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Oncor Electric Delivery

2022 SAIDI Ranking	2021 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2022 SAIDI Value
1244	1442	HLSES	0542	768	54.55
1245	233	ENSSO	2002	1,589	54.49
1246	2950	ENTOH	0003	13	54.45
1247	2548	GRMES	0512	1,203	54.31
1248	2636	WALST	0002	45	54.17
1249	1581	MKNGB	5312	834	54.16
1250	1117	CRLTN	1407	1,550	54.03
1251	1654	WXNTH	2306	3,248	54.01
1252	2111	MESQT	1301	1,429	53.93
1253	1937	LUFKN	1203	649	53.92
1254	151	CLKVL	1203	596	53.87
1255	1137	BOWEN	3171	1,690	53.86
1256	1389	LWSNR	2242	1,620	53.75
1257	2220	WITTS	1703	1,040	53.69
1258	810	CLBNR	1407	277	53.30
1259	1270	CHICG	1402	495	53.29
1260	1684	DESHR	1201	989	53.26
1261	1102	LUFKN	1202	1,116	53.24
1262	920	WMRLD	0006	619	53.20
1263	241	BRLSN	2041	2,079	53.07
1264	1059	CLCRK	1011	205	53.05
1265	2221	PRKRW	3311	1,153	53.00
1266	1253	OKLND	0004	1,580	52.97
1267	2729	PNTGO	7122	878	52.96
1268	305	CRNDL	2401	523	52.80
1269	961	WSTON	3201	1,417	52.78
1270	2291	WSOTH	1021	2,178	52.73
1271	1794	LNCST	1603	1,943	52.66
1272	1165	LKBLT	2103	2,311	52.51
1273	1771	DUVAL	0414	734	52.50
1274	1202	CLYVL	9312	1,311	52.38
1275	N/A	STAGE	3821	4,112	52.10
1276	1877	WHITE	3511	1,308	52.05
1277	N/A	ELKHR	1501	781	51.99
1278	2058	DALWT	2982	1,337	51.96
1279	459	MDAIR	2922	512	51.94
1280	1231	OKCLS	0008	1,555	51.93
1281	1382	EDGWD	1102	979	51.81
1282	42	TMPLE	1205	2,687	51.79
1283	1947	WGROB	8412	1,091	51.71
1284	2865	TYLGE	1313	2,151	51.64
1285	2040	SHRSW	6611	1,238	51.57
1286	1106	GRLND	1605	1,685	51.28
1287	1666	DNCNV	1904	1,482	51.25
1288	1702	PCOIT	1004	731	51.20
1289	942	HUDSN	1605	1,583	51.11
1290	1212	SMPST	0004	1,757	50.97
1291	1208	REAST	1507	109	50.89

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1292	444	BEAST	4082	513	50.82
1293	623	WHOUS	4128	375	50.80
1294	1310	MAYFD	5511	2,723	50.67
1295	1743	MNWLL	1206	1,183	50.66
1296	666	LFSTH	1404	497	50.57
1297	1606	MDTHN	1701	1,944	50.55
1298	978	WMRLD	0002	1,578	50.19
1299	3023	IRLBJ	3212	3,606	49.96
1300	1134	HORNE	1933	1,282	49.88
1301	1505	DNIWS	1602	1,064	49.77
1302	2139	WHTRK	0002	1,425	49.75
1303	599	LNCST	1605	847	49.71
1304	1403	BOWEN	3181	770	49.70
1305	1556	DENAV	0622	913	49.66
1306	154	MNWLL	1207	2,288	49.64
1307	1343	TATSP	4321	1,505	49.64
1308	1209	SHMNE	1401	1,290	49.60
1309	499	STAUG	0008	2,099	49.53
1310	2680	WHITE	3532	2,156	49.43
1311	1867	HKHTS	1606	2,082	49.33
1312	235	BLMND	3241	247	49.21
1313	2556	CRKSD	3105	868	49.13
1314	928	TYLER	1001	1,149	49.10
1315	2642	FARON	4072	1,557	49.09
1316	2789	RCHHL	0374	564	49.03
1317	569	RRSTH	1703	3,860	49.00
1318	3085	FATES	3001	2,369	48.97
1319	1957	WTAUG	4613	1,853	48.94
1320	2695	MCKMY	0811	1,779	48.93
1321	555	BONHM	1204	885	48.91
1322	2607	LKBLT	2104	964	48.91
1323	2333	IRVVV	2853	3,910	48.90
1324	485	SNDHL	3811	43	48.87
1325	2414	CRLTR	2053	1,750	48.86
1326	882	MLFRD	2103	1,011	48.86
1327	2523	MDWPK	9241	2,201	48.85
1328	2624	TYLNE	1613	481	48.85
1329	1044	TRNTH	1502	620	48.79
1330	1658	IRVBL	2504	1,607	48.71
1331	2012	CMTSW	0922	1,617	48.70
1332	1534	EULSO	9122	1,340	48.70
1333	2027	WNDCR	0241	667	48.66
1334	1645	RCHRD	1201	1,438	48.65
1335	1966	TYSTH	1201	1,515	48.57
1336	1447	RCHHL	0384	729	48.51
1337	1532	MDESA	4512	712	48.50
1338	1714	ROBNW	1503	1,777	48.47
1339	456	OAKHL	3031	644	48.44

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1340	622	CRNTH	2405	4,384	48.40
1341	2940	CRNRD	0006	352	48.28
1342	1949	GODRD	8151	801	48.26
1343	2004	SLBLF	1201	137	48.24
1344	2526	LOMAL	0013	1,058	48.19
1345	2049	WOVER	6131	2,466	48.18
1346	N/A	KNEDL	6352	2,821	48.10
1347	382	CDHIL	1802	1,941	48.07
1348	1682	LKHLD	0004	1,272	48.04
1349	3171	RNGMG	8421	11	48.02
1350	1881	CLBRN	1201	1,829	47.99
1351	544	CHROW	0007	82	47.95
1352	1539	CRLTN	1453	298	47.86
1353	742	CMPST	0003	222	47.82
1354	1127	COMSO	1402	954	47.79
1355	1789	ODNTH	2035	690	47.79
1356	1803	LWSNR	2221	942	47.77
1357	1833	MEXIA	4012	1,120	47.76
1358	1528	IRVGS	1908	940	47.71
1359	1671	LWSNR	2231	799	47.69
1360	2598	PNTIS	0241	386	47.64
1361	2876	ARTHR	0422	1,074	47.58
1362	1668	BLTSW	3203	1,408	47.58
1363	492	ROANW	9521	3,058	47.52
1364	2383	PRKWY	1521	2,446	47.51
1365	1772	SPRDL	4812	1,211	47.51
1366	176	CLCTY	1011	939	47.50
1367	2166	HRSMD	1955	2,128	47.47
1368	1267	HORNE	1923	1,465	47.45
1369	1345	ATHNS	1203	1,111	47.42
1370	2031	WMRLD	0001	229	47.42
1371	1871	RWDHV	1902	966	47.37
1372	2741	CLBNR	1406	108	47.34
1373	409	LUFKN	1201	1,376	47.33
1374	771	POOLV	5821	1,105	47.15
1375	1437	JNKNS	0003	919	47.04
1376	1709	CRLUD	1304	1,950	46.94
1377	2566	HUTTO	2721	5,894	46.85
1378	830	ARTHR	0441	1,870	46.81
1379	1838	SYCRK	4522	3,168	46.81
1380	2056	BRCRK	6524	809	46.76
1381	2497	BLMED	1622	1,029	46.74
1382	2788	BARNW	4522	99	46.66
1383	1551	NPKWY	0010	3,021	46.66
1384	644	WEAST	0618	849	46.64
1385	718	BNBRK	4121	1,433	46.62
1386	1934	LNCST	1601	1,229	46.58
1387	1051	GDPRW	9621	1,685	46.56

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1388	2529	TMPNW	1101	2,421	46.54
1389	38	VENSW	2601	1,198	46.43
1390	1613	HURST	1861	1,846	46.38
1391	1367	TAYLR	1204	2,042	46.33
1392	2381	HKHTS	1605	1,482	46.29
1393	1633	PRCRK	0003	1,943	46.24
1394	2542	VENSW	2604	27	46.18
1395	1950	WATCO	2605	5,501	46.12
1396	1125	CRLJL	1503	751	46.11
1397	1805	ROANW	9512	2,311	46.11
1398	272	INAIR	1411	1,981	46.01
1399	1326	MABNK	2404	1,671	45.97
1400	1378	IRVGS	1905	753	45.87
1401	2094	JUDCT	0004	218	45.81
1402	1239	CNTRD	0002	1,469	45.69
1403	1151	PFFRD	3441	1,197	45.69
1404	2402	GODRD	8142	814	45.64
1405	1406	ENTOH	0005	1,245	45.58
1406	1930	CRLUD	1305	1,716	45.57
1407	1322	WSMWS	9811	5,906	45.56
1408	1101	CMTSW	0936	522	45.46
1409	2418	HURST	1872	2,217	45.46
1410	276	KLBRG	0001	1,935	45.45
1411	2836	WNRTH	1416	733	45.41
1412	1210	DAVIS	3721	1,321	45.39
1413	2518	ALLNC	6411	50	45.38
1414	1819	COLNY	2404	1,935	45.20
1415	1561	GRLRD	0002	1,150	45.16
1416	721	LTLRV	1701	1,161	45.09
1417	1161	MDWPK	9231	2,421	45.08
1418	1480	GPLND	1202	600	45.06
1419	992	MDLNW	1594	1,647	45.03
1420	1005	TYBLR	2808	1,295	45.03
1421	993	TYEST	1507	634	45.00
1422	498	ATHNW	1403	2,206	44.93
1423	2121	WCOLO	1315	1,692	44.82
1424	1214	DENAV	0631	1,786	44.77
1425	905	BDFRD	8822	1,050	44.74
1426	1676	CMPWI	0002	1,777	44.71
1427	1593	DLEON	0111	852	44.71
1428	190	TROYS	1013	1,137	44.71
1429	1686	TYLER	1002	788	44.56
1430	1320	REAST	1502	1,456	44.53
1431	2303	BRHLW	7611	1,635	44.45
1432	2078	MESQN	1502	1,207	44.45
1433	2916	SYCRK	4521	3,534	44.31
1434	2240	HILCR	7321	2,473	44.23
1435	1522	HKHTS	1607	971	44.19

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1436	353	KILEN	1205	1,410	44.19
1437	1413	BSPRG	1903	1,368	44.18
1438	884	SCYEN	0001	1,807	44.14
1439	2708	LWSNR	2232	2,544	44.10
1440	2767	WATSN	5352	1,895	44.10
1441	786	PTENN	2358	1,430	44.03
1442	902	MRDCK	0002	1,714	43.97
1443	2668	PNTGO	7121	1,493	43.92
1444	1078	PCUST	2005	2,047	43.86
1445	2158	ALLEN	2402	919	43.79
1446	2658	PWEST	1303	1,539	43.78
1447	1638	CRLJL	1501	1,466	43.69
1448	2262	CNTRY	2842	1,157	43.68
1449	2370	DALLW	0007	1,532	43.60
1450	2707	CMTSW	0946	868	43.55
1451	949	EULTB	5711	2,402	43.47
1452	852	EDGCF	2213	3,185	43.35
1453	1056	BRCRK	6522	2,258	43.21
1454	2252	CLLVL	0003	1,666	43.20
1455	2340	HSKAV	0002	1,918	43.14
1456	1435	PRKRW	3362	1,087	43.14
1457	1232	ABRRD	0002	1,396	43.12
1458	1939	MEXIA	4024	376	43.03
1459	2411	REYST	4051	1,153	42.94
1460	1826	FRMBR	1801	1,246	42.89
1461	2095	GRLND	1606	975	42.89
1462	528	EMMAS	4012	60	42.74
1463	1441	NHNSW	0007	583	42.73
1464	2887	CKRHL	0003	497	42.70
1465	1742	FLAND	1311	120	42.70
1466	1642	HORNE	1911	1,804	42.70
1467	2020	WNDWD	3641	1,478	42.70
1468	1194	LGVST	8521	2,134	42.67
1469	N/A	TLRWT	2223	161	42.65
1470	2603	TYWST	2013	1,041	42.65
1471	1156	TRLSW	1203	720	42.61
1472	1424	KLNTF	1805	1,376	42.59
1473	508	MYPRL	1803	654	42.58
1474	526	SLAKE	8321	1,205	42.56
1475	1446	CPRCV	1401	1,870	42.47
1476	1773	MAYFD	5533	5,335	42.39
1477	2394	PRNTH	1401	1,317	42.39
1478	1013	ECTOR	1201	398	42.25
1479	1252	OAKHL	3021	2,062	42.22
1480	1460	LAVON	1404	958	42.15
1481	881	TYLNW	1912	1,059	42.13
1482	2660	DUPUY	1211	1,014	42.12
1483	3101	COTRD	0001	341	42.06

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1484	120	OKCLS	0007	656	42.05
1485	1585	PCOIT	1007	778	42.00
1486	1347	MSHLN	0003	530	41.85
1487	2657	WCOLO	1318	1,694	41.83
1488	1692	CRTLD	4731	3,233	41.66
1489	436	RICES	0206	829	41.66
1490	1121	FRMBR	1807	848	41.65
1491	302	KRUMS	1204	1,922	41.61
1492	937	IRVNR	1506	2,991	41.59
1493	391	MRDCK	0003	854	41.58
1494	1323	NHNSW	0001	477	41.56
1495	74	CRANE	0331	1,227	41.52
1496	2446	VGCRK	8041	1,031	41.52
1497	779	DELTA	1701	1,135	41.45
1498	1861	GNSVL	1203	1,652	41.39
1499	2145	PPARK	1806	848	41.30
1500	477	ALVRD	1504	170	41.28
1501	1651	DCATR	1202	1,820	41.21
1502	2943	HMPHL	2742	857	41.17
1503	1520	DUBLN	1360	1,157	41.16
1504	448	COPEL	3055	2,154	41.09
1505	2365	RCHRD	1206	704	41.09
1506	2144	ARLNG	1282	842	41.04
1507	1033	NCNTH	1808	801	40.97
1508	2454	CRTLD	4732	3,110	40.95
1509	1426	EUSTC	2401	1,942	40.94
1510	2212	KLNPS	1101	2,461	40.93
1511	583	NPKWY	0006	4,912	40.93
1512	76	FLGRV	4721	271	40.89
1513	451	JSHUA	1301	1,132	40.89
1514	805	STHRL	0004	1,396	40.88
1515	1122	BRTRD	7311	1,720	40.86
1516	2719	WEBBS	8622	1,743	40.82
1517	1722	VALVW	1802	491	40.79
1518	315	GRAHM	0711	1,648	40.75
1519	1689	NCRST	2204	1,961	40.75
1520	2364	WINKS	0511	747	40.74
1521	2292	LEMON	0011	1,375	40.73
1522	1414	FSCRK	6723	4,540	40.65
1523	1617	RKCRK	6111	4,634	40.62
1524	1786	TYSTH	1206	1,275	40.61
1525	2646	BRNAV	0723	1,363	40.57
1526	1204	HSKAV	0007	81	40.56
1527	2426	PARIS	1204	1,134	40.56
1528	1948	MESTE	1202	951	40.48
1529	1260	DENAV	0611	846	40.47
1530	N/A	PGSTH	7031	27	40.43
1531	704	BONHM	1202	762	40.41

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1532	1643	RNDRK	1507	2,919	40.40
1533	1428	IRVGS	1904	983	40.39
1534	2318	REAST	1501	317	40.37
1535	1635	BRNAV	0711	1,670	40.26
1536	2275	COPEL	3053	2,787	40.26
1537	463	LKBLT	2101	1,603	40.23
1538	2233	CRLTR	2003	1,354	40.22
1539	2173	SYCRK	4512	4,848	40.17
1540	2238	WITTS	1701	1,306	40.15
1541	2253	BSPSW	0841	702	40.10
1542	1249	RTHGB	1421	1,574	40.02
1543	637	WTHRE	2101	770	40.02
1544	N/A	BRYAN	0003	24	40.00
1545	266	LNDAL	2201	2,163	40.00
1546	1386	SHNRW	1610	461	39.99
1547	1563	DNINR	1404	196	39.89
1548	1928	EULTB	5731	677	39.86
1549	1327	BSPRG	1902	2,535	39.83
1550	1836	CRNTH	2404	2,540	39.81
1551	2738	PLKST	0006	840	39.78
1552	1271	TMNTH	1605	1,917	39.78
1553	1540	KLNTF	1804	1,001	39.75
1554	1876	HLSES	0561	1,825	39.73
1555	2348	PPARK	1807	1,025	39.73
1556	3168	PWEST	1309	54	39.73
1557	1759	CLBRN	1202	1,096	39.69
1558	1727	RANGR	4311	958	39.69
1559	971	WNTHW	1116	677	39.69
1560	2972	ENTOH	0002	1,452	39.68
1561	1616	SPRDL	4811	2,030	39.68
1562	958	ATHNS	1202	790	39.67
1563	1295	PCOIT	1001	1,116	39.62
1564	2783	RWDHV	1908	2,433	39.62
1565	1835	CLBNR	1404	1,344	39.51
1566	2794	TYEST	1509	393	39.47
1567	1241	HLTOM	2472	1,851	39.46
1568	2120	BRNAV	0741	2,055	39.45
1569	2482	HORNE	1934	1,648	39.42
1570	449	WHTRK	0007	1,268	39.41
1571	198	MNWLW	1401	1,563	39.32
1572	2239	PRSTN	0004	675	39.12
1573	299	RHOME	2401	1,208	39.08
1574	2193	RNDRK	1505	1,322	39.08
1575	1306	WMMMR	2703	1,146	39.04
1576	1622	EZACH	0001	996	39.03
1577	1509	BRCRK	6514	584	38.97
1578	1546	PAYNE	1205	1,311	38.91
1579	2462	TRLSW	1204	584	38.80

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1580	1163	WHTRK	0006	1,381	38.73
1581	893	LRENA	2901	1,024	38.70
1582	322	WICKT	0421	225	38.70
1583	2225	MESTE	1211	1,200	38.67
1584	2702	FARON	4062	1,148	38.66
1585	181	RSKMN	3078	140	38.61
1586	956	SGOVL	1406	976	38.58
1587	239	FERIS	1101	989	38.55
1588	724	IRVNE	1306	1,491	38.52
1589	763	GMINI	5821	2,067	38.41
1590	1899	BLKST	1742	1,780	38.38
1591	1182	FROKS	0002	1,758	38.24
1592	1793	RSPCK	2108	955	38.19
1593	669	RBNSN	2502	1,358	38.17
1594	1527	PALRD	2203	1,121	38.13
1595	2962	BNDRA	0009	594	38.11
1596	1801	BLTON	1806	1,071	38.06
1597	2297	DENAV	0621	915	37.94
1598	2168	MURPH	2753	1,055	37.94
1599	585	PLKST	0008	1,692	37.94
1600	1913	WEBBS	8614	2,525	37.94
1601	1754	PLKST	0002	893	37.93
1602	1135	GLSCN	6221	18	37.92
1603	751	GRNGR	1801	948	37.91
1604	490	ALVDO	1901	1,812	37.85
1605	2283	MNWLL	1202	699	37.81
1606	1375	IRVGS	1901	1,395	37.79
1607	1470	ARLNG	1292	1,581	37.77
1608	2856	TNSCL	1104	211	37.71
1609	2509	WELRD	0001	1,210	37.70
1610	2016	ARTHR	0472	1,345	37.66
1611	607	HRSMD	1907	3,081	37.62
1612	1377	EZACH	0005	538	37.52
1613	1734	WDGWD	1513	940	37.42
1614	1494	WHITE	3542	1,646	37.42
1615	1806	DCVSO	1102	695	37.40
1616	1983	EDGCF	2241	968	37.32
1617	1679	BRLSN	2051	3,004	37.31
1618	2433	CRTLD	4711	3,230	37.26
1619	2472	PERIN	1511	704	37.26
1620	2768	CRLJL	1504	1,313	37.25
1621	1274	INWRD	0001	1,048	37.22
1622	206	SGOVL	1404	1,786	37.22
1623	1756	TMPLE	1206	713	37.22
1624	1661	BBTWN	1502	1,985	37.16
1625	495	SPRDL	4841	962	37.15
1626	1478	WMMMR	2707	1,572	37.10
1627	311	CRLTN	1403	207	37.08

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2022 SAIDI Ranking	2021 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2022 SAIDI Value
1628	2209	KLNTF	1801	1,121	37.02
1629	1381	MDWCK	0006	1,007	37.02
1630	1329	WHOUS	4121	2,297	37.02
1631	1872	BOWEN	3112	903	36.97
1632	1022	DCDAM	2002	1,095	36.92
1633	2853	EMPCT	0007	98	36.90
1634	2597	BRNAV	0774	208	36.88
1635	1086	AZLES	2123	2,744	36.77
1636	N/A	LTVSB	5481	1,291	36.76
1637	1664	MESQN	1505	1,453	36.73
1638	2903	ARLNG	1222	96	36.64
1639	2011	FSCRK	6713	3,862	36.64
1640	2875	PRHLL	2402	58	36.55
1641	1587	RDLML	2532	1,989	36.50
1642	423	BULDG	1102	74	36.48
1643	2733	WESTS	1602	928	36.48
1644	1098	DNCNV	1905	1,323	36.43
1645	859	MESWE	3611	1,869	36.41
1646	549	SANSM	3912	3,877	36.37
1647	1254	CKRHL	0001	399	36.36
1648	1608	PLANO	1104	1,572	36.34
1649	1648	KERNS	2401	549	36.33
1650	2187	MDTHN	1703	1,057	36.25
1651	741	SHAMP	0003	1,767	36.19
1652	722	WHTRK	0004	1,149	36.18
1653	2936	FRMNT	0007	966	36.12
1654	1577	GSTHW	1624	2,273	36.00
1655	1701	CHNDW	1201	1,426	35.92
1656	2165	DAVIS	3731	753	35.88
1657	2213	CAMRN	1201	1,001	35.84
1658	1859	RDLML	2581	1,237	35.82
1659	1619	MTLDA	0001	2,455	35.74
1660	1620	BLAGG	3911	603	35.73
1661	2346	ODESA	0261	439	35.67
1662	2356	CHROW	0002	105	35.61
1663	1246	BNBRK	4112	2,617	35.56
1664	2175	GRMES	0511	1,219	35.52
1665	N/A	LKCRS	4211	1,520	35.50
1666	633	RWALE	3324	1,995	35.49
1667	457	PTENN	2351	1,567	35.47
1668	1515	CNTRY	2813	3,094	35.46
1669	1300	CRSCN	1204	665	35.45
1670	1865	CKRHL	0004	432	35.35
1671	1750	MDLNW	1521	1,826	35.34
1672	972	DAVIS	3711	678	35.32
1673	588	LFKHL	2103	447	35.24
1674	2467	REAST	1503	600	35.21
1675	248	ARPCM	4169	11	35.20

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1676	804	AIRPK	8421	447	35.19
1677	1887	GVODS	3011	2,354	35.14
1678	1933	KILEN	1202	1,763	35.06
1679	470	TYLER	1006	2,033	34.99
1680	96	CDHCR	2054	1,556	34.96
1681	2256	GVODS	3031	1,384	34.90
1682	2311	RCHHL	0321	1,723	34.90
1683	2701	RVRFT	0004	120	34.85
1684	1825	RCLNS	1407	1,402	34.84
1685	1203	SHNRW	1608	1,487	34.79
1686	1425	DESPR	1405	915	34.75
1687	1677	OAKHL	3011	2,653	34.65
1688	1837	RCHHL	0311	975	34.50
1689	2549	IRLBJ	3221	1,082	34.49
1690	2036	SCATR	2501	935	34.47
1691	1328	PREST	1601	1,250	34.42
1692	567	BRNWD	1204	1,051	34.32
1693	2484	TRLWD	7711	2,896	34.32
1694	1521	KLNCC	1702	3,904	34.31
1695	2160	CRLFR	2152	3,581	34.30
1696	2342	PARIS	1201	1,101	34.30
1697	2469	CMPWI	0004	1,048	34.29
1698	1371	TYBLR	2811	1,348	34.17
1699	278	RECCR	0003	200	34.16
1700	3181	STERT	2702	21	34.12
1701	745	IRVND	1201	989	34.11
1702	802	ODNTH	2033	702	34.11
1703	1147	EULSO	9132	2,201	34.06
1704	2301	FLMSO	3716	1,698	34.06
1705	2485	WALNT	0001	1,427	33.98
1706	901	ARCTY	1321	901	33.84
1707	1812	FHLSW	1342	2,472	33.82
1708	1342	RCHRD	1203	839	33.77
1709	680	WNTHW	1120	1,043	33.72
1710	83	HDWLK	3001	1,044	33.69
1711	930	NYLDV	1201	712	33.63
1712	2588	WBOSE	1103	1,033	33.63
1713	899	IRVNE	1309	590	33.60
1714	891	DAVST	0005	1,874	33.57
1715	2424	BSPSW	0832	1,033	33.54
1716	N/A	PWEST	1305	373	33.49
1717	1607	FSCRK	6711	3,773	33.41
1718	1190	BRYAN	0006	2,005	33.40
1719	184	BAGWL	1202	46	33.38
1720	2310	ADISN	1601	1,025	33.29
1721	975	CLMET	0001	1,288	33.22
1722	1992	DESPR	1403	1,842	33.21
1723	369	OKCLS	0003	1,538	33.16

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1724	1279	TYOMN	1405	1,717	33.14
1725	1245	TMPLE	1204	1,084	33.10
1726	2210	LKHLD	0005	1,368	33.08
1727	2616	MKNSW	1603	1,928	33.06
1728	262	SWDTN	1641	1,546	32.99
1729	667	BLTON	1805	1,584	32.98
1730	828	BRCRK	6512	1,824	32.96
1731	467	CRWLY	7022	4,188	32.92
1732	2539	CMTSW	0987	404	32.88
1733	1062	WITTS	1705	1,728	32.86
1734	685	MDRAW	8221	45	32.84
1735	1032	CRSCN	1206	1,573	32.83
1736	1925	TRNTH	1501	1,885	32.83
1737	1553	HLTOM	2482	1,063	32.72
1738	2854	BRTRD	7321	2,770	32.68
1739	2881	BSPRG	1904	1,670	32.67
1740	2483	WTAUG	4612	1,297	32.63
1741	1490	GAVSW	0001	1,541	32.61
1742	2205	GRDPR	0891	2,439	32.60
1743	1004	MNFLD	2621	2,886	32.48
1744	3106	CRLUD	1301	24	32.45
1745	1205	IRVND	1202	1,504	32.41
1746	2080	CHNDW	1203	874	32.37
1747	2797	WATSN	5342	2,108	32.31
1748	2191	HORNE	1924	968	32.28
1749	2076	EDGCF	2231	451	32.26
1750	566	KIMBL	5021	2,388	32.20
1751	507	COMSO	1401	668	32.17
1752	2157	EULTB	5721	1,634	32.16
1753	307	COPEL	3056	1,924	32.11
1754	1537	MIDWY	0621	12	32.08
1755	1535	HNRTA	0311	1,093	32.05
1756	1183	MDLNW	1541	2,149	32.03
1757	422	TYLGE	1308	1,567	31.99
1758	1562	CANTN	1302	1,439	31.98
1759	2448	FSCRK	6724	1,403	31.93
1760	2464	WNDWD	3682	791	31.93
1761	530	ANDNR	2252	266	31.88
1762	1936	WELRD	0008	1,131	31.88
1763	2892	TMPSE	1503	523	31.86
1764	1292	BNTDR	0003	591	31.82
1765	2545	PAULN	2501	2,082	31.82
1766	723	BEAST	4084	898	31.81
1767	1449	GLNHV	3963	1,574	31.67
1768	1927	BDFRD	8842	1,458	31.64
1769	516	BRHLW	7621	2,466	31.63
1770	1489	SUNNY	2303	1,003	31.58
1771	1567	LAVON	1451	1,044	31.53

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1772	1840	FRNKF	0002	930	31.51
1773	1694	HHSTH	1501	2,872	31.48
1774	2380	CPLSO	4312	1,836	31.47
1775	1844	FROKS	0003	647	31.45
1776	636	EMPCT	0003	1,308	31.40
1777	2385	GAVSW	0007	1,526	31.31
1778	1530	CRLJL	1506	1,943	31.23
1779	1526	TYBLR	2804	2,434	31.22
1780	1162	ANDNR	2242	304	31.11
1781	1557	CMTSW	0973	1,617	31.11
1782	497	PLANO	1103	1,872	31.08
1783	2242	CRKSD	3101	1,466	31.06
1784	2820	CRLTR	2005	677	30.97
1785	2264	DNINR	1403	1,269	30.97
1786	182	EDGCF	2223	4,107	30.94
1787	1641	IRVNG	1404	1,436	30.94
1788	1159	DPCRK	1822	1,344	30.89
1789	2151	MDTHS	1003	1,040	30.89
1790	728	TATSP	4313	1,600	30.82
1791	998	KLRPR	9021	1,469	30.78
1792	1981	NLNVL	2001	561	30.71
1793	807	GVGLF	9601	61	30.69
1794	650	HLSES	0553	2,129	30.55
1795	2835	IRVVV	2801	2,751	30.54
1796	2088	PWEST	1304	1,683	30.49
1797	1525	BDFWD	8921	684	30.48
1798	1065	COLNY	2401	762	30.44
1799	N/A	GUNSO	9922	910	30.44
1800	406	DUVAL	0434	2,738	30.38
1801	1349	RBNSN	2501	2,058	30.34
1802	2186	IRVGS	1903	986	30.32
1803	1621	AMMFG	5611	815	30.31
1804	2639	RDLML	2571	364	30.31
1805	1675	SMFLD	2391	295	30.31
1806	1061	ADISN	1607	1,233	30.25
1807	2046	PLKST	0003	1,307	30.22
1808	1263	WRBND	2311	1,450	30.21
1809	2227	RENSW	3124	2,185	30.16
1810	2750	LVBRD	0005	1,280	30.12
1811	714	TRLWD	7712	3,414	30.12
1812	2100	DALWT	2962	1,088	30.10
1813	2254	MCWHT	3522	3,016	30.05
1814	1956	RNDRK	1509	1,417	30.03
1815	2230	SMFLD	2343	730	30.00
1816	1910	LKBLT	2105	1,281	29.99
1817	1482	PCOIT	1006	1,041	29.99
1818	1804	HKBRY	1103	395	29.97
1819	1888	RSPVY	1703	954	29.88

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1820	1748	MESQT	1307	659	29.80
1821	1012	HKHTS	1603	1,039	29.79
1822	1941	PSHIL	1602	1,095	29.78
1823	2059	SGOVL	1405	1,505	29.73
1824	2651	DEALY	0004	1,262	29.70
1825	2083	BLTON	1802	1,666	29.69
1826	2189	ADISN	1603	199	29.65
1827	2110	GRHWY	5522	1,794	29.62
1828	2584	NPKWY	0014	6,073	29.57
1829	753	EZACH	0008	1,529	29.56
1830	898	DALWT	2991	1,221	29.54
1831	2406	WALST	0004	79	29.49
1832	1196	BLMED	1620	1,604	29.43
1833	2502	ATHNW	1405	914	29.42
1834	1832	BDFWD	8941	1,238	29.40
1835	2023	HUDSN	1603	1,530	29.39
1836	1223	PAYNE	1202	1,710	29.34
1837	2329	RNDRK	1503	3,936	29.31
1838	1133	WNDWD	3621	2,218	29.30
1839	929	SSPNG	1205	1,282	29.23
1840	2192	HMPHL	2743	1,130	29.11
1841	2124	SSPNG	1203	1,413	29.09
1842	1849	HORNE	1943	1,900	29.07
1843	2779	ZEPHR	2404	203	29.07
1844	N/A	RRWES	1613	4,283	29.03
1845	1778	DEALY	0005	1,412	29.02
1846	2801	FRNKF	0004	1,602	28.97
1847	1822	GRLTC	3803	1,172	28.94
1848	1430	PRMED	4404	1,156	28.90
1849	1908	WELRD	0003	417	28.87
1850	1901	SIKES	2422	1,195	28.81
1851	1352	OAKHL	3082	1,488	28.76
1852	1728	BEAST	4090	1,105	28.72
1853	381	FRMBR	1805	765	28.72
1854	945	GAVSW	0005	1,520	28.65
1855	743	KILEN	1201	1,956	28.61
1856	2282	PLKST	0005	1,376	28.58
1857	N/A	OWLHL	7723	13	28.51
1858	730	ALLEN	2404	2,174	28.49
1859	1896	LKCRS	4231	1,311	28.47
1860	2341	LOMAL	0008	454	28.46
1861	2873	MKNGB	5311	371	28.44
1862	888	TMNTH	1606	14	28.44
1863	777	JKWST	4035	95	28.42
1864	378	ALLEN	2403	2,778	28.33
1865	251	JKSBR	1401	740	28.32
1866	2612	KFMNW	1202	1,033	28.25
1867	2037	LWRDR	0003	1,670	28.25

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1868	3081	PRSPR	4703	1,447	28.25
1869	2586	TYSTH	1208	251	28.25
1870	294	MDESA	4541	1,448	28.20
1871	2177	MKNNY	1253	163	28.06
1872	256	MDLNE	0142	529	28.04
1873	445	TMPTV	2404	1,765	28.04
1874	2759	WATCO	2604	798	28.04
1875	443	MDAIR	2911	387	27.96
1876	1188	TRNTY	7511	1,428	27.95
1877	715	WEBBS	8631	3,424	27.94
1878	1777	ALDTU	9421	1,171	27.93
1879	781	PFFRD	3431	577	27.92
1880	1395	CRSCN	1201	815	27.91
1881	1284	SCYEN	0002	2,027	27.91
1882	99	WALST	0001	719	27.90
1883	2863	GSTHW	1626	21	27.89
1884	962	TATSP	4311	1,883	27.88
1885	737	ALPHA	0010	533	27.84
1886	3142	LTVSB	5422	15	27.83
1887	102	IRVNR	1557	3,218	27.82
1888	1082	SUNNY	2301	789	27.81
1889	2802	MESQT	1306	998	27.73
1890	536	IRVNR	1555	550	27.71
1891	537	MKNSW	1601	1,807	27.66
1892	1511	WNDCR	0262	222	27.65
1893	885	GRPVN	8231	415	27.62
1894	713	POWEL	2706	268	27.57
1895	2146	BLTLN	0002	884	27.46
1896	1111	TMSTH	1401	1,843	27.46
1897	733	SCYEN	0006	1,216	27.43
1898	740	WDGWD	1531	1,502	27.43
1899	1594	HHSTH	1504	2,705	27.40
1900	N/A	LKCRS	4241	1,735	27.38
1901	1282	BOWEN	3122	1,270	27.24
1902	2696	EDGCF	2262	1,043	27.22
1903	1696	IRVNG	1401	1,646	27.17
1904	2764	PLANO	1101	409	27.16
1905	1735	DALLW	0006	2,075	27.15
1906	693	PRFTW	4212	2,017	27.06
1907	1860	CLBRN	1203	1,600	27.04
1908	845	PKRMX	4701	2,930	27.01
1909	1211	PLANO	1102	144	27.00
1910	186	KFMNW	1201	1,059	26.97
1911	1336	WHITE	3512	1,660	26.89
1912	1964	CNTRY	2824	3,057	26.88
1913	2593	CRLTR	2007	1,504	26.87
1914	1889	RSPCK	2131	61	26.73
1915	3150	MRSDO	9612	2,352	26.68

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1916	253	MEXIA	3016	312	26.66
1917	3045	PLHWY	3703	15	26.62
1918	2181	PSHIL	1604	465	26.60
1919	1315	RNDRK	1508	2,151	26.60
1920	1487	BRLSN	2033	1,694	26.58
1921	2066	WNDCR	0211	1,309	26.58
1922	679	IRVNE	1303	1,750	26.55
1923	1372	LNDAL	2204	564	26.53
1924	2384	FARON	4052	1,671	26.52
1925	1678	IRVNR	1505	1,310	26.50
1926	2170	IRVND	1203	436	26.45
1927	1168	MESFR	2102	681	26.38
1928	946	PFLGV	2004	3,474	26.38
1929	1108	ROGRS	1301	839	26.26
1930	1629	SWTWR	1362	436	26.19
1931	2263	COVEE	3403	1,594	26.18
1932	1362	EULES	8732	640	26.18
1933	1010	MNFLD	2611	2,528	26.18
1934	1704	RWDHV	1905	1,125	26.16
1935	1027	OKLND	0001	1,490	26.14
1936	2468	ADISN	1602	226	26.13
1937	1600	ADISN	1604	1,159	26.06
1938	1821	RRNES	2403	3,376	26.01
1939	3140	LSCOL	2142	15	26.00
1940	2278	EULES	8712	1,071	25.96
1941	2196	MNHNS	1921	1,513	25.96
1942	1618	TMSTH	1405	530	25.96
1943	1418	EULES	8731	1,462	25.85
1944	1290	PCUST	2001	574	25.84
1945	1313	WHITE	3521	1,725	25.82
1946	600	CPRCV	1407	2,221	25.79
1947	1586	IRVND	1204	1,345	25.77
1948	1166	TRLWD	7722	2,350	25.77
1949	2439	LOMAL	0009	1,023	25.75
1950	1040	KLNPS	1104	1,434	25.71
1951	2515	CTYVW	2212	155	25.67
1952	1286	HMTRD	0001	1,000	25.66
1953	1662	PCUST	2003	1,025	25.65
1954	1273	MESQW	1808	1,343	25.57
1955	2796	SCHRD	0008	80	25.54
1956	2382	BLMND	3282	96	25.52
1957	2325	BRTRD	7312	2,334	25.46
1958	2122	GVODS	3062	2,674	25.44
1959	2536	ATNRN	3421	707	25.41
1960	2480	GRHWY	5512	3,596	25.41
1961	59	FKLCY	5111	63	25.36
1962	357	ITALY	2101	313	25.35
1963	2535	SMFLD	2352	610	25.33

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1964	1113	PCUST	2011	1,450	25.27
1965	2929	HKBRY	1107	1,009	25.24
1966	2337	MAPLE	0004	482	25.20
1967	1302	CDHCR	2055	1,325	25.18
1968	1143	WLSPT	1002	661	25.18
1969	2060	CRNTH	2403	3,273	25.17
1970	1256	LKMNT	0007	1,527	25.10
1971	1402	KLNPS	1105	1,604	25.08
1972	2188	PLSTH	1305	531	25.07
1973	579	ARTHR	0431	496	25.06
1974	1752	CAMRN	1202	1,465	24.97
1975	1179	ECTHP	4931	421	24.96
1976	991	PCOIT	1008	1,308	24.91
1977	2315	EGFRD	0002	26	24.90
1978	169	GRLND	1603	313	24.88
1979	226	GSMTH	1732	30	24.81
1980	379	CPRCV	1406	1,296	24.78
1981	2640	TRNTH	1503	2,064	24.77
1982	1312	PARIS	1202	1,269	24.71
1983	2968	IRVNG	1403	529	24.68
1984	1763	KNOTT	5211	89	24.67
1985	1749	WCOLO	1319	2,090	24.67
1986	2964	FORSW	2053	2,541	24.63
1987	1768	CRLTR	2052	1,562	24.62
1988	2343	ROWLT	1101	1,280	24.53
1989	916	ODESW	5221	1,255	24.51
1990	725	FRMBR	1803	3,590	24.50
1991	2681	WEBBS	8613	2,452	24.45
1992	1713	BEALS	9511	118	24.43
1993	1589	BNBRK	4123	1,414	24.43
1994	308	MKNNY	1205	507	24.43
1995	2641	MKNSO	3613	3,329	24.43
1996	1387	PLGRV	0002	2,420	24.43
1997	1842	FARON	4031	1,149	24.40
1998	2519	REAST	1506	1,203	24.40
1999	72	RNDRK	1501	782	24.36
2000	2871	TRLSW	1201	1,262	24.34
2001	1265	CRLTN	1454	446	24.32
2002	N/A	CHYNE	9132	26	24.30
2003	1097	RCLNS	1408	120	24.29
2004	212	JUDCT	0003	1,922	24.27
2005	615	PWEST	1301	1,263	24.24
2006	2300	HRSMD	1905	2,806	24.18
2007	2740	TYSTH	1203	430	24.11
2008	2589	WALNT	0005	1,039	24.10
2009	1451	HUTTO	2711	4,535	24.09
2010	363	FARON	4011	622	24.08
2011	2495	KNEDL	6323	4,036	24.05

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2022 SAIDI Ranking	2021 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2022 SAIDI Value
2012	2710	EULES	8713	1,708	24.01
2013	1220	CRTLD	4724	3,195	23.87
2014	1095	IRVNG	1408	1,058	23.87
2015	1719	KILEN	1204	1,648	23.87
2016	2067	SPRDL	4822	1,242	23.85
2017	2821	ARMST	0003	363	23.83
2018	604	LIPAN	1301	573	23.82
2019	N/A	BUFLO	2602	5,123	23.74
2020	683	WITTS	1702	871	23.73
2021	1576	DALWT	2992	404	23.63
2022	2656	MKNSW	1602	900	23.60
2023	987	PRNTH	1406	983	23.60
2024	2527	WEAST	0629	1,633	23.60
2025	846	OVRTN	4019	674	23.59
2026	2153	RCLNS	1406	527	23.59
2027	2339	WNDCR	0232	953	23.59
2028	2390	CLYVL	9321	831	23.58
2029	2287	MESFR	2103	428	23.58
2030	1444	BNDRA	0007	491	23.55
2031	N/A	MTLDA	0005	1,779	23.54
2032	N/A	RNDER	2403	3,815	23.54
2033	924	ELKTN	2504	435	23.52
2034	1824	SHDYG	7822	532	23.47
2035	1516	RNDRK	1504	990	23.44
2036	3088	FRNKF	0008	774	23.38
2037	922	DESPR	1402	1,357	23.36
2038	1226	TATSP	4323	2,498	23.27
2039	1333	RDRSE	2603	2,842	23.26
2040	N/A	TYRSW	1704	1,360	23.25
2041	3006	KNEDL	6324	3,478	23.23
2042	552	LKHLD	0001	1,774	23.21
2043	1338	MESTE	1213	1,004	23.17
2044	3139	KIMBL	5011	193	23.12
2045	221	CHICW	1302	240	23.09
2046	866	GAVSW	0006	795	23.08
2047	1783	PRMED	4403	2,651	23.07
2048	1067	DNCNV	1906	413	23.06
2049	1155	MRTNS	1502	547	23.06
2050	49	PUMPR	6731	518	23.06
2051	1736	SHSTH	1301	2,330	23.04
2052	2320	LKMNT	0005	688	23.03
2053	1003	DESPR	1404	565	22.99
2054	3008	LOMAL	0003	1,058	22.99
2055	3146	MESTE	1201	25	22.97
2056	2081	MKNGB	5352	2,182	22.95
2057	101	FRFWS	3004	849	22.94
2058	1456	SALSW	3003	759	22.90
2059	2755	BRLSN	2062	815	22.89

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2060	676	KLNPS	1103	2,347	22.89
2061	1445	WRBND	2321	1,565	22.88
2062	N/A	RNDER	2401	231	22.86
2063	2395	EULES	8722	2,146	22.84
2064	559	RSNHT	1131	2,610	22.84
2065	2449	EDGCF	2282	1,057	22.83
2066	1453	CRLJL	1507	961	22.82
2067	2728	DAVIS	3752	505	22.80
2068	2138	WFALS	0193	2,227	22.78
2069	2513	TAYLR	1203	1,330	22.73
2070	2350	DUVAL	0462	1,106	22.71
2071	3089	STAGE	3811	4,788	22.64
2072	2391	WNTHW	1119	1,325	22.61
2073	792	LMBLN	0005	701	22.59
2074	1477	MESQW	1801	2,105	22.55
2075	1680	DAVST	0003	1,809	22.54
2076	1321	CDCSW	0004	1,442	22.52
2077	994	STERT	2701	40	22.50
2078	2737	PRKRW	3321	166	22.49
2079	1192	HORNE	1922	1,624	22.45
2080	2470	GDNVL	1202	68	22.40
2081	2573	IRVND	1208	172	22.38
2082	1852	ODNTH	2044	2,053	22.38
2083	2413	RBNSN	2503	1,082	22.38
2084	793	VLYRN	2955	4,762	22.38
2085	1330	BNBRK	4122	2,837	22.36
2086	2781	IRVNR	1507	1,606	22.33
2087	750	CLMET	0002	1,749	22.32
2088	1560	CRLUD	1303	908	22.31
2089	787	MESQN	1501	1,801	22.30
2090	700	RRSTH	1701	4,553	22.27
2091	2241	TMPLE	1203	127	22.27
2092	1708	CRNRD	0004	597	22.23
2093	1431	WALST	0005	246	22.23
2094	2926	BULDG	1108	864	22.20
2095	2260	SHRSW	6622	1,538	22.18
2096	2438	BLKST	1771	1,702	22.09
2097	1850	CRTLD	4721	3,057	22.09
2098	1198	BDFWD	8931	1,732	22.08
2099	2412	THRNE	0002	1,741	22.08
2100	2560	BRHLW	7622	1,092	22.04
2101	2298	IRVND	1205	212	22.04
2102	1932	DAVIS	3733	962	21.99
2103	2071	WDGWD	1522	1,452	21.99
2104	1132	ODESA	0242	127	21.98
2105	1484	RCHRD	1207	1,554	21.98
2106	2736	PAYNE	1213	1,582	21.95
2107	1368	WWDWY	2022	1,084	21.93

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2108	2770	CLBNR	1402	2,036	21.92
2109	2762	HMPHL	2781	388	21.89
2110	647	MCGRG	1902	1,360	21.85
2111	340	MNWLE	1702	1,510	21.71
2112	2666	FSTVW	0002	142	21.70
2113	2499	MEXIA	4040	871	21.68
2114	2618	WRIDG	3054	2,458	21.68
2115	1495	DENAV	0632	923	21.62
2116	2184	JUDCT	0008	159	21.61
2117	1741	MDLNW	1552	1,032	21.61
2118	1227	BLMND	3231	1,252	21.53
2119	529	BRCRK	6543	1,767	21.53
2120	2572	LKHLD	0003	1,353	21.53
2121	2844	MKNGB	5331	1,096	21.53
2122	1813	PROAD	0007	247	21.53
2123	1415	WELRD	0002	744	21.51
2124	1080	CRTLD	4742	915	21.46
2125	196	WXNTH	2308	2,083	21.46
2126	1492	BANGS	1201	1,597	21.44
2127	1623	NHNSW	0006	696	21.41
2128	2347	TYOMN	1402	1,597	21.41
2129	1399	HKHTS	1604	1,240	21.39
2130	66	GRSMN	3071	333	21.37
2131	1158	JACKR	7631	246	21.36
2132	2077	LOMAL	0016	658	21.33
2133	690	SHNRW	1612	933	21.32
2134	1340	PKRVL	1054	2,764	21.31
2135	2691	CRNRD	0002	373	21.30
2136	2918	IRVNE	1310	917	21.24
2137	1303	BLTLN	0001	721	21.23
2138	840	RGLRW	0003	93	21.22
2139	1531	CPRCV	1405	1,580	21.20
2140	435	STAUG	0003	1,618	21.20
2141	541	LOVNG	2511	31	21.19
2142	2258	RRSTH	1708	4,395	21.19
2143	2392	CNEXP	0006	1,383	21.17
2144	2582	DALRK	1303	1,370	21.14
2145	1219	DAVIS	3782	1,362	21.13
2146	1497	WHITE	3522	1,841	21.08
2147	2692	BSPRW	2542	565	21.04
2148	1862	BNTDR	0004	1,933	21.02
2149	416	WTAUG	4633	1,066	21.00
2150	2725	ENTOH	0001	867	20.96
2151	1317	SHMNE	1409	934	20.96
2152	407	MIDNT	3721	3,632	20.90
2153	1311	WDGWD	1591	1,133	20.89
2154	N/A	OILML	3621	652	20.86
2155	414	KLNPS	1102	1,960	20.85

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2156	832	DWSON	3121	28	20.78
2157	1690	WNRTH	1419	322	20.68
2158	1962	ODNTH	2053	2,187	20.61
2159	2694	PRKWY	1561	1,807	20.57
2160	1432	ENSSO	2003	638	20.56
2161	2302	WTAUG	4611	1,384	20.56
2162	1599	NSTAR	2011	545	20.51
2163	1582	WNDWD	3662	899	20.50
2164	662	PCUST	2008	693	20.43
2165	1979	RSNHT	1122	2,088	20.41
2166	1787	GODRD	8132	2,146	20.40
2167	1337	ROWLT	1107	520	20.37
2168	2234	PFFRD	3452	874	20.36
2169	2778	GODRD	8161	1,051	20.35
2170	1691	CRNDL	2403	1,058	20.32
2171	1974	SCHRD	0001	1,431	20.30
2172	678	IRVGS	1907	982	20.29
2173	161	VESTS	3111	11	20.26
2174	2057	CMPST	0001	421	20.19
2175	1823	LFKHL	2101	167	20.19
2176	2882	RDRSE	2601	3,778	20.17
2177	N/A	TYLER	1003	1,079	20.13
2178	2053	CTYVW	2221	1,857	20.11
2179	1614	ODNTH	2015	590	20.10
2180	146	RRNES	2401	2,592	20.07
2181	2363	DESHR	1206	2,334	20.04
2182	694	CRNTH	2406	1,973	19.97
2183	932	BKBNT	1821	1,134	19.95
2184	2661	ROLTR	2922	2,950	19.88
2185	2034	HORNE	1914	1,071	19.87
2186	1916	DAVIS	3772	1,723	19.86
2187	2837	MDESA	4521	1,473	19.85
2188	1130	WRTHM	5004	231	19.75
2189	N/A	PNKNY	1811	274	19.72
2190	967	BKWST	0002	1,732	19.71
2191	1285	MESFR	2101	2,036	19.70
2192	1753	WNDWD	3611	499	19.68
2193	2990	STNVL	1205	448	19.67
2194	1030	GLNHV	3922	736	19.66
2195	3025	WTAUG	4632	1,343	19.66
2196	1894	DALRK	1354	1,962	19.65
2197	1792	OAKHL	3052	798	19.63
2198	1545	CRTLD	4723	2,348	19.56
2199	2386	IRVNR	1510	704	19.56
2200	2896	TMSTH	1404	1,336	19.53
2201	2923	FROKS	0008	1,514	19.52
2202	438	LUFKN	1207	52	19.50
2203	610	OKCLS	0001	725	19.48

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2204	2026	ANDNR	2211	1,148	19.46
2205	617	BRGPR	1101	632	19.44
2206	2521	GVODS	3052	664	19.42
2207	3049	FRNKF	0006	1,720	19.38
2208	1721	ADISN	1605	1,323	19.36
2209	2663	MTLDA	0003	1,935	19.35
2210	2620	BRNSO	1808	724	19.30
2211	433	RWALS	1851	1,577	19.30
2212	2600	ROWLT	1104	1,486	19.26
2213	857	DNISN	1202	950	19.25
2214	1784	PKRMX	4703	3,276	19.19
2215	1698	SHMNE	1403	1,018	19.09
2216	3002	ARTHR	0411	741	19.02
2217	224	TYWST	2001	1,010	18.98
2218	1123	BNEST	3121	6,464	18.95
2219	393	RYSSW	2802	3,572	18.93
2220	1917	BLKST	1721	1,022	18.92
2221	806	SCYEN	0007	907	18.92
2222	2459	ALNSW	2652	3,677	18.91
2223	N/A	ELKTN	2505	901	18.88
2224	2550	HKBRY	1105	198	18.86
2225	531	WALST	0015	918	18.77
2226	1946	PRMED	4401	2,566	18.75
2227	2678	BRTRD	7322	1,353	18.74
2228	2405	PFFRD	3462	1,816	18.74
2229	3120	EXPKY	8122	57	18.71
2230	1851	GLNHV	3973	1,567	18.70
2231	2159	FATES	3003	2,230	18.67
2232	2774	ODESA	0231	576	18.67
2233	2025	MDTHS	1001	1,875	18.63
2234	2199	CRLTR	2051	3,907	18.57
2235	986	CRYVE	3021	1,332	18.55
2236	2674	SHDYG	7821	91	18.53
2237	3158	PAULN	2502	240	18.50
2238	1236	BONHM	1210	1,226	18.44
2239	2408	WEBBS	8611	2,704	18.40
2240	2569	GORMN	0421	350	18.37
2241	1827	AMMFG	5631	1,575	18.34
2242	2152	TYBLR	2803	801	18.33
2243	214	MKNNY	1252	1,245	18.31
2244	401	WBROK	3021	35	18.24
2245	3184	TMPSE	1501	649	18.21
2246	534	LKHLD	0008	1,457	18.20
2247	1818	FLINT	3212	3,803	18.18
2248	3093	ALKLK	4221	27	18.15
2249	746	KRGRV	2405	2,748	18.09
2250	2043	PRNTH	1403	21	18.09
2251	1138	VGCRK	8011	1,729	18.09

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2252	2003	WXNTH	2305	434	18.06
2253	1206	MRTSP	1501	733	18.04
2254	2785	RCHHL	0353	1,722	18.00
2255	191	CRLJL	1502	399	17.93
2256	1715	MDWCK	0003	1,866	17.92
2257	605	SSPNE	1404	74	17.90
2258	1646	BRNWD	1202	448	17.85
2259	2018	IRVNR	1552	82	17.84
2260	2416	MDLNW	1513	3,055	17.84
2261	78	SPRTN	1801	2,115	17.79
2262	2017	NHNSW	0004	552	17.78
2263	1063	ODESA	0212	575	17.76
2264	823	MDAIR	2912	1,174	17.75
2265	1732	CDHCR	2053	279	17.72
2266	178	WALST	0009	880	17.71
2267	2751	FROKS	0007	1,522	17.70
2268	1965	LOMAL	0006	1,404	17.70
2269	651	CNTRD	0001	2,061	17.69
2270	2669	RSPVY	1704	1,400	17.67
2271	780	KNLTR	0008	1,415	17.66
2272	1296	LFSTH	1402	1,199	17.65
2273	1023	SMPST	0001	2,079	17.63
2274	1940	DNIWS	1603	1,401	17.62
2275	1612	ELMGV	3653	2,309	17.62
2276	2688	DALRK	1326	2,797	17.57
2277	113	PLGRV	0003	618	17.57
2278	2581	WFALS	0174	1,203	17.57
2279	2219	DUVAL	0473	1,966	17.56
2280	1845	KLNCC	1701	2,375	17.56
2281	1800	LIGSW	1607	1,376	17.55
2282	966	BLTSW	3201	2,812	17.53
2283	772	EZACH	0007	1,599	17.53
2284	2792	SHMNE	1407	788	17.48
2285	1958	WCITY	2401	957	17.47
2286	487	PPARK	1805	990	17.45
2287	202	RGLRW	0005	50	17.43
2288	2872	BLTLN	0004	612	17.33
2289	2183	VGCRK	8021	217	17.33
2290	1637	CMNCH	1401	1,237	17.29
2291	2305	STANT	1332	1,217	17.27
2292	1601	RWALL	1204	1,105	17.24
2293	3117	EDGCF	2224	133	17.23
2294	1464	CMTSW	0927	619	17.21
2295	851	PSHIL	1608	2,174	17.21
2296	288	PSHIL	1601	1,183	17.18
2297	1448	BLKST	1781	1,954	17.15
2298	3075	COTRD	0008	1,179	17.15
2299	N/A	LOYLK	1903	471	17.12

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2300	2756	TRNTH	1504	848	17.11
2301	648	TRNDD	1202	572	17.10
2302	1073	STHRL	0001	620	17.09
2303	2555	ODNTH	2025	1,175	17.07
2304	812	MSLSW	0003	178	17.05
2305	2803	HMPHL	2721	1,067	17.03
2306	3000	HURST	1852	1,739	17.02
2307	2810	RSPVY	1702	539	16.96
2308	2358	NAVCO	0001	31	16.95
2309	1656	BDFRD	8841	813	16.89
2310	1308	BRNAV	0753	1,291	16.85
2311	3074	DEALY	0003	655	16.82
2312	2664	BDFWD	8911	940	16.79
2313	424	CMEXP	1601	286	16.76
2314	593	BRNSO	1806	2,336	16.75
2315	2763	FRMNT	0002	651	16.74
2316	775	HLSBR	1201	1,207	16.73
2317	1054	RDRSE	2604	4,917	16.73
2318	875	ARLNG	1223	1,943	16.69
2319	1796	BSPRG	1905	1,622	16.69
2320	1291	PFLGV	2005	4,481	16.67
2321	836	WELRD	0007	438	16.60
2322	2033	LOMAL	0010	1,506	16.56
2323	2280	CMPWI	0003	659	16.54
2324	40	NLNVL	2002	2,881	16.52
2325	2096	CHSPG	2401	1,826	16.48
2326	2731	DALRK	1307	627	16.48
2327	1857	KILEN	1203	793	16.46
2328	1500	MESQT	1305	1,151	16.46
2329	595	DCATR	1203	1,091	16.39
2330	1120	FRMNT	0009	933	16.37
2331	1945	SMPST	0006	847	16.36
2332	2039	SYCRK	4532	1,213	16.36
2333	2103	TRLSW	2401	23	16.30
2334	1319	ALNTH	2853	3,039	16.28
2335	3170	RGLRW	0006	31	16.26
2336	1068	TYEST	1506	525	16.26
2337	1465	SALDS	3321	678	16.25
2338	3052	PWEST	1306	710	16.23
2339	2354	MURPH	2751	2,368	16.22
2340	1918	PWEST	1312	2,007	16.15
2341	110	BLTON	1803	997	16.14
2342	1624	AYERS	4431	1,595	16.13
2343	2099	GLNHV	3911	95	16.13
2344	2224	SANSM	3922	1,620	16.10
2345	985	GNSVL	1223	1,286	16.03
2346	1299	COMRC	1201	1,005	16.02
2347	2421	RGFTW	6813	33	16.02

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2348	1518	RCHRD	1205	1,039	15.99
2349	2491	KNEDL	6314	2,142	15.93
2350	1148	MESTE	1205	1,642	15.91
2351	2035	IRLBJ	3211	2,684	15.89
2352	N/A	MNFLD	2613	3,154	15.89
2353	3011	GODRD	8141	842	15.84
2354	2274	MDESA	4531	1,824	15.82
2355	977	MDLNE	0131	3,005	15.79
2356	2617	STNVL	1207	1,169	15.74
2357	976	MESQW	1807	1,503	15.72
2358	1422	HURST	1882	1,931	15.70
2359	2171	WELCH	4911	23	15.70
2360	2156	SORCY	0003	846	15.69
2361	1126	MSHLN	0002	1,589	15.65
2362	1630	MTLDA	0004	1,832	15.63
2363	1247	CLBRN	1206	1,669	15.60
2364	1565	ABRRD	0005	1,538	15.55
2365	2460	GRLRD	0001	1,805	15.55
2366	1579	TLRWT	2201	2,143	15.55
2367	1663	MDTHN	1702	1,963	15.54
2368	261	BRCRK	6533	1,909	15.53
2369	858	CHROW	0004	259	15.50
2370	2505	MESTE	1206	1,287	15.48
2371	2038	EZACH	0002	1,414	15.47
2372	1730	BLKST	1711	2,071	15.45
2373	453	GMINI	5811	3,857	15.45
2374	2396	TMSTH	1403	1,590	15.39
2375	155	ELZCK	4922	19	15.38
2376	560	BRNWD	1201	1,717	15.35
2377	301	CRLTR	2002	1,457	15.30
2378	2473	GVODS	3072	2,292	15.30
2379	1830	ENNIS	1901	363	15.28
2380	727	BRNAV	0762	2,433	15.26
2381	2749	BSPRW	2521	582	15.26
2382	260	SFTLK	4021	31	15.23
2383	2859	REGST	0003	1,672	15.22
2384	2488	BNMNW	1101	207	15.20
2385	999	TYOMN	1411	303	15.15
2386	2423	RCHHL	0344	1,257	15.14
2387	692	KNLTR	0006	1,733	15.13
2388	2143	PFFRD	3411	324	15.13
2389	1184	VLYRN	2952	3,571	15.11
2390	2524	RENTL	2204	1,665	15.09
2391	2425	PCOIT	1002	733	15.02
2392	174	CMTSW	0983	1,380	14.95
2393	1864	SMFLD	2311	1,645	14.93
2394	1598	BOWEN	3142	1,268	14.90
2395	2963	CKRHL	0007	68	14.89

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2396	N/A	MMILL	3911	46	14.84
2397	632	SSPNG	1202	1,251	14.83
2398	2010	ALNTH	2844	1,908	14.81
2399	1400	RNDRK	1506	1,750	14.81
2400	1523	HUBRD	1401	980	14.74
2401	1170	WSTHL	3631	3,916	14.73
2402	N/A	GUNSO	9941	407	14.72
2403	2113	BRCRK	6511	1,562	14.71
2404	2295	ALPHA	0008	1,230	14.70
2405	711	TYLGE	1306	666	14.70
2406	24	JACKR	7611	1,616	14.67
2407	1738	WDGWD	1523	302	14.67
2408	95	ODNTH	2013	1,610	14.63
2409	2954	CNTRD	0004	1,083	14.54
2410	1481	MSTLT	1063	1,308	14.54
2411	1846	WEAST	0620	2,023	14.53
2412	2244	FRMNT	0013	2,466	14.51
2413	551	STAUG	0005	1,248	14.50
2414	2793	STNVL	1204	914	14.50
2415	512	CRLFR	2156	1,327	14.49
2416	1355	KLNCC	1703	1,808	14.46
2417	2928	CLLVL	0006	1,443	14.44
2418	79	SHAMP	0002	2,073	14.43
2419	2840	WTAUG	4641	577	14.43
2420	1669	MDLNW	1564	1,279	14.32
2421	868	BLTLN	0007	779	14.31
2422	2606	NPKWY	0012	2,244	14.23
2423	2079	PREST	1603	1,531	14.17
2424	686	BSPSW	0812	263	14.16
2425	1187	LKHLD	0006	741	14.16
2426	130	CLMET	0004	1,240	14.15
2427	1797	DENDR	0008	126	14.14
2428	1977	CMINO	1207	712	14.12
2429	250	LSCOL	2116	122	14.08
2430	2510	BOWEN	3161	1,559	14.07
2431	2813	ALLEN	2408	3,660	14.04
2432	2463	TMSTH	1406	1,166	14.00
2433	2852	MCDMT	2553	2,281	13.99
2434	2994	RGFTW	6822	31	13.97
2435	3152	MSTLT	1011	62	13.95
2436	2314	HHSTH	1503	2,351	13.93
2437	3144	MDAIR	2921	126	13.93
2438	2541	ROLTR	2912	2,437	13.91
2439	1504	ALPHA	0002	1,256	13.89
2440	138	BNMNW	1102	556	13.89
2441	2285	FARON	4082	995	13.83
2442	2134	MESFR	2104	181	13.83
2443	2533	WATSN	5331	1,127	13.83

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2444	1828	WXHNW	2903	949	13.83
2445	2492	BKWST	0005	944	13.82
2446	2013	WXNTH	2301	1,307	13.82
2447	2591	WXNTH	2302	1,768	13.82
2448	3096	BLMND	3272	16	13.80
2449	2226	ARLNG	1251	558	13.77
2450	1398	COTRD	0006	612	13.73
2451	399	WFALS	0133	1,695	13.73
2452	1118	WATSN	5382	1,743	13.70
2453	2795	CRLUD	1306	25	13.68
2454	603	CRNRD	0005	351	13.67
2455	576	ESTLD	3611	1,572	13.64
2456	3157	PARIS	1205	23	13.64
2457	97	SCHRD	0007	1,419	13.60
2458	243	MSTLT	1054	621	13.55
2459	1729	TRNTY	7551	1,591	13.49
2460	944	MSLSW	0002	1,076	13.48
2461	1869	PPARK	1808	596	13.45
2462	2787	HKBRY	1104	122	13.44
2463	2958	MNSTR	1202	286	13.44
2464	2914	RENSW	3122	1,643	13.41
2465	1542	HRSMD	1951	4,432	13.39
2466	2827	MTLDA	0002	1,885	13.39
2467	2200	EULES	8724	2,446	13.38
2468	1390	RVRFT	0002	339	13.37
2469	274	FSCRK	6712	2,802	13.35
2470	762	CRLTN	1404	278	13.34
2471	1463	BKBNT	1811	718	13.33
2472	1997	PCUST	2007	1,392	13.31
2473	2021	DALRK	1305	1,206	13.29
2474	2268	CRNSO	3913	1,879	13.27
2475	2633	TMPTV	2402	5,117	13.26
2476	1687	CKRHL	0005	1,232	13.25
2477	561	MCDMT	2554	2,447	13.25
2478	1293	MESQW	1802	1,086	13.24
2479	2161	MNWLL	1205	449	13.23
2480	1474	PROAD	0004	1,003	13.23
2481	2986	SCHRD	0003	386	13.23
2482	896	WATCO	2603	1,474	13.19
2483	2290	LMBLN	0003	187	13.14
2484	2172	MSHLN	0006	1,098	13.14
2485	473	BRNAV	0784	1,940	13.12
2486	N/A	CANTN	1304	826	13.10
2487	1989	DNINR	1401	83	13.08
2488	625	RCHHL	0363	972	13.06
2489	2851	PRMED	4402	869	13.02
2490	2604	KLRPR	9011	2,889	13.01
2491	1590	SHDYG	7841	346	12.98

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2492	355	REAST	1505	1,685	12.96
2493	388	LMESA	1561	1,397	12.89
2494	873	EXPKY	8121	17	12.79
2495	1440	SALDS	3311	627	12.79
2496	613	WTAUG	4621	943	12.78
2497	1609	CDHIL	1804	1,458	12.76
2498	1115	PALRD	2201	792	12.74
2499	421	TYLER	1004	181	12.73
2500	2697	MDWPK	9211	1,319	12.72
2501	2777	MESFR	2105	1,019	12.69
2502	375	TYWST	2002	518	12.66
2503	2142	DCDAM	2003	1,374	12.61
2504	2557	FROKS	0005	1,423	12.61
2505	1160	SHNRW	1609	1,868	12.61
2506	390	FSTVW	0008	380	12.59
2507	2309	GRSMN	4028	710	12.59
2508	2490	IRLBJ	3231	3,023	12.59
2509	87	LAVON	1453	2,268	12.59
2510	2330	SHRSW	6641	1,020	12.57
2511	1383	FSTVW	0007	1,582	12.52
2512	1725	SPRTN	1802	1,043	12.50
2513	1625	WSOTH	1018	1,086	12.44
2514	2008	PTENN	2352	2,475	12.42
2515	3004	MDLNW	1511	840	12.40
2516	2893	NNTWK	0006	955	12.38
2517	2520	MOSSW	4611	1,051	12.35
2518	2335	STNVL	1202	48	12.30
2519	631	STERT	2703	743	12.27
2520	1358	MAPLE	0002	1,290	12.26
2521	2109	WTAUG	4622	1,014	12.23
2522	878	PCOIT	1005	1,099	12.15
2523	1703	ANDNR	2231	1,133	12.14
2524	2693	FRSCW	3703	3,114	12.10
2525	2281	ADMDS	6542	1,234	12.09
2526	1346	HSKAV	0005	1,367	12.02
2527	734	BRCRK	6523	881	11.99
2528	2471	BDFRD	8812	757	11.93
2529	N/A	LKBRN	2401	755	11.93
2530	1922	LAVON	1401	1,741	11.92
2531	3055	LEMON	0002	985	11.91
2532	2817	PRSTN	0003	2,962	11.91
2533	756	MNWLW	1402	1,577	11.89
2534	706	GRVPT	7521	170	11.88
2535	2307	BOWIE	0621	10	11.87
2536	2451	WCOLO	1317	1,268	11.85
2537	1967	RWDHV	1904	511	11.81
2538	2506	DLEON	0131	744	11.79
2539	2265	EGFRD	0004	1,871	11.76

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2540	2930	BNDRA	0005	1,267	11.68
2541	344	BRYAN	0001	18	11.67
2542	1224	RENSW	3121	1,963	11.67
2543	982	FRMBG	1750	404	11.65
2544	1262	RSPVY	1701	1,332	11.64
2545	1049	ALLNC	6421	52	11.59
2546	926	RGFTW	6841	29	11.54
2547	1695	KLNTF	1802	835	11.53
2548	1356	COPEL	3052	2,610	11.51
2549	2453	MEXIA	3015	114	11.51
2550	524	CRTLD	4722	4,557	11.50
2551	1479	SANDS	1101	21	11.43
2552	2855	CRWLY	7012	4,377	11.41
2553	139	FORSW	2051	2,354	11.41
2554	904	WNDWD	3652	1,023	11.40
2555	2092	BRCRK	6521	1,437	11.36
2556	2602	RSNHT	1181	2,492	11.33
2557	2673	DALRK	1309	905	11.28
2558	426	CPRCV	1402	2,388	11.27
2559	2637	PTENN	2354	556	11.27
2560	2974	KNLTR	0001	2,205	11.26
2561	2782	MDLNW	1531	1,651	11.23
2562	2976	SMFLD	2323	614	11.18
2563	1798	THRNE	0005	1,336	11.18
2564	2119	OKLND	0003	1,515	11.16
2565	2995	GAVSW	0010	494	11.15
2566	1834	LIGSW	1603	2,525	11.14
2567	334	BMTWN	1621	1,432	11.10
2568	1785	PALRD	2207	1,266	11.09
2569	N/A	GUNSO	9912	24	11.05
2570	1038	WEBBS	8621	3,012	11.02
2571	1154	TRNTY	7541	696	11.00
2572	2272	PPARK	1802	598	10.98
2573	2901	BRYAN	0004	2,826	10.96
2574	2432	MESTE	1215	1,539	10.96
2575	1765	LMESA	1531	625	10.95
2576	2208	PAYNE	1203	880	10.94
2577	2798	RSPCK	2141	19	10.92
2578	3058	NNTWK	0002	1,133	10.87
2579	673	ARMST	0008	245	10.86
2580	215	DENDR	0006	38	10.86
2581	2847	PRSTN	0002	1,338	10.85
2582	2998	RNKSW	5412	33	10.83
2583	2760	SORCY	0004	597	10.81
2584	2648	FRMNT	0010	2,601	10.79
2585	789	RDLML	2521	1,013	10.77
2586	1099	TYBLR	2801	1,238	10.75
2587	925	JACKR	7612	1,259	10.73

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2588	3019	TYBLR	2806	202	10.73
2589	73	MSLSW	0006	86	10.70
2590	1802	PNTGO	7112	748	10.68
2591	571	KLNSO	4502	3,452	10.66
2592	611	WBOSE	1102	373	10.65
2593	710	FSTVW	0004	2,246	10.64
2594	1109	PWEST	1307	958	10.64
2595	3099	BRYAN	0008	12	10.63
2596	744	HORNE	1913	1,571	10.62
2597	1269	MURPH	2756	3,889	10.60
2598	2126	HMPHL	2772	329	10.59
2599	2401	IRVND	1206	114	10.56
2600	2296	MKNGB	5342	1,302	10.56
2601	707	FRMNT	0006	972	10.53
2602	539	PCUST	2002	798	10.46
2603	2595	BRYAN	0007	593	10.44
2604	1657	KLNSO	4501	2,955	10.41
2605	2455	PFLGV	2007	1,676	10.41
2606	2570	REAST	1504	1,319	10.38
2607	892	RSPCK	2106	370	10.36
2608	2667	WHTRK	0008	1,792	10.36
2609	2632	EDGCF	2221	888	10.33
2610	2248	CDHCR	2051	2,129	10.32
2611	2070	RWDHV	1906	642	10.32
2612	3086	BRHLW	7623	1,550	10.31
2613	2698	MCDMT	2531	2,453	10.29
2614	717	BARNW	4513	28	10.26
2615	157	KNAPP	4021	32	10.26
2616	1344	MKNGB	5322	2,487	10.26
2617	2537	BLTON	1801	849	10.22
2618	1103	CLCTY	1031	1,137	10.21
2619	1931	HKHTS	1608	1,339	10.18
2620	2444	OKCLS	0006	1,696	10.17
2621	3083	RCLNS	1402	880	10.10
2622	469	CPLSO	4311	96	10.09
2623	2149	RGLRW	0008	40	10.05
2624	538	CRLFR	2158	3,470	10.04
2625	525	CLNSE	4201	319	10.03
2626	1757	TYBLR	2802	1,023	10.01
2627	N/A	TRGLE	1107	73	9.98
2628	795	FSTVW	0003	1,908	9.89
2629	2104	LKBLT	2102	1,898	9.85
2630	219	TMNTH	1601	31	9.85
2631	2504	DESHR	1202	1,616	9.84
2632	1866	WXNTH	2304	933	9.84
2633	1955	ALLEN	2405	20	9.83
2634	2946	HMPHL	2723	54	9.77
2635	1177	FLMSO	3714	2,047	9.73

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2636	2006	WNTHW	1118	1,521	9.73
2637	1186	MCHSN	1201	250	9.67
2638	2982	MSTLT	1021	1,154	9.67
2639	1000	FRMBG	1701	99	9.66
2640	2373	PSHIL	1605	136	9.65
2641	2249	ARMST	0009	1,172	9.63
2642	1574	BDFWD	8912	1,010	9.63
2643	652	DALRK	1358	3,103	9.63
2644	2251	WTAUG	4642	1,332	9.63
2645	2771	WNRTH	1420	1,179	9.62
2646	1986	CRLTN	1402	1,069	9.59
2647	562	GRPTT	9911	1,184	9.59
2648	1829	ARTHR	0481	1,263	9.56
2649	2267	MESQT	1303	842	9.55
2650	2942	ROWLT	1103	1,090	9.52
2651	970	MDWCK	0004	1,744	9.48
2652	1485	WEBBS	8612	4,111	9.48
2653	2814	JUDCT	0006	2,563	9.43
2654	2743	SMFLD	2322	41	9.43
2655	829	LKMNT	0002	1,005	9.39
2656	3038	ABRRD	0008	2,423	9.37
2657	2880	LWSNR	2211	1,646	9.36
2658	2879	MDLNE	0121	735	9.36
2659	1	ELMAR	3212	37	9.32
2660	2544	RYSSW	2801	2,042	9.30
2661	687	CRLTN	1408	126	9.29
2662	1092	PALRD	2204	696	9.29
2663	2979	PLANO	1105	65	9.29
2664	2614	MCDMT	2552	724	9.28
2665	2773	PNTIS	0282	2,075	9.27
2666	2939	ELKTN	2503	1,116	9.20
2667	277	ELZCK	4911	41	9.20
2668	642	MAPLE	0001	1,056	9.18
2669	1364	TYOMN	1410	1,549	9.17
2670	2118	WELRD	0004	748	9.17
2671	2915	SHRSW	6612	1,945	9.15
2672	3180	SORCY	0002	66	9.14
2673	880	MRSDO	9611	3,506	9.10
2674	729	KMASB	1711	295	9.08
2675	1720	SHNRW	1611	1,005	9.06
2676	2440	BNDRA	0003	738	9.05
2677	2742	WSTHL	3621	1,367	9.01
2678	2022	FROKS	0006	989	8.90
2679	2952	PRKWY	1552	566	8.90
2680	2084	WDGWD	1561	1,490	8.90
2681	1225	LAVON	1406	1,561	8.88
2682	N/A	BRHLW	7613	1,145	8.85
2683	2357	CMNCH	1402	1,152	8.85

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2684	2404	DESPR	1408	1,955	8.81
2685	2494	IRVVV	2804	1,047	8.79
2686	1472	LKMNT	0001	203	8.79
2687	2117	PRKRW	3331	826	8.74
2688	1233	IRVHF	2303	90	8.67
2689	2848	WSOTH	1022	2,248	8.66
2690	1731	BDFRD	8811	1,693	8.65
2691	171	GLNHV	3983	1,737	8.52
2692	N/A	THORN	6822	441	8.52
2693	2132	LGVST	8522	1,459	8.51
2694	1782	BLMND	3213	3,636	8.49
2695	259	GRLWS	1704	183	8.49
2696	2024	BRHLW	7631	648	8.48
2697	514	FRMBG	1707	448	8.45
2698	2141	CLYVL	9323	1,432	8.40
2699	2861	ARLNG	1212	119	8.31
2700	2615	DAVST	0002	783	8.30
2701	2941	TMSTH	1407	262	8.29
2702	1017	WMRLD	0009	31	8.29
2703	2201	ELMGV	3651	2,585	8.27
2704	1640	SANSM	3923	4,584	8.27
2705	2874	DALWT	2972	256	8.24
2706	665	LOMAL	0004	142	8.24
2707	2898	FRMNT	0008	1,657	8.20
2708	2599	LOMAL	0014	581	8.16
2709	545	PRSTN	0006	769	8.15
2710	2538	TMPNW	1106	1,239	8.12
2711	654	WEBBS	8623	3,339	8.11
2712	3034	HURST	1841	1,381	8.09
2713	1287	CNEXP	0007	770	8.08
2714	2831	BEAST	4088	156	8.05
2715	1951	COMRC	1204	633	8.05
2716	1008	WRIDG	3055	2,259	8.05
2717	125	MCGHR	2003	1,314	7.95
2718	1848	FSTVW	0005	1,769	7.92
2719	2052	GNSVL	1204	512	7.92
2720	1037	ANASE	1901	1,244	7.89
2721	2644	BRNSO	1801	1,645	7.89
2722	183	ALLEN	2410	2,430	7.88
2723	1959	CRSCN	1205	767	7.87
2724	10	GATOR	6421	21	7.87
2725	1726	IRVVV	2851	2,987	7.87
2726	2806	MAYFD	5531	1,642	7.85
2727	1544	JNKNS	0004	332	7.84
2728	N/A	PRSPR	4701	1,708	7.81
2729	2987	ALLEN	2401	3,657	7.77
2730	816	MKNSO	3614	8,805	7.71
2731	1019	LAVON	1402	161	7.70

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2732	1858	DALWT	2941	310	7.60
2733	646	THORN	6811	136	7.59
2734	1230	TYLGE	1316	2,972	7.58
2735	2621	DUPUY	1222	198	7.56
2736	295	WALNT	0004	1,470	7.56
2737	917	SHAMP	0006	1,137	7.54
2738	2279	AIRPK	8432	966	7.53
2739	2554	HMPHL	2752	422	7.53
2740	748	MDLNE	0132	122	7.52
2741	1660	VESTS	3121	25	7.52
2742	2718	RSPCK	2104	2,639	7.50
2743	N/A	GUNSO	9932	881	7.49
2744	1486	TYLNE	1624	213	7.49
2745	2167	EZACH	0003	1,282	7.48
2746	2867	LKMNT	0004	2,210	7.46
2747	2772	RRNES	2407	3,859	7.44
2748	2338	LGVST	8511	780	7.42
2749	505	WFALS	0143	200	7.41
2750	2154	MDDTN	4321	1,140	7.39
2751	1900	ROUGH	7422	21	7.38
2752	936	MESTE	1207	947	7.37
2753	3039	CLLVL	0004	51	7.36
2754	2601	KLELM	2202	1,398	7.36
2755	1856	MLDR2	1601	423	7.31
2756	2830	CMHBL	8121	59	7.30
2757	325	ALDTU	9411	1,041	7.26
2758	408	PCOIT	1025	3,245	7.20
2759	2089	BLMND	3262	141	7.18
2760	383	TERSO	2503	1,511	7.18
2761	1436	TXHRV	1611	17	7.17
2762	739	ALPHA	0014	1,002	7.11
2763	1568	LIGSW	1608	389	7.11
2764	1139	THRNE	0008	2,240	7.09
2765	2508	SALSW	3004	1,578	7.08
2766	2864	ALNTH	2851	2,528	7.05
2767	230	RCLNS	1401	103	7.05
2768	2895	WXHCH	1205	649	7.05
2769	2977	PRKRW	3382	293	7.01
2770	1762	CRSCN	1202	637	6.99
2771	2001	MSHLN	0001	1,069	6.99
2772	2115	MESTE	1209	1,445	6.95
2773	1926	WNRTH	1418	1,800	6.89
2774	1075	PRKRW	3352	1,569	6.86
2775	2758	PEGAS	2311	68	6.85
2776	2826	HORNE	1912	1,806	6.84
2777	2112	BKBNT	1842	596	6.81
2778	2503	DFWSE	2712	49	6.79
2779	1935	DALLW	0004	1,444	6.77

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2780	2734	IRVNE	1305	244	6.74
2781	1042	PARIS	1203	955	6.70
2782	847	WGROB	8421	5,039	6.68
2783	2558	GAVSW	0004	851	6.63
2784	N/A	KLNSO	4522	2,022	6.63
2785	3042	LFSTH	1405	207	6.62
2786	1878	WSANG	2801	1,338	6.57
2787	318	DALWT	2921	321	6.56
2788	1596	PROAD	0003	1,112	6.53
2789	281	MESQN	1507	708	6.51
2790	1549	PFFRD	3492	285	6.49
2791	2475	EULSO	9141	92	6.46
2792	1814	LAVON	1452	2,172	6.45
2793	818	PTENN	2353	968	6.42
2794	1218	WATSN	5361	2,645	6.37
2795	2162	CMTSW	0916	575	6.34
2796	1892	CRKSD	3103	942	6.34
2797	2815	KERNS	2402	397	6.32
2798	2988	DUPUY	1220	209	6.30
2799	2812	BLKST	1732	1,735	6.29
2800	2832	VENSW	2603	1,007	6.27
2801	N/A	GUNSO	9921	720	6.22
2802	335	LOMAL	0015	169	6.22
2803	653	ABRRD	0004	880	6.19
2804	2575	BSPRG	1901	689	6.16
2805	1580	BDFRD	8832	1,012	6.13
2806	2294	SHSTH	1305	559	6.12
2807	2996	MORHD	4105	950	6.11
2808	2818	ARMST	0002	2,042	6.10
2809	811	CLBWS	8111	1,614	6.01
2810	2825	DAVIS	3713	981	5.94
2811	2993	CURIE	7231	1,061	5.91
2812	703	EGFRD	0001	1,815	5.89
2813	1790	MDLNW	1573	1,046	5.86
2814	752	RDRSE	2602	6,507	5.86
2815	3159	PBELL	4841	1,711	5.84
2816	979	LAVON	1454	3,179	5.83
2817	1029	PLGRV	0004	794	5.82
2818	2997	FRNKF	0003	1,141	5.77
2819	3087	INAIR	1414	2,625	5.77
2820	2712	BLUEA	2104	17	5.74
2821	2713	MESQW	1806	742	5.74
2822	598	WILLO	7821	17	5.74
2823	N/A	CYOTE	2154	250	5.73
2824	2841	GRAHM	0713	381	5.68
2825	3021	DAVIS	3762	52	5.65
2826	420	TNPON	0001	69	5.64
2827	2816	MDLNE	0151	317	5.63

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2828	1257	WEAST	0616	842	5.59
2829	1079	CHROW	0003	153	5.58
2830	1074	BAKKE	6922	1,727	5.53
2831	3186	WMMMR	2704	19	5.53
2832	478	BRHLW	7612	714	5.51
2833	990	WNDWD	3672	241	5.51
2834	2858	CLBNR	1401	23	5.50
2835	1348	PJPTR	3221	46	5.48
2836	2250	ABRRD	0003	354	5.47
2837	1325	JNDAY	3321	4,739	5.43
2838	1791	RCLNS	1404	721	5.43
2839	3178	SLTLK	3511	19	5.42
2840	914	TYWST	2004	1,022	5.41
2841	N/A	KNEDL	6362	2,940	5.40
2842	2845	SHDYG	7831	101	5.40
2843	2920	HKBRY	1117	145	5.35
2844	814	MKNSO	3612	1,956	5.35
2845	1272	PJPTR	3211	130	5.35
2846	2953	NPKWY	0011	4,163	5.32
2847	3060	CNEXP	0005	463	5.31
2848	2400	COLNY	2406	844	5.27
2849	548	WRBND	2322	933	5.26
2850	923	ENTOH	0006	1,955	5.25
2851	2900	ARMST	0011	781	5.23
2852	2565	BRNSO	1805	790	5.21
2853	1339	DPCRK	1842	1,369	5.20
2854	2197	ODESA	0221	759	5.16
2855	758	SHDYG	7812	130	5.15
2856	837	WRIDG	3056	812	5.15
2857	2328	ALPHA	0001	713	5.13
2858	2833	ABBOT	1902	122	5.11
2859	116	STHRL	0007	295	5.11
2860	1129	LKHLD	0007	1,334	5.04
2861	1011	PFLGV	2002	2,409	5.02
2862	2894	WFALS	0114	415	5.02
2863	2780	RSPCK	2107	913	5.01
2864	799	IRVBL	2502	184	4.94
2865	2116	PROAD	0002	866	4.94
2866	2326	TMPNW	1102	685	4.93
2867	984	VLYRN	2959	1,178	4.92
2868	869	WOVER	6111	1,450	4.91
2869	3162	PLHWY	3701	498	4.89
2870	614	ARTHR	0452	635	4.84
2871	1131	WEBBS	8633	2,836	4.82
2872	815	CRLUD	1302	165	4.79
2873	2458	SMPST	0005	428	4.78
2874	2799	CNEXP	0008	287	4.75
2875	2932	ROBNW	1505	1,054	4.74

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2876	1305	BLMGR	1901	277	4.65
2877	N/A	MNFLD	2623	2,330	4.64
2878	3175	RVRFT	0001	28	4.63
2879	773	EMPCT	0005	71	4.61
2880	1384	CRLCC	2704	544	4.60
2881	2507	KNLTR	0005	2,393	4.57
2882	523	WBROK	3011	184	4.57
2883	2862	BRYAN	0005	1,897	4.56
2884	3024	HUTTO	2723	3,846	4.56
2885	413	IRVVV	2802	1,066	4.55
2886	N/A	BUFLO	2604	58	4.53
2887	2716	EMPCT	0002	106	4.47
2888	3108	DFWNW	2403	23	4.46
2889	2064	FROKS	0001	1,366	4.46
2890	2849	PLANO	1106	560	4.37
2891	2129	MEANS	4411	37	4.36
2892	2822	EXPKY	8112	18	4.34
2893	2375	ELKTN	2501	867	4.33
2894	2722	BLMED	1618	26	4.30
2895	286	MRTNS	1503	393	4.28
2896	2699	KLELM	2201	2,517	4.27
2897	3169	REAST	1509	144	4.27
2898	1893	MTLDA	0007	2,489	4.26
2899	316	MCDMT	2542	471	4.24
2900	2809	SMFLD	2372	641	4.24
2901	N/A	TYLER	1007	112	4.21
2902	1116	HMPHL	2762	1,357	4.17
2903	158	HOWRD	3921	25	4.17
2904	1354	SHNRW	1607	603	4.16
2905	819	RECCR	0006	468	4.10
2906	2747	VGCRK	8031	1,802	4.09
2907	2949	WFALS	0163	349	4.09
2908	2753	CURIE	7221	919	4.07
2909	2102	MESTE	1203	184	4.02
2910	1237	GSTHW	1646	1,175	4.00
2911	1455	ALPHA	0006	293	3.98
2912	2564	CDHIL	1614	1,323	3.98
2913	865	MDWPK	9221	964	3.91
2914	2322	MESQN	1508	1,742	3.87
2915	2332	NHNSW	0008	595	3.84
2916	2800	GRLTC	3801	929	3.83
2917	3071	IRVRS	4411	980	3.80
2918	2891	ABRRD	0006	474	3.77
2919	2951	GSTHW	1616	153	3.75
2920	2486	WMRNR	0002	429	3.75
2921	3070	WRTHM	5017	161	3.75
2922	3080	EULES	8714	978	3.70
2923	1558	ABRRD	0001	2,394	3.66

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2924	126	CRSGL	1303	115	3.65
2925	2765	ENTOH	0004	1,288	3.65
2926	1050	ARTHR	0492	54	3.59
2927	2906	BNDRA	0001	870	3.57
2928	784	EDGCF	2252	389	3.57
2929	2625	FRNKF	0001	968	3.53
2930	2243	CURIE	7222	1,032	3.51
2931	2902	GRHWY	5521	2,243	3.49
2932	2917	DUPUY	1217	102	3.48
2933	2978	HKBRY	1109	551	3.42
2934	2567	FHLSW	1382	121	3.40
2935	3141	LTMAN	1511	66	3.40
2936	1897	ROBNW	1501	400	3.40
2937	2061	DALLW	0002	67	3.39
2938	86	INAIR	1432	2,513	3.38
2939	1304	MTLDA	0006	2,589	3.32
2940	2289	LWSNR	2241	1,093	3.31
2941	645	GAVSW	0011	210	3.29
2942	855	WHTRK	0003	1,280	3.29
2943	2393	PRKWY	1542	543	3.27
2944	2086	FRMNT	0001	865	3.23
2945	1674	NPKWY	0009	1,297	3.23
2946	1566	COPEL	3054	1,314	3.19
2947	3014	HMPHL	2791	26	3.17
2948	2215	MDLNW	1582	1,540	3.11
2949	2846	ROLTR	2911	1,818	3.10
2950	1559	SHDYG	7811	404	3.07
2951	1938	PRKRW	3341	293	3.03
2952	N/A	PEGAS	2322	33	3.01
2953	N/A	LKCRS	4222	2,070	3.00
2954	2957	MSHLN	0004	1,304	3.00
2955	2947	EULSO	9121	106	2.98
2956	2014	LOMAL	0002	524	2.96
2957	2839	BLMGR	1902	187	2.94
2958	1820	DAVIS	3723	344	2.93
2959	1605	EZACH	0006	1,359	2.89
2960	3046	NHNSW	0002	410	2.87
2961	864	KLNCC	1704	341	2.86
2962	2811	PALRD	2208	1,014	2.83
2963	2967	FSCRK	6714	2,231	2.82
2964	2231	FRSCW	3701	2,221	2.81
2965	1213	ARMST	0007	126	2.80
2966	2715	ARLNG	1241	625	2.72
2967	1953	RWALL	1201	1,485	2.70
2968	2532	FRMNT	0004	2,044	2.66
2969	2255	PNTIS	0211	328	2.63
2970	1799	NHNSW	0003	736	2.61
2971	1468	PNTIS	0272	854	2.60

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2972	2379	RSPCK	2132	76	2.60
2973	3104	CRLFR	2153	471	2.59
2974	1045	BLTLN	0006	923	2.53
2975	3176	SACRC	5521	119	2.48
2976	2344	CRTLD	4734	821	2.47
2977	2137	ACRLY	1711	171	2.46
2978	494	CURIE	7211	849	2.44
2979	2489	SORCY	0001	2,780	2.40
2980	2890	DENAV	0612	60	2.38
2981	2276	HUTTO	2713	3,025	2.36
2982	3027	SCHRD	0002	292	2.36
2983	2534	SANSM	3913	2,043	2.34
2984	486	CMPST	0004	1,774	2.32
2985	N/A	TRGLE	1109	191	2.32
2986	N/A	MDDTN	4332	218	2.30
2987	3054	WHITE	3541	950	2.27
2988	2327	NHNSW	0005	488	2.26
2989	2452	EXPKY	8142	29	2.22
2990	2819	BLMED	1619	610	2.21
2991	1006	RVRFT	0003	1,273	2.21
2992	778	CLLVL	0001	531	2.19
2993	2029	IRVBL	2501	381	2.18
2994	222	JREST	2103	2,815	2.14
2995	2776	SCHRD	0004	1,872	2.13
2996	2960	BLTON	1804	475	2.12
2997	1268	MSHLN	0005	496	2.12
2998	3031	DCATR	1205	119	2.08
2999	2403	MSTLT	1032	18	2.08
3000	2985	CNEXP	0001	269	2.06
3001	2857	LKWOD	7421	44	2.05
3002	2889	ALNTH	2842	2,716	2.01
3003	2686	AMLIA	0008	139	1.96
3004	2476	LOVNG	2521	18	1.92
3005	N/A	RKCRK	6122	3,578	1.92
3006	3143	LVBRD	0001	40	1.88
3007	3187	WMMMR	2706	32	1.88
3008	N/A	CTRLA	1924	97	1.86
3009	2041	BNDRA	0002	447	1.85
3010	841	LSCOL	2140	1,384	1.85
3011	3053	WEBBS	8634	1,644	1.82
3012	3062	DALWT	2952	658	1.80
3013	3122	EXPKY	8141	34	1.80
3014	3148	MKNNY	1204	38	1.78
3015	3137	JNKNS	0001	249	1.72
3016	273	MCGHR	2004	31	1.69
3017	N/A	WXHCH	1208	277	1.69
3018	3022	ALPHA	0005	123	1.65
3019	2631	ODESW	5211	2,239	1.64

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3020	2169	NPKWY	0008	860	1.63
3021	3057	JNKNS	0006	696	1.61
3022	1016	CMTSW	0966	130	1.59
3023	1875	FRMBG	1753	702	1.56
3024	3048	HKBRY	1101	746	1.55
3025	2909	DUPUY	1216	265	1.54
3026	3056	PROAD	0009	141	1.50
3027	2723	KRUMS	1201	533	1.49
3028	2989	WALNT	0008	875	1.44
3029	2531	PWEST	1308	859	1.43
3030	2587	GAVSW	0008	86	1.40
3031	374	CRLTN	1451	146	1.39
3032	2684	PLSTH	1303	573	1.38
3033	2790	WEAST	0619	1,162	1.37
3034	366	SHAMP	0005	2,014	1.36
3035	N/A	EDGCF	2214	408	1.34
3036	3051	FLMSO	3711	2,544	1.34
3037	874	BNDRA	0013	387	1.29
3038	475	JKSES	3028	324	1.29
3039	3012	ALPHA	0004	60	1.25
3040	941	ATNRN	3432	3,581	1.24
3041	2436	GSTHW	1613	52	1.24
3042	N/A	GDPRW	9631	125	1.23
3043	2766	SHMNE	1405	850	1.23
3044	2522	SANSM	3911	2,071	1.22
3045	2671	FRNKF	0007	1,883	1.20
3046	3043	ARMST	0012	1,777	1.19
3047	3115	DNINR	1402	393	1.19
3048	3132	GVODS	3021	2,050	1.18
3049	2970	HORNE	1932	2,439	1.15
3050	764	PTENN	2355	179	1.14
3051	427	PPARK	1804	350	1.12
3052	554	BARRY	1801	94	1.07
3053	3179	SMFLD	2362	63	1.07
3054	2910	TMNTH	1604	493	1.06
3055	2540	DGNST	0002	465	1.02
3056	2807	MSTLT	1042	875	1.02
3057	N/A	DWIND	2201	75	0.99
3058	3084	ENTOH	0008	266	0.96
3059	1335	VANAL	1201	657	0.94
3060	3	CHICC	1701	55	0.88
3061	1995	RCHHL	0394	234	0.88
3062	2313	ABBOT	1901	112	0.87
3063	754	FRMNT	0011	1,168	0.87
3064	2824	HMPHL	2792	676	0.85
3065	2761	REGST	0004	953	0.85
3066	3124	FRMBG	1708	45	0.83
3067	3127	GAMMA	2201	72	0.83

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3068	3173	RSNHT	1111	350	0.81
3069	1903	BLMND	3221	111	0.80
3070	2981	FRMNT	0014	788	0.80
3071	3001	LOMAL	0005	405	0.78
3072	2247	BUFLO	2603	1,298	0.77
3073	950	GAVSW	0003	50	0.76
3074	2905	KLNTF	1803	1,052	0.76
3075	2927	MSTLT	1073	172	0.74
3076	N/A	MMILL	3912	94	0.72
3077	2368	PFLGV	2003	4,060	0.69
3078	3166	PSHIL	1613	566	0.69
3079	431	ATNRN	3411	3,035	0.68
3080	1369	JNKNS	0008	839	0.68
3081	900	PCOMM	3311	44	0.68
3082	2650	ENNIS	1905	56	0.67
3083	N/A	REGST	0010	126	0.67
3084	N/A	LKCRS	4212	1,879	0.65
3085	1379	PAYNE	1223	133	0.62
3086	2971	CURIE	7241	798	0.61
3087	2944	TRLSW	1202	64	0.57
3088	2784	PROAD	0005	124	0.56
3089	2829	HRSMD	1953	1,181	0.51
3090	2422	RRSTH	1702	1,791	0.51
3091	1634	MYPRL	1801	192	0.49
3092	3065	PCOIT	1023	411	0.48
3093	3161	PLANO	1108	483	0.48
3094	350	ATNRN	3412	4,211	0.47
3095	2195	CHROW	0008	36	0.42
3096	2804	LEMON	0004	792	0.41
3097	2419	TMPNW	1103	1,114	0.40
3098	2437	GAVSW	0012	829	0.39
3099	2805	KLELM	2204	442	0.39
3100	267	MDLNE	0161	218	0.37
3101	3041	DGNST	0007	526	0.36
3102	3145	MESQN	1506	78	0.36
3103	2623	DGNST	0005	515	0.34
3104	290	FRMNT	0003	1,147	0.34
3105	2808	FROKS	0004	115	0.34
3106	2514	HMPHL	2711	1,166	0.34
3107	3028	KNLTR	0009	861	0.34
3108	1374	PRSTN	0005	1,077	0.34
3109	1128	CHYNE	9111	17	0.33
3110	3078	WMRNR	0003	931	0.33
3111	1255	RSPCK	2105	1,075	0.32
3112	1854	PRCRK	0002	2,503	0.31
3113	2689	WALNT	0002	1,246	0.31
3114	2948	COMRC	1202	50	0.30
3115	2828	JNKNS	0005	669	0.29

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3116	2888	ARMST	0004	1,205	0.28
3117	2590	SYCRK	4531	3,654	0.28
3118	3069	NNTWK	0008	1,902	0.26
3119	776	RGLRW	0002	215	0.26
3120	3007	CRLTR	2054	111	0.25
3121	N/A	APPLE	2521	463	0.24
3122	2935	FRMBR	1853	66	0.23
3123	2685	CPLSO	4321	188	0.22
3124	3061	LSCOL	2148	1,866	0.22
3125	2984	WEAST	0628	267	0.22
3126	2938	WMRNR	0004	373	0.21
3127	2937	HMPHL	2713	777	0.20
3128	1150	LSCOL	2135	719	0.20
3129	2477	DFWSE	2710	107	0.18
3130	N/A	LOYLK	1901	724	0.17
3131	1499	MCDMT	2551	3,214	0.17
3132	1841	PJPTR	3212	48	0.17
3133	3076	LSCOL	2137	808	0.12
3134	2098	KNLTR	0004	1,373	0.10
3135	1035	MABNK	2403	168	0.10
3136	2042	SHDYG	7832	793	0.10
3137	2366	PTENN	2357	1,214	0.08
3138	352	COTRD	0003	112	0.07
3139	1776	ATNRN	3431	2,093	0.06
3140	2596	DESHR	1208	462	0.06
3141	2435	RDRSE	2605	1,015	0.06
3142	2921	WMMMR	2705	1,235	0.06
3143	2496	GRPVN	8211	147	0.05
3144	3172	ROLTR	2913	1,989	0.04
3145	2353	INWRD	0002	1,193	0.03
3146	3114	DGNST	0003	1,424	0.02
3147	1052	LEMON	0008	1,005	0.02
3148	3094	ALPHA	0012	10	0.00
3149	2730	AMLIA	0003	27	0.00
3150	398	AMLIA	0005	18	0.00
3151	N/A	APPLE	2511	97	0.00
3152	3095	ARLNG	1291	87	0.00
3153	2706	BKWST	0001	390	0.00
3154	3067	BKWST	0006	146	0.00
3155	N/A	BLAIN	3511	42	0.00
3156	2665	BLMND	3211	16	0.00
3157	N/A	BNMAG	1201	249	0.00
3158	3098	BRNSO	1804	14	0.00
3159	3030	BRYAN	0002	219	0.00
3160	77	CMPST	0002	1,733	0.00
3161	54	COTRD	0005	231	0.00
3162	3103	COTRD	0007	177	0.00
3163	3105	CRLTR	2006	54	0.00

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2022 SAIDI Ranking	2021 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2022 SAIDI Value
3164	2131	DENAV	0641	38	0.00
3165	1001	DENDR	0009	66	0.00
3166	3107	DFWNW	2402	11	0.00
3167	3109	DFWNW	2408	30	0.00
3168	3110	DFWSE	2713	18	0.00
3169	3111	DFWSE	2715	10	0.00
3170	2638	DFWSW	2322	32	0.00
3171	3066	DFWSW	2323	42	0.00
3172	3112	DFWSW	2325	14	0.00
3173	3029	DGNST	0006	447	0.00
3174	871	DUPUY	1218	38	0.00
3175	3116	DUPUY	1221	32	0.00
3176	N/A	DUVAL	7711	1,071	0.00
3177	N/A	DUVAL	7712	1,661	0.00
3178	1324	ECTHM	3312	19	0.00
3179	3118	ENSSE	3011	12	0.00
3180	3119	EXPKY	8111	11	0.00
3181	3121	EXPKY	8131	17	0.00
3182	N/A	FLRTN	3711	55	0.00
3183	N/A	FLRTN	3721	124	0.00
3184	3123	FORSN	5611	10	0.00
3185	701	FRMBG	1704	30	0.00
3186	2955	FRMNT	0012	543	0.00
3187	3126	FRMNT	0015	234	0.00
3188	N/A	GODRD	8171	839	0.00
3189	3128	GRLTC	3805	11	0.00
3190	2015	GSTHW	1615	34	0.00
3191	3130	GSTHW	1625	47	0.00
3192	3131	GSTHW	1634	15	0.00
3193	N/A	GSTHW	1635	18	0.00
3194	2727	GSTHW	1636	38	0.00
3195	3133	HORNE	1944	712	0.00
3196	N/A	IRVNE	1311	1,428	0.00
3197	3135	IRVVV	2854	17	0.00
3198	N/A	JDKNS	0812	35	0.00
3199	3138	JNKNS	0002	640	0.00
3200	N/A	KNEDL	6322	3,964	0.00
3201	2945	KNLTR	0007	13	0.00
3202	N/A	LKCRS	4232	229	0.00
3203	2500	LMBLN	0008	121	0.00
3204	92	LMESA	2833	22	0.00
3205	3020	MAPLE	0008	215	0.00
3206	2551	MDDTN	4322	18	0.00
3207	N/A	MDLNW	1544	1,295	0.00
3208	N/A	MSTNG	2921	53	0.00
3209	3153	NCRST	2202	34	0.00
3210	2609	NCSTH	1504	66	0.00
3211	128	NOLNW	2111	23	0.00

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2022 SAIDI Ranking	2021 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2022 SAIDI Value
3212	3155	NPKWY	0007	159	0.00
3213	N/A	OILML	3612	15	0.00
3214	1405	PJPTR	3222	190	0.00
3215	3160	PJPTR	3231	28	0.00
3216	3163	PNTIS	0231	15	0.00
3217	688	PRCRK	0001	73	0.00
3218	2850	PRCRK	0004	1,146	0.00
3219	3164	PROAD	0001	125	0.00
3220	2961	PROAD	0006	137	0.00
3221	3090	PWEST	1310	1,138	0.00
3222	N/A	RENTL	2201	34	0.00
3223	1543	RGLRW	0001	42	0.00
3224	2992	ROANW	9522	82	0.00
3225	2114	RRWES	1603	11	0.00
3226	N/A	SBANA	2011	202	0.00
3227	N/A	SBANA	2021	259	0.00
3228	2207	SFTLK	4011	36	0.00
3229	3177	SHSTH	1302	22	0.00
3230	N/A	SIKES	2432	2,003	0.00
3231	N/A	SMCRK	2611	361	0.00
3232	3059	SMPST	0008	456	0.00
3233	2748	STERT	2704	15	0.00
3234	3182	STERT	2705	13	0.00
3235	3185	VLYRN	2958	347	0.00
3236	2273	WALST	0007	27	0.00
3237	2965	WITTS	1704	27	0.00
3238	N/A	WXOCF	1402	13	0.00

2021's customer count was used due to feeder reconfiguration:

BLISS9411
BLISS9421
FHLSW1332
HUDSN1603
IRVHF2305
KLBRG0003
MCGHR2003
MDLNW1521
MDLNW1532
MNFLD2672
ODESW5922
RKCRK6111

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Oncor Electric Delivery

INTERRUPTION CAUSES

Provide the percentage of interruptions attributable to each cause.

2022 Reporting Year

Causes of Forced Interruptions	Percentage
Utility-Owned Equipment	44%
Animals and Birds	17%
Vegetation	14%
Unknown	8%
Weather (Including Lightning)	7%
Other	5%
People (Including Cars and Farm Equipment)	4%

ADDENDUM OF ONCOR ELECTRIC DELIVERY COMPANY TO ITS SERVICE QUALITY REPORT FOR THE 2022 REPORTING YEAR

The Public Utility Commission of Texas (Commission), in Ordering Paragraph No. 5 in its April 18, 2019 Order in Docket No. 48841, *Agreed Notice of Violation and Settlement Agreement Relating to Oncor Electric Delivery Company's Violation of PURA § 38.005 and 16 TAC 25.52, Concerning Reliability and Continuity of Service, requires* Oncor Electric Delivery Company LLC (Oncor) to "file a report regarding actions to bring feeders that are found to be in violation of any of its system-wide service quality standards for two or more consecutive years into compliance with the Commission's service quality standards, and this report must be filed as an addendum to Oncor's required annual service quality reports, as prescribed by 16 TAC § 25.81." This Addendum is filed to comply with that requirement.

Oncor would stress that its capital and maintenance projects remain dynamic over the course of a calendar year in order to appropriately respond to developing issues. The projects set out below that are designated as "planned" or scheduled" are subject to change and may not take place in the stated year due to changes in customer loading on the feeder, the impact of storms and storm repairs locally and across the Oncor system, load growth elsewhere on the Oncor system, equipment repairs/replacement elsewhere on the Oncor system, and other factors.

Included in the information provided for each violation feeder is a summary table grouped by project category for the work done for years 2020 through 2022. The type of projects included in each category are shown in the table below with a brief description.

Project Category	Description of projects included
Planned Feeder Maintenance	Includes planned feeder maintenance activities to improve reliability such as pole inspection and treatment, pole restoration and replacement, and the patroling and identifcation of deteriorated facilities in need of repair and/or replacement
Planned Vegetation Management	Includes planned vegetation management activities to improve reliability such as right-of-way tree trim, hazard tree mitigation (addresses dead or dying trees adjacent to the right-of-way), and herbicide application (mitigation of vegetation growth in the right-of-way)
Planned Distribution Automation	Includes planned automation activites to improve reliability such as recloser upgrades to enahnce remote operablilty, installation of reclosing fuses to replace single-operation fuses, and automated feeder switches for automatic isolation of impacted areas on a feeder to minimize customer outages
Planned Distribution System Improvement	Includes feeder capacity improvement activities with positive reliability impact such as upgrading poles, wires, and other facilities, and establishing new feeders to enable backstand
Planned Substation System Improvement	Includes substation capacity improvement activities with positive reliability impact such as substation transfomer upgrades and establishing new substations to enable backstand to feeders on the existing substations
Reactive Feeder Maintenance	Includes reactive maintenance activities with reliability impact such as replacement of deteriorated and/or damaged facilitiles indentified during an outage or other activity
Reactive Vegetation Management	Includes reactive vegetation management activities with reliability impact such as tree trimming and hazard tree mitigation identified during an outage or other activity

Explanation of "SCADA" and "Automated Feeder Ties" as used in the Addendum:

The acronym "SCADA" mentioned in this Addendum stands for Supervisory Control and Data Acquisition. This references equipment on our system that is equipped with the technology that allows for the remote monitoring and control of devices on the distribution and transmission systems. Equipment with this capability is designed to provide real time monitoring and control to improve system and feeder reliability. This technology has been in use for many years on the transmission system for most electric utilities, but has had a more recent implementation on the distribution system. Oncor Electric Delivery has been installing more equipment that is equipped with SCADA over the past few years and plans to continue to do so in the years ahead.

Another frequently mentioned term in this Addendum is "automated feeder ties". This term refers to the use of smart switches that are installed on at least two adjacent feeders and are equipped with the technology that allow them to monitor the real time voltage and current conditions on the feeder and can be programmed to automatically open and close based on certain adverse current and voltage conditions that they detect. Normal reclosers can perform that function as well. However, the smart switches also are equipped with the ability to communicate with other smart switches on other feeders and with the breaker at the substation using peer to peer communication. This team of smart switches and feeder breaker(s) is programmed to identify faulted current conditions caused by most outage events and to automatically open. This isolates the faulted section of the feeder and closes to connect to an adjacent feeder to minimize the number of customers affected by outages and to reduce outage minutes. Implementing this automated feeder tie capability is not possible for all feeders. When it is possible, in many cases the circuit requires a significant investment in rebuilding and installing new sections of the feeders. The scheme also includes the installation of the smart switches, the required upgrades at the substations and installing the necessary communications equipment on the feeder itself. Oncor Electric Delivery has been installing more smart switches over the past few years allowing the implementation of "automated feeder ties" and plans to continue to do so in the years ahead.

Ten Year Violation (Eleven Consecutive Years)

a. DHIDE2821 (Dollarhide)

i. This feeder is 70.0 miles long and currently serves 99 customers in rural West Texas. The nearest service center is about 47 miles away. The customers are almost all oil and gas field-related. The terrain is low scrub brush and desert sands with limited paved road access and low vegetation density.

ii. This feeder's violations were due to SAIDI (11-Year) and SAIFI (2-Year). The majority of the outage events were caused by adverse weather events such as high winds. In June of 2022, a large wind storm with sustained winds of 20 miles per hour on average and gusts as high as 40 miles per hour caused overhead wire to swing and make contact, causing single operation line fuse and reclosers to open. In this two day event, these wind events accounted for 91% of the feeder's SAIDI and 56% of the feeder's SAIFI values.

iii. In 2020, planned distribution automation projects replaced single operation line fuses at key locations on the feeder with vacuum reclosing fuses. In 2020, a planned pole replacement project was completed that replaced seventy-one (71) deteriorated poles and seventy-seven (77) crossarms on many sections of the feeder that had been identified by Oncor's pole inspection program. In 2021, and 2022 planned substation improvement projects upgraded communications equipment at the substation. Proactive vegetation management was completed on this feeder in 2019.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ 594,000	$ -	$ -	$ 1,355,000
Planned Vegetation Management	$ -	$ -	$ -	
Planned Distribution Automation	$ 14,000	$ -	$ -	
Planned Distribution System Improvement	$ -	$ -	$ -	
Planned Substation System Improvement	$ -	$ 65,000	$ 682,000	
Reactive Feeder Maintenance	$ -	$ 1,000	$ -	$ 1,000
Reactive Vegetation Management	$ -	$ -	$ -	
		TOTAL		$ 1,356,000

v. A distribution plan item is under consideration to establish automated feeder ties between DHIDE2821 and GSMTH1742 and between DHIDE2821, MIDWY0611, and

GSMTH1732. Implementation of this plan, requires over twenty-one (21.0) miles of the existing feeders to be reconductored with larger wire to handle the added load transfers during outage events and up to ten (10) smart vacuum switches will need to be installed. Due to the large scope of this proposed plan, the work will probably be broken up into at least two or maybe three phases. Phase I would reconductor about 4.2 miles of the existing feeder with larger wire and install four (4) smart vacuum switches. Phase II and Phase III in 2024 would reconductor a total of about 17.5 miles of the existing feeder with larger wire and install six (6) more smart vacuum switches to complete the overall project. In addition, there is a distribution expansion plan to establish a new substation to alleviate load on the Emma and Dollarhide Substations. When this distribution plan item is fully implemented, automated fault isolation and service restoration to viable sections of each feeder can minimize the number of customer outages and reduce the outage minutes.

Five Year Violation (Six Consecutive Years)

b. RSKMN3057 (Rusk Main)

i. This feeder is 64.0 miles long and currently serves 1,181 customers in rural East Texas. The terrain is pine forests with tall trees in loose sandy soils with very high vegetation density.

ii. The feeder violation was due to SAIDI (5-Year) and SAIFI (1-Year). Three separate events in April and October accounted for 75% of the total SAIDI and 48% of the SAIFI values for this feeder. On a stormy evening in April where wind gusts reached as high as 30 miles per hour, a tree in right-of-way fell and pulled down overhead wire and a pole, resulting in 44% of the SAIDI and 8% of the SAIFI values. On two separate days in October during adverse weather conditions, lightning stuck Oncor facilities, causing a smart switch and a reclosing device to open, and accounted for 31% of the SAIDI and 40% of the SAIFI values.

iii. In 2020, a planned distribution automation project replaced single operation line fuses at more key locations on the feeder with vacuum reclosing fuses. Several reactive maintenance projects replaced deteriorated poles and facilities at multiple locations on

the feeder. A planned vegetation management project performed right-of-way maintenance. In 2021, a planned distribution system improvement project reconstructed an older section of the feeder and installed new poles and facilities. A planned distribution automation upgrade project replaced an existing older oil-filled recloser with a new vacuum recloser equipped with SCADA for remote monitoring and control. Another planned distribution automation project replaced single operation line fuses at key locations on the feeder with vacuum reclosing fuses. Phase II of the planned distribution system improvement projects to convert sections of the feeder serving the town of Alto from the older 2.4kV primary voltage to the newer 24.9kV voltage was completed in 2021. Over eighty (80) taller and stronger poles with all new facilities were installed to replace the older poles and non-standard facilities. A planned substation system improvement project upgraded communications and SCADA equipment at the substation. A planned vegetation management project trimmed the mainline sections of the feeder and reactive vegetation management project after adverse weather events were completed in 2021. In 2022, a planned distribution service project continued improvements on the feeder by converting sections of the feeder serving the town of Alto to 24.9kV voltage. As part of this project, new autotransformers, vacuum reclosing fuses, and voltage equipment was installed to facilitate the process. A planned distribution automation project replaced a single operation line fuse with a vacuum reclosing fuse and a new wood pole with fiberglass crossarms to improve outage response times on this section of the feeder.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ -	$ -	$ 4,262,000
Planned Vegetation Management	$ 8,000	$ 34,000	$ -	
Planned Distribution Automation	$ 16,000	$ 144,000	$ 55,000	
Planned Distribution System Improvement	$ 883,000	$ 1,299,000	$ 1,688,000	
Planned Substation System Improvement	$ -	$ 135,000	$ -	
Reactive Feeder Maintenance	$ 18,000	$ 24,000	$ -	$ 87,000
Reactive Vegetation Management	$ 2,000	$ 43,000	$ -	
		TOTAL		$ 4,349,000

v. A planned distribution system improvement project is being designed to establish an automated feeder tie between RKMN3057 and RSKMN3046 in order to provide two separate feeds going south to supply power to the town of Alto at the southern edge of our service territory. When this project is fully implemented with the establishment of a new feeder on the Douglas substation, automated fault isolation and service restoration to the town of Alto can minimize the number of customer outages and reduce the outage minutes.

Four Year Violation (Five Consecutive Years)

c. CRNES2711 (Crane East)

i. This feeder is 35.3 (was 55.6 in 2020) miles long and currently serves 112 customers in West Texas. The terrain is low scrub brush and desert sands with limited paved road access and low vegetation density.

ii. The feeder violation was due to SAIDI (4-Year). In 2022, the majority of the outage events were caused directly or indirectly by adverse weather events such as high winds or lightning. Events in February, April, and May combined for a total of 86% of the SAIDI values on this feeder. In February, April, and May, localized wind storms with sustained winds of at least 25 miles per hour caused overhead wires to get together, causing a hydraulic reclosers to lock out and causing 29% of the SAIDI value. In May,

lightning struck a wood pole causing the pole to catch on fire and locking out the recloser, which accounted for 57% of the SAIDI values. Proactive vegetation management was completed on this feeder in 2019.

iii. In 2020, a planned distribution automation project replaced single operation line fuses with vacuum reclosing fuses at key locations on the feeder. In 2022, a reactive feeder maintenance job replaced a deteriorated wood pole with a new wood pole and fiberglass crossarms.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ -	$ -	
Planned Vegetation Management	$ -	$ -	$ -	
Planned Distribution Automation	$ 37,000	$ -	$ -	$ 37,000
Planned Distribution System Improvement	$ -	$ -	$ -	
Planned Substation System Improvement	$ -	$ -	$ -	
Reactive Feeder Maintenance	$ -	$ -	$ 5,000	$ 5,000
Reactive Vegetation Management	$ -	$ -	$ -	
		TOTAL		$ 42,000

v. A distribution plan item to establish a new feeder out of CRNES substation and establish automated feeder ties between CRNES2711, the new CRNES feeder, and CRANE0311 has been proposed. This project will reconductor about three miles of the existing feeder with larger wire, install two vacuum reclosers, and six smart vacuum switches. It would also build about 6.8 miles of new feeder to fully implement the planned automation scheme between all three feeders. When this distribution plan item is fully implemented, automated fault isolation and service restoration to viable sections of each feeder can minimize the number of customer outages and reduce the outage minutes.

d. LMESA2813 (Lamesa)

i. This feeder is 73.0 miles long and currently serves 119 customers in rural West Texas. The nearest service center is about 57 miles away. The terrain is low scrub brush and desert sands with limited paved road access and low vegetation density.

ii. The feeder violation was due to SAIDI (4-Year). The majority of the SAIDI values for this feeder in 2022 were due to an event in May. During a thunderstorm in May with sustained winds at around 40 miles per hour and recorded gusts of up to 73 miles per hour, a mainline wood pole just outside the substation broke, causing the mainline overhead wire to fall and locking out the feeder. This outage caused 73% of the total SAIDI value of this feeder. The widespread damage associated with the storm and the remoteness of the substation from the manned service center.

iii. In 2020, reactive maintenance projects replaced eighteen (18) damaged poles, crossarms, and conductor identified by feeder patrols that were damaged during adverse weather events. A planned distribution automation project replaced an older oil-filled recloser with a vacuum recloser and installed a new vacuum recloser at two key locations on the feeder to improve sectionalizing during future outage events. Both of these vacuum reclosers are equipped with SCADA for remote monitoring and control. The feeder was patrolled to identify deteriorated equipment that needed to be replaced. A planned distribution feeder maintenance project followed which replaced twenty-one (21) deteriorated poles with new taller and stronger poles and new fiberglass crossarms. In 2021, reactive maintenance projects replaced a damaged pole, crossarm, and conductor and removed idle facilities identified during feeder patrols. A planned distribution feeder maintenance project had a pole inspection contractor inspect and treat the poles on a section of the feeder. In 2022, a reactive distribution feeder maintenance project replaced a damaged pole and a crossarm that was found during a feeder patrol. Proactive vegetation management projects were completed on this feeder in 2019 and 2020.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ 80,000	$ 4,000	$ -	$ 7,116,000
Planned Vegetation Management	$ -	$ -	$ -	
Planned Distribution Automation	$ 124,000	$ -	$ -	
Planned Distribution System Improvement	$ -	$ -	$ -	
Planned Substation System Improvement	$ -	$ 6,908,000	$ -	
Reactive Feeder Maintenance	$ 57,000	$ 25,000	$ 7,000	$ 82,000
Reactive Vegetation Management	$ -	$ -	$ -	
		TOTAL		$ 7,198,000

v. There are planned substation system improvement projects that started in 2021 will continue into 2024. These projects have replaced the three existing smaller 69-12.5kV substation transformers with two new 138-12.5kV 47MVA transformers and seven new feeder breakers. This project converted the LMESA substation from the older 69kV to the newer 138kV transmission voltage and upgraded the overhead facilities to accommodate the new voltage. Also, a distribution plan item is being considered for the replacement of three transformers inside the Lamesa Substation that will provide additional back stand and alleviate load issues on LMESA 2813 and LMESA 2833. When this distribution plan item is fully implemented, automated fault isolation and service restoration to viable sections of each feeder can minimize the number of customer outages and reduce the outage minutes.

Three Year Violation (Four Consecutive Years)

e. CRKET2402 (Crockett Switch Station)

i. This feeder is 53.7 miles long and currently serves 1,696 customers in rural Central Texas. The terrain is sandy soils with areas of tall trees and high vegetation density.

ii. The feeder violation was due to SAIFI (3-Years). The five major events occurred in February, May, September and November, and accounted for 74% of the SAIFI value. The January event was due to ice accumulation on adjacent trees, and accounted for 8% of the SAIFI value. Wind storms in February, May, and September caused in right away and off right away trees to make contact with the overhead wires, causing single

operation line fuses to lock out and accounting for 29% of the SAIFI values. A localized storm in November accounted for 12% of the SAIFI value.

iii. In 2020, a planned distribution automation project upgraded an older oil-filled recloser with a new vacuum recloser equipped with SCADA for remote monitoring and control. During the year after patrols of the feeder reactive maintenance projects replaced four (4) deteriorated poles and other deteriorated overhead facilities. A planned distribution feeder maintenance project had a pole inspection contactor inspect and treat over four-hundred (400) poles on the feeder. In 2021, a planned distribution system improvement project rebuilt about 2,100 feet (0.4 miles) of the existing feeder by installing larger wire, taller and stronger poles, and new fiberglass crossarms. The purpose of this project was to establish an upgraded feeder tie between CRKET2402 and CRKET2403 to allow both feeders to back stand each other during outage events. Two planned distribution feeder maintenance projects replaced eight (8) deteriorated poles and twenty-seven (27) deteriorated crossarms identified during patrols of the feeder the previous year. A planned distribution automation project replaced fourteen (14) single operation line fuses at key locations on the feeder with vacuum reclosing fuses. In 2021, there were also reactive feeder maintenance and vegetation management completed. In 2022, a distribution automation project installed three vacuum reclosing fuses at three key locations on the feeder. A planned distribution system improvement project installed 5,800 feet (1.1 miles) of overhead three phase wire along with thirty-two (32) wood poles with fiberglass crossarms to improve reliability on the feeder. Reactive vegetation management was completed in 2022. Proactive vegetation management projects were completed on this feeder in 2018.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ 29,000	$ 342,000	$ -	$ 1,703,000
Planned Vegetation Management	$ -	$ -	$ -	
Planned Distribution Automation	$ 61,000	$ 101,000	$ 39,000	
Planned Distribution System Improvement	$ -	$ 594,000	$ 537,000	
Planned Substation System Improvement	$ -	$ -	$ -	
Reactive Feeder Maintenance	$ 48,000	$ 24,000	$ -	$ 104,000
Reactive Vegetation Management	$ 14,000	$ 18,000	$ -	
		TOTAL		$ 1,807,000

v. A planned feeder maintenance project is scheduled to install approximately 54,000 feet (10.2 miles) of three phase overhead wire to provide back standing capabilities with CRKET2403 and customers in the City of Lovelady. This will include the installation of two smart switches, along with the replacement of a single operation line fuse with a vacuum reclosing fuse to increase reliability along the feeder.

Two Year Violation (Three Consecutive Years)

f. CHRNO1201 (Chireno)

i. This feeder is 75.2 miles long and currently serves 538 customers in rural East Texas. The terrain is pine forests with tall trees in loose sandy soils with about high vegetation density.

ii. This feeder was due to SAIDI (2-Year). In 2022, localized storm events in March, May, and November accounted for 36% of the SAIDI values.

iii. In 2020, reactive maintenance projects initiated after patrols of the feeder replaced three (3) deteriorated poles. Reactive vegetation management projects trimmed trees and brush in key areas after patrols of the feeder. Reactive vegetation management was completed at an as need basis. In 2021, reactive maintenance projects initiated after patrols of the feeder replaced eight (8) deteriorated poles and two damaged reclosers. Additional reactive maintenance projects initiated after adverse weather events replaced ten (10) damaged poles and a span of damaged wire. Reactive vegetation management projects

were initiated throughout the year mainly as a result of several adverse weather events causing trees and limbs to fall onto the overhead wire. In addition, planned vegetation management projects were completed that trimmed 12.4 miles of the right-of-way and identified and removed two-hundred and seventy eight (278) hazard trees adjacent to the right-of-way of the feeder. These hazard trees are a result of a pine tree beetle infestation in the pine forests of east Texas that bore into the pine trees and in a short time cause the trees to die. Then the trees dry up and over time start sheading dead limbs and eventually the main trunk will break and fall to the ground. This planned vegetation program attempts to mitigate these hazard trees before they can fall into our lines and cause an outage event. Also, in 2021 a planned substation improvement project upgraded the communications and SCADA equipment at the substation to improve remote monitoring and control. In 2022, planned vegetation management projects performed work on 75.4 miles of the feeder, and existing right-of-way projects, and reactive vegetation management projects cleared trees and debris from existing right-of-way on key portions of the feeder.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ -	$ -	
Planned Vegetation Management	$ -	$ 185,000	$ 38,000	
Planned Distribution Automation	$ -	$ -	$ -	$ 520,000
Planned Distribution System Improvement	$ -	$ -	$ -	
Planned Substation System Improvement	$ -	$ 59,000	$ 238,000	
Reactive Feeder Maintenance	$ 22,000	$ 61,000	$ -	$ 319,000
Reactive Vegetation Management	$ 4,000	$ 216,000	$ 16,000	
		TOTAL		$ 839,000

v. A planned feeder maintenance project is scheduled to deteriorated facilities. A further future planned substation system improvement project will replace the existing feeder breakers and transformers in the Chireno Substation with larger capacity equipment to handle the increasing load requirements from customers on the feeder. This will allow

for the minimization of the number of customer outages and reduce the outage minutes and facilitate further feeder automation.

g. HNTNG1301 (Huntington)

i. This feeder is 105.1 miles long and currently serves 1,519 customers in rural East Texas. The terrain is pine forests with tall trees and high vegetation density.

ii. The feeder violation was due to SAIDI (2-Year) and SAIFI (1-Year). In 2022, events in January, March, April, and May accounted for 78% of the SAIDI values, and 79% of the SAIFI values. In May, a public vehicle damaged a wood pole, causing 39% of the SAIDI and 30% of the SAIFI values. During local storm events in January and April, trees made contact with the overhead wire accounting for 15% of the SAIDI and 11% of the SAIFI values. A separate wind event in January caused a recloser to fail due to conductor making phase to phase contact. This event accounted for 21% of the SAIDI and 21% of the SAIFI values.

iii. In 2020, a reactive maintenance project initiated after a patrol of the feeder replaced one (1) deteriorated pole. Additional reactive maintenance projects initiated after adverse weather events replaced two (2) storm damaged poles. Planned vegetation management projects were completed along approximately 102.8 miles of the feeder, and reactive vegetation management projects were performed after patrols of the feeder. In 2021, reactive maintenance projects initiated after patrols of the feeder after adverse weather events replaced seven (7) damaged poles, a span of damaged wire, and a damaged recloser. The older oil-filled recloser that was damaged during a storm was upgraded to a new vacuum recloser equipped with SCADA for remote monitoring and control and three single operation line fuses were replaced with reclosing vacuum fuses. After a careful investigation of some of the recurring outage events on the feeder, a one mile section of the feeder where numerous wire down caused outage events had occurred over several years was identified. A plan was proposed to rebuild the existing one mile section by installing taller and stronger poles with new fiberglass crossarms where needed and all new larger wire. This planned distribution feeder maintenance project replaced about 1,400 feet of small wire with larger wire, replaced seventeen (17) existing deteriorated poles with taller and stronger poles, and replaced twenty-one (21) existing deteriorated wood crossarms with new fiberglass crossarms. In 2022, a planned feeder maintenance

project replaced 9,800 feet (1.86 miles) of overhead mainline wire with larger wire. Twenty-four (24) newer and stronger wood poles along with eight (8) new concrete poles were installed with fiberglass crossarms in order to provide better back stand capabilities to HNTNG1307 and to allow for better access to the feeder from the road. A reactive feeder maintenance job was completed to replace one damaged wood pole found during a patrol of the feeder. Planned vegetation management projects trimmed and maintained approximately 18.9 miles of the feeder, while reactive vegetation management was performed on key parts of the feeder after storm damage.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ 418,000	$ 312,000	$ 1,130,000
Planned Vegetation Management	$ 62,000	$ -	$ 338,000	
Planned Distribution Automation	$ -	$ -	$ -	
Planned Distribution System Improvement	$ -	$ -	$ -	
Planned Substation System Improvement	$ -	$ -	$ -	
Reactive Feeder Maintenance	$ 12,000	$ 79,000	$ 4,000	$ 107,000
Reactive Vegetation Management	$ 6,000	$ -	$ 6,000	
		TOTAL		$ 1,237,000

v. A distribution substation system improvement plan will establish the new Rocky Springs Substation that is to be situated approximately 16,000 feet (3.0 miles) northwest of the town of Huntington. When this substation is completed, it will help to off load a portion of both the Lufkin East and Huntington substations and provide back stand capability for those stations, which can minimize the number of customer outages and reduce the outage minutes.

h. CSHNG1201 (Cushing)

i. This feeder is 94.3 miles long and currently serves 940 customers in rural East Texas. The nearest service center is about 44.5 miles away. The terrain is pine forests with trees greater than 100 feet tall in loose sandy soils with very high vegetation density.

ii. This feeder violation was due to SAIDI (2-Year). In 2022, localized storm events in March, April, June, and October accounted for 75% of the SAIDI values on the feeder.

In March, April, June, multiple storms with high winds of at least 25 miles per hour and lightning moved through the area of the substation and caused trees to fall in right-of-way, causing multiple single operation line fuses and reclosing devices to open and accounted for the SAIDI values. Because of the advanced switching capabilities of the system with vacuum reclosing fuses and automated controls, the feeder did not lock out during any of these high SAIDI events.

iii. In 2020, multiple reactive maintenance projects initiated after four adverse weather events replaced six (6) damaged poles and several crossarms. Additional patrols of the feeder during the year initiated reactive maintenance projects that replaced thirty-six (36) deteriorated poles and multiple crossarms. A planned distribution feeder maintenance project replaced ten (10) deteriorated poles, several crossarms, and open wire secondary wire with newer bundled secondary wire. Another planned distribution feeder maintenance project installed overhead faulted circuit indicators to help troubleshooters isolate outage events past these devices. A distribution substation improvement project replaced failed arresters at the substation transformer. Planned vegetation management projects patrolled and trimmed approximately 22.2 miles of the feeder mainline. Reactive feeder maintenance jobs were performed after patrols of the feeder to clear brush and vegetation from key areas of the feeder. In 2021, a reactive maintenance projects replaced one deteriorated pole and a damaged recloser with a vacuum reclosing fuse and a damaged oil-filled recloser with a new vacuum recloser equipped with SCADA for remote monitoring and control. A planned distribution automation project replaced five (5) single operation line fuses with vacuum reclosing fuses, and relocated one existing vacuum recloser to key locations on the feeder to improve outage sectionalizing. Planned and reactive vegetation management projects were performed on the feeder at key locations after patrols of the feeder. In 2022, a distribution automation project replaced four (4) single operation line fuses with new smart switches, and replaced six (6) broken or deteriorated wood poles with new poles at key areas of the feeder. A feeder maintenance project replaced 2,300 feet (0.44 miles) of the feeder with new overhead wire along with fuses and new solid blade disconnects to handle increased summer loading along the multiphase portion of the feeder. A reactive feeder maintenance project replaced a deteriorated wood pole with a new pole and fiberglass crossarm after patrols

of the feeder. Planned vegetation management projects were performed as needed on the feeder after patrols.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ 79,000	$ 12,000	$ 297,000	$ 1,268,000
Planned Vegetation Management	$ 435,000	$ -	$ -	
Planned Distribution Automation	$ -	$ 47,000	$ 44,000	
Planned Distribution System Improvement	$ -	$ 263,000	$ -	
Planned Substation System Improvement	$ 7,000	$ 84,000	$ -	
Reactive Feeder Maintenance	$ 310,000	$ 64,000	$ 7,000	$ 389,000
Reactive Vegetation Management	$ 4,000	$ 4,000	$ -	
		TOTAL		$ 1,657,000

v. A planned distribution system improvement project is being considered to move portions of the mainline overhead facilities closer to the open right-of-way and road so that it is more accessible. These locations will be near or at the exit of the feeder, which will allow crews easier access to possible problem locations. The feeder will continue to be monitored and evaluated during the year for additional opportunities to improve reliability.

i. CSHNG1202 (Cushing)

i. This feeder is 48.2 miles long and currently serves 72 customers in rural East Texas. The nearest service center is about 44.5 miles away. The terrain is pine forests with trees greater than 100 feet tall in loose sandy soils with very high vegetation density.

ii. This feeder violation was due to SAIDI (2-Year). In 2022, two separate events in March and April accounted for 73% of the SAIDI values for this feeder. In March, a wind storm with gusts of up to 25 miles per hour caused conductor to make contact phase to phase, locking out a single operation line fuse and accounting for 54% of the SAIDI. A separate event in April where a storm crossed through the area of the substation with lightning caused a tree to fall in right-of-way, making contact with an overhead line. This locked out the reclosing device, and accounted for 18% of the SAIDI values.

iii. In 2020, a patrol after an adverse weather event initiated a reactive maintenance project

to replace two (2) damaged poles and several damaged crossarms. A planned distribution feeder maintenance project replaced three (3) deteriorated poles and fourteen (14) deteriorated crossarms. A planned vegetation management project was completed to maintain undergrowth on 28.4 miles of the feeder right-of-way. In 2021, a planned distribution automation project replaced a single operation line fuse with a reclosing vacuum fuse along with a new pole and fiberglass crossarm. In 2022, a planned distribution automation project replaced a single operation line fuse with a reclosing vacuum fuse along with a new wood pole. Planned vegetation management projects inspected and trimmed key parts of the feeder.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ 67,000	$ -	$ -	
Planned Vegetation Management	$ 438,000	$ -	$ 6,000	
Planned Distribution Automation	$ -	$ 7,000	$ 7,000	$ 609,000
Planned Distribution System Improvement	$ -	$ -	$ -	
Planned Substation System Improvement	$ -	$ 84,000	$ -	
Reactive Feeder Maintenance	$ 5,000	$ -	$ -	$ 5,000
Reactive Vegetation Management	$ -	$ -	$ -	
		TOTAL		$ 614,000

v. A planned distribution system improvement project is being considered to move portions of the mainline overhead facilities closer to the open right-of-way and road so that it is more accessible. These locations will be near or at the exit of the feeder, which will allow crews easier access to possible problem locations. The feeder will continue to be monitored and evaluated during the year for additional opportunities to improve reliability.

j. MKNSW2601 (Southwest McKinney)

i. This feeder is 20.2 miles long and currently serves 1,182 customers in urban Dallas/ Fort Worth Metroplex. The terrain has rolling hills with commercial and residential locations with high vegetation density.

ii. This feeder violation was due to SAIDI (1-Year) and SAIFI (2-Year). In August of 2022,

an underground failure at the feeder exit accounted for 53% of the SAIDI value and 20% of the SAIFI value. Localized storms in May, June, and September caused reclosers to lock out at separate locations, accounting for 16% of the SAIDI and 32% of the SAIFI values.

iii. In 2020, planned distribution automation projects replaced sixteen (16) single operation line fuses with remote operated vacuum reclosing devices at key parts of the feeder. After patrols of the feeder, two (2) deteriorated wood poles were replaced on reactive feeder maintenance jobs. Planned and reactive vegetation management projects were performed at key points of the feeder after patrols and review of outages in years previous. In 2021 after patrols of the feeder, reactive maintenance projects replaced three (3) deteriorated or damaged poles. Five planned distribution system improvement projects rebuilt about 22,570 feet (4.3 miles) of the feeder with small wire and older poles by installing one hundred seventy-four (174) new, taller, and stronger poles with fiberglass crossarms and larger wire. To improve sectionalizing on the feeder, these projects also installed one (1) new air brake switch, and two (2) vacuum reclosers equipped with SCADA for remote monitoring and control. A planned substation improvement project installed telecommunication equipment to establish control and communications with the smart switches on MKNSW. Planned vegetation management projects trimmed approximately 32.3 miles of the feeder, and reactive vegetation management projects trimmed locations that had been affected by storms. In 2022, four planned distribution system improvement projects rebuilt approximately 14,000 feet (2.65 miles) of the existing feeder by replacing small wire and older poles with taller and stronger poles with fiberglass crossarms and larger wire. Planned underground feeder maintenance jobs replaced approximately 9,800 feet (1.86 miles) of underground primary conductor to improve reliability. Planned vegetation management projects trimmed approximately 53.9 miles of the feeder, and reactive vegetation management projects trimmed locations of the feeder where storms had affected the area.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ 17,000	$ 291,000	$ 6,841,000
Planned Vegetation Management	$ 5,000	$ 429,000	$ 1,536,000	
Planned Distribution Automation	$ 38,000	$ -	$ -	
Planned Distribution System Improvement	$ -	$ 1,720,000	$ 2,206,000	
Planned Substation System Improvement	$ -	$ 599,000	$ -	
Reactive Feeder Maintenance	$ 5,000	$ 18,000	$ -	$ 580,000
Reactive Vegetation Management	$ 80,000	$ 446,000	$ 31,000	
		TOTAL		$ 7,421,000

v. A planned distribution system improvement project will rebuild approximately 21,000 feet (3.98 miles) of the feeder with new overhead conductor. It will include the replacement of one hundred forty-two (142) wood poles, one hundred forty-five (145) transformers, and two (2) smart switches to facilitate rebuilding the feeder. It will also require the addition of sixty-five (65) wood poles and six (6) concrete poles with fiberglass crossarms. A distribution automation project will replace a single operation line fuse with one (1) vacuum reclosing fuse. Planned feeder maintenance projects will replace approximately 500 feet of underground primary for improved reliability. Seasonal preparation at the substation will include the installation of temperature monitors as well as improved relaying on the feeder relays.

One Year Violation (Two Consecutive Years)

k. ALCAT1211 (Alcatraz)

i. This entirely overhead feeder is 12.5 miles long and currently serves 26 customers in rural West Texas. The nearest service center is about 77 miles away. There is only one residential customer on this feeder, with the remaining customers being commercial non-residential. The terrain is low scrub brush and desert sands with limited paved road access and low desert vegetation density.

ii. This feeder's violations were due to SAIDI (1-Year) and SAIFI (1-Year). Half of the outage events representing 78% of the feeder SAIDI were caused by localized adverse weather events in March and May.

iii. In 2021, a planned feeder maintenance project rebuilt 8,500 feet of overhead primary wire at key locations on the feeder to larger capacity mainline construction. A planned distribution system improvement project installed two (2) capacitor banks for voltage support at the substation location. In June of 2022, after significant wind events, a reactive maintenance project on the feeder conductor re-tensioned the conductor to improve resilience effectively eliminating wind events.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ 924,000	$ -	$ 8,927,000
Planned Vegetation Management	$ -	$ -	$ -	
Planned Distribution Automation	$ -	$ -	$ -	
Planned Distribution System Improvement	$ -	$ -	$ -	
Planned Substation System Improvement	$ 85,000	$ 7,918,000	$ -	
Reactive Feeder Maintenance	$ -	$ -	$ -	$ -
Reactive Vegetation Management	$ -	$ -	$ -	
		TOTAL		$ 8,927,000

v. This feeder's performance will constantly be monitored through different tools and reliability programs. As we monitor trends and customer impacts, this feeder will be analyzed for potential expedited overhead maintenance, automation, and protection upgrades.

l. BLAGG3912 (Blagg Street Sub)

i. This feeder is 37 miles long and currently serves 1,050 customers in the northern DFW metro-region, just North West of Lewisville Lake. This feeder is a mixture of residential and commercial customers. The terrain is standard metropolitan area of north Texas plains. There are mostly flat with slight elevation changes with areas that are grassy, low shrubs and various tree species. The vegetation density is medium.

ii. This feeder violation is due to SAIDI (1-Year). Two major events involving an equipment failure and a public vehicle accident accounted for 81% of the SAIDI values respectively. The equipment failure was due to a localized high wind event.

iii. In 2020, a planned distribution system improvement project reconductored 8,470 feet (1.60 miles) of overhead mainline conductor, removed a recloser, and installed 3 regulators. Also in 2020, this feeder also had two reclosers upgraded, some pole maintenance and seven (7) reclosing fuses installed. A reactive vegetation management project trimmed locations after patrols of the feeder. In 2021, planned and reactive vegetation management projects trimmed locations along the mainline and multiphase portions of the feeder. In 2022, a planned feeder maintenance project repaired a damaged pole and installed a new recloser. Reactive vegetation management projects were performed after stormy weather conditions along key portions of the feeder.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ 21,000	$ -	$ 69,000	$ 1,576,000
Planned Vegetation Management	$ -	$ 46,000	$ -	
Planned Distribution Automation	$ 174,000	$ -	$ -	
Planned Distribution System Improvement	$ 1,167,000	$ 4,000	$ 95,000	
Planned Substation System Improvement	$ -	$ -	$ -	
Reactive Feeder Maintenance	$ -	$ -	$ -	$ 43,000
Reactive Vegetation Management	$ 3,000	$ 10,000	$ 30,000	
		TOTAL		$ 1,619,000

v. There are current plans to upgrade the 3750 kVA Auto Transformer to a 5000 kVA Auto Transformer. As well as, reconductor the existing 4/0 ACSR to a larger conductor, installing four (4) new poles and replacing three (3) existing poles. This feeder's performance will constantly be monitored through different tools and reliability programs. As we monitor trends and customer impacts, this feeder will be analyzed for potential expedited overhead maintenance, automation, and protection upgrades.

m. CRLSP1703 (Carrol Spring)

i. This feeder is 33 miles long and currently serves 271 customers in the non-metro eastern region. This feeder is mostly residential with some commercial customers. The terrain is developed eastern Texas piney woods, with a mixture of tall, medium and short vegetation. The vegetation density is medium to high.

ii. This feeder violation is due to SAIDI (1-Year). This feeder's events were off right away trees falling into facilities during adverse weather conditions. The winds during the events were recorded around roughly 30 miles per hour or more. These two events accounted for 68% of the SAIDI values.

iii. In 2021, this feeder had three (3) fuse locations upgraded to reclosing fuses, one (1) cross arm replaced, and one (1) pole replaced. Planned vegetation management projects were performed on 11.6 miles of the feeder in key locations to clear trees in right-of-way and in danger of falling into the overhead wires and facilities. In 2022, this feeder had two major Reconductor projects that rebuilt twenty-one thousand (21,000) feet of total line miles. Reactive vegetation management projects were performed after patrols of the feeder.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ -	$ -	
Planned Vegetation Management	$ -	$ 131,000	$ -	
Planned Distribution Automation	$ -	$ 22,000	$ -	$ 740,000
Planned Distribution System Improvement	$ -	$ -	$ 587,000	
Planned Substation System Improvement	$ -	$ -	$ -	
Reactive Feeder Maintenance	$ -	$ 51,000	$ -	$ 52,000
Reactive Vegetation Management	$ -	$ -	$ 1,000	
		TOTAL		$ 792,000

v. There are major feeder maintenance projects planned for this feeder to include the replacement of twenty (20) aging poles with associated crossarms and insulators. This feeder's performance will constantly be monitored through different tools and reliability programs. As we monitor trends and customer impacts, this feeder will be analyzed for potential expedited overhead maintenance, automation, and protection upgrades.

n. CNTRY2831 (Century)

i. This feeder is 29.76 miles long and currently serves 1,650 customers in the urban Dallas/Fort Worth Metroplex. The total overhead mileage is 8.1 miles, and the total underground mileage is 21.7 miles. The terrain is rolling hills with many residential and

commercial customers, and has medium vegetation density.

ii. This feeder violation was due to SAIFI (1-Year). Four separate events in July, August, and November accounted for 89% of the SAIFI values for this feeder. On two events in July and August during adverse weather conditions, two separate switchgears failed, causing 48% of the SAIFI values. On a separate event in August, a crossarm and pole failed, causing 31% of the SAIFI values.

iii. In 2020, planned feeder maintenance jobs on this feeder replaced approximately 5,600 feet (1.06 miles) of deteriorated underground cable. Reactive vegetation management projects were performed on the feeder after patrols following storms. In 2021, 1,500 feet (.29 miles) of deteriorated underground cable was replaced on planned feeder maintenance jobs. A planned distribution system improvement project by installing a new air break switch, two new wood poles, and one hundred (100) feet of underground three phase wire. Planned vegetation management projects trimmed approximately 7.6 miles of the feeder in key locations. In 2022, approximately 500 feet (.09 miles) of deteriorated underground cable was replaced on a planned feeder maintenance job. Planned substation system improvement jobs were performed to correct relaying at the substation for this feeder.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ 529,000	$ 99,000	$ 52,000	
Planned Vegetation Management	$ -	$ 60,000	$ -	
Planned Distribution Automation	$ -	$ -	$ -	$ 835,000
Planned Distribution System Improvement	$ -	$ 56,000	$ -	
Planned Substation System Improvement	$ 34,000	$ -	$ 5,000	
Reactive Feeder Maintenance	$ -	$ -	$ -	$ 4,000
Reactive Vegetation Management	$ 4,000	$ -	$ -	
		TOTAL		$ 839,000

v. Planned feeder maintenance jobs in the future will focus on the replacement of underground cables where faults occur, as well as the replacement of switchgears along the feeder that are aged or may be damaged from weather events or public vehicle events.

Throughout the year, routine maintenance will be performed on this feeder, and opportunities to improve system reliability on this feeder will be taken up as they are presented.

o. CHILK7711 (China Lake)

i. This feeder is 19.8 miles long and currently serves 15 customers in rural West Texas. The customers are almost all oil and gas field-related. The terrain is low scrub brush and desert sands with limited paved road access and low vegetation density.

ii. This feeder violation was due to SAIDI (1-Year). In 2022, events in January, March, and June caused 99% of the feeder's SAIDI values. In January of 2022, an event where the crossarm failed caused the feeder to lock out, accounting for 51% of the SAIDI values. In March and June, localized storm events with lightning and high winds, with gusts of up to at least 25 miles per hour, caused the feeder to lock out at the substation, which accounted for 48% of the SAIDI values.

iii. In 2020, China Lake Substation was established to increase load capabilities on this part of the system. A planned distribution system improvement project was completed to install a new feeder exit and establish this feeder to offload COYNW8151. This project included rebuilding about 11,000 feet (2.1 miles) of existing line with larger wire, and relocated an autotransformer to convert existing 12.5kv line to 21.6kv. This project also included installing forty six (46) new poles and replacing eleven (11) wood poles.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ 37,000	$ -	$ -	$ 5,256,000
Planned Vegetation Management	$ -	$ -	$ -	
Planned Distribution Automation	$ -	$ -	$ -	
Planned Distribution System Improvement	$ 753,000	$ -	$ -	
Planned Substation System Improvement	$ 4,466,000	$ -	$ -	
Reactive Feeder Maintenance	$ -	$ -	$ -	$ -
Reactive Vegetation Management	$ -	$ -	$ -	
		TOTAL		$ 5,256,000

v. This feeder's performance will constantly be monitored through different tools and

reliability programs. As we monitor trends and customer impacts, this feeder will be analyzed for potential expedited overhead maintenance, automation, and protection upgrades.

p. CRNAT4121 (Crane Atlantic)

i. This feeder is 42.75 miles long and currently serves 54 customers in rural West Texas. The terrain is low scrub brush and desert sands with limited paved road access and low vegetation density.

ii. This feeder violation was due to SAIDI (1-Year). In 2022, three separate events in April and June accounted for 83% of the feeder's total SAIDI value. In April and June, localized storms with lightning and high winds. In 2021, this feeder was only a poor performer due to a localized storm with 45 mile per hour winds that caused conductors and poles to break.

iii. In 2020, reactive maintenance projects initiated after patrols of the feeder replaced three poles. Planned substation system improvement projects replaced a pole and crossarm at the feeder exit. In 2022, a planned distribution system improvement project rebuilt 6,000 feet (1.14 miles) of the overhead mainline, replacing older conductor with stronger wire and shielded construction to help lightning protection on this section of the feeder. This project replaced or installed fifty-three (53) wood poles, installed one SCADA controlled reclosing unit and an air brake switch for better sectionalization of the feeder. After a patrol of the feeder, a substation system improvement project was instigated to repair and replace poles and crossarms that lead from the substation. Proactive vegetation management was completed on this feeder in 2019.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ -	$ -	
Planned Vegetation Management	$ -	$ -	$ -	
Planned Distribution Automation	$ -	$ -	$ -	$ 621,000
Planned Distribution System Improvement	$ -	$ -	$ 575,000	
Planned Substation System Improvement	$ 15,000	$ -	$ 31,000	
Reactive Feeder Maintenance	$ 6,000	$ -	$ -	$ 6,000
Reactive Vegetation Management	$ -	$ -	$ -	
		TOTAL		$ 627,000

v. A planned substation improvement project is been formulated to build a new substation in the area near the Crane-Atlantic and Crane substations to offset the summer load demands in this area. When this is implemented, the new substation will take some load from CRNAT4121 as well as other feeders in the area. The feeder will continue to be monitored and evaluated during the year for additional opportunities to improve reliability.

q. CWIND6311 (Culberson Wind)

i. This feeder is 52.8 miles long and currently serves 31 customers in rural west Texas. The nearest service center is about 145 miles away. The customers are almost all oil and gas field-related. The terrain is low scrub brush and desert sands with limited paved road access and low vegetation density.

ii. This feeder violation was due to SAIDI (1-Year). On one day in June, a wind storm with gusts of up to 30 miles per hour caused a crossarm to break and overhead line to fall. The time to replace this crossarm was due to the distance and drive time from the service center to the rural substation that is located in the far western reaches of the Oncor service area. This one event accounted for 98% of the feeder's SAIDI value.

iii. In the past three years, limited work was performed on this feeder. Proactive vegetation management projects were completed on this feeder in 2019.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ -	$ -	
Planned Vegetation Management	$ -	$ -	$ -	
Planned Distribution Automation	$ -	$ -	$ -	$ -
Planned Distribution System Improvement	$ -	$ -	$ -	
Planned Substation System Improvement	$ -	$ -	$ -	
Reactive Feeder Maintenance	$ -	$ -	$ -	$ -
Reactive Vegetation Management	$ -	$ -	$ -	
		TOTAL		$ -

v. At the end of 2022, a patrol of the feeder was recommended. The feeder will continue to be monitored and evaluated during the year for additional opportunities to improve reliability.

r. CSHNG1204 (Cushing)

i. This feeder is 41.0 miles long and currently serves 325 customers in rural East Texas. The nearest service center is about 44.5 miles away. The terrain is pine forests with tall trees in loose sandy soils with high vegetation density.

ii. This feeder violation was due to SAIDI (1-Year). The majority of the SAIDI value for this feeder comes a localized storm event in March. Four broken wood poles and crossarms. This event caused 74% of the SAIDI values for this feeder. This feeder was on only a poor performer in 2021 due to wind storm events that caused trees to fall into the conductors.

iii. In 2020, two reactive maintenance projects after patrols of the feeder replaced two (2) deteriorated wood poles and a fiberglass crossarm. A planned distribution automation project replaced a single operation line fuse with a vacuum reclosing fuse at a key location on the feeder. In 2021, a planned substation system improvement project replaced bushings and equipment on the substation transformer. After patrols of the feeder, reactive vegetation management was performed to clear trees from overhead facilities. In 2022, a planned substation system improvement project improved communications at the substation by installing new fiber communications. Reactive

vegetation management projects were performed to clear trees from overhead facilities. Proactive vegetation management projects were completed on this feeder in 2018.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ -	$ -	$ 140,000
Planned Vegetation Management	$ -	$ -	$ -	
Planned Distribution Automation	$ 24,000	$ -	$ -	
Planned Distribution System Improvement	$ -	$ -	$ -	
Planned Substation System Improvement	$ -	$ 3,000	$ 113,000	
Reactive Feeder Maintenance	$ 2,000	$ -	$ -	$ 13,000
Reactive Vegetation Management	$ -	$ 7,000	$ 4,000	
		TOTAL		$ 153,000

v. A planned distribution system improvement project is being considered to move portions of the mainline overhead facilities closer to the open right-of-way and road so that it is more accessible. These locations will be near the substation, which will allow crews easier access to possible problem locations. Proactive vegetation management will be performed on this feeder in the near future. The feeder will continue to be monitored and evaluated during the year for additional opportunities to improve reliability.

s. DIALV3911 (Dialville)

i. This feeder is 111.5 miles long and currently serves 1,129 customers in rural East Texas. The terrain is pine and mixed hardwood forests with trees greater than 100 feet tall and loose sandy soils.

ii. This feeder violation was due to SAIDI (2-Year) and SAIFI (1-Year). In 2022, events in January, March, April, and May accounted for 78% of the SAIDI values, and 79% of the SAIFI values. In May, a public vehicle struck a wood pole, causing the pole to fail and causing 39% of the SAIDI and 30% of the SAIFI values Separate events in January where reclosers failed due to conductor failures accounted for 21% of the SAIDI and 21% of the SAIFI values.

iii. In 2020, planned distribution system improvement projects installed five (5) vacuum reclosing fuses at key locations on the feeder. Several reactive maintenance projects

replaced deteriorated poles and facilities at multiple locations on the feeder. A planned vegetation management project performed right-of-way maintenance and various reactive vegetation management projects were also completed. In 2021, a planned substation system improvement project replaced several deteriorated poles and facilities. Various reactive vegetation management projects were completed. In 2022, a planned distribution automation upgrade project replaced an existing older oil-filled recloser with a new vacuum recloser equipped with SCADA for remote monitoring and control. A planned distribution feeder maintenance project had a pole inspection contactor inspect and treat over four-hundred (400) poles on the feeder.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ -	$ 58,000	
Planned Vegetation Management	$ 13,000	$ -	$ -	
Planned Distribution Automation	$ -	$ -	$ 68,000	$ 303,000
Planned Distribution System Improvement	$ 44,000	$ -	$ -	
Planned Substation System Improvement	$ -	$ 120,000	$ -	
Reactive Feeder Maintenance	$ 60,000	$ -	$ -	$ 83,000
Reactive Vegetation Management	$ 7,000	$ 16,000	$ -	
		TOTAL		$ 386,000

v. A distribution automation project is currently under construction. This project includes a relay upgrade and installation of all associated telecommunication equipment and cables necessary to establish distribution automation for feeder DIALV3911.

t. DOLEY8011 (Dooley)

i. This feeder is 22.4 miles long and currently serves 56 customers in rural west Texas. The customers are almost all oil and gas field-related. The terrain is low scrub brush and desert sands with limited paved road access and low vegetation density.

ii. This feeder violation was due to SAIDI (1-Year). In 2022, a wind storm where gusts reached up to 40 miles per hour caused poles to fail along with broken crossarms and fallen conductor, accounting for 88% of the feeder SAIDI values. In 2021, this feeder was only a poor performer due to a single event.

iii. In 2020, Dooley Substation was established from the former Northward Substation to handle increased load in the service area. Several planned distribution improvement projects upgraded overhead mainline by replacing 25,500 feet (4.84 miles) conductor, along with the replacement of sixty-eight (68) deteriorated wood poles with new and stronger poles and fiberglass crossarms and thirty (30) overhead transformers, and installing forty-four (44) wood poles along with new overhead feeder exits to help facilitate the establishment of this substation.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ -	$ -	$ 5,461,000
Planned Vegetation Management	$ -	$ -	$ -	
Planned Distribution Automation	$ -	$ -	$ -	
Planned Distribution System Improvement	$ 2,338,000	$ -	$ -	
Planned Substation System Improvement	$ 3,123,000	$ -	$ -	
Reactive Feeder Maintenance	$ -	$ -	$ -	$ -
Reactive Vegetation Management	$ -	$ -	$ -	
		TOTAL		$ 5,461,000

v. A planned distribution system improvement project was started in the previous year to replace overhead mainline wire across 8,200 feet (1.5 miles) of the feeder. This project will replace several deteriorated wood poles and crossarms, and will improve reliability across key parts of this feeder.

u. DGLAS2401 (Douglas)

i. This feeder is 106.7 miles long and currently serves 818 customers in rural East Texas. The terrain is pine forests with trees greater than 100 feet tall in loose sandy soils with very high vegetation density.

ii. This feeder violation was due to SAIDI (1-Year). Four separate events in April, and August accounted for 54% of the SAIDI values. During high wind events in April and August that spanned the course of three days, trees in multiple locations across the feeder made contact with the overhead wires, causing reclosing devices and the feeder to lock

out. In 2021, this feeder was only a poor performer due to a 30 mile per hour wind event that caused an off right away pine tree to fall into the feeder.

iii. In 2020, a reactive feeder maintenance project replaced a deteriorated wood pole at a key location of the feeder after patrols of the location. Planned vegetation management projects trimmed two hundred seventy-five (275) treess in right-of-way that were in danger of making contact of the overhead faciltiies. In 2021, a wood pole and crossarm were replaced on a feeder maintenance project after patrols. A distribution automation project replaced five (5) single operation line fuses with automated vacuum reclosing devices at key parts of the feeder. Planned and reactive vegetation management projects trimmed locations at key portions of the feeder. In 2022, a feeder maintenance project replaced a deteriorated wood pole after patrols of the feeder. A planned vegetation management project was completed to maintain undergrowth on 104 miles of the feeder right-of-way. Reactive vegetation maintenance projects trimmed trees along the feeder after patrols. A planned vegetation maintenance project sprayed approximately 104.6 miles of the feeder to abate growth along multiple portions of the feeder.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance		$ -	$ -	
Planned Vegetation Management	$ 63,000	$ 53,000	$ 12,000	
Planned Distribution Automation	$ -	$ 44,000	$ 31,000	$ 337,000
Planned Distribution System Improvement	$ -	$ -	$ -	
Planned Substation System Improvement	$ -	$ 134,000	$ -	
Reactive Feeder Maintenance	$ 5,000	$ 6,000	$ 5,000	$ 21,000
Reactive Vegetation Management	$ -	$ -	$ 5,000	
		TOTAL		$ 358,000

v. A planned distribution automation project is scheduled to be performed that will replace a single operation line fuse with a remote vacuum reclosing device at a key location of the feeder. Proactive vegetation management will be performed on this feeder in the near future. This feeder will continue to be monitored during the coming year and evaluated for further opportunities to improve reliability.

v. ELMAR3222 (Elmar)

i. This feeder is 26.2 miles long and currently serves 28 customers in rural west Texas. The nearest service center is about 84.3 miles away. The customers are almost all oil and gas field-related. The terrain is low scrub brush and desert sands with limited paved road access and low vegetation density.

ii. This feeder violation was due to SAIDI (1-Year). In early June of 2022, a pole broke at the base after a high wind day, causing the overhead wire to pull free from the pole and burn at the jumpers. This event accounted for 87% of the feeder's SAIDI values.

iii. In 2021, two planned distribution system improvement projects were completed to build back stand to the new Kyle Ranch substation, which installed four (4) new wood poles with fiberglass crossarms and 900 feet (.18 miles) of overhead wire. A separate project installed new shielded construction in order to mitigate lightning strikes on this section of the feeder by installing 3,000 feet (.58 miles) of overhead mainline wire, along with forty-four (44) new wood poles and fiberglass crossarms. In 2022, planned substation system improvement projects replaced and improved fiber communications at the substation. Proactive vegetation management on this feeder was completed in 2019.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ -	$ -	
Planned Vegetation Management	$ -	$ -	$ -	
Planned Distribution Automation	$ -	$ -	$ -	$ 572,000
Planned Distribution System Improvement	$ -	$ 467,000	$ -	
Planned Substation System Improvement	$ -	$ -	$ 105,000	
Reactive Feeder Maintenance	$ -	$ -	$ -	$ -
Reactive Vegetation Management	$ -	$ -	$ -	
		TOTAL		$ 572,000

v. A planned distribution system project will reconductor approximately 10,400 feet (1.9 miles) of the system with new overhead mainline wire, along with the installation of forty-three (43) new wood poles with fiberglass crossarms in shielded construction. This project will replace several deteriorated wood poles and crossarms, and will improve

reliability across key parts of this feeder.

w. FRNKS1202 (Frankston)

i. This feeder is 10.3 miles long and currently serves 100 customers in rural East Texas. The terrain is pine forests with trees greater than 100 feet tall in loose sandy soils with very high vegetation density.

ii. This feeder violation was due to SAIDI (1-Year) and SAIFI (1-Year). In 2022, four separate localized storm events in January, April, and May accounted for 92% of the SAIDI and 84% of the SAIFI values.

iii. In 2020, planned vegetation management projects trimmed approximately 2.4 miles of the feeder right-of-way. Substation system improvement projects installed communications with SCADA enabled controls to better sectionalize the feeder. In 2021, planned and reactive vegetation management projects trimmed trees and brush in right-of-way to improve feeder reliability. In 2022, distribution automation project replaced two (2) single operation line fuses with remotely controlled vacuum reclosing fuses at key points of the feeder to increase better sectionalization. This project also replaced a deteriorated wood pole and crossarm. A planned substation improvement project upgraded equipment at the substation. Planned vegetation management projects trimmed trees and brush from several key portions of the feeder.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ -	$ -	
Planned Vegetation Management	$ 22,000	$ 34,000	$ 1,000	
Planned Distribution Automation	$ -	$ -	$ 8,000	$ 110,000
Planned Distribution System Improvement	$ -	$ -	$ -	
Planned Substation System Improvement	$ 26,000	$ -	$ 19,000	
Reactive Feeder Maintenance	$ -	$ -	$ -	$ 2,000
Reactive Vegetation Management	$ -	$ 2,000	$ -	
			TOTAL	$ 112,000

v. A planned distribution automation project is scheduled to be performed that will replace 12,500 feet (2.37 miles) of the existing mainline from the substation with new poles and

fiberglass crossarms to help with reliability issues with both FRNKS4168 and FRNKS1202. This job is to rebuild the mainline where there are older poles and facilities on a part of the feeder.

x. GASLD4211 (Gasland Sub)

i. This feeder is 66.5 miles long and currently serves 88 customers in rural west Texas. The nearest service center is about 48.2 miles away. The customers are almost all oil and gas field-related. The terrain is low scrub brush and desert sands with limited paved road access and low vegetation density.

ii. This feeder violation was due to SAIDI (1-Year). In 2022, events in April, July, August, and September accounted for 55% of the SAIDI values. In April and August, localized storms with winds gusting up to 30 miles per hour caused an outage, accounting for 33% of the SAIDI value. In July, a boom truck made contact with overhead wire causing an outage that, accounted for 22% of the SAIDI value.

iii. In 2020, a distribution automation project replaced a single operation line fuse with a remotely operated vacuum closing fuse at a key point on the feeder. After patrols of the feeder, a feeder maintenance project replaced a wood pole and crossarm that were deteriorated. In 2021, a planned substation system improvement project improved communications with SCADA enabled controls for better communication with the substation. In 2022, a planned distribution system improvement project replaced 15,000 (2.84 miles) of the overhead mainline wire with stronger conductor, and replaced forty-three (43) deteriorated wood poles with stronger, new poles and fiberglass crossarms, and installed forty-one (41) wood poles as needed to facilitate the reconductor of the line. In 2022, a planned substation improvement project replaced failing or aged batteries at the substation for better performance and reliability. Proactive vegetation management projects were completed on this feeder in 2019.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ -	$ -	$ 1,095,000
Planned Vegetation Management	$ -	$ -	$ -	
Planned Distribution Automation	$ 21,000	$ -	$ -	
Planned Distribution System Improvement	$ -	$ -	$ 990,000	
Planned Substation System Improvement	$ -	$ 64,000	$ 20,000	
Reactive Feeder Maintenance	$ 10,000	$ -	$ -	$ 10,000
Reactive Vegetation Management	$ -	$ -	$ -	
		TOTAL		$ 1,105,000

v. A planned substation improvement project is being considered to add a new transformer, breaker, and a new feeder to the Gasland substation to help alleviate the load for GASLD4211. When this job is completed, it will provide redundancies to help mitigate loading and to provide backup for power in the event of an outage. In addition, further distribution system improvement projects will replace an approximately 15,000 feet (2.84 miles) of the overhead mainline conductor with associated pole and crossarm work to better serve new load on the feeder.

y. KYSTN1011 (Keystone)

i. This entirely overhead feeder is 66.5 miles long and currently serves 114 customers in rural West Texas. The nearest service center is about 55 miles away. There is sixteen (16) residential customers on this feeder, with the remaining customers being commercial non-residential. The terrain is low scrub brush and desert sands with limited paved road access and low desert vegetation density.

ii. This feeder's violations were due to SAIDI (1-Year) In February, June, and November, localized storm conditions where wind gusts of up to 25 miles per hour caused conductor to make contact phase to phase. These events accounted for 70% of the SAIDI values.

iii. In 2020, a planned distribution system improvement project rebuilt 19,200 feet (3.64 miles) of conductor to 795, installed fifty-seven (57) new poles, replaced four (4) poles, installed a recloser, and a reclosing fuse. In planned distribution system improvement project rebuilt 14,000 feet (2.65 miles) of overhead mainline wire, installing seventy-four

(74) new poles, and three (3) voltage regulators. Planned substation system improvement jobs helped to establish new distribution to accommodate Shifting Sands Substation, which is due to be completed in the next few years. This new substation will help to alleviate load off of Keystone Substation. In 2022, this feeder had a reconductor completed with sixteen thousand feet being upgraded to large conductor, installation of eighty-eight (88) new wood poles, and additional voltage regulators. A planned substation system improvement project installed new batteries at the substation for improved reliability. Proactive vegetation management projects were completed on this feeder in 2019.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ -	$ -	$ 8,542,000
Planned Vegetation Management	$ -	$ -	$ -	
Planned Distribution Automation	$ -	$ -	$ -	
Planned Distribution System Improvement	$ 794,000	$ 1,454,000	$ 1,728,000	
Planned Substation System Improvement	$ -	$ 4,549,000	$ 17,000	
Reactive Feeder Maintenance	$ 43,000	$ -	$ -	$ 43,000
Reactive Vegetation Management	$ -	$ -	$ -	
		TOTAL		$ 8,585,000

v. There is a planned project for this feeder to be converted from 15 kV to 25 kV. To accomplish this effort, thirteen (13) miles of the feeder will need to be upgraded. It is planned to install or upgrade roughly three hundred (300) wood poles, and twenty-nine (29) transformers, and one (1) auto transformer. This feeder's performance will constantly be monitored through different tools and reliability programs. As we monitor trends and customer impacts, this feeder will be analyzed for potential expedited overhead maintenance, automation, and protection upgrades.

z. KRNCH9021 (Kyle Ranch)

i. This feeder is 15.9 miles long and currently serves 13 customers in rural west Texas. The nearest service center is about 114.0 miles away. The customers are almost all oil and gas field-related. The terrain is low scrub brush and desert sands with limited paved road

access and low vegetation density.

ii. The feeder violation was due to SAIDI (1-Year). On one day in November of 2022, an event where poles caught fire during a storm caused two poles to burn and the overhead wire to burn down. This accounted for 83% of the SAIDI value. The long distance of this feeder and substation from the nearest service center is a contributing factor to the length of the feeder outages.

iii. In 2021, a planned distribution system improvement project rebuilt 500 feet (.1 miles) of the overhead line, and replaced four (4) older poles with new poles and fiberglass crossarms. A separate planned improvement project installed approximately 7,000 feet (1.32 miles) of the overhead mainline conductor, and replaced or installed sixty-seven (67) new wood poles with fiberglass crossarms to help facilitate a new back stand connection with the Alcatraz substation. In 2022, a planned distribution system improvement project replaced 3,000 feet (.57 miles) of the overhead mainline conductor to form a double circuit for better reliability and to handle increased load.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ -	$ -	
Planned Vegetation Management	$ -	$ -	$ -	
Planned Distribution Automation	$ -	$ -	$ -	$ 751,000
Planned Distribution System Improvement	$ -	$ 658,000	$ 93,000	
Planned Substation System Improvement	$ -	$ -	$ -	
Reactive Feeder Maintenance	$ -	$ -	$ -	$ -
Reactive Vegetation Management	$ -	$ -	$ -	
		TOTAL		$ 751,000

v. At this location, there is further work being done to improve the relaying and communications at the substation. In addition, there is a distribution system improvement project being considered to help reliability between the Kyle Ranch substation and El Mar and Alcatraz substations. Further patrols of the feeder are being evaluated and possibly recommended as the year continues.

aa. MKNNY1251 (McKinney)

i. This feeder is 107.5 miles long and currently serves 4,310 customers in the Dallas/Fort Worth Metroplex. The overhead portion of this feeder is 72.2 miles long, and the underground portion is 35.3 miles long. The terrain is moderately tree lined and is in an urban area with low vegetation density.

ii. This feeder violation was due to SAIDI (1-Year) and SAIFI (1-Year). In 2022, four localized storm events in, April, May, September, and October accounted for 84% of the SAIDI values, and 73% of the SAIFI values. In June, a public worker dug into conduit at a work zone, striking the underground conductor and causing an outage that accounted for 5% of the SAIDI and 9% of the SAIFI values.

iii. In 2020, a planned distribution system improvement project installed wood poles with fiberglass crossarms along with 6,600 feet (1.25 miles) of overhead mainline three phase wire to help close the loop between extensions of the feeder. This project allowed for better switching, isolation and response times to outages by installing redundancies in the system. After patrols of the feeder, two reactive feeder maintenance projects replaced three (3) badly leaning and deteriorated wood poles with newer stronger poles and fiberglass crossarms at key locations on the feeder. Reactive vegetation management projects were issued after patrols of the feeder. In 2021, four separate panned distribution system improvement projects rebuilt approximately 17,800 feet (3.38 miles) of the overhead wire, replacing one hundred ten (110) poles and installing fiberglass crossarms, installing an air brake switch, replacing three (3) single operation line fuses with remote operation vacuum reclosing devices, and transferring all equipment as required. Reactive vegetation management jobs were performed along the feeder in key locations. In 2022, planned distribution system improvement projects were completed in order to account for added load on the system and to help establish a new substation that will alleviate load on this feeder and provide additional back up capability. This included the rebuild of approximately 40,700 feet (7.7 miles) of the existing overhead mainline conductor, and replacing seventy-seven (77) wood poles and upgraded to fiberglass crossarms. It also included the installation of eight (8) new wood poles and three (3) new concrete poles. After patrols of the feeder, a deteriorated wood pole was replaced at a key location on the feeder. Planned vegetation management projects trimmed trees and brush from

approximately 76.7 miles of the feeder at various locations, and reactive vegetation management projects were performed to clear right-of-way along the feeder.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ -	$ -	$ 4,307,000
Planned Vegetation Management	$ -	$ -	$ 1,341,000	
Planned Distribution Automation	$ -	$ -	$ -	
Planned Distribution System Improvement	$ 298,000	$ 709,000	$ 1,959,000	
Planned Substation System Improvement	$ -	$ -	$ -	
Reactive Feeder Maintenance	$ 19,000	$ -	$ 3,000	$ 86,000
Reactive Vegetation Management	$ 5,000	$ 12,000	$ 47,000	
		TOTAL		$ 4,393,000

v. At this location, there is further work being done to improve the relaying and communications at the substation. In addition, there is consideration for the approval of a new substation that will take load off of this substation, including load from this feeder and provide improved back up capability. Further patrols of the feeder are being evaluated and possibly recommended as the year continues.

bb. MEANS4421 (Means)

i. This feeder is 19.33 miles long and currently serves 45 customers in rural West Texas. The nearest service center is about 50.9 miles away. The customers are almost all oil and gas field-related. The terrain is low scrub brush and desert sands with limited paved road access and low vegetation density.

ii. This feeder violation was due to SAIDI (1-Year). In August of 2022, a thunderstorm with wind gusts as high as 50 miles per hour caused an outage which accounted for 90% of the SAIDI value.

iii. In 2020, a planned distribution automation project upgraded vacuum reclosing fused with a new vacuum recloser equipped with SCADA for remote monitoring and control. A patrol after an adverse weather event initiated a reactive maintenance project to replace two (2) damaged poles. In 2021, a planned substation system improvement project increased the voltage at the substation, and a distribution project was created from this to

upgrade transformers and equipment along the feeder to facilitate the change. In 2022, planned substation system improvement projects installed new communications at the feeder to allow for greater reliability. Proactive vegetation management projects were completed in 2019 and 2020.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ -	$ -	$ 1,858,000
Planned Vegetation Management	$ -	$ -	$ -	
Planned Distribution Automation	$ 109,000	$ -	$ -	
Planned Distribution System Improvement	$ -	$ -	$ -	
Planned Substation System Improvement	$ -	$ 1,627,000	$ 122,000	
Reactive Feeder Maintenance	$ 21,000	$ -	$ -	$ 21,000
Reactive Vegetation Management	$ -	$ -	$ -	
		TOTAL		**$ 1,879,000**

v. This feeder's performance will constantly be monitored through different tools and reliability programs. As we monitor trends and customer impacts, this feeder will be analyzed for potential expedited overhead maintenance, automation, and protection upgrades.

cc. MNHNS1922 (Monahans)

i. This feeder is 38.3 miles long and currently serves 94 customers in rural west Texas. The terrain is low scrub brush and desert sands with limited paved road access and low vegetation density.

ii. This feeder violation was due to SAIDI (1-Year). In 2022, three localized storm events in April, July, and September accounted for 41% of the SAIDI values on the feeder. In October, a public vehicle struck an Oncor pole and caused an outage that accounted for 38% of the SAIDI value on the feeder.

iii. In 2020, a planned distribution system improvement project replaced approximately 10,300 feet (1.95 miles) of the overhead mainline conductor with newer wire in shielded construction to help lightning protection on this portion of the feeder. This included the installation of fifty-three (53) new wood poles with fiberglass crossarms, the replacement

of twenty-three (23) older poles, and other materials as required. After patrols of the feeder, thirteen (13) older, deteriorated wood poles were replaced with new poles in key portions of the feeder. Planned substation system improvement projects were implemented to replace bushings and equipment for transformers in the substation yard. In 2022, a broken wood pole was replaced after patrols of the feeder. Proactive vegetation management projects were completed on this feeder in 2019.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ -	$ -	
Planned Vegetation Management	$ -	$ -	$ -	
Planned Distribution Automation	$ -	$ -	$ -	$ 793,000
Planned Distribution System Improvement	$ 720,000	$ -	$ -	
Planned Substation System Improvement	$ -	$ 73,000	$ -	
Reactive Feeder Maintenance	$ 83,000	$ -	$ 8,000	$ 91,000
Reactive Vegetation Management	$ -	$ -	$ -	
		TOTAL		$ 884,000

v. At this location, there is further work being done to improve the relaying and communications at the substation. In addition, there are plans to have portions of this feeder evaluated for review of older facilities that might need to be replaced, as well as possible maintenance projects that account for strong winds. Further patrols of the feeder are being evaluated and possibly recommended as the year continues.

dd. MDRAW8211 (Monument Draw)

i. This feeder is 54.2 miles long and currently serves 120 customers in rural west Texas. The nearest service center is about 17.8 miles away. The customers are almost all oil and gas field-related. The terrain is low scrub brush and desert sands with limited paved road access and low vegetation density.

ii. This feeder violation was due to SAIDI (1-Year). In 2022, two localized storm events in May and July accounted for 95% of the SAIDI values on this feeder

iii. In 2020, Monument Draw Substation was established to help alleviate high load conditions in this portion of the service territory. Reactive feeder maintenance jobs

replaced two (2) wood poles and one older crossarm with new poles and a fiberglass crossarm after patrols of the feeder. This substation was established in the same year to serve existing and future load in this rural area of west Texas and provide enhanced back stand capability. Proactive vegetation management projects for this feeder were completed in 2019 and 2020.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ 17,000	$ -	$ -	$4,071,000
Planned Vegetation Management	$ -	$ -	$ -	
Planned Distribution Automation	$ -	$ -	$ -	
Planned Distribution System Improvement	$ -	$ -	$ -	
Planned Substation System Improvement	$4,054,000	$ -	$ -	
Reactive Feeder Maintenance	$ -	$ -	$ -	$ -
Reactive Vegetation Management	$ -	$ -	$ -	
		TOTAL		$4,071,000

v. At this location, there is a planned feeder maintenance project that will replace eleven (11) deteriorated poles with new poles, and a broken crossarm with a new fiberglass crossarm. In addition, there are plans to have portions of this feeder evaluated for review of older facilities that might need to be replaced. Further patrols of the feeder are being evaluated and possibly recommended as the year continues.

ee. NIPAK1001 (Nipak)

i. This feeder is 31.4 miles long and currently serves 134 customers in rural Northeast-Central Texas. The terrain is sandy soils with areas of tall trees.

ii. This feeder violation was due to SAIDI (1-Year). In 2022, four localized storm events in April, October, November, and December accounted for 45% of the total SAIDI values for this feeder.

iii. In 2020, reactive maintenance projects replaced deteriorated poles and facilities at multiple locations on the feeder. Planned vegetation management projects were performed along approximately 31.1 miles of the feeder, and reactive vegetation management was performed after patrols of the feeder. Reactive vegetation management

projects were performed after storm damage in the area along key portions of the feeder. In 2022, a planned substation system improvement project was completed. This project included replacing a failed feeder breaker and associated facilities. A planned vegetation management project performed right-of-way maintenance and various reactive vegetation management projects were also completed.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ -	$ -	
Planned Vegetation Management	$ 4,000	$ -	$ 31,000	
Planned Distribution Automation	$ -	$ -	$ -	$ 86,000
Planned Distribution System Improvement	$ -	$ -	$ -	
Planned Substation System Improvement	$ -	$ -	$ 51,000	
Reactive Feeder Maintenance	$ 44,000	$ -	$ -	$ 232,000
Reactive Vegetation Management	$ 4,000	$ 179,000	$ 5,000	
		TOTAL		$ 318,000

v. This feeder has historically been a good performing feeder. However, this feeder will continue to be monitored and evaluated during the year for additional opportunities to improve reliability.

ff. NCWDN1121 (North Cowden)

i. This feeder is 48.1 miles long and currently serves 46 customers in rural West Texas. The terrain is low scrub brush and desert sands with limited paved road access.

ii. This feeder violation was due to SAIDI (1-Year). In 2022 there were two separate events that accounted for 94% of the SAIDI totals for this feeder. In February, a public vehicle made contact with Oncor facilities, causing 60% of the SAIDI values. In August, a thunderstorm with wind gusts as high as 30 miles per hour and heavy lightning went through the area of the feeder, causing outages which account for 34% of the SAIDI values.

iii. In 2020, a reactive feeder maintenance project replaced a deteriorated wood pole with a new wood pole and fiberglass crossarms. In 2021, a planned substation system improvement was completed. Additionally, a reactive feeder maintenance project

replaced two (2) damaged voltage regulators. In 2022, a planned substation system improvement project upgraded communications and SCADA equipment at the substation. Proactive vegetation management projects were completed in 2019.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ -	$ -	
Planned Vegetation Management	$ -	$ -	$ -	
Planned Distribution Automation	$ -	$ -	$ -	$ 56,000
Planned Distribution System Improvement	$ -	$ -	$ -	
Planned Substation System Improvement	$ -	$ 4,000	$ 52,000	
Reactive Feeder Maintenance	$ 21,000	$ 8,000	$ -	$ 29,000
Reactive Vegetation Management	$ -	$ -	$ -	
		TOTAL		$ 85,000

v. The major outage event in 2022 was caused by an act of public (vehicle hitting poles). No actionable items have been identified for 2023. The feeder will continue to be monitored and evaluated during the year for additional opportunities to improve reliability.

gg. TYLNW1910 (Northwest Tyler)

i. This feeder is 33 miles long and currently serves 739 customers in rural East Texas. The terrain is pine forests with trees greater than 100 feet tall in loose sandy soils and high vegetation density.

ii. This feeder violation was due to SAIDI (1-Year). In 2022, three separate localized storm events in March and May caused outages accounting for 78% of the SAIDI value.

iii. In 2020, a reactive maintenance project initiated after a patrol of the feeder replaced one (1) deteriorated pole. Reactive vegetation management projects were performed in key portions of the feeder. In 2021, a reactive maintenance project removed idle facilities identified during feeder patrols. Reactive vegetation management projects were performed after patrols of the feeder. In 2022, a planned distribution automation project relocated one existing vacuum recloser to a key location on the feeder to improve outage sectionalizing. This project also reconductored about 3,200 feet (0.6 miles) of the existing

feeder with larger wire, and installed nineteen (19) new poles. A feeder maintenance project replaced twenty nine (29) crossarms, two (2) down guys and four (4) deteriorated poles. A reactive maintenance project removed idle facilities identified during feeder patrols. Proactive vegetation management projects were completed in 2018.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ -	$ 1,000	
Planned Vegetation Management	$ -	$ -	$ -	
Planned Distribution Automation	$ -	$ -	$ 218,000	$ 219,000
Planned Distribution System Improvement	$ -	$ -	$ -	
Planned Substation System Improvement	$ -	$ -	$ -	
Reactive Feeder Maintenance	$ 3,000	$ 2,000	$ -	$ 14,000
Reactive Vegetation Management	$ 4,000	$ 2,000	$ 3,000	
		TOTAL		$ 233,000

v. There is a planned vegetation management project that will inspect up to 13.1 miles of the mainline feeder to clear trees and brush from overhead equipment and facilities. This feeder's performance will constantly be monitored through different tools and reliability programs. As we monitor trends and customer impacts, this feeder will be analyzed for potential expedited overhead maintenance, automation, and protection upgrades.

hh. PGSTH7012 (Pegasus)

i. This feeder is 28.1 miles long and currently serves 227 customers in rural West Texas. The customers are almost all oil and gas field-related. The terrain is low scrub brush and desert sands with limited paved road access and low vegetation density.

ii. This feeder violation was due to SAIDI (1-Year). In 2022, 98% of the SAIDI value for this feeder were the result of six broken poles during an isolated storm event in May. In 2021, this feeder was only a poor performer due to a single regulator failure during an adverse weather event.

iii. In 2021, a planned feeder maintenance project was complete to install one (1) capacitor bank. Proactive vegetation management projects were completed on this feeder in 2019.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ 6,000	$ -	
Planned Vegetation Management	$ -	$ -	$ -	
Planned Distribution Automation	$ -	$ -	$ -	$ 6,000
Planned Distribution System Improvement	$ -	$ -	$ -	
Planned Substation System Improvement	$ -	$ -	$ -	
Reactive Feeder Maintenance	$ -	$ -	$ -	$ -
Reactive Vegetation Management	$ -	$ -	$ -	
		TOTAL		**$ 6,000**

v. This feeder's performance will constantly be monitored through different tools and reliability programs. As we monitor trends and customer impacts, this feeder will be analyzed for potential expedited overhead maintenance, automation, and protection upgrades.

ii. PLOWB2911 (Plowboy)

i. This feeder is 34.6 miles long and currently serves 326 customers in rural West Texas. The terrain is low scrub brush and desert sands with limited paved road access.

ii. This feeder violation was due to SAIDI (1-Year). In January of 2022, a localized storm caused an outage which contributed 7% of the annual SAIDI value. In June, a public vehicle struck a pole causing an outage which accounted for 72% of the feeder's annual SAIDI value.

iii. In 2021, reactive maintenance projects replaced deteriorated poles and facilities at multiple locations on the feeder. In 2022, a planned feeder maintenance project replaced three (3) poles and associated crossarms as well as installed several hundred feet of new conductor. A reactive maintenance project also replaced one (1) pole and crossarm on the feeder. Proactive vegetation management projects were completed on this feeder in 2019.

iv. The spend amounts for work on this feeder in years 2020 to 2021 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ -	$ 33,000	
Planned Vegetation Management	$ -	$ -	$ -	
Planned Distribution Automation	$ -	$ -	$ -	$ 33,000
Planned Distribution System Improvement	$ -	$ -	$ -	
Planned Substation System Improvement	$ -	$ -	$ -	
Reactive Feeder Maintenance	$ -	$ 36,000	$ 19,000	$ 55,000
Reactive Vegetation Management	$ -	$ -	$ -	
		TOTAL		$ 88,000

v. A feeder patrol is currently planned to inspect about 9 miles of the feeder. A planned feeder maintenance project based on the patrol findings will be scheduled once completed. The feeder will continue to be monitored and evaluated during the year for additional opportunities to improve reliability.

jj. RGLRW0004 (Regal Row)

i. This feeder is 4.0 miles long and currently serves 81 customers in rural portions of the Dallas/ Fort Worth Metroplex. The terrain is rolling hills with moderate vegetation and mixed residential and commercial development.

ii. This feeder violation was due to SAIDI (1-Year) and SAIFI (1-Year). In 2022, two localized storms with heavy rain and lightning rolled through the area of the substation causing outages accounting for 86% of the SAIDI and 79% of the SAIFI values.

iii. In 2020, a planned substation improvement project replaced bushings on the transformers in the substation yard. In 2021, a planned feeder maintenance project inspected or treated approximately one hundred sixty-nine (169) wood poles on the system. This included truss work to reinforce wood poles to extend their life, or total replacement of the poles. In 2022, twenty (20) wood poles were identified for truss work on planned feeder maintenance projects. A planned substation improvement project installed new equipment at the substation. Proactive vegetation management projects were completed on this feeder in 2020.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ 10,000	$ 18,000	$ 93,000
Planned Vegetation Management	$ -	$ -	$ -	
Planned Distribution Automation	$ -	$ -	$ -	
Planned Distribution System Improvement	$ -	$ -	$ -	
Planned Substation System Improvement	$ 41,000	$ -	$ 24,000	
Reactive Feeder Maintenance	$ -	$ -	$ -	$ -
Reactive Vegetation Management	$ -	$ -	$ -	
		TOTAL		$ 93,000

v. There is a planned feeder maintenance project that will replace three (3) wood poles and ten (10) crossarms at key points of the feeder. The Regal Row substation is a historically good performing feeder, and will be evaluated through the year for possible improvements and maintenance.

kk. SBEAN6021 (Screwbean)

i. This feeder is 16.9 miles long and currently serves 25 customers in rural west Texas. The nearest service center is about 121.9 miles away. The customers are almost all oil and gas field-related. The terrain is low scrub brush and desert sands with limited paved road access and low vegetation density.

ii. This feeder violation was due to SAIDI (1-Year). In 2022, two localized storm events in July and August accounted for 89% of the SAIDI value.

iii. In 2020, a planned distribution system improvement project rebuild approximately 26,500 feet (5.0 miles) of the overhead mainline portions of the feeder with larger conductor. This included the replacement of thirty-seven (37) wood poles and installation of one hundred ten (110) new wood poles and fiberglass crossarms. Planned substation improvement projects rebuilt portions of the feeder exit and the transmission line in order to better sectionalize portions of the feeder. In 2021, another planned distribution system improvement project rebuilt approximately 10,000 feet (1.9 miles) of the overhead mainline. This included the replacement of sixty-two (62) wood poles and the installation of two new air brake switches. In 2022, a planned substation system

improvement project installed new communications equipment with SCADA capabilities in order to improve reliability at the substation. Proactive vegetation management projects were completed on this feeder in 2019.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ -	$ -	$ 6,937,000
Planned Vegetation Management	$ -	$ -	$ -	
Planned Distribution Automation	$ -	$ -	$ -	
Planned Distribution System Improvement	$ 3,399,000	$ 580,000		
Planned Substation System Improvement	$ 2,937,000	$ -	$ 21,000	
Reactive Feeder Maintenance	$ -	$ -	$ -	$ -
Reactive Vegetation Management	$ -	$ -	$ -	
		TOTAL		$ 6,937,000

v. At this location, there are plans to have portions of this feeder evaluated for review of older facilities that might need to be replaced. Further patrols of the feeder are being evaluated and possibly recommended as the year continues.

ll. SBEAN6022 (Screwbean)

i. This feeder is 28.8 miles long and currently serves 49 customers in rural west Texas. The nearest service center is about 121.9 miles away. The customers are almost all oil and gas field-related. The terrain is low scrub brush and desert sands with limited paved road access and low vegetation density.

ii. This feeder violation was due to SAIDI (1-Year). In June of 2022, a localized storm rolled through the area of this feeder causing an outage accounting for 83% of the SAIDI values on this feeder.

iii. In 2020, planned distribution system improvement projects rebuilt approximately 16,300 feet (3.08 miles) of the overhead mainline three phase line with stronger conductor, replacing sixteen (16) wood poles and crossarms, and installing sixty-seven (67) new wood poles with fiberglass crossarms, and two (2) concrete poles with associated crossarms. A separate distribution system improvement project installed a new feeder exit, accounting for a new wood pole with fiberglass crossarms and

replacing two (2) wood poles while transferring crossarms and a transformer bank. Planned substation improvement projects rebuilt portions of the feeder exit and the transmission line in order to better sectionalize portions of the feeder. In 2022, a damaged regulator was replaced on a reactive feeder maintenance project. In addition, a planned substation system improvement project installed new communications equipment with SCADA capabilities in order to improve reliability at the substation.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ -	$ -	$4,781,000
Planned Vegetation Management	$ -	$ -	$ -	
Planned Distribution Automation	$ -	$ -	$ -	
Planned Distribution System Improvement	$1,823,000	$ -	$ -	
Planned Substation System Improvement	$2,937,000	$ -	$ 21,000	
Reactive Feeder Maintenance	$ -	$ -	$ 3,000	$ 3,000
Reactive Vegetation Management	$ -	$ -	$ -	
		TOTAL		$4,784,000

v. At this location, there are plans to have portions of this feeder evaluated for review of older facilities that might need to be replaced. Further patrols of the feeder are being evaluated and possibly recommended as the year continues.

mm. SWAN21803 (Swan-2)

i. This feeder is 80.9 miles long and currently serves 1,389 customers in rural East Texas. The terrain is pine forests with tall trees in loose sandy soils with high vegetation density.

ii. This feeder violation was due to SAIDI (1-Year). In 2022, two localized storm events in April and May accounted for a total of 49% of the SAIDI and 48% of the SAIFI annual values. In October, a wildlife caused event accounted for 30% of the SAIDI and 30% of the SAIFI annual values.

iii. In 2020, multiple reactive feeder maintenance projects replaced ten (10) wood poles with associated materials after patrols of the feeder. Planned and reactive vegetation management projects sprayed approximately 79.6 miles of the feeder in order to discourage growth on poles and equipment. In 2021, a planned feeder maintenance

project replaced one (1) wood pole, sixty (60) feet of overhead wire, and upgraded a reclosing device to allow for remote operations. Planned and reactive vegetation management projects were performed after patrols of the feeder. In 2022, planned feeder maintenance projects replaced three (3) deteriorated wood poles and thirty-nine (39) crossarms at key locations on the feeder. Two separate planned distribution automation projects replaced approximately 8,200 feet (1.56 miles) of overhead wire, one reclosing device, and installed thirty-three (33) wood poles with associated materials. Planned and reactive vegetation management projects were performed on key portions of the feeder. Proactive vegetation management projects were completed on this feeder in 2019.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ -	$ 53,000	$ 32,000	
Planned Vegetation Management	$ 8,000	$ 1,000	$ 8,000	
Planned Distribution Automation	$ -	$ -	$ 276,000	$ 454,000
Planned Distribution System Improvement	$ -	$ -	$ -	
Planned Substation System Improvement	$ -	$ -	$ 76,000	
Reactive Feeder Maintenance	$ 55,000	$ -	$ -	$ 65,000
Reactive Vegetation Management	$ 2,000	$ 1,000	$ 7,000	
		TOTAL		$ 519,000

v. A planned substation system improvement project is being considered to provide automation of switches at the feeder for improved reliability. The feeder will continue to be monitored and evaluated during the year for additional opportunities to improve reliability.

nn. IRVNR1553 (North Irving)

i. This feeder is 15.37 miles long and currently serves 1,658 customers in the Dallas/Fort Worth Metroplex. The overhead portion of this feeder is .12 miles long, and the underground portion is 15.25 miles long. The terrain is moderately tree lined with low vegetation density and is in an urban area.

ii. This feeder violation was due to SAIFI (1-Year). One mainline primary underground cable fault event in July of 2022, caused an extended outage on the feeder, which

accounted for 93% of the SAIFI values on this feeder. The extended duration was the result of the difficulty in manually troubleshooting outages on underground systems in urban areas.

iii. In 2020, a planned feeder maintenance project replaced approximately 600 feet (.11 miles) of the underground wire at a key location of the feeder. After patrols of the feeder, reactive maintenance projects replaced two (2) switchgears after severe weather events, and one (1) switchgear after a public vehicle stuck the facilities. In 2021, a planned feeder maintenance project replaced approximately 400 feet (.08 miles) of the underground wire at a key location of the feeder. A reactive maintenance project replaced a damaged switchgear. Proactive vegetation management projects were completed on this feeder in 2019.

iv. The spend amounts for work on this feeder in years 2020 to 2022 is summarized by project category in the table below:

Project Category	2020	2021	2022	Subtotals
Planned Feeder Maintenance	$ 63,000	$ 28,000	$ -	
Planned Vegetation Management	$ -	$ -	$ -	
Planned Distribution Automation	$ -	$ -	$ -	$ 91,000
Planned Distribution System Improvement	$ -	$ -	$ -	
Planned Substation System Improvement	$ -	$ -	$ -	
Reactive Feeder Maintenance	$ 92,000	$ 23,000	$ -	$ 115,000
Reactive Vegetation Management	$ -	$ -	$ -	
		TOTAL		$ 206,000

v. At this location, there is further work being done to improve the relaying and communications at the substation. This feeder in years previous has been a good performing feeder, and further patrols of the feeder are being evaluated and possibly recommended as the year continues.

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