIS STREET	94CS8850	421	12.5
1106	1075	SA SOUTHLAND HILLS	97SA5455	1,437	12.2
1107	214	QUANAH	97AB3100	559	12.2
1108	733	MCCOLL ROAD	94SB1655	1,488	12.2
1109	1106	COLLEGE HILLS	97SA5520	436	12.2
1110	815	AB DYESS 1	97AB1775	826	12.2
1111	489	LEARY LANE	94CN6005	1,376	12.1
1112	1108	NEW BLUFFS	97SA7280	1,588	11.8
1113	1123	ROBERT LEE	97SA4120	547	11.6
1114	393	WESLACO UNIT	94SB2195	1,121	11.6
1115	499	BROOKHOLLOW	94CN7190	280	11.5
1116	1202	HEINES	94CS7875	1,823	11.2
1117	998	WEST MCALLEN	94SB4965	959	11.2
1118	679	DEL MAR	94LA3440	1,812	11.1
1119	1016	MILO	94LA5020	111	10.9
1120	545	SA NORTH	97SA3125	1,400	10.9
1121	494	CHRISTOVAL	97SA6615	442	10.9
1122	449	CLYDE	97AB3630	629	10.7
1123	661	EDEN	97SA1780	229	10.7
1124	1197	ROBY	97AB2276	325	10.7
1125	1135	ZACATE CREEK	94LA2675	1,220	10.6
1126	757	THREE RIVERS	94CN2010	314	10.5
1127	573	DEL MAR	94LA2120	1,325	10.3
1128	364	HEIGHTS	94LA6810	2,118	10.3
1129	1178	SA EMERSON ST	97SA4620	433	10.3
1130	817	COMSTOCK	94LA230	181	10.2
1131	1044	UNIVERSITY	94LA465	919	10.0
1132	948	CEDAR GAP (TEC)	97AB5445	500	9.9
1133	738	BALLINGER	97SA4395	532	9.6
1134	#N/A	PANTERA	94SB1315	3,017	9.6
1135	888	AFTON	97AB2310	245	9.5
1136	295	HEIGHTS	94LA2390	1,724	9.5
1137	#N/A	PANTERA	94SB1915	869	9.5
1138	684	GONZALES	97SA14685	1,087	9.3
1139	97	EAGLE PASS CITY	94LA2745	930	9.1
1140	434	CLARKWOOD	94CS7220	936	9.1
1141	540	WASHINGTON STREET	94LA6355	961	9.1
1142	1164	SA AVENUE N	97SA1655	488	9.0
1143	862	AB SHELTON ST	97AB3050	661	9.0
1144	1236	FLOMOT	97AB81335	30	8.8
1145	990	MAYBERRY	94SB5770	888	8.8
1146	907	AB MCMURRY	97AB4355	1,026	8.8
1147	951	AB WALNUT ST	97AB3110	676	8.8
1148	302	RAYMONDVILLE #2	94SB4160	342	8.8
1149	482	SA LAKE DR	97SA5865	1,065	8.7
1150	280	AILEEN	97AB6435	847	8.6



## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIDI Ranking	2020 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIDI Value
1151	718	CLOSNER	94SB6430	1,023	8.6
1152	758	PADUCAH CITY	97AB1935	281	8.5
1153	608	SANTO NINO	94LA645	1,431	8.3
1154	1060	VERNON	97AB3340	530	8.2
1155	1137	MATADOR	97AB3030	215	8.2
1156	71	SONORA	97SA2045	612	8.2
1157	1096	PADUCAH CITY	97AB1930	570	8.2
1158	1068	BENJAMIN (BEPC)	97AB5680	160	8.1
1159	1066	AB EAST 12KV	97AB4820	1,157	8.0
1160	1169	TWILIGHT TRAIL	97AB4290	1,218	8.0
1161	811	AB OVER STREET 12KV	97AB3140	681	7.9
1162	1023	AB REBECCA LANE	97AB5550	717	7.9
1163	1029	CROWELL	97AB3980	477	7.8
1164	1035	YOUNG	94SB4435	840	7.7
1165	1053	ANSON REA (SEC)	97AB5215	251	7.7
1166	896	EAST HARRISON	94SB3080	470	7.7
1167	1076	SIERRA VISTA	94LA7360	1,671	7.5
1168	935	SA EMERSON ST	97SA4625	421	7.1
1169	747	SA AVENUE N	97SA1730	822	7.1
1170	904	AB ELM CREEK	97AB1810	835	7.0
1171	16	QUANAH	97AB100	90	7.0
1172	579	WASHINGTON STREET	94LA7015	1,557	6.6
1173	1238	AB ONYX REA	97AB3255	24	6.6
1174	1179	AB MCMURRY	97AB3240	772	6.5
1175	981	ANNA STREET	94LA780	472	6.4
1176	426	STADIUM	94LA7800	686	6.3
1177	1009	CHILDRESS 20TH ST	97AB5720	182	6.3
1178	572	HIGHLAND	97SA6375	295	6.1
1179	477	PLASTERCO (MWEC)	97AB2720	111	6.0
1180	899	WYLIE	97AB2675	810	6.0
1181	274	NEW BLUFFS	97SA3005	294	6.0
1182	1008	ANSON 12KV	97AB6630	710	5.9
1183	834	SOUTH MCALLEN	94SB3935	956	5.9
1184	495	BRONTE AMBASSADOR	97SA6650	14	5.9
1185	242	UNIVERSITY	94LA950	2,698	5.8
1186	605	RANKIN	97SA6405	371	5.7
1187	802	HIGHLAND	97SA6370	277	5.6
1188	1043	WEINERT	97AB6490	132	5.6
1189	1182	TWILIGHT TRAIL	97AB3150	725	5.5
1190	971	SIERRA VISTA	94LA9900	2,314	5.4
1191	9	UNITEC	94LA4715	40	5.4
1192	1158	SOUTHSIDE	94CS5345	502	5.3
1193	974	SIERRA VISTA	94LA7170	1,451	5.2
1194	1207	LAREDO PLANT	94LA8705	173	5.1
1195	#N/A	DUST DEVIL	94LA1495	2,034	5.0
1196	894	AB EAST 12KV	97AB4830	988	4.9
1197	1057	WYLIE	97AB6495	365	4.8
1198	779	SAN BENITO	94SB3860	244	4.7
1199	1185	COLLEGE HILLS	97SA4835	483	4.6
1200	1126	BRONTE	97SA3560	258	4.5
1201	1074	HASKELL 12KV	97AB5240	645	4.5
1202	570	SA MATHIS FIELD	97SA5100	291	4.4
1203	980	SA SOUTHLAND HILLS	97SA5050	886	4.4
1204	231	PAINT ROCK	97SA1110	67	4.3
1205	1033	SA SOUTHLAND HILLS	97SA5055	854	4.2

## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIDI Ranking	2020 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIDI Value
1206	1157	SANTO NINO	94LA695	1,612	4.0
1207	782	BALLINGER	97SA4370	838	4.0
1208	136	ARANSAS PASS	94CS8270	399	3.9
1209	790	AB COUNTRY CLUB	97AB4730	542	3.8
1210	1095	SOUTH MCALLEN	94SB5065	149	3.8
1211	417	MAYBERRY	94SB3010	113	3.7
1212	1063	AB SHELTON ST	97AB4640	658	3.5
1213	#N/A	SAND CRAB	94CN8390	541	3.3
1214	294	SA WALNUT ST	97SA3910	150	3.3
1215	938	SA SOUTHLAND HILLS	97SA5860	1,203	3.0
1216	650	TRUSCOTT	97AB3845	32	3.0
1217	1141	UNIVERSITY	94LA920	872	3.0
1218	1103	CHILDRESS 20TH ST	97AB5725	667	2.9
1219	493	HAMLIN	97AB3775	249	2.8
1220	1150	AB SHELTON ST	97AB3045	550	2.8
1221	992	WEST MCALLEN	94SB4815	661	2.8
1222	1183	AB COUNTRY CLUB	97AB4725	229	2.7
1223	895	VALADEZ	94CS8800	1,583	2.6
1224	1167	ROARING SPRINGS	97AB2065	218	2.6
1225	1205	CHILDRESS 69	97AB2800	348	2.5
1226	1191	SOUTH EAST EDINBURG	94SB4015	376	2.4
1227	1064	RANKIN	97SA7425	121	2.3
1228	1130	SA SOUTH	97SA4795	1,355	2.2
1229	#N/A	MAYO	94CS500	25	2.1
1230	289	SA SOUTH	97SA3500	558	2.1
1231	783	BALLINGER	97SA4375	1,070	2.0
1232	412	HEINES	94CS2185	1,106	1.9
1233	119	SA WALNUT ST	97SA3915	715	1.9
1234	1002	AB ELM CREEK	97AB1820	97	1.4
1235	485	PAINT ROCK	97SA5235	137	1.3
1236	1199	SPUR	97AB300	214	1.2
1237	700	AB ELM CREEK	97AB1825	216	1.2
1238	849	KENEDY	94CN1960	68	1.0
1239	#N/A	HEINES	94CS8480	150	0.9
1240	666	COLLEGE HILLS	97SA4845	442	0.8
1241	1097	TAYLOR	94SBSH112	990	0.7
1242	968	TRADE ZONE	94SB2220	70	0.7
1243	1224	KENEDY S.S.	94CN8320	142	0.6
1244	574	NORTH MCCAMEY	97SA6555	843	0.5
1245	912	AB REBECCA LANE	97AB5555	1,286	0.5
1246	1225	AILEEN	97AB4600	261	0.3
1247	#N/A	LAS CRUSES	94LA9865	366	0.2
1248	1198	RUSSEK STREET	97SA12295	292	0.2
1249	1214	BENTSEN	94SBSH211	373	0.1
1250	1227	MORRIS STREET	94CSBLACK	89	0.0
1251	1226	BENTSEN	94SBSH215	40	0.0
1252	#N/A	UNITEC	94LA5895	37	0.0
1253	#N/A	TRADE ZONE	94SB1935	40	0.0
1254	1233	MORRIS STREET	94CSYELLOW	44	0.0
1255	559		94CNVred	44	0.0
1256	#N/A	DUST DEVIL	94LA1380	41	0.0
1257	1241	SA CONCHO	97SA1725	26	0.0
1258	1247	WASHINGTON STREET	94LA2330	62	0.0
1259	558		94CNVbrown	16	0.0
1260	557		94CNVgreen	29	0.0

## Service Quality Report to the Public Utility Commission of Texas

### AEP Texas Inc.

2021 SAIDI Ranking	2020 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2021 SAIDI Value
1261	1250	WASHINGTON STREET	94LA2320	34	0.0
1262	1232	MORRIS STREET	94CSNET CC	317	0.0
1263	1229	AB WALNUT ST	97AB3250	11	0.0
1264	1136	SWENSON	97AB136	28	0.0
1265	838	HAMLIN SHELL	97AB6330	25	0.0
1266	1243	WASHINGTON STREET	94LA2310	47	0.0
1267	1244	VICTORIA POWER PLANT	94CNNETVIC	88	0.0
1268	1218	COLLEGE HILLS	97SA5515	351	0.0
1269	1245	BARNHART	97SA590	18	0.0
1270	1257	WASHINGTON STREET	94LANETLAR	163	0.0
1271	1234	MORRIS STREET	94CSRED	149	0.0
1272	464	CROCKETT HEIGHTS	97SA73703	69	0.0
1273	1216	ABILENE PLANT	97AB3175	123	0.0
1274	1240	MORRIS STREET	94CSBROWN	64	0.0
1275	#N/A	ABILENE INDUSTRIAL PARK	97AB6600	10	0.0
1276	248	BRYANTS RANCH	97SA205	21	0.0
1277	#N/A	STAFFORD HILL	94CN9955	82	0.0
1278	1228	MORRIS STREET	94CSGREEN	233	0.0
1279	1262	ESPY WELLS	97SA50207	31	0.0
1280	1258	WASHINGTON STREET	94LA6890	21	0.0
1281	1237	MAYBERRY	94SB6450	28	0.0
1282	1235	MAYBERRY	94SB5340	37	0.0
1283	1261	KIRKLAND	97AB3545	29	0.0
1284	1153	TAYLOR	94SBSH114	607	0.0
1285	NA	PANTERA	94SB1765	112	0.0
1286	NA	DONNA SKID	94SBTX_B	524	0.0
1287	NA	GOODLETT	97AB12205	48	0.0
1288	NA	STEAMBOAT	97AB12515	68	0.0
1289	NA	MILES	97SA11330	171	0.0

### Feeders from last year that are not in this year's list

2020 Ranking	Substation Identification	Feeder ID	Reason not in 2021		
7	CLIMAX/BRADSHAW	97AB11301	Customer count is now under 10		
32	RAYMONDVILLE #2	94SB3250	Customer count is now under 10		
118	RANGERVILLE	94SB3410	Customer count is now under 10		
257	ACME BESTWALL	97AB4150	Customer count is now under 10		
332	RAYMONDVILLE #2	94SB1280	Customer count is now under 10		
368	PORT LAVACA	94CN8310	Customer count is now under 10		
375	PORT LAVACA	94CN6850	Customer count is now under 10		
767	BENTSEN	94SBSH214	Customer count is now under 10		
926	PORT LAVACA	94CN2490	Customer count is now under 10		
987	HOMEPORT	94CS4065	Customer count is now under 10		
1087	MCCAMEY	97SA3670	Customer count is now under 10		
1132	PORT LAVACA	94CN2480	Customer count is now under 10		

Service Quality Report to the Public Utility Commission of Texas

**AEP Texas Inc.**

**INTERRUPTION CAUSES**

Provide the percentage of interruptions attributable to each cause.

2021 Reporting Year

<b>Causes of Forced Interruptions</b>	<b>Percentage</b>
Utility-Owned Equipment	45.02%
Weather (including lightning)	20.45%
Vegetation	14.79%
Unknown	11.58%
Animals and Birds	5.81%
People (including cars and farm eqpt)	2.34%
Other	0.01%



# AEP TEXAS INC.

## Reporting Year 2021 SQR Addendum

### Abstract

Document for discussion of the 2020 Service Quality Report.  
Reviewed by Steven Beaty AEP Regulatory Consultant, prepared by Scott Lee AEP Reliability Mgr.  
and Michael Nikolauk Reliability Engineer

**2020 System SAIFI and SAIDI**

**Reported vs. Standard for 2020:**

The 2020 system SAIFI for AEP Texas as reported was 1.250 outages per customer which exceeded the service quality standard of 1.2453 by 0.38%. This is below the 105% threshold.

The 2020 system SAIDI for AEP Texas as reported was 146.54 minutes per year which exceeded the service quality standard of 134.6114 by 8.86%. The system SAIDI has exceeded the 105% threshold for 2 years.

The purpose of this document is to report on AEP Texas’ efforts to improve the reliability of the ten feeders that exceeded 300% of the 2020 system average SAIFI and SAIDI for two or more consecutive years. Three of these Worst Performing Feeders are on both the SAIFI and SAIDI list, the remaining seven are SAIDI violators only.

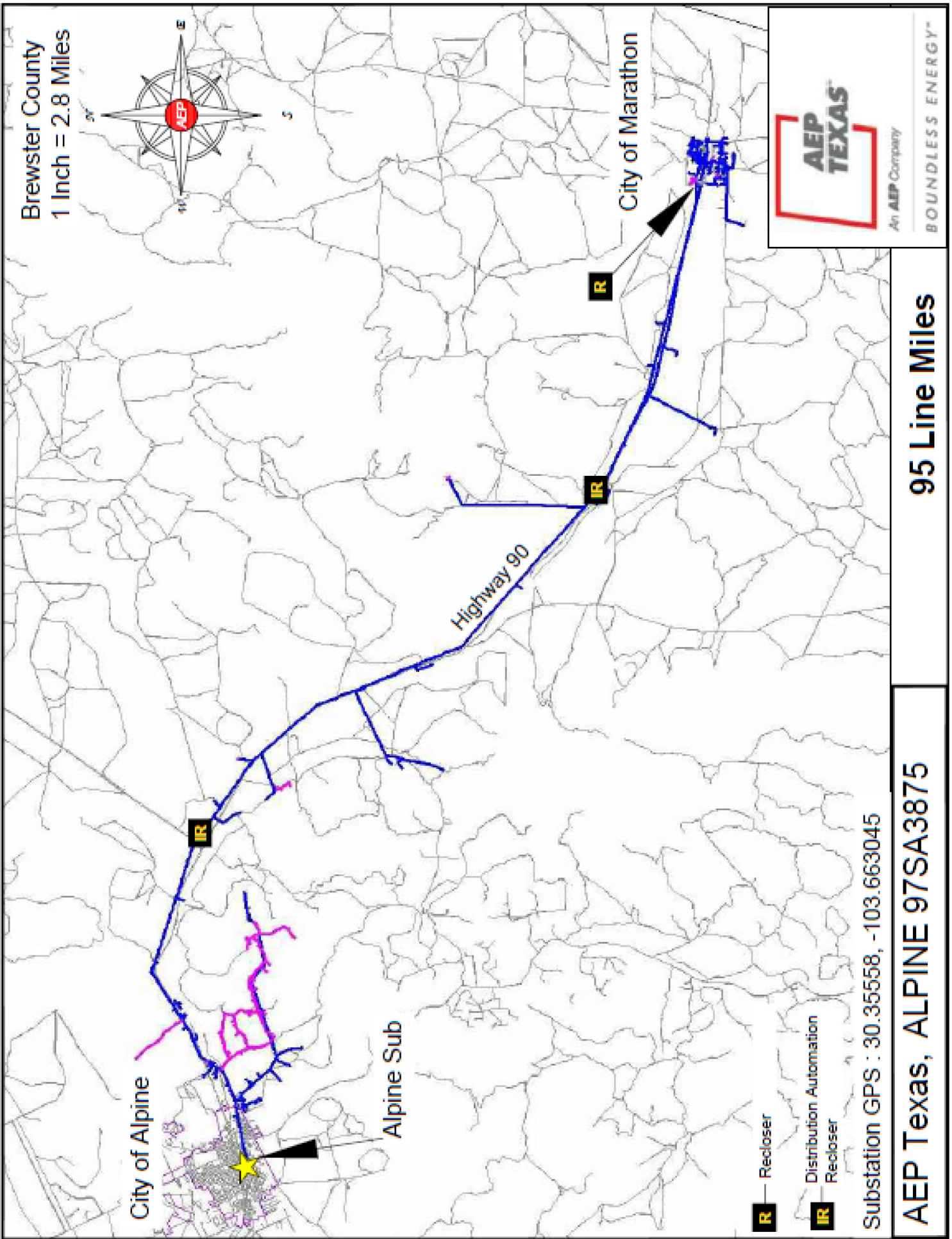
**2020 Notice of Violation List, AEP Texas Inc.:**

Indices for Forced Interruptions with 10 or more customers  
 Total number of feeders: 1220

2020 SAIFI Rank	2019 SAIFI Rank	2018 SAIFI Rank	Substation Identification	Feeder Identification	No. of Cust.	2020 SAIFI Value	2019 SAIFI Value	2018 SAIFI Value	2020 Years on WPF
19	4	2	ALPINE 12KV	97SA3875	634	5.248	10.051	13.369	3
7	12	23	ALAZAN	94CS620	163	6.172	6.73	5.102	2
6	3	236	LA PRYOR	94LA570	172	8.622	10.376	2.172	2

2020 SAIDI Rank	2019 SAIDI Rank	2018 SAIDI Rank	Substation Identification	Feeder Identification	No. of Cust.	2020 SAIDI Value	2019 SAIDI Value	2018 SAIDI Value	2020 Years on WPF
3	3	50	ALPINE 12KV	97SA3875	634	639.6	2,261.4	4,208.9	3
6	10	12	ALAZAN	94CS620	163	1,561.0	1,393.4	829.6	2
4	7	101	LA PRYOR	94LA570	172	1,952.4	2,316.1	390.5	2
11	19	18	SHROPSHIRE	94CN3575	33	1,184.9	964.2	739.6	3
25	12	32	ARMSTRONG	94CS6050	80	845.3	1,329.4	636.7	3
45	39	454	STAFFORD HILL	94CN1550	228	666.0	688.7	128.9	2
37	49	776	ROBSTOWN	94CS1650	363	739.2	637.4	44.9	2
14	23	105	LA PRYOR	94LA580	266	1,038.4	888.3	380.1	2
7	22	330	CLIMAX/BRADSHAW	97AB11301	66	1,459.9	894.1	186.4	2
56	32	401	AB RAINEY CREEK	97AB4225	116	596.8	738.4	147.9	2





## **Circuit Description:**

Alpine 97SA3875 is a rural feeder that starts in the City of Alpine and extends 30 miles southeast along U.S. Hwy. 90 to serve the City of Marathon in northern Brewster County. The 12.5kV feeder steps up to 25kV one mile outside Alpine and steps back down to 12.47kV just before the city of Marathon. There is also a 4.16kV system serving part of Marathon. There are 63 miles of conductor and 625 customers served by the feeder. Overhead construction consists of wood poles with crossarms. The underground portion is primarily encased in PVC conduit. The majority of the customers are residential and commercial in the City of Marathon. The terrain is a combination of rolling grasslands and some mountainous areas with significant elevation changes. The peak load in 2020 was 1.8MVA.

- The feeder was built in 1928. It has had many upgrades and additions over the years.
- There were no vegetation outages in 2018, 2019, or 2020.
- The Company's service center is located in Alpine half a mile from the substation, and 33 miles from the feeder end.
- Repeat interruptions were due to equipment failures, but all the failures occurred for different reasons: distribution on T-pole down from high winds, breaker failed to close, lockout on NRO, burnt sectionalizer, breaker opened by dispatch to replace step-down, downed primary during weather event, and failed jumper connection. Repeat outages from customer minutes out (SAIDI) were due also to equipment failure.
- The repeat interruptions from the "other" category are different for each year. In 2018, the two main "other" causes were high winds and construction problems. In 2019, the two main "other" causes were high winds and contamination. In 2020 there was two breaker lockouts due to unknown faults.
- The substation is protected by SMD-1A fuses, the feeder breaker is a Mitsubishi VCB with SEL 351S electronic relay. All taps on the 25kV are fused keeping the main trunk line all the way to Marathon in the breaker zone. The 12kV circuit in Marathon is protected by single phase reclosers and multiple tap line fuses with a fuse saving timing curve on the reclosers.
- Since this feeder has been on the WPF list, a major distribution line rebuild project was completed in 2019 and 2020 for \$2.26 million. This project consisted of replacing 21 miles of forty plus year old #2ACSR feeder constructed across open pastures with new #4/0 ACSR constructed on highway right of way using present circuit hardening designs.
- The substation communications and breaker relays were updated in 2018 to prepare for future DACR programs. In 2021, two DA reclosers were installed for sectionalizing. In 2022, three more DA reclosers are being installed for a load transfer scheme at the beginning of the feeder. In case of a breaker outage or loss of substation transformer bank, the load will transfer to the adjacent feeder and bank.
- An ongoing reliability project includes converting the old 4kV distribution system in Marathon to our standard 7.2kv/12.47kV wye system. This includes insulator upgrades, some pole work, and replacing 140 transformers. About half of the town is already converted, this is a three year project.
- There is one AEP Texas Reliability Engineer in San Angelo District responsible for reliability and mitigation projects, budgeting, and automation planning. There are two operations technicians responsible for equipment inspection and replacement. A Distribution Supervisor in the Marfa Service Center oversees outage restoration, service, and construction.



AEP Texas Inc., San Angelo District  
 Substation: Alpine 12kV, Circuit ID: 97SA3875  
**2020 SAIFI and SAIDI List (2 Years repeat)**

**Circuit Ranking:**

Information	2018	2019	2020
Customer Count	536	625	634
SAIFI Rank	2	4	19
SAIFI Value	13.369	10.051	5.248
300% System Avg.	5.29	5.31	5.02
SAIDI Rank	1	5	48
SAIDI Value	4208.9	2261.4	639.6
300% System Avg.	547.5	584.6	586.2
# Circuits @ AEP Texas Inc.	1200	1220	1220
NOAA *	2	7	3

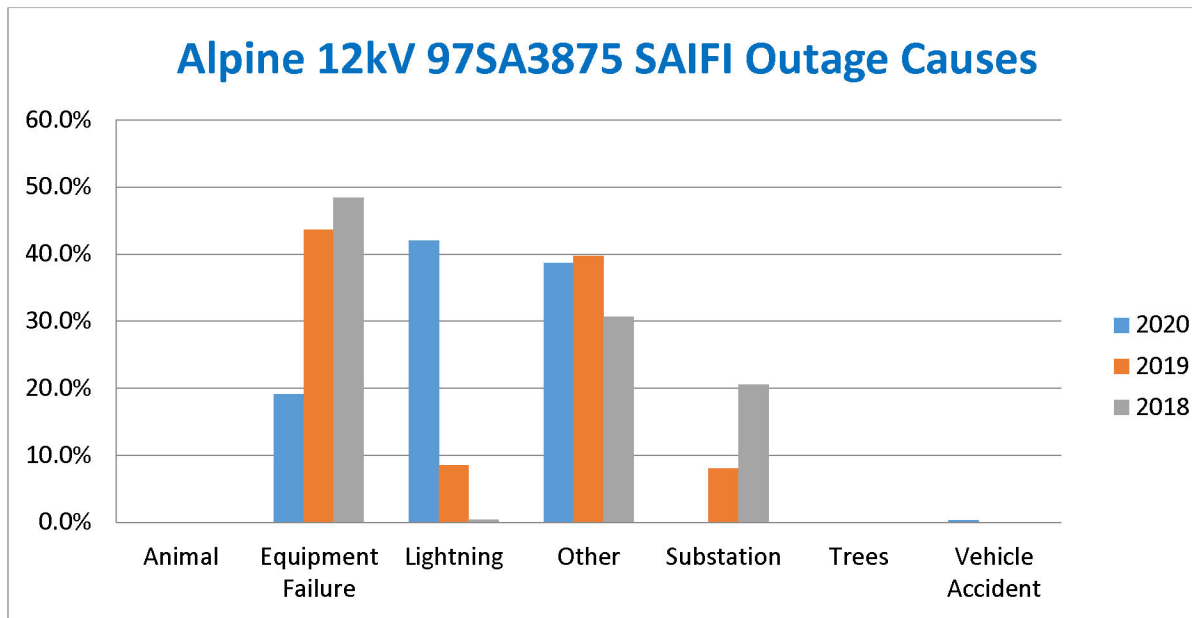
\* NOAA – This is the number of thunderstorm, high wind, and ice events from the U.S. Local Storm Events Data for the county in the circuit route between January 1<sup>st</sup> to December 31<sup>st</sup> of the given year.

**Remediation & Cost:**

The reliability work plan for the circuit consisted of the following elements. The cost includes the remediation work as well as any other items done to address reliability on the circuit.

Projects	2016	2017	2018	2019	2020	2021	Sum
Sectionalizing							\$0
Failed Equip No Outage	\$944	\$3,634	\$7,581	\$6,136	\$31,118		\$49,413
Power Quality	\$3,810	\$5,569		\$1,602			\$10,981
Small Asset Improvement					\$25,006	\$201	\$25,207
Crossarm C/O							\$0
Pole Reinforcement							\$0
Pole Replacement		\$3,228	\$13,982		\$4,364		\$21,574
Distribution Underbuild			\$41,171	\$311	\$106,428		\$147,910
Repair After Patrol	\$4,893		\$3,833				\$8,726
Feeder Ties			\$216,912	\$2,093,769	\$192,346		\$2,503,027
System Hardening	\$73,220	\$36,450	\$58,182	-\$95,195	\$23,171		\$95,828
Distribution Automation					\$86,550	\$6,880	\$93,430
Sum	\$82,867	\$48,881	\$341,661	\$2,006,623	\$468,983	\$7,081	\$2,956,096

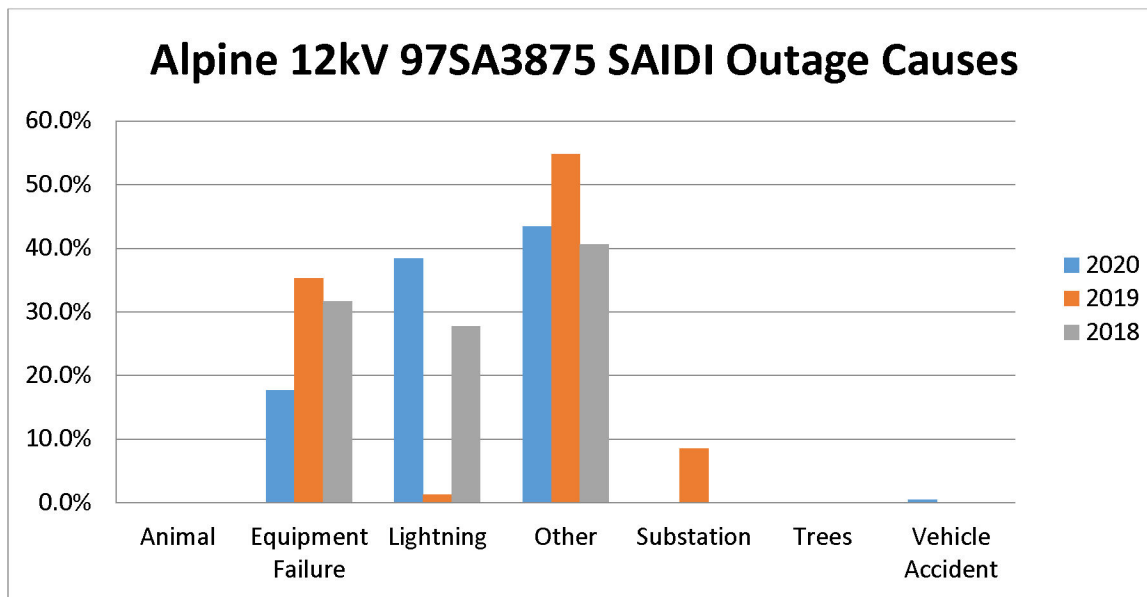
**SAIFI Outage Causes:**



The following table illustrates the make up of the “Other” category in the above graph. The percent SAIFI contribution for each category of “Other” are listed by year:

Year	Major Cause Code Description	Minor Cause Code Description	SAIFI % OTHER
2018	DISTRIBUTION LINE	CONTAMINATION / FLASHOVER	23.6%
	DISTRIBUTION LINE	ERROR - FIELD	47.4%
	DISTRIBUTION LINE	FOREIGN OBJECT	3.3%
	DISTRIBUTION LINE	UNKNOWN NON-WEATHER	2.1%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	0.1%
	DISTRIBUTION LINE	WEATHER - HIGH WINDS > 60MPH	23.4%
2019	DISTRIBUTION LINE	CONTAMINATION / FLASHOVER	21.2%
	DISTRIBUTION LINE	ERROR - FIELD	21.0%
	DISTRIBUTION LINE	WEATHER - HIGH WINDS > 60MPH	39.9%
	DISTRIBUTION LINE	WEATHER - ICE	0.2%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	17.7%
2020	DISTRIBUTION LINE	FOREIGN OBJECT	0.6%
	DISTRIBUTION LINE	UNKNOWN NON-WEATHER	97.9%
	DISTRIBUTION LINE	WEATHER - ICE	0.9%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	0.6%

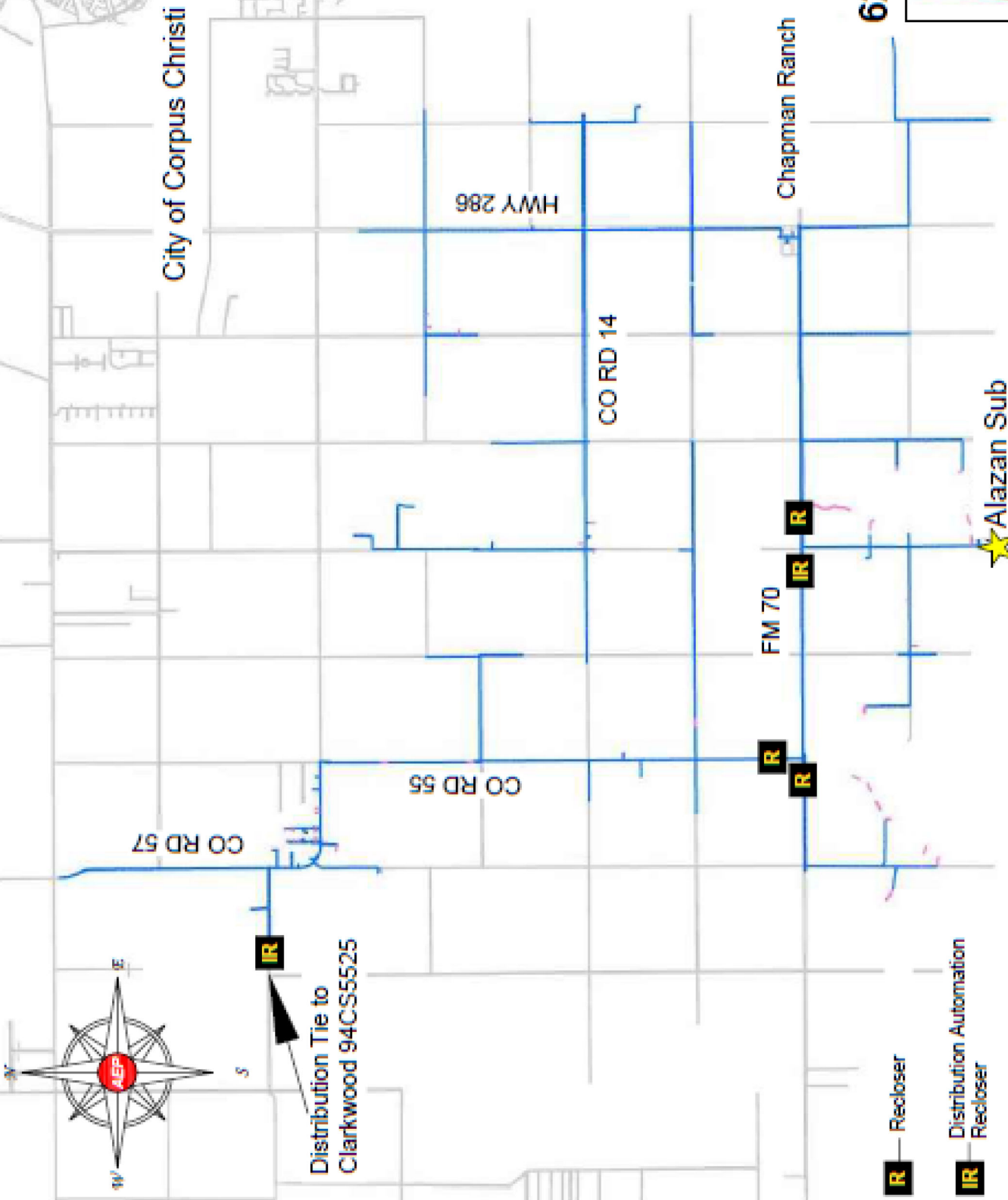
**SAIDI Outage Causes:**



The following table illustrates the make up of the “Other” category in the above graph. The percent SAIDI contribution for each category of “Other” are listed by year:

Year	Major Cause Code Description	Minor Cause Code Description	SAIDI % OTHER
2018	DISTRIBUTION LINE	ABNORMAL FEED	13.6%
	DISTRIBUTION LINE	CONTAMINATION - FLASHOVER	6.7%
	DISTRIBUTION LINE	ERROR - FIELD	13.3%
	DISTRIBUTION LINE	FOREIGN OBJECT (NON ANIMAL)	0.7%
	DISTRIBUTION LINE	UNKNOWN NON-WEATHER	0.3%
	DISTRIBUTION LINE	WEATHER - HIGH WINDS >60MPH	65.4%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	0.0%
2019	DISTRIBUTION LINE	CONTAMINATION - FLASHOVER	11.1%
	DISTRIBUTION LINE	ERROR - FIELD	0.5%
	DISTRIBUTION LINE	WEATHER - HIGH WINDS >60MPH	78.1%
	DISTRIBUTION LINE	WEATHER - ICE	0.1%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	10.3%
2020	DISTRIBUTION LINE	FOREIGN OBJECT (NON ANIMAL)	0.2%
	DISTRIBUTION LINE	UNKNOWN NON-WEATHER	95.9%
	DISTRIBUTION LINE	WEATHER - ICE	3.8%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	0.1%

Nueces County  
1 Inch = 1.3 Miles



62 Line Miles



Substation GPS : 27.559908, -97.502367

**AEP Texas, Alazan 94CS620**

**R** — Recloser

**IR** — Distribution Automation Recloser

## **Circuit Description:**

Alazan 94CS620 is a 62-mile 12.5 kV rural circuit between the City of Corpus Christi and the King Ranch in Nueces County. It serves 163 meters, mostly residential and agricultural with a small amount of light industrial. A majority of the landscape is agricultural, and the overhead lines are mostly built in the road right-of-way. Due to the lack of trees and other wind blocks in many parts of the circuit, it is susceptible to straight-line wind damage. It is made up mostly of smaller gauge wire which has a tendency to degrade in the salt air environment. The peak load in 2020 was 0.66MVA.

- The Alazan substation and circuit 620 were built in 1955. Some of the tap lines were built in 1946 on County Road 14 and 1948 on County Road 55. Many new tap lines were built in 1966. Poles and wire have been replaced over the years. The first mile out of the substation was rebuilt in 1984.
- There were no tree outages in 2019, and only one interruption was due to trees in 2020.
- Circuit 620 is served out of the Lon Hill Service Center in Northwest Corpus Christi, 3645 Callicoatte Road. It is about 27 road miles from the service center to the Alazan substation.
- Repeat interruptions were caused by lightning in 2019 and 2020. The most interruptions in 2020 were caused by equipment failure. The three equipment failure outages that accounted for the most minutes were overhead conductor failures behind the first two reclosers out of the sub isolating the east and west feeds. The east feed on FM70 was replaced in 2021, and the west feed is part of a DACR project and will be re-conducted on a future reliability plan project.
- The circuit is split into four recloser zones with the largest protected by a S&C Intellirupter with an automated tie to Clarkwood 94CS5525. Primary taps off the main feeder are fused and practice fuse savings from the fast recloser timing curves.
- Since the feeder has been on the WPF list, a distribution automation tie has been installed with Clarkwood 94CS5525 which transfers half the circuit in the case of a breaker outage. A major feeder upgrade project was done in 2021, replacing 1.9 miles of main feeder with new 556MCM Al conductor for a cost of \$773, 350.
- Future projects for this circuit include a distribution automation tie to Cabaniss 94CS80 on County Road 286.
- The Company's Reliability Engineering group has one engineer responsible for the southern part of the Corpus Christi District. The engineer plans and budgets reliability projects and tracks feeder performance. There are six distribution operations technicians that identify and report damaged equipment in the Corpus Christi District. Construction and outage restoration work is overseen by a Distribution Supervisor at the Lon Hill Service Center.



AEP Texas Inc., Corpus Christi District  
 Substation: Alazan, Circuit ID: 94CS620  
**2020 SAIFI and SAIDI List (1 Year repeat)**

**Circuit Ranking:**

Information	2017	2018	2019	2020
Customer Count	173	167	163	163
SAIFI Rank			12	7
SAIFI Value			6.73	6.1718
300% System Avg.			5.036	5.02
SAIDI Rank	37	12	10	6
SAIDI Value	623	829.6	1393.4	1561
300% System Avg.	532.8	547.5	584.6	586.2
# Circuits @ AEP Texas Inc.	1190	1200	1220	1220
NOAA*	4	6	2	1

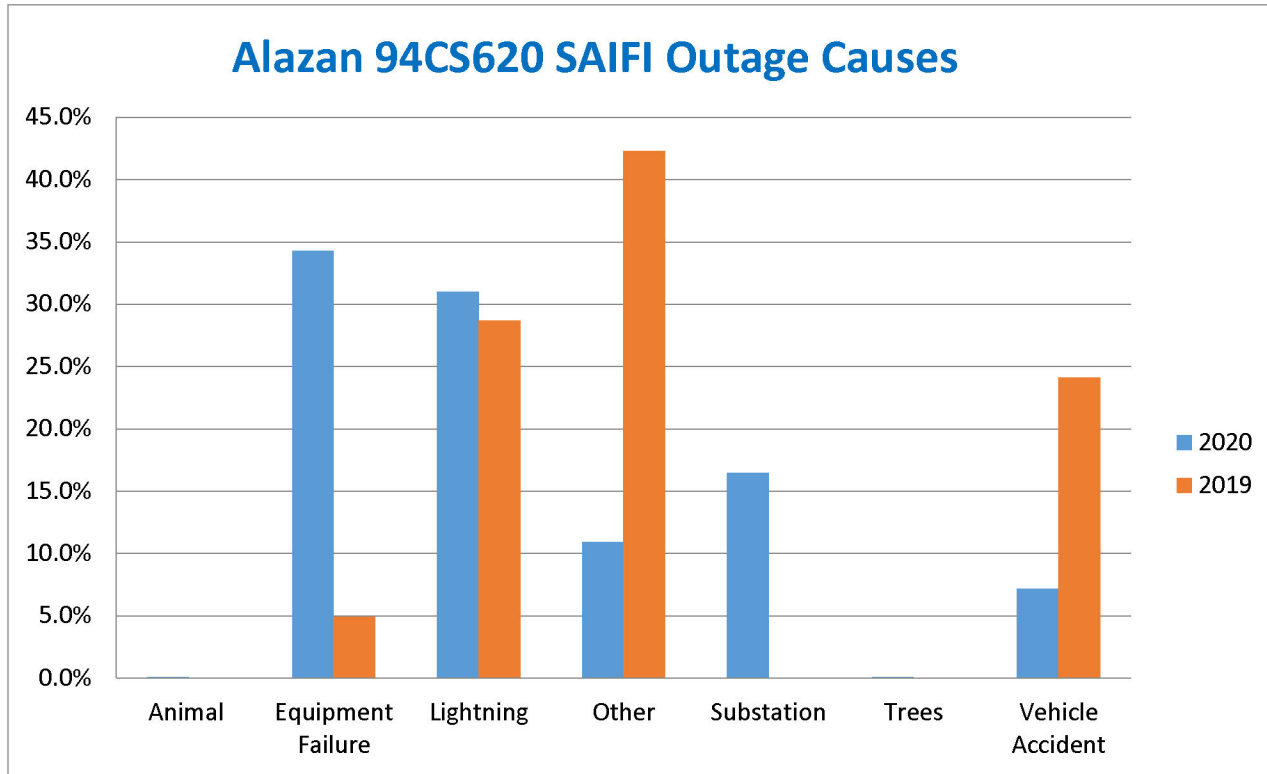
\* NOAA – This is the number of thunderstorm, high wind, and ice events from the U.S. Local Storm Events Data for the county in the circuit route between January 1<sup>st</sup> to December 31<sup>st</sup> of the given year.

**Remediation & Cost:**

The reliability work plan for the circuit consisted of the following elements. The cost includes the remediation work as well as any other items done to address reliability on the circuit.

Projects	2016	2017	2018	2019	2020	2021	Sum
Sectionalizing	\$8,299				\$2,938		\$11,237
Failed Equip No Outage				\$16,084	\$43,333		\$59,417
Power Quality							\$0
Small Asset Improvement		\$457			\$13,166		\$13,623
Crossarm C/O							\$0
Pole Replacement			\$7,784	\$70,304	\$7,438	\$4,346	\$89,872
UG Cable Replacement					\$4,250		\$4,250
Recloser Replacement				\$27,799			\$27,799
Lightning Mitigation		\$601					\$601
Repair After Patrol				\$28,752			\$28,752
Feeder Ties						\$773,350	\$773,350
System Hardening							\$0
<b>Sum</b>	<b>\$8,299</b>	<b>\$1,058</b>	<b>\$7,784</b>	<b>\$142,939</b>	<b>\$71,125</b>	<b>\$777,696</b>	<b>\$1,008,901</b>

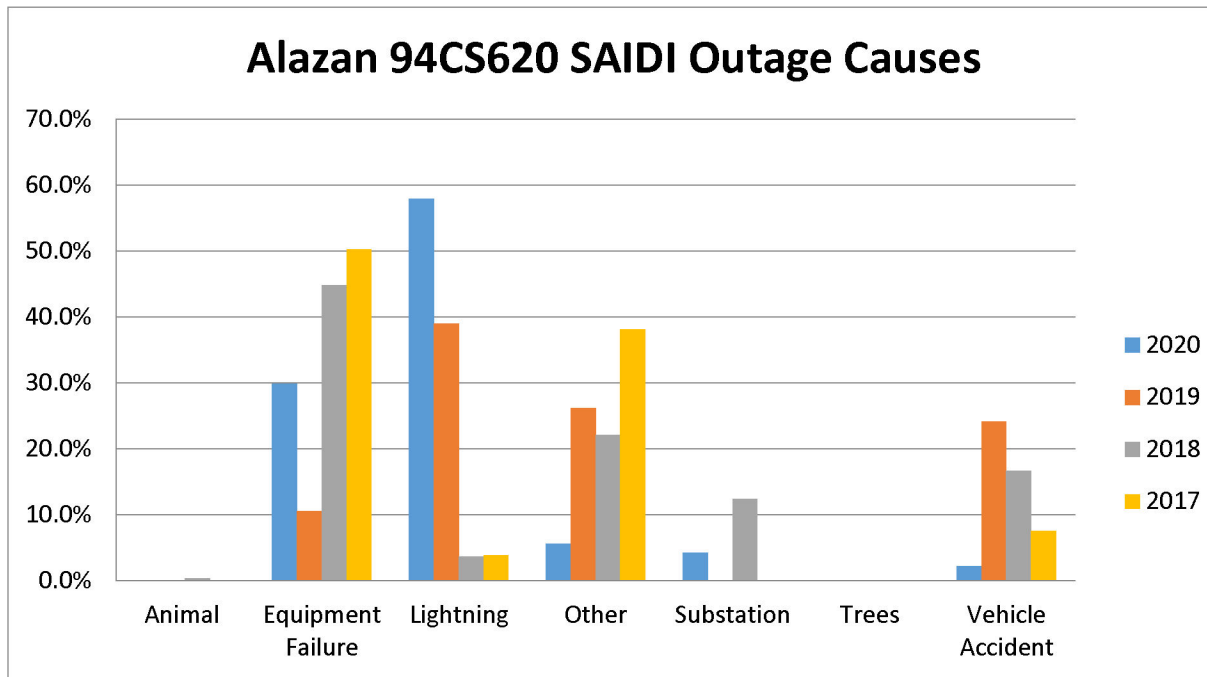
**SAIFI Outage Causes:**



The following table illustrates the make up of the “Other” category in the above graph. The percent SAIFI contribution for each category of “Other” are listed by year:

Year	Major Cause Code Description	Minor Cause Code Description	SAIFI % OTHER
2019	DISTRIBUTION LINE	ABNORMAL FEED	12.4%
	DISTRIBUTION LINE	UNKNOWN NON-WEATHER	0.2%
	DISTRIBUTION LINE	WEATHER - HIGH WINDS > 60MPH	0.2%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	87.2%
2020	DISTRIBUTION LINE	CORROSION	84.5%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	15.5%

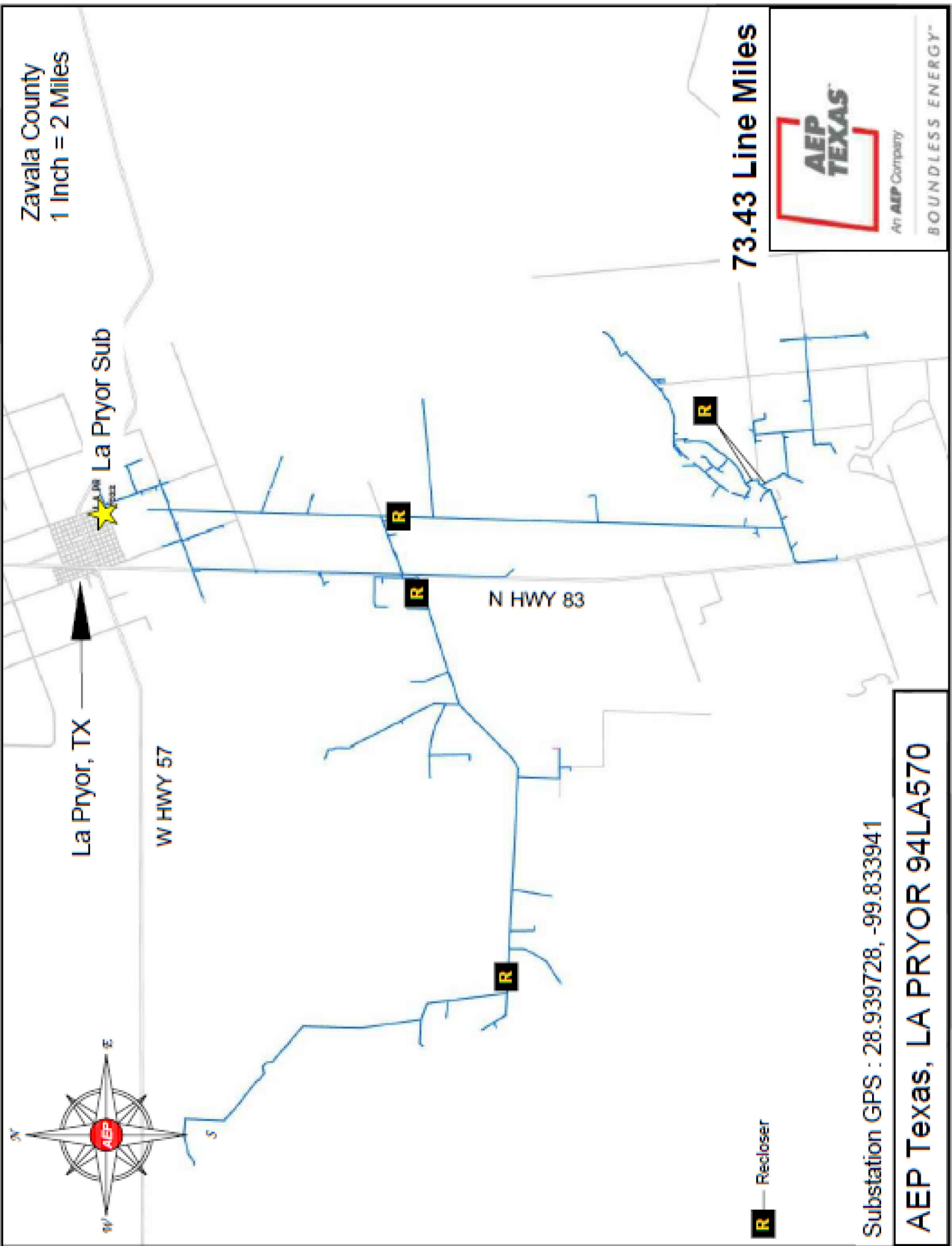
**SAIDI Outage Causes:**



The following table illustrates the make up of the “Other” category in the above graph. The percent SAIDI contribution for each category of “Other” are listed by year

Year	Major Cause Code Description	Minor Cause Code Description	SAIDI % OTHER
2017	DISTRIBUTION LINE	CONTAMINATION / FLASHOVER	0.22%
	DISTRIBUTION LINE	WEATHER UNKNOWN	99.78%
2018	DISTRIBUTION LINE	CONTAMINATION / FLASHOVER	71.77%
	DISTRIBUTION LINE	CORROSION	23.83%
	DISTRIBUTION LINE	UNKNOWN NON-WEATHER	2.07%
	DISTRIBUTION LINE	WEATHER UNKNOWN	2.3%
2019	DISTRIBUTION LINE	UNKNOWN NON-WEATHER	1.04%
	DISTRIBUTION LINE	WEATHER - HIGH WINDS >60MPH	0.22%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	98.74%
2020	DISTRIBUTION LINE	ANIMAL - BIRD	0.70%
	DISTRIBUTION LINE	CORROSION	74.73%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	24.57%





Zavala County  
1 Inch = 2 Miles

La Pryor Sub

La Pryor, TX

W HWY 57

N HWY 83

73.43 Line Miles

**R** — Recloser



Substation GPS : 28.939728, -99.833941

**AEP Texas, LA PRYOR 94LA570**

## **Circuit Description:**

La Pryor 94LA570 is a 73.4 mile long rural 12.5kV circuit south of La Pryor, Texas, in Zavala County. The peak load in 2020 was 2.31 MVA. The majority of the circuit's path takes it through flat farmland and brush. Large parts of the circuit run along the Nueces River. Only a small portion of this circuit is road accessible. The majority of the 145 customers are agricultural lots focusing on year-round vegetable production.

- The feeder was built in 1972. The first 1.5 miles were rebuilt in 2018 with 4/0A conductor.
- The Uvalde Service Center is 23 miles from the La Pryor substation.
- Since this feeder has been on the WPF list, the number of customers interrupted from trees was 219 in 2019 or 24%, and 62 in 2020 or 4% of the total for the year. For customer minutes interrupted, 32% of CMI in 2019 were due to trees, down to 2% in 2020. There is no planned tree trimming in 2022.
- Outage causes have varied. In 2019, the major causes were unknown, field switching error, and trees. In 2020, major causes were weather, lightning, and equipment failure. 37% of the outage minutes for the year 2020 occurred 5/24/20 during an after hours lightning storm where the breaker locked out and the line was picked up from an adjacent circuit.
- The protection scheme starts with a Schweitzer Engineering SEL 351 electronic overcurrent relay on the substation breaker. The circuit has a five mile breaker zone with fuses on the tap lines. There are two recloser zones, each with series reclosers behind them. Fuses behind the reclosers are coordinated to provide fuse saving through the fast timing curve on the hydraulic vacuum bottle devices.
- The majority of the spending was on main feeder re-conductor jobs in 2018 and 2019. In 2018 and 2019, the first 1.5 miles from the sub up to the first switch was rebuilt with 4/0Al conductor and new poles. The system hardening work in 2018 and 2019 was two jobs to reroute crossings over the Nueces River. Thirteen poles were replaced in 2021 and seven poles were replaced from 2018 to 2019.
- No reliability projects scheduled for 2022. There are 15 pole replacement jobs waiting in scheduling for 2022. Future reliability projects include removing 10 miles of distribution underbuild, and building a new line along Highway 83.
- The Company's Reliability Engineering group has one engineer responsible for the Laredo District. The engineer plans and budgets reliability projects and tracks feeder performance. There are four distribution operations technicians that identify and report damaged equipment in the Laredo District. Construction and outage restoration work is overseen by a Distribution Supervisor at the Uvalde Service Center.

AEP Texas Inc., Laredo District  
 Substation: La Pryor, Circuit ID: 94LA570  
**2020 SAIFI and SAIDI List (1 Year repeat)**

**Circuit Ranking:**

Information	2019	2020
Customer Count	157	172
SAIFI Rank	3	6
SAIFI Value	10.376	8.622
300% System Avg.	5.306	5.02
SAIDI Rank	7	4
SAIDI Value	2316.1	1952.4
300% System Avg.	593.5	586.2
# Circuits @ AEP Texas Inc.	1220	1220
NOAA*	2	0

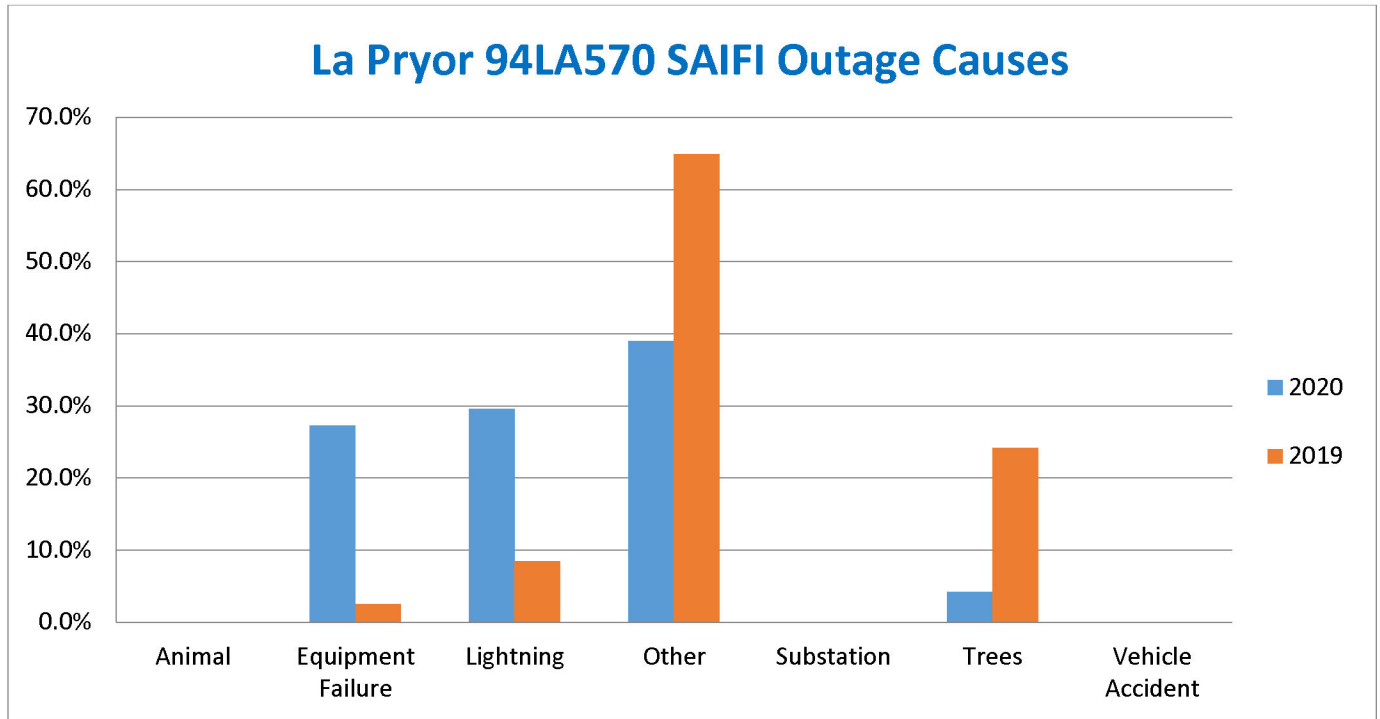
\* NOAA – This is the number of thunderstorm, high wind, and ice events from the U.S. Local Storm Events Data for the county in the circuit route between January 1<sup>st</sup> to December 31<sup>st</sup> of the given year.

**Remediation & Cost:**

The reliability work plan for the circuit consisted of the following elements. The cost includes the remediation work as well as any other items done to address reliability on the circuit.

Projects	2018	2019	2020	2021	Sum
Sectionalizing			\$23,834	\$6,561	\$30,395
Proactive Recloser Replace				\$14,409	\$14,409
Failed Equipment no outage			\$19,237	\$40,433	\$59,670
Power Quality					\$0
Small Asset Improvement					\$0
Crossarm C/O					\$0
Pole Reinforcement					\$0
Pole Replacement	\$8,184	\$6,546		\$18,570	\$33,300
Lightning Mitigation					\$0
Repair After Patrol			\$4,833		\$4,833
Feeder Ties	\$187,543	\$78,745			\$266,288
System Hardening	\$49,013	\$25,192			\$74,205
<b>Sum</b>	<b>\$244,740</b>	<b>\$110,483</b>	<b>\$47,904</b>	<b>\$79,973</b>	<b>\$483,100</b>

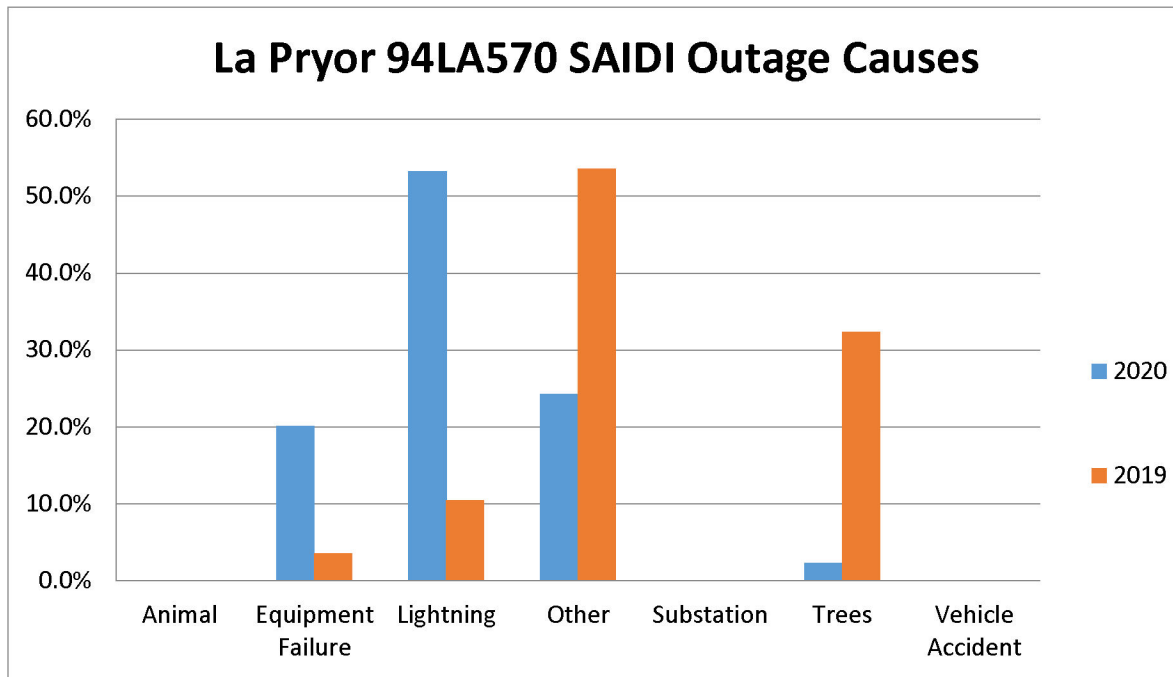
**SAIFI Outage Causes:**



The following table illustrates the make up of the “Other” category in the above graph. The percent SAIFI contribution for each category of “Other” are listed by year:

Year	Major Cause Code Description	Minor Cause Code Description	SAIFI % OTHER
2019	DISTRIBUTION LINE	CONTAMINATION / FLASHOVER	20.7%
	DISTRIBUTION LINE	ERROR - FIELD	25.6%
	DISTRIBUTION LINE	UNKNOWN NON-WEATHER	53.5%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	0.2%
2020	DISTRIBUTION LINE	ABNORMAL FEED	16.4%
	DISTRIBUTION LINE	ERROR - FIELD	7.3%
	DISTRIBUTION LINE	WEATHER - HIGH WIND	17.8%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	41.0%
	DISTRIBUTION LINE	UNKNOWN NON-WEATHER	17.5%

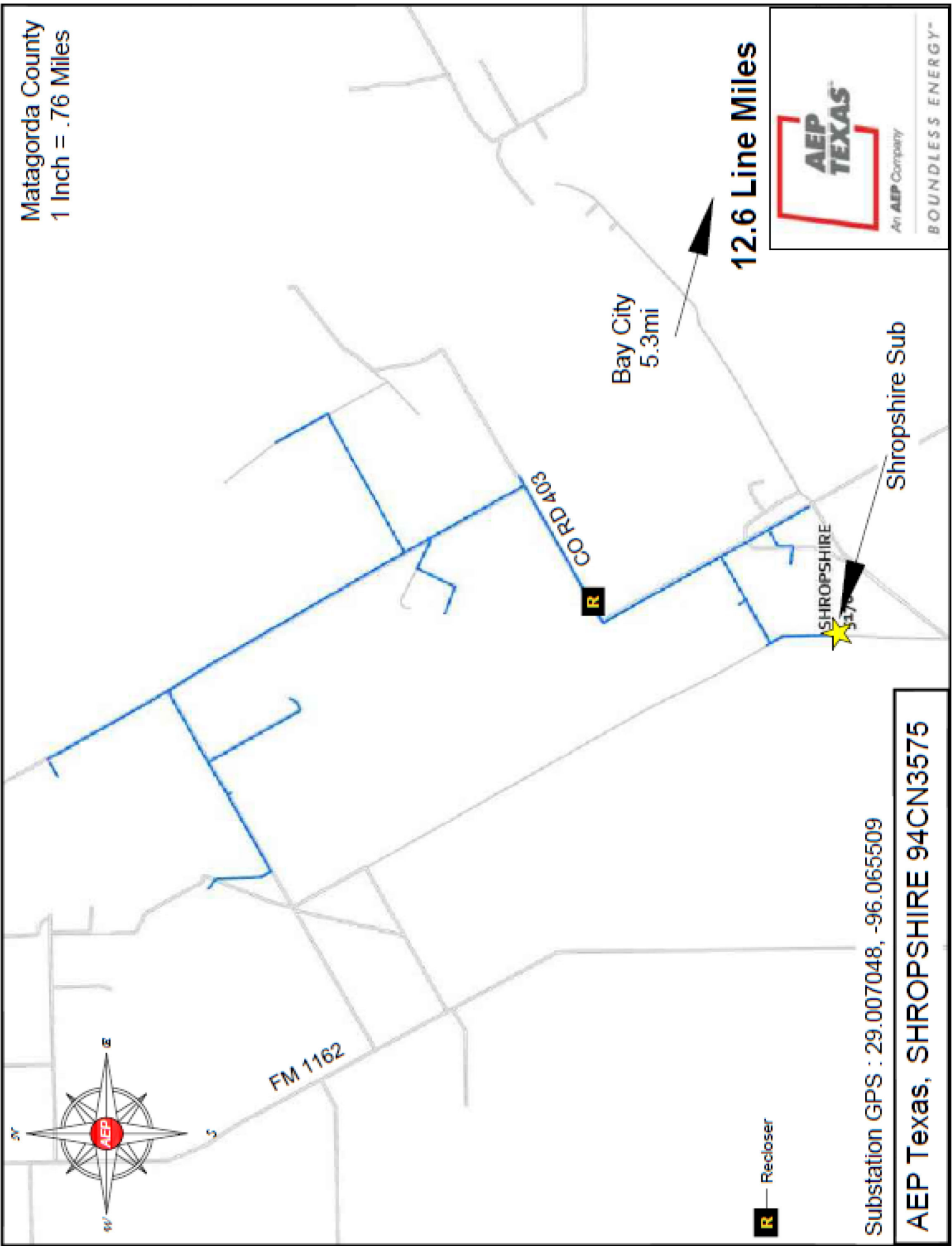
**SAIDI Outage Causes:**



The following table illustrates the make up of the “Other” category in the above graph. The percent SAIDI contribution for each category of “Other” are listed by year:

Year	Major Cause Code Description	Minor Cause Code Description	SAIDI
2019	DISTRIBUTION LINE	CONTAMINATION/FLASHOVER	79.6%
	DISTRIBUTION LINE	ERROR - FIELD	1.9%
	DISTRIBUTION LINE	UNKNOWN NON-WEATHER	18.3%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	0.2%
2020	DISTRIBUTION LINE	ABNORMAL FEED	2.0%
	DISTRIBUTION LINE	ERROR - FIELD	4.9%
	DISTRIBUTION LINE	UNKNOWN NON-WEATHER	17.5%
	DISTRIBUTION LINE	WEATHER - HIGH WINDS	12.0%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	63.7%

Matagorda County  
1 Inch = .76 Miles



**R** — Recloser

Substation GPS : 29.007048, -96.065509

**AEP Texas, SHROPSHIRE 94CN3575**



## **Circuit Description:**

The Shropshire substation was built in 2017 in response to a plant expansion at the Williams Gas Plant and the Sand Hills Pipeline Station. Three 12.5kV feeders were added to the single bank substation. This area was previously served from the Markham Substation feeder 94CN5550. Shropshire 94CN3575 has 14,000 feet of new large conductor feeder serving a primary meter to Williams Gas. The additional 10 miles of feeder was existing line built in 1964 and serves farms and ranches. The area is flat farmland with spotted brush in Matagorda County, five miles northwest of Bay City. There are 33 customers on this feeder with a 2019 peak load of 1.85MVA.

- The substation and first 2.6 miles of feeder were built in 2017, with the rest of the 10 miles built in 1964.
- Tree outages accounted for 56% of the minutes in 2018, 58% in 2019, and 54% in 2020. No spending occurred on vegetation management from 2017 to 2020. The circuit was on the Forestry inspection list for 2020, but no trees were trimmed in 2020. The circuit was trimmed in the second quarter of 2021.
- The nearest service center to the feeder is located 10.5 miles away in Bay City. Any construction work is performed out of the El Campo service center located 31 miles away from the feeder.
- The circuit breaker is protected with a SEL351 overcurrent relay. The first 2.6 miles of large wire is the breaker zone where taps are fused and practice fuse sacrificing to save momentaries to the Williams Gas Plant. The remainder of the circuit is behind a fuse at the end of the 556MCM aluminum conductor with series fuses behind that.
- In early 2019, this feeder was assessed and determined to need a recloser for sectionalizing areas prone to tree problems, fuses at five locations for isolation, and tree trimming. The recloser install and fuse installs were sent to engineering for design, and tree problem locations sent to Forestry. The recloser did not get installed until November of 2020. The fuses for sectionalizing were installed in August of 2021. This was too late to prevent the feeder from repeating the WPF list again in 2020. The tree trimming took place in May of 2021. The full feeder was inspected in April of 2020 as part of the normal distribution inspection program. Five items were found that needed maintenance. The repair work was completed 2/14/21.
- In 2021 besides scheduled work, there has been only one outage and it was due to a tree falling on the primary wire. This outage was isolated by the new recloser and caused 14,652 CMI. The SAIDI for 2021 was 457.9 minutes. The feeder will not repeat in 2021.
- The plan going forward in 2022 is to further assess the tree trimming needs.
- The Company's northern half of the Corpus Christi District has one Reliability Engineer responsible for reliability work projects, budget planning, automation plans, and tracking feeder performance. There are two distribution operations technicians that identify and report damaged equipment in the northern Corpus Christi District. Construction, service, and outage restoration work is overseen by four Distribution Supervisors (DSS) in the district, the El Campo Service Center has a DSS specifically responsible for this area.

**Circuit Ranking:**

Information	2018	2019	2020
Customer Count	33	33	33
SAIDI Rank	18	19	11
SAIDI Value	739.6	964.2	1184.9
300% System Avg.	547.5	584.6	586.2
# Circuits @ AEP Texas Inc.	1200	1220	1220
NOAA*	2	2	1

\* NOAA – This is the number of thunderstorm, high wind, and ice events from the U.S. Local Storm Events Data for the county in the circuit route between January 1<sup>st</sup> to December 31<sup>st</sup> of the given year.

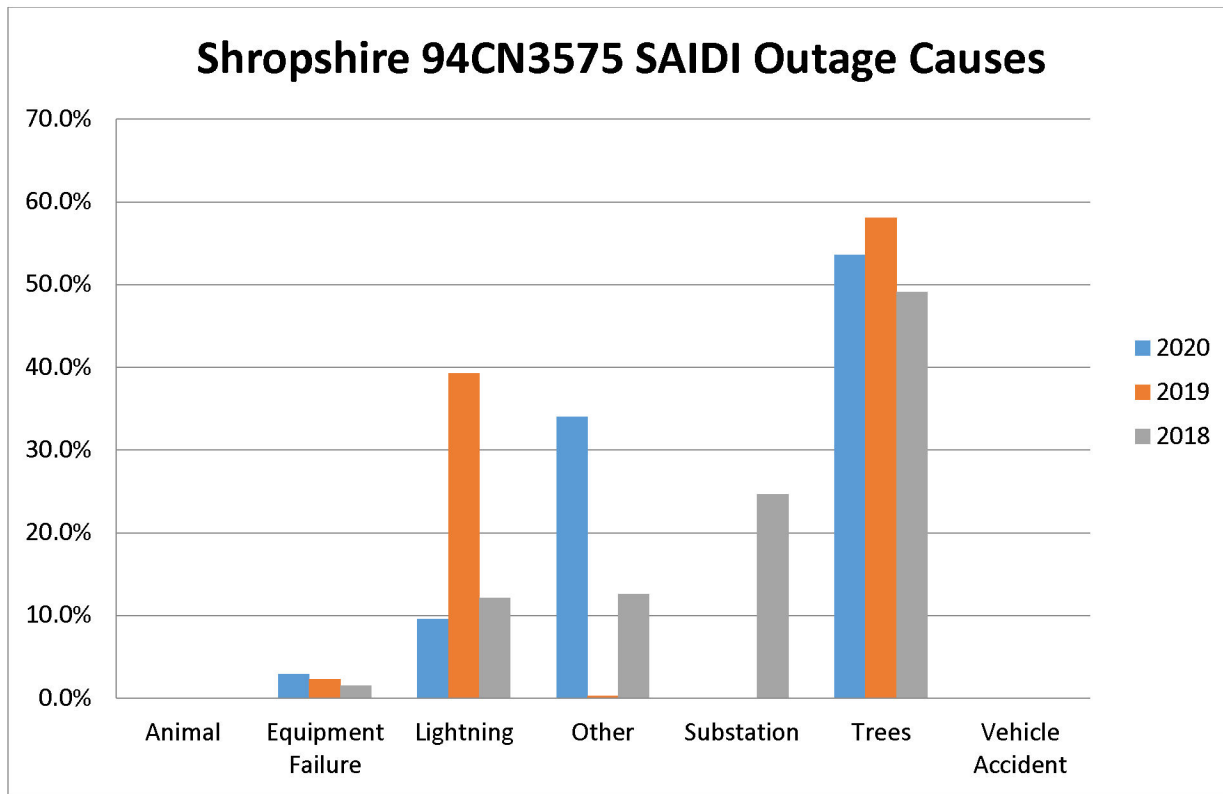
**Remediation & Cost:**

The reliability work plan for the circuit consisted of the following elements. The cost includes the remediation work as well as any other items done to address reliability on the circuit.

Projects	2016	2017	2018	2019	2020	2021	Sum
Sectionalizing					\$22,112		\$22,112
Proactive Replacement							\$0
Power Quality							\$0
Small Asset Improvement							\$0
Crossarm C/O							\$0
Pole Reinforcement							\$0
Pole Replacement							\$0
Lightning Mitigation							\$0
Repair After Patrol					\$5,009		\$5,009
Feeder Ties	\$472,396	\$133,881					\$606,277
System Hardening							\$0
<b>Sum</b>	<b>\$472,396</b>	<b>\$133,881</b>	<b>\$0</b>	<b>\$0</b>	<b>\$27,121</b>		<b>\$633,398</b>

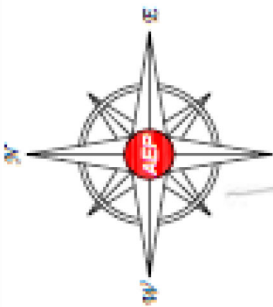


**SAIDI Outage Causes:**



The following table illustrates the make up of the “Other” category in the above graph. The percent SAIDI contribution for each category of “Other” are listed by year:

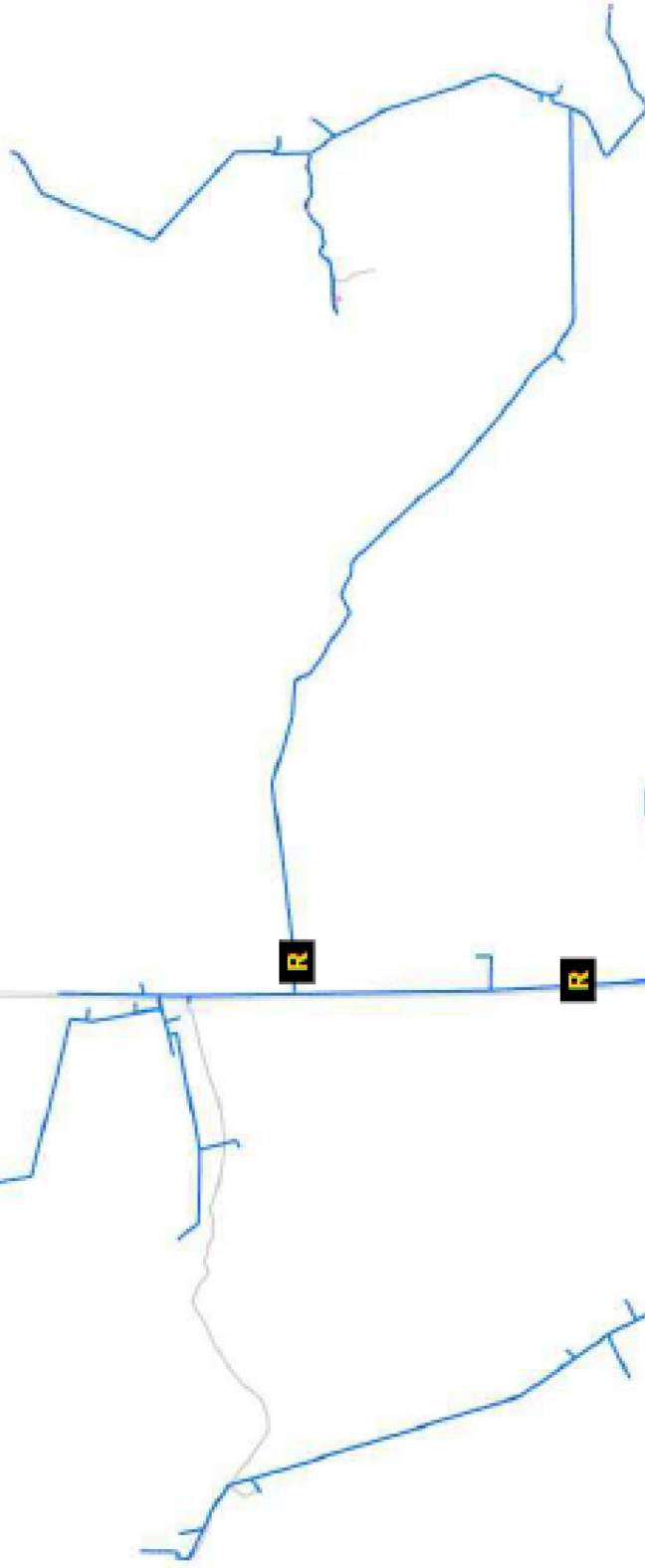
Year	Major Cause Code Description	Minor Cause Code Description	SAIDI % OTHER
2018	DISTRIBUTION LINE	CORROSION	97.1%
	DISTRIBUTION LINE	WEATHER - HIGH WINDS >60MPH	0.2%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	2.6%
2019	DISTRIBUTION LINE	WEATHER - UNKNOWN	100.0%
2020	DISTRIBUTION LINE	CORROSION	1.0%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	99.0%



City of Riviera 26mi

Kenedy County  
1 Inch = 1.66 Miles

US HWY 77



ARMSTRONG  
94CS6050

Armstrong Sub

**R** — Recloser

51.5 Line Miles



Substation GPS : 26.927235, -97.789718

**AEP Texas, ARMSTRONG 94CS6050**

## **Circuit Description:**

Armstrong 94CS6050 is a rural circuit in the middle of Kenedy County on the King Ranch. It is the most remote feeder in the Corpus Christi District. There are 80 customers served by the feeder consisting of ranch houses and buildings with some oil field tank batteries on the west side of U.S. Hwy.77. The terrain is flat prairie with areas of mesquite brush. The easternmost end of the feeder is five miles from the coast. The peak load in 2020 was 0.86 MVA. The 12.5kV feeder has 47 line miles of conductor.

- The feeder was built in 1954.
- In 2018, 8% of the CMI was due to trees. No tree outages occurred in 2019 or 2020. No spending on vegetation management occurred from 2017 through 2020.
- The nearest service center is located in Kingsville 43 miles from the feeder. Construction work is provided from the Lon Hill Service center 70 miles from the feeder.
- In 2018 and 2019 the highest outage contributor was equipment failure. 94% of the 2018 failures were due to two outages: a breaker lockout due to broken crossarm with floating phase, and the second also a broken crossarm. Both of these were in the breaker zone. The 2019 failures were due to broken crossarm behind a recloser, failed trip saver (recloser), down conductor behind recloser, down conductor in the breaker zone, and a damaged pole top in an inaccessible area. Some of these outages took 6 to 20 hours to restore. In 2020 there were three equipment failures for 38% of the minutes out. A failed recloser, failed regulator, and a floating phase conductor.
- In 2020, the major outage cause was lightning. Three recloser lockouts during lightning storms on May 16<sup>th</sup> and September 5<sup>th</sup>, 2020 accounted for 62% of the yearly minutes out.
- Armstrong 94CS6050 is a non-SCADA station. The breaker zone covers 3.25 miles, with two recloser zones branching out. The north feed has an additional series recloser. There are four fused taps in the breaker zone with fuse sacrificing, and many fused taps behind the reclosers with fuse savings.
- In September of 2020 one of the three reclosers was replaced on maintenance and three fuses were upgraded for coordination. In the second quarter of 2022, the feeder is scheduled to get SCADA visibility with the installation of a remote access gateway (cell backhaul) and an Intellirupter recloser at the station exit. The feeder breaker zone was inspected in 2019 and all needed repairs were made. In 2020, because of Hurricane Hanna, the feeder was inspected and repairs completed. It is scheduled for a full inspection again in 2022.
- The Company's Reliability Engineering group has one engineer responsible for the southern part of the Corpus Christi District. The engineer plans and budgets reliability projects and tracks feeder performance. There are six distribution operations technicians that identify and report damaged equipment in the Corpus Christi District. Construction and outage restoration work is overseen by a Distribution Supervisor at the Lon Hill Service Center.

**Circuit Ranking:**

Information	2018	2019	2020
Customer Count	81	80	80
SAIDI Rank	32	12	25
SAIDI Value	636.7	1329.4	845.3
300% System Avg.	547.5	584.6	586.2
# Circuits @ AEP Texas Inc.	1200	1220	1220
NOAA*	0	0	0

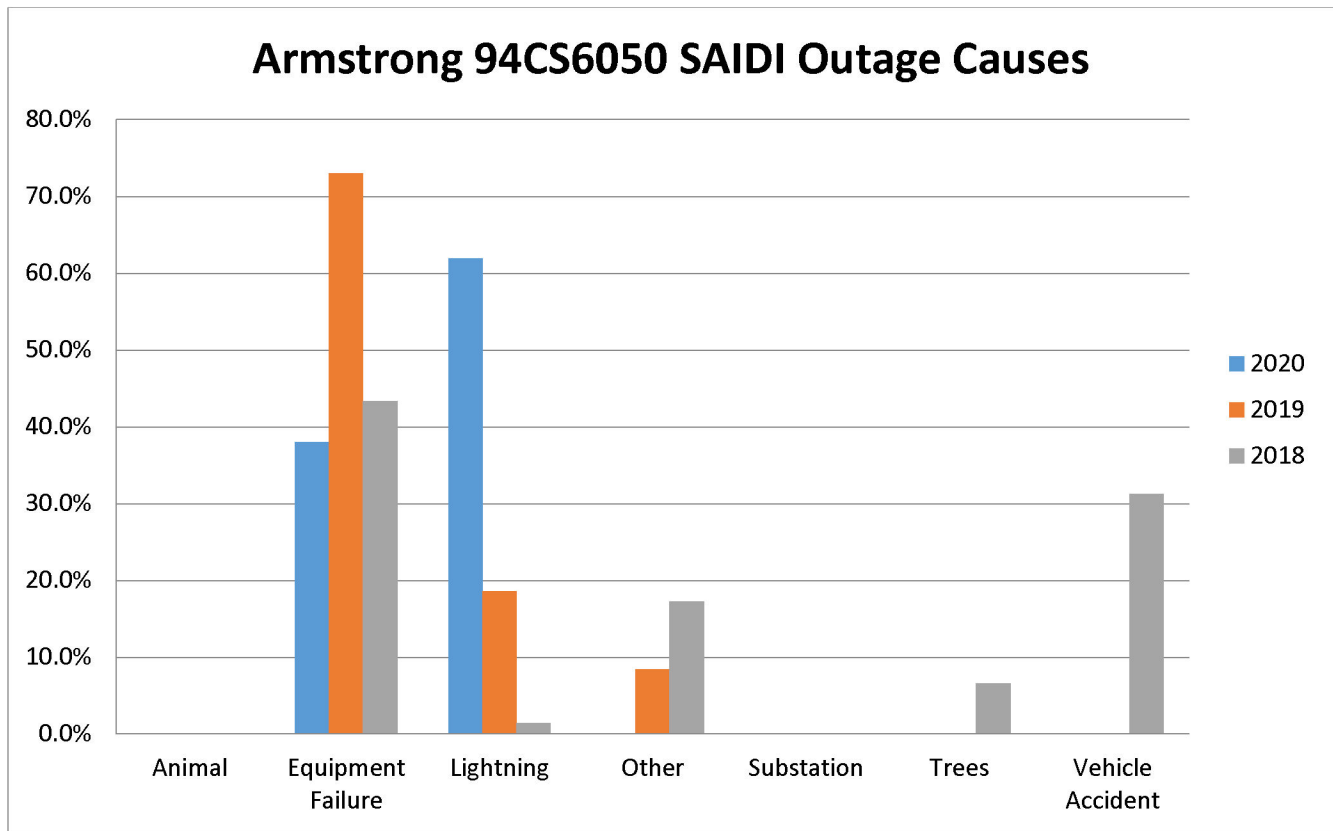
\* NOAA – This is the number of thunderstorm, high wind, and ice events from the U.S. Local Storm Events Data for the county in the circuit route between January 1<sup>st</sup> to December 31<sup>st</sup> of the given year.

**Remediation & Cost:**

The reliability work plan for the circuit consisted of the following elements. The cost includes the remediation work as well as any other items done to address reliability on the circuit.

Projects	2015	2016	2017	2018	2019	2020	Sum
Sectionalizing	\$44,892		\$31,750				\$76,642
Proactive Replacement			\$2,946			\$6,302	\$9,248
Power Quality							\$0
Small Asset Improvement							\$0
Crossarm C/O	\$20,174	\$1,163					\$21,337
Pole Reinforcement							\$0
Pole Replacement	\$3,317	\$7,295	\$9,698				\$20,310
Lightning Mitigation		\$5,472	\$2,309				\$7,781
Repair After Patrol			\$7,805				\$7,805
System Hardening							\$0
<b>Sum</b>	\$68,383	\$13,930	\$54,508	\$0	\$0	\$6,302	\$143,123

**SAIDI Outage Causes:**



The following table illustrates the make up of the ‘Other’ category in the above graph. The percent SAIDI contribution for each category of ‘Other’ are listed by year:

Year	Major Cause Code Description	Minor Cause Code Description	SAIDI % OTHER
2018	DISTRIBUTION LINE	CONTAMINATION - FLASHOVER	100.0%
2019	DISTRIBUTION LINE	CONTAMINATION - FLASHOVER	98.4%
	DISTRIBUTION LINE	UNKNOWN NON-WEATHER	1.2%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	0.4%
2020	DISTRIBUTION LINE	NONE	0.0%

**Discussion:**

The SAIDI for Armstrong 94CS6050 in 2018 was 636.72 minutes per customer, which exceeded the 300% system average of 547.52 minutes per customer for AEP-Texas that year. The cause of one of the events affecting this circuit was a non AEP Texas vehicle contacting AEP Texas utility poles resulting in

AEP Texas Inc., Corpus Christi District  
Substation: Armstrong, Circuit ID: 94CS6050  
**2020 SAIDI List (2 Years repeat)**

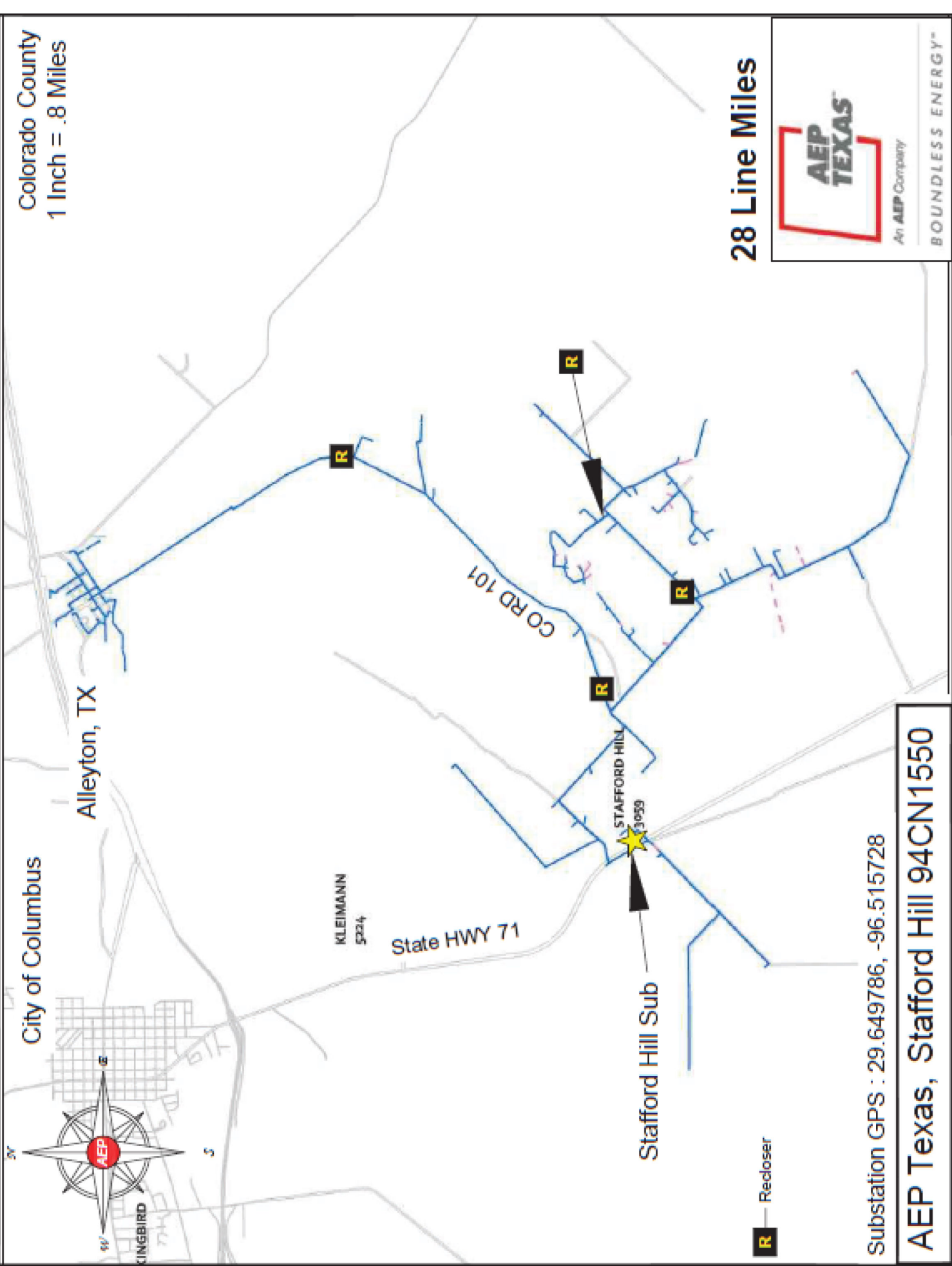
downed primary conductors. Removal of the outage caused by this vehicle accident from the calculations results in the 2018 SAIDI for this circuit being 437.52, which is below the 300% limit.

Map of pole locations hit by vehicle:





Colorado County  
1 Inch = .8 Miles



28 Line Miles



Substation GPS : 29.649786, -96.515728

**AEP Texas, Stafford Hill 94CN1550**

## **Circuit Description:**

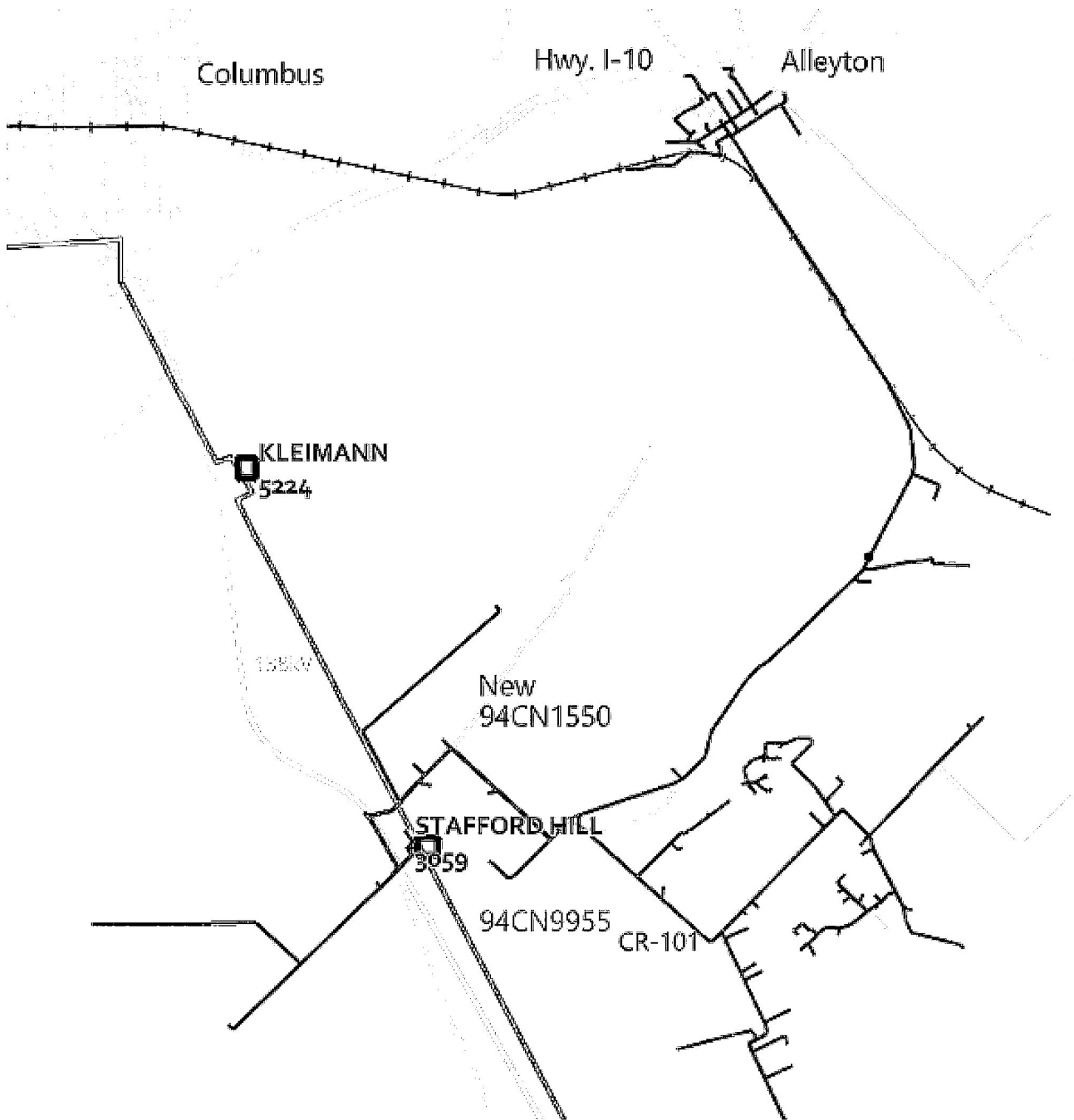
Stafford Hill is a rural 12.5kV circuit with 228 customers in Colorado County. The circuit length is 28 miles. The station is 3.4 miles south of Columbus. The main customer is a primary feed to Exxon pipeline. The circuit travels 6 miles cross county to serve the small town of Alleyton. The peak load was 1.3 MVA in 2020.

- The feeder was built in 1951. The entire substation was rebuilt in 2019. The transformer bank was upgraded to a 12.5MVA bank with two feeders, where previously there was a single 3MVA bank with a single feeder. The first two miles of the circuit are brand new completed in 2021.
- Tree outages accounted for 68% of the outage minutes in 2018, 41% in 2019, and 35% in 2020. The Company Forestry department spent \$29,595 on tree trimming and tree removal in 2019 that covered the breaker zone and the area under construction.
- The nearest service center for service and construction is in El Campo, 36 miles to the substation and 46 miles to the end of the feeder.
- The repeat outages are tree related. This issue was addressed with a feeder trim in 2019. Additional trimming will be done in 2022 to address the 2020 tree outages. The circuit section that experienced tree outages in 2020 was switched to the new Stafford Hill feeder 94CN9955 in 2021 (see map below).
- Equipment failure outages in 2020 were due to failed temporary jumpers tying the old circuit route to the new route during construction. These were replaced with permanent jumpers until the circuits were separated in 2021 after the highway crossing was completed.
- The feeder is protected in the substation by SEL 351 electronic over current relay. The breaker zone is 3.2 miles long with two recloser zones, both with serial reclosers behind the first. Tap lines in the breaker zone are fused, and will blow on a fault before the breaker operates (fuse sacrificing). Tap lines behind reclosers are fused and practice fuse saving.
- In 2017 and 2018, \$317,000 was spent on relocating 1.5 miles of main feeder taking it out of pasture land and placing it along roadway. In 2020, an additional gang operated switch was installed for sectionalizing. From 2017 to 2019, \$17,000 was spent replacing ten poles. In 2020 and 2021, \$87,000 was spent on replacing 45 poles. Between 2019 and 2021, \$1.47 million was spent adding another circuit and dividing the load. A double circuit with highway crossing was constructed on the first two miles out of the substation.
- Future reliability plans include replacing a sectionalizing air switch on CR101, and building a new feeder along I-10 between Columbus and Alleyton changing the Alleyton feed to the Kleimann Sub, pending a highway ROW change in 2023. This will eliminate the access issues to the cross country feed from Stafford Hill.
- The Company's northern part of the Corpus Christi District has one Reliability Engineer responsible for reliability work projects, budget planning, automation plans, and tracking feeder performance. There are two distribution operations technicians that identify and report damaged equipment in the northern Corpus Christi District. Construction, service, and outage restoration work is overseen by a Distribution Supervisor (DSS) at the El Campo Service Center.



AEP Texas Inc., Corpus Christi District  
Substation: Stafford Hill, Circuit ID: 94CN1550  
**2020 SAIDI List (1 Year repeat)**

The 28 mile circuit route has been reduced to 15.5 miles (in blue), and the single circuit split into two as shown below. The customer count moving forward will be 137 customers on 94CN1550, and 82 customers on the new 94CN9955 (in green). Shown in yellow is the proposed feeder tie to transfer the Alleyton load to the Kleimann Sub.



**Circuit Ranking:**

Information	2019	2020
Customer Count	214	228
SAIDI Rank	39	45
SAIDI Value	688.7	666
300% System Avg.	584.6	586.2
# Circuits @ AEP Texas Inc.	1220	1220
NOAA*	2	0

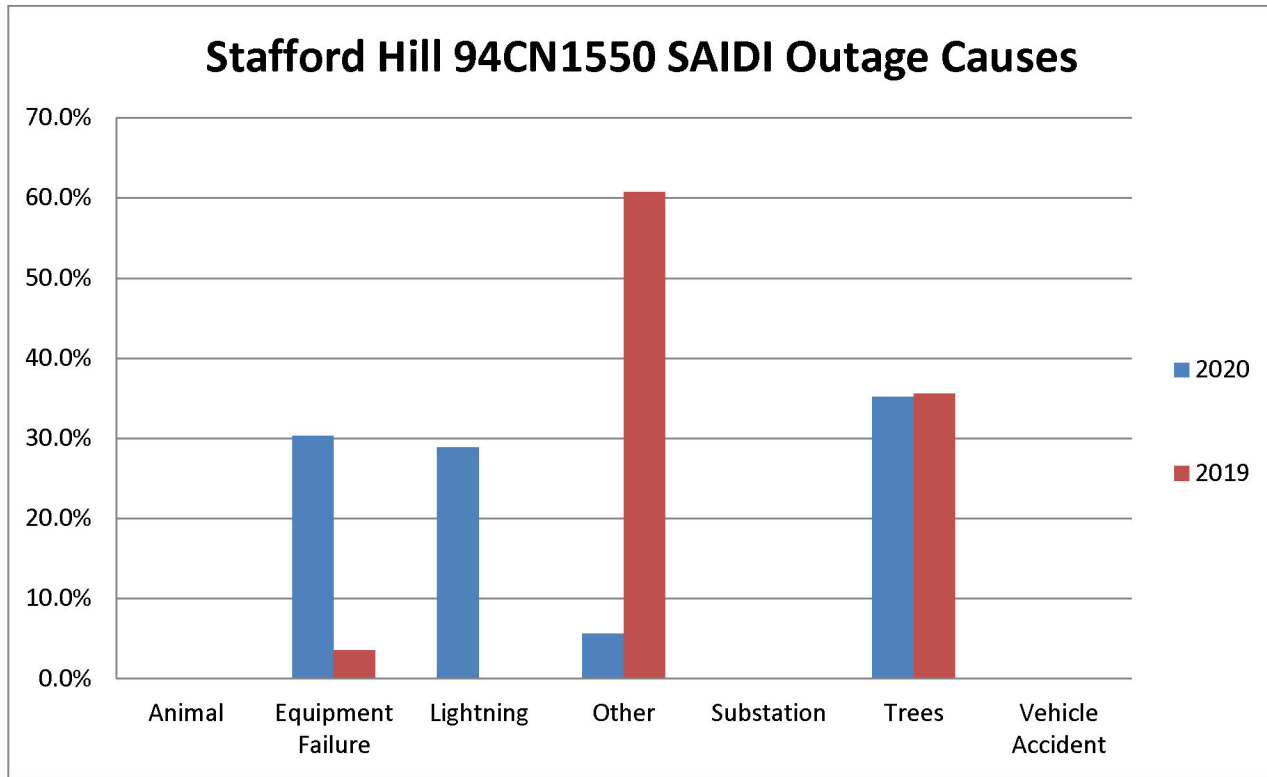
\* NOAA – This is the number of thunderstorm, high wind, and ice events from the U.S. Local Storm Events Data for the county in the circuit route between January 1<sup>st</sup> to December 31<sup>st</sup> of the given year.

**Remediation & Cost:**

The reliability work plan for the circuit consisted of the following elements. The cost includes the remediation work as well as any other items done to address reliability on the circuit.

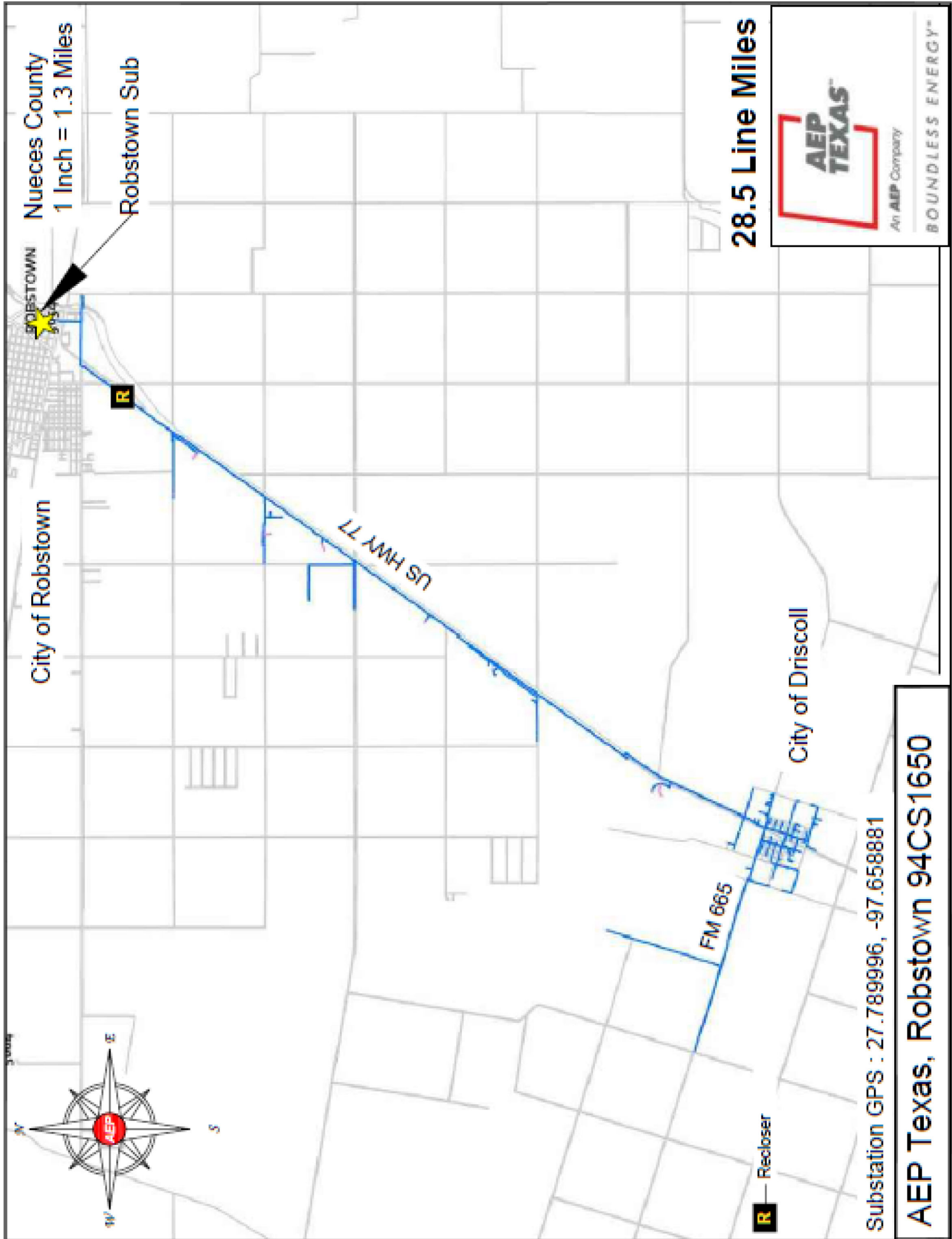
Projects	2018	2019	2020	2021	Sum
Sectionalizing				\$46,549	\$46,549
Failed Equip No Outage	\$1,984		\$24,913		\$26,897
Power Quality					\$0
Small Asset Improvement	\$8,701				\$8,701
Crossarm C/O					\$0
Pole Reinforcement					\$0
Pole Replacement	\$4,626	\$13,832	\$83,520	\$3,478	\$105,456
Lightning Mitigation					\$0
Repair After Patrol			\$3,444		\$3,444
New Feeder	\$400,675	\$779,577	\$534,158	\$160,171	\$1,874,581
System Hardening					\$0
<b>Sum</b>	<b>\$415,986</b>	<b>\$793,409</b>	<b>\$646,035</b>	<b>\$210,198</b>	<b>\$2,065,628</b>

**Outage Causes:**



The following table illustrates the make up of the “Other” category in the above graph. The percent SAIDI contribution for each category of “Other” are listed by year:

Year	Major Cause Code Description	Minor Cause Code Description	SAIDI % OTHER
2019	DISTRIBUTION LINE	UNKNOWN - NON WEATHER	0.1%
	DISTRIBUTION LINE	WEATHER - HIGH WINDS	94.6%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	5.2%
2020	DISTRIBUTION LINE	ABNORMAL FEED	96.7%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	3.3%



## **Circuit Description:**

Robstown 1650 is a 29 mile long 12.5kV overhead circuit serving 363 customers, primarily in the town of Driscoll, Texas. While the substation is in the town of Robstown, the circuit runs southwest on Highway 77 for about 10 miles before reaching Driscoll. Outside of the town and highway, there are some lines that run through various roads in Nueces County. The circuit is primarily crossarm construction on wood poles with a mixture of 1/0 aluminum and smaller wire. The long circuit length between the substation and the bulk of the customers contributes to longer-than-normal outage times, especially considering the Robstown substation does not currently have any SCADA connectivity. The peak load was 2.3MVA in 2020.

- The feeder was built in 1960.
- Trees accounted for less than 1% of the outage minutes in 2019. There were three interruptions affecting 6 customers for a total CMI of 1165 minutes. No tree related outages in 2020.
- The nearest service center for service and construction is the Lon Hill Service Center in Corpus Christi, 6 miles from the substation.
- The repeat outages were due to equipment failures. In 2019 the two major outages were a broken jumper on an unfused #2A tap line (57,581 CMI) and a failed recloser 1.8 miles south of the substation (30,616 CMI). In 2020, three outages caused the most CMI, down primary with failed insulators on #2A unfused tap in Driscoll (85,658 CMI), #2A primary down on an unfused tap in Driscoll (70,746 CMI), and 4/0A primary down on an angle pole eight spans south of the substation (30,260 CMI).
- The feeder is protected in the substation by a Westinghouse CO-9 relay for both phase and ground over currents. The breaker zone is 1.8 miles long up to the first in-line recloser, a three phase electronic vacuum type. The main line conductor is 4/0Al with 1/0A and #2A taps. Most taps are fused and coordinate with the recloser to practice fuse saving. Some of the taps are not fused because of large padmount transformers that have large protection fuses (preventing proper coordination with an up-line fuse).
- Work on this feeder has focused on pole replacement spending \$188,196 since 2018. This was approximately one hundred poles.
- Future reliability projects include moving the recloser to midpoint of circuit (too close to sub), adding sectionalizing to unfused tap lines, and evaluating the condition of the 4/0AAA primary conductor out of the substation to see if a re-conductor job is needed.
- The Company's Reliability Engineering group has one engineer responsible for the southern Corpus Christi District. The engineer plans and budgets reliability projects and tracks feeder performance. There are six distribution operations technicians that identify and report damaged equipment in the southern Corpus Christi District. Construction and outage restoration work is overseen by a Distribution Supervisor at the Lon Hill Service Center.

AEP Texas Inc., Corpus Christi District  
 Substation: Robstown, Circuit ID: 94CS1650  
**2020 SAIDI List (1 Year repeat)**

**Circuit Ranking:**

Information	2019	2020
Customer Count	354	363
SAIDI Rank	49	37
SAIDI Value	637.4	739.2
300% System Avg.	584.6	586.2
# Circuits @ AEP Texas Inc.	1220	1220
NOAA*	0	3

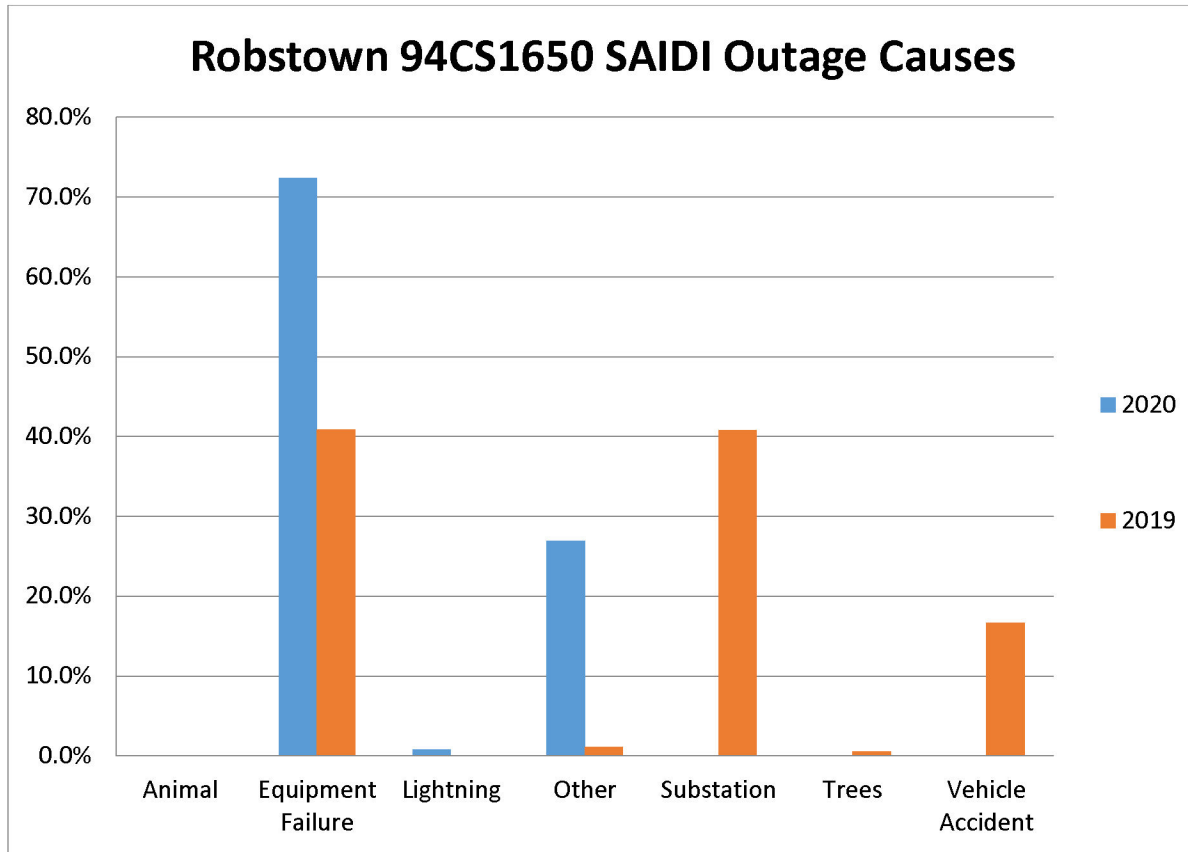
\* NOAA – This is the number of thunderstorm, high wind, and ice events from the U.S. Local Storm Events Data for the county in the circuit route between January 1<sup>st</sup> to December 31<sup>st</sup> of the given year.

**Remediation & Cost:**

The reliability work plan for the circuit consisted of the following elements. The cost includes the remediation work as well as any other items done to address reliability on the circuit.

Projects	2018	2019	2020	2021	Sum
Sectionalizing					\$0
Failed Equip No Outage			\$18,852		\$18,852
Power Quality					\$0
Small Asset Improvement	\$268				\$268
Crossarm C/O					\$0
Pole Reinforcement					\$0
Pole Replacement	\$85,031	\$55,386		\$47,779	\$188,196
Lightning Mitigation					\$0
Repair After Patrol				\$15,580	\$15,580
Feeder Ties					\$0
System Hardening					\$0
<b>Sum</b>	<b>\$85,299</b>	<b>\$55,386</b>	<b>\$18,852</b>	<b>\$63,359</b>	<b>\$222,896</b>

**Outage Causes:**

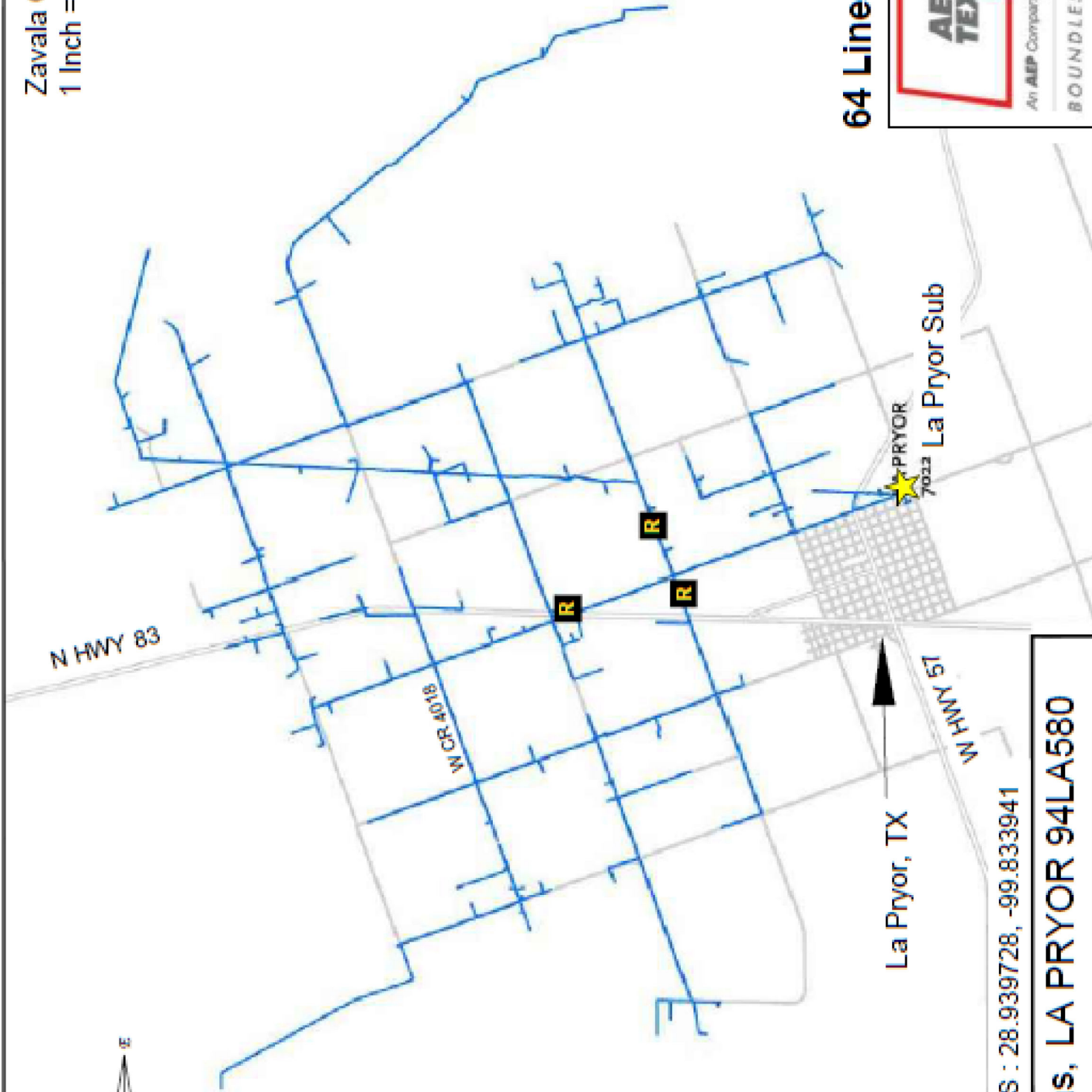
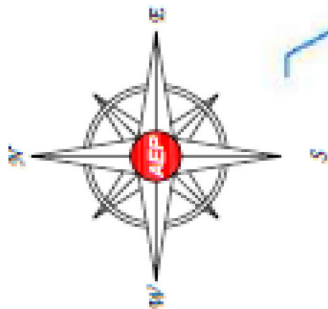


The following table illustrates the make up of the “Other” category in the above graph. The percent SAIDI contribution for each category of “Other” are listed by year:

Year	Major Cause Code Description	Minor Cause Code Description	SAIDI % OTHER
2019	DISTRIBUTION LINE	ERROR - FIELD	5.6%
	DISTRIBUTION LINE	FIRE - RES	4.4%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	90.0%
2020	DISTRIBUTION LINE	CORROSION	0.2%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	99.8%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	0.0%



Zavala County  
1 Inch = 1 Mile



64 Line Miles



**R** — Recloser

La Pryor, TX

Substation GPS : 28.939728, -99.833941

**AEP Texas, LA PRYOR 94LA580**



## **Circuit Description:**

La Pryor 94LA580 is a 64 mile long 12.5kV feeder north of the town of La Pryor in Zavala County. It covers a five by five mile square grid following the county roads that are one mile apart. There are 266 customers mainly rural residential and farm irrigation. 3.75 miles of the feeder are underbuilt on the 69kV transmission line from Turtle Creek to Uvalde. The peak load in 2020 was 1.69MVA.

- The feeder was built in 1955.
- Service and construction support comes from the Uvalde Service Center, which is 23 miles from the La Pryor substation.
- Tree outages accounted for 3% of the customer minutes in 2019, and 5% in 2020. In 2021, there were 2 outages, one customer each, for a total of 0.7% of the CMI for the year. Forestry spent \$79,727 on trimming in 2017, \$1,506 in 2018, \$4,507 in 2020, and \$17,968 in 2021. This addressed the main breaker zone and many individual problem areas.
- Repeat outages were due to lightning, 19% in 2019 and 26% in 2020.
- Equipment failure accounted for 65% of the minutes out in 2019, and unknown weather accounted for 52% in 2020.
- The circuit breaker is protected with Schweitzer 351S electronic overcurrent relay. The feeder consists of a three mile breaker zone and three recloser zones with tap fuses coordinated for fuse saving. The reclosers are hydraulic units with vacuum bottle interrupters.
- Major work has been done on this circuit since 2018. The first two miles of circuit were rebuilt in 2019 with 4/0A conductor, and an additional mile with 1/0A conductor. In 2018 and 2019, fourteen jobs were completed to remove 1.3 miles of feeder off the transmission poles north of the sub. New ties were constructed for 0.8 miles to re-route the circuit.
- Future reliability projects for this circuit include more removal of the distribution circuit from the transmission poles. As justification and budget permits, another 3.4 miles of underbuild are planned to be removed and replaced by 3.2 miles of new feeder ties. For 2022, there are three fuse for sectionalizing jobs on the reliability plan.
- The Company's Reliability Engineering group has one engineer responsible for this area at the Laredo District Office, along with a planning and design engineers. The reliability engineer plans and budgets reliability projects and tracks feeder performance. There are five distribution operations technicians that identify and report damaged equipment in the Laredo District. Construction and outage restoration work is overseen by a Distribution Supervisor at the Uvalde Service Center.

AEP Texas Inc., Laredo District  
 Substation: La Pryor, Circuit ID: 94LA580  
**2020 SAIDI List (1 Year repeat)**

**Circuit Ranking:**

Information	2019	2020
Customer Count	255	266
SAIDI Rank	23	14
SAIDI Value	888.3	1038.4
300% System Avg.	584.6	586.2
# Circuits @ AEP Texas Inc.	1220	1220
NOAA*	2	0

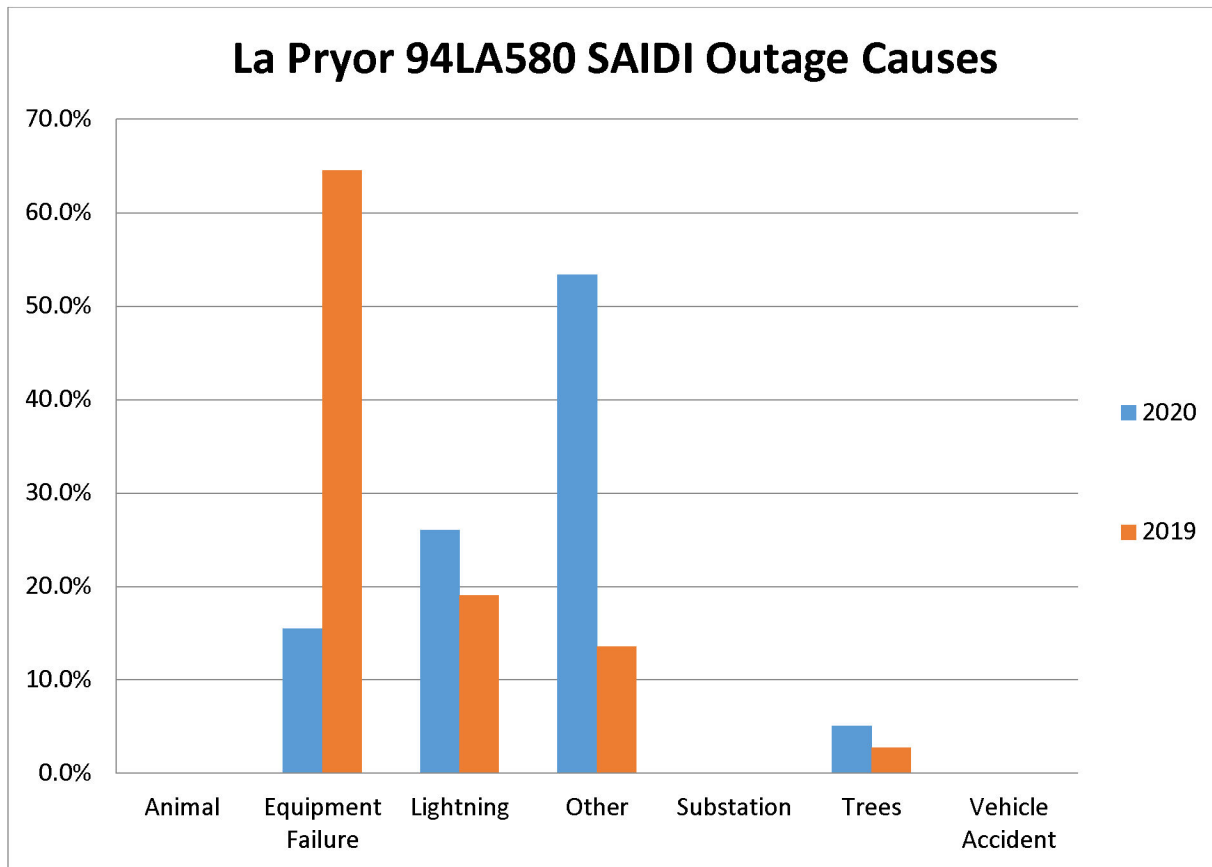
\* NOAA – This is the number of thunderstorm, high wind, and ice events from the U.S. Local Storm Events Data for the county in the circuit route between January 1<sup>st</sup> to December 31<sup>st</sup> of the given year.

**Remediation & Cost:**

The reliability work plan for the circuit consisted of the following elements. The cost includes the remediation work as well as any other items done to address reliability on the circuit.

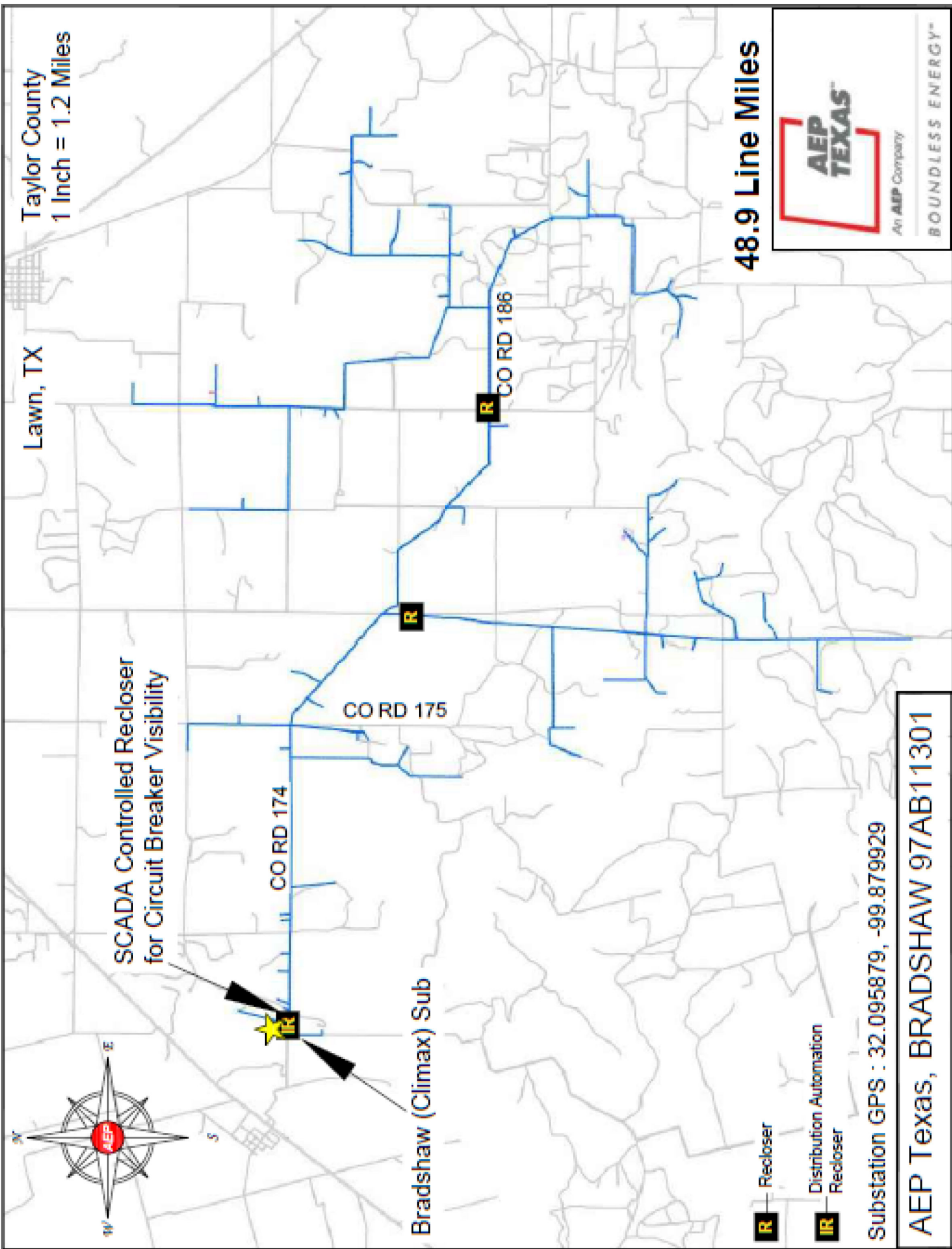
Projects	2018	2019	2020	2021	Sum
Sectionalizing	\$42,554	\$26,155	-\$64		\$68,645
Failed Equip No Outage				\$16,076	\$16,076
Power Quality					\$0
Small Asset Improvement		\$87	\$1,379		\$1,466
Crossarm C/O					\$0
Pole Reinforcement					\$0
Pole Replacement		\$58	\$12,616	\$2,845	\$15,519
Lightning Mitigation					\$0
Repair After Patrol			\$7,431		\$7,431
System Hardening					\$0
Distribution Underbuild	\$219,789	\$340,339	\$248,761		\$808,889
Sum	\$262,343	\$366,639	\$270,123	\$18,921	\$918,026

**Outage Causes:**



The following table illustrates the make up of the “Other” category in the above graph. The percent SAIDI contribution for each category of “Other” are listed by year:

Year	Major Cause Code Description	Minor Cause Code Description	SAIDI % OTHER
2019	DISTRIBUTION LINE	CONTAMINATION - FLASHOVER	0.0%
	DISTRIBUTION LINE	OVERLOAD	0.2%
	DISTRIBUTION LINE	UNKNOWN - NON WEATHER	7.8%
	DISTRIBUTION LINE	WEATHER - HIGH WINDS >60MPH	0.1%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	91.9%
2020	DISTRIBUTION LINE	UNKNOWN - NON WEATHER	4.3%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	95.7%



Taylor County  
1 Inch = 1.2 Miles

Lawn, TX

SCADA Controlled Recloser  
for Circuit Breaker Visibility

CO RD 174

CO RD 175

CO RD 186

Bradshaw (Climax) Sub

48.9 Line Miles

- R** Recloser
- IR** Distribution Automation Recloser



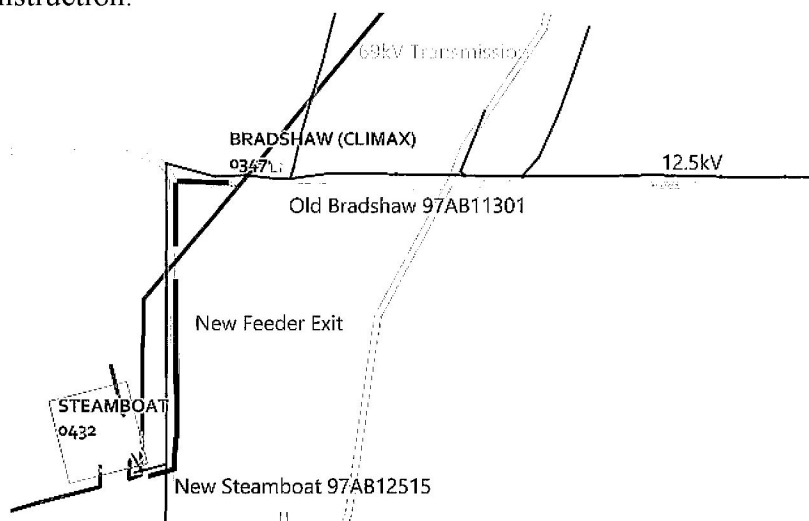
Substation GPS : 32.095879, -99.879929

AEP Texas, BRADSHAW 97AB11301

### Circuit Description:

Climax/Bradshaw 97AB11301 is a 49 mile long rural circuit east of the city of Bradshaw in Taylor County that serves 66 customers. The area is rolling wooded hills. The feeder was built to serve small oil field locations and ranches. Only thirteen of the 49 miles are three phase construction. The peak load in 2020 was 1.3MVA.

- The substation and circuit 11301 were built in the mid 1950s.
- There were no customer minutes out due to trees in 2019 or 2020.
- The Abilene Service Center is 30 miles to the north. Service for outages is split between Abilene service and the Ballinger service office 27 miles to the south.
- Repeating outages are due to ice storms. 52% of the outage minutes in 2019 were due to ice storms, and 91% of the outage minutes in 2020.
- In 2021, the feeder exit was transferred to the Steamboat substation with new SEL351 over current relays and SCADA supervision. The Intellirupter at the old station exit was removed (this was added for temporary SCADA visibility). The circuit consists of a 7.6 mile breaker zone with a vacuum recloser protecting the next 5.4 miles of three phase. Another recloser protects the v-phase line going to the south. Taps line in the breaker zone are fused, and taps behind the south recloser are fused, but there are no fused taps off the east recloser.
- Work done since being on the WPF list is a complete upgrade of the Steamboat switching station to include a distribution power bank and two feeder exits for \$3.22 million. The equipment at the Bradshaw sub was so old and outdated it was decided to abandon the station and feed 97AB11301 from 97AB12515 which is just a quarter mile to the south. Completed in late 2021.
- Future work for the old Bradshaw 97AB11301 includes adding a second feeder to the Steamboat station and adding a 5.5 mile feeder tie to Tuscola 97AB3305 for contingency and load transfer.
- The Company has one Reliability Engineer in Abilene District responsible for reliability and mitigation projects, budgeting, and automation planning. There are two operations technicians responsible for equipment inspection and replacement. The Distribution Service Supervisor in Abilene and the service crew lead in Ballinger is responsible for outage restoration, service, and construction.



AEP Texas Inc., Abilene District  
 Substation: Climax/Bradshaw, Circuit ID: 97AB11301  
**2020 SAIDI List (1 Year repeat)**

**Circuit Ranking:**

Information	2019	2020
Customer Count	60	66
SAIDI Rank	22	7
SAIDI Value	894.1	1459.9
300% System Avg.	584.6	586.2
# Circuits AEP Texas Inc.	1220	1220
NOAA*	1	2

\* NOAA – This is the number of thunderstorm, high wind, and ice events from the U.S. Local Storm Events Data for the county in the circuit route between January 1<sup>st</sup> to December 31<sup>st</sup> of the given year.

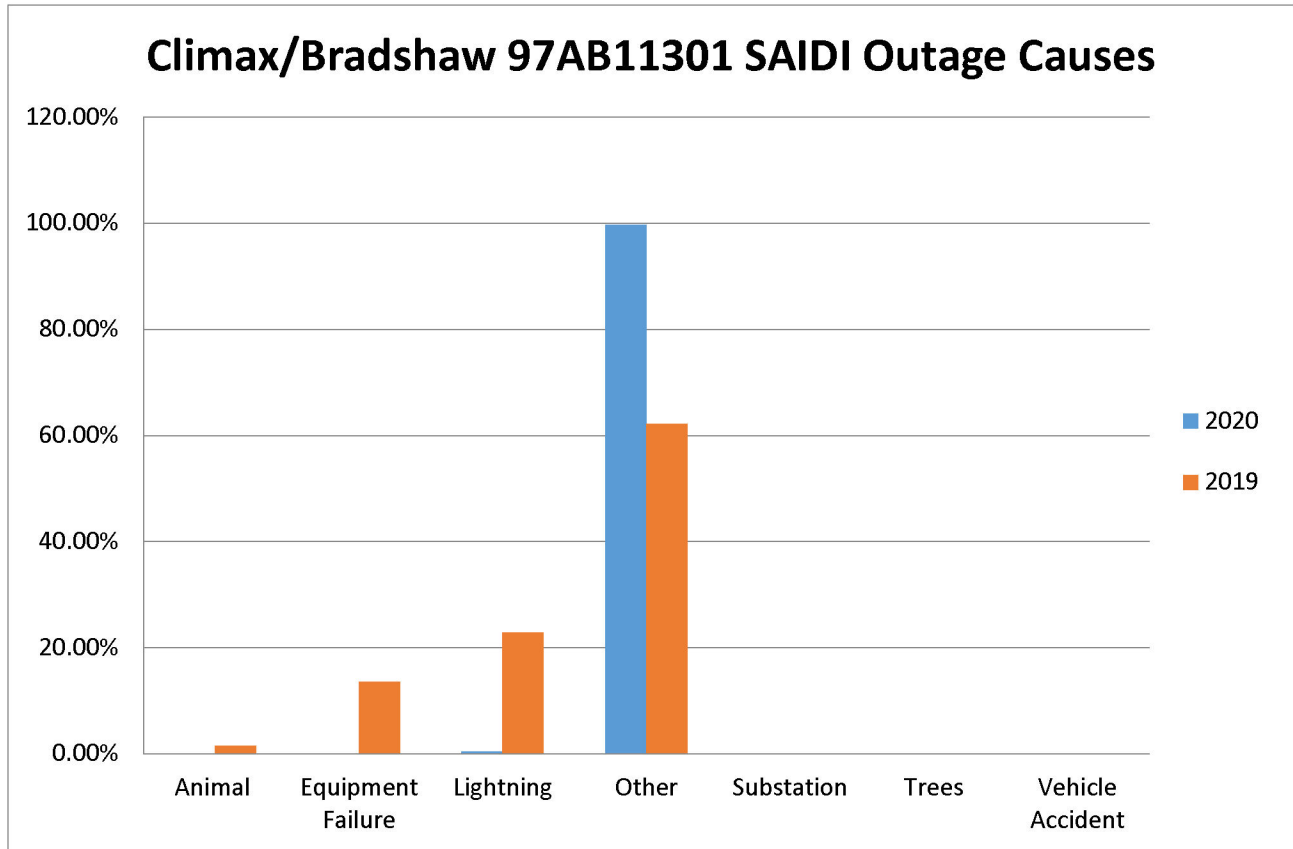
**Remediation & Cost:**

The reliability work plan for the circuit consisted of the following elements. The cost includes the remediation work as well as any other items done to address reliability on the circuit.

Projects	2018	2019	2020	2021	Sum
Sectionalizing					\$0
Failed Equip No Outage	\$8,036				\$8,036
Recloser Replacement	\$5,154				\$5,154
Power Quality					\$0
Small Asset Improvement					\$0
Crossarm C/O					\$0
Pole Reinforcement					\$0
Pole Replacement		\$1,367	\$360		\$1,727
Lightning Mitigation					\$0
Repair After Patrol				\$850	\$850
Feeder Ties					\$0
D-Line work from sub upgrade				\$109,424	\$109,424
System Hardening					\$0
<b>Sum</b>	\$13,190	\$1,367	\$360	\$110,274	\$125,191



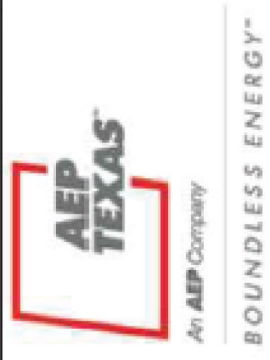
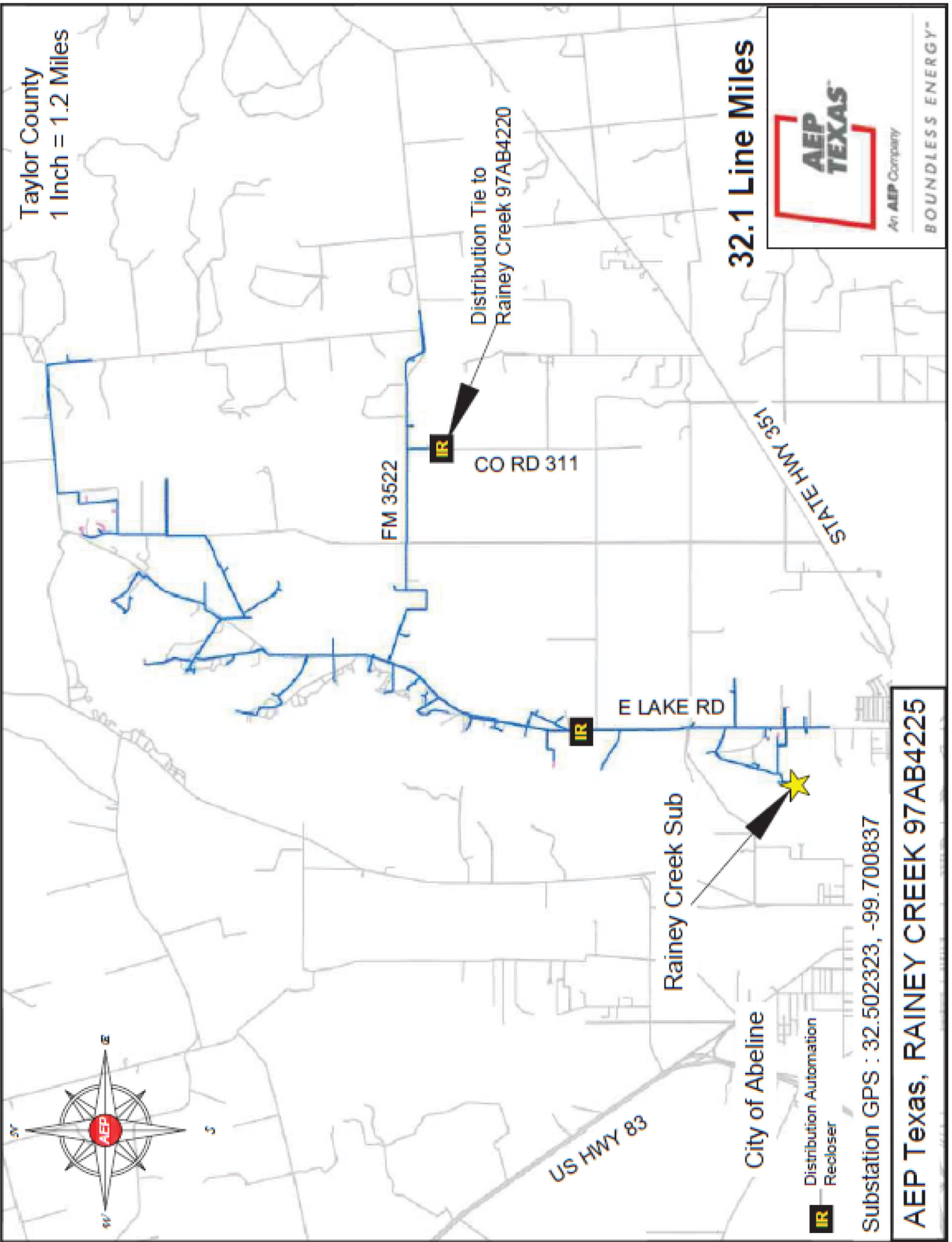
**SAIDI Outage Causes:**



The following table illustrates the make up of the “Other” category in the above graph. The percent SAIDI contribution for each category of “Other” are listed by year:

Year	Major Cause Code Description	Minor Cause Code Description	SAIDI % OTHER
2019	DISTRIBUTION LINE	UNKNOWN NON WEATHER	7.6%
	DISTRIBUTION LINE	WEATHER - ICE	84.0%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	8.4%
2020	DISTRIBUTION LINE	UNKNOWN NON WEATHER	0.1%
	DISTRIBUTION LINE	WEATHER - ICE	91.6%
	DISTRIBUTION LINE	WEATHER UNKNOWN	8.3%

Taylor County  
1 Inch = 1.2 Miles



32.1 Line Miles

**AEP Texas, RAINEY CREEK 97AB4225**

Substation GPS : 32.502323, -99.700837

**IR** Distribution Automation Recloser

City of Abeline

Rainey Creek Sub

US HWY 83

E LAKE RD

CO RD 311

FM 3522

STATE HWY 351



## **Circuit Description:**

Rainey Creek is a 12.5kV, 32.1 mile long feeder, serving the rural area north of the Abilene City limits. It serves residential homes along the Fort Phantom Lake shoreline, and a large water plant for the City of Abilene. It is wood pole and wood arm construction with 4/0 aluminum primary. The area is flat with mesquite brush. It serves 115 customers. The peak load in 2020 was 1.83 MVA.

- The feeder was built in 1970.
- There were no tree outages in 2019. In 2020, 10.5% of the CMI were due to trees. There are no plans in the near future for Forestry work.
- The nearest service center is in Abilene 5.7 miles to the south. Both service and construction come out of Abilene.
- In 2019, 65% of the outages were due to bad weather, high winds and ice. The other 35% was due to equipment failure. In 2020, 80% of the outage minutes were due to a tornado, 10.5% to trees, and 9.5% to lightning. The outage causes are changing.
- The substation breaker is protected by a Schweitzer SEL-351s overcurrent relay, and supervised by SCADA. The feeder has an automated S&C Intellirupter (recloser) at the end of a 4.5 breaker zone. Some of the tap lines are fused with fuse sacrificing coordination. There is an automated feeder tie with Rainey Creek 97AB4220.
- The feeder underwent a full inspection in 2018. And all reported problems were repaired in 2019. A reliability job was created to move an inaccessible section of primary to the road, and was completed 10/8/19. In 2021, a distribution automation project was started creating a load transfer scheme with the adjacent feeder 4220. Two Intellirupters were installed and are being commissioned in 2022.
- The reliability plan for 2022 is to build a feeder tie between Aileen sub and Rainey Creek Sub to provide a second source to Rainey Creek. Aileen is about one mile to the south.
- The Company has one Reliability Engineer in Abilene District responsible for reliability and mitigation projects, budgeting, and automation planning. There are two operations technicians responsible for equipment inspection and replacement. The Distribution Service Supervisor in Abilene is responsible for outage restoration, service, and construction.

**Circuit Ranking:**

Information	2019	2020
Customer Count	96	116
SAIDI Rank	32	56
SAIDI Value	738.4	596.8
300% System Avg.	584.6	586.2
# Circuits @ AEP Texas Inc.	1220	1220
NOAA*	3	3

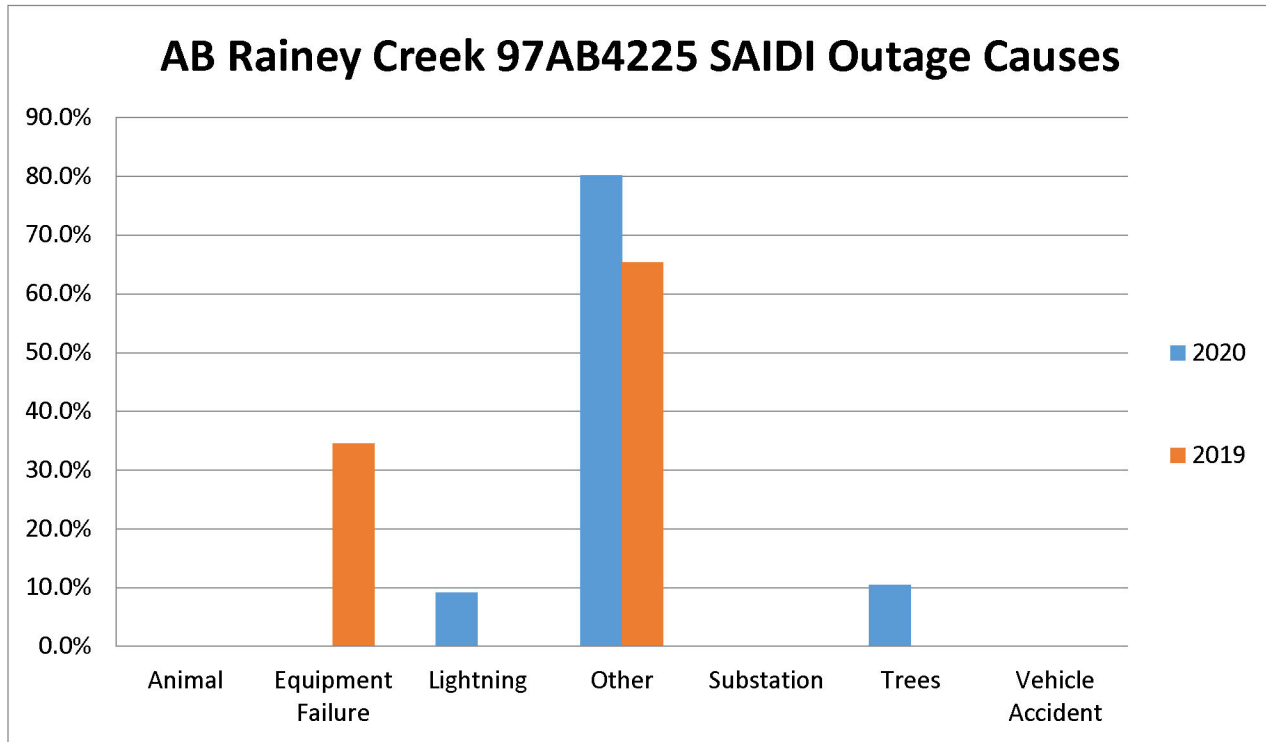
\* NOAA – This is the number of thunderstorm, high wind, and ice events from the U.S. Local Storm Events Data for the county in the circuit route between January 1<sup>st</sup> to December 31<sup>st</sup> of the given year.

**Remediation & Cost:**

The reliability work plan for the circuit consisted of the following elements. The cost includes the remediation work as well as any other items done to address reliability on the circuit.

Projects	2018	2019	2020	2021	Sum
Sectionalizing					\$0
Failed Equip No Outage	\$73	\$3,540	\$16,307	\$2,043	\$21,963
Power Quality			\$18,585		\$18,585
Small Asset Improvement					\$0
Crossarm C/O					\$0
Pole Replacement		\$3,966	\$34,109	\$11,020	\$49,095
Lightning Mitigation					\$0
Repair After Patrol		\$1,183			\$1,183
Feeder Ties					\$0
System Hardening		\$138,693	\$19,815		\$158,508
UG Cable Replacement	\$4,160	\$16,954			\$21,114
Distribution Automation		\$34,001	\$7,702		\$41,703
Sum	\$4,233	\$198,337	\$96,518	\$13,063	\$312,151

**Outage Causes:**



The following table illustrates the make up of the “Other” category in the above graph. The percent SAIDI contribution for each category of “Other” are listed by year:

Year	Major Cause Code Description	Minor Cause Code Description	SAIDI % OTHER
2019	DISTRIBUTION LINE	UNKNOWN - NON WEATHER	0.4%
	DISTRIBUTION LINE	WEATHER - HIGH WINDS	64.4%
	DISTRIBUTION LINE	WEATHER - ICE	32.5%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	2.8%
2020	DISTRIBUTION LINE	UNKNOWN - NON WEATHER	0.1%
	DISTRIBUTION LINE	WEATHER - TORNADO	98.1%
	DISTRIBUTION LINE	WEATHER - UNKNOWN	1.8%

The following files are not convertible:

2022 ES\_SQR 52946 AEP-TX\_20220203.xls

Please see the ZIP file for this Filing on the PUC Interchange in order to access these files.

Contact [centralrecords@puc.texas.gov](mailto:centralrecords@puc.texas.gov) if you have any questions.