



An *EDISON INTERNATIONAL*® Company

ANNUAL ELECTRIC RELIABILITY REPORT

For Year 2022

**PREPARED FOR THE CALIFORNIA PUBLIC
UTILITIES COMMISSION**

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EXECUTIVE SUMMARY

The reliability information contained in this report is for calendar year 2022, as required by California Public Utilities Commission (CPUC, or Commission) Decision 16-01-008. The data includes all outages (planned and unplanned) for distribution customers including and excluding Major Event Days (MEDs). Within this report, SCE explicitly notes whether data (e.g., MEDs, PSPS) has been excluded.

Unplanned outages, and their calculated reliability indices, are captured and calculated from the Outage Database and Reliability Metrics (ODRM) system.

As described in detail below, two metrics that are commonly relied on and reported in the electric utility industry are the System Average Interruption Duration Index (SAIDI) and the System Average Interruption Frequency Index (SAIFI). SAIDI measures the amount of time the average SCE customer experienced a power outage or interruption for more than five minutes (called a “sustained outage”) during a given year (MEDs excluded). SAIFI is the number of times the average SCE customer experienced a sustained outage during a given year (MEDs excluded).

Beginning in 2016, SCE provided planned outage reliability indices for the Annual Reliability Report; 2016 was the first year where the entire year’s planned outage information was available. Since calendar year 2021, SCE has been unable to provide planned outage data metrics due to IT system implementation issues. While we continue to enhance and refine our capabilities in the areas of planned outage reporting, SCE has created an interim planned outage metric report that will be used while SCE finalizes IT related projects and/or system updates that will allow proper disaggregation of planned outage data. The interim report is only provided for years 2020-2022 while SCE finishes enhancements related to the ongoing IT project.

The following content contained in this report is based on reliability indicators, definitions and calculations as defined below.

Major Event Day: A day in which the daily system SAIDI exceeds a threshold value. For purposes of calculating daily system SAIDI, any interruption that spans multiple calendar days is accrued to the day on which the interruption began. Statistically, days having a daily system SAIDI greater than a threshold value are days on which the energy delivery system experienced stresses beyond that normally expected (such as severe weather). Events are excluded based on the “2.5 beta method.” Per IEEE Standard 1366, days are excluded from a given year’s metric if their SAIDI exceeds 2.5 times the standard deviation of the natural logarithm of daily SAIDI over the previous five-year period.

ODRM: Outage Database and Reliability Metrics.

OMS: Outage Management System.

Sustained Interruption: Outage lasting longer than 5 minutes as defined in IEEE std. 1366-2003.

Momentary Interruption: Outage lasting 5 minutes or less as defined in IEEE std. 1366-2003.

SAIDI: The System Average Interruption Duration Index is the amount of time on average a customer was without power in a year due to sustained interruptions (measured in minutes per customer).

$$\text{SAIDI} = \frac{\text{sum of all "sustained" customer interruption durations}}{\text{total number of customers served}}$$

SAIFI: The System Average Interruption Frequency Index is the number of times an average customer was without power in a year due to service interruptions lasting more than 5 minutes (measured in interruptions per customer).

$$\text{SAIFI} = \frac{\text{sum of total quantity of "sustained" customer interruptions}}{\text{total number of customers served}}$$

MAIFI: The Momentary Average Interruption Frequency Index is the number of times an average customer was without power in a year due to service interruptions lasting 5 minutes or less (measured in interruptions per customer).

$$\text{MAIFI} = \frac{\text{sum of total quantity of "momentary" customer interruptions}}{\text{total number of customers served}}$$

CAIDI: The average time required to restore service for a sustained outage.

$$\text{CAIDI} = \frac{\text{sum of total quantity of "momentary" customer interruptions}}{\text{total number of customers interrupted}}$$

T_{MED}: The calculated threshold value used to determine a Major Event Day. SCE's T_{MED} value is calculated at the beginning of each year using SCE's daily SAIDI values for the prior 5 years. SCE's T_{MED} value for 2022 was 2.15 min.

SCE 2022 Performance Summary

SCE's 2022 overall reliability performance remains relatively similar to 2021. To promote system reliability and customer experience, SCE is proposing to return to historical levels of traditional infrastructure replacement work as requested in SCE's 2025 GRC A.23-.05-010.

SCE continuously looks for ways to improve reliability performance such as reducing restoration times by improving processes for operational response, lessening customer impact through real-time outage diagnostics, replacing aging and poorly performing infrastructure, installing new equipment such as covered conductor in our high fire risk areas, and enhancing circuitry via automation and equipment that identifies the faulted location and improves both isolation and restoration.

The table below summarizes SCE's 2022 performance for unplanned outages including and excluding MEDs. The table also consists of a 10-year average performance for unplanned outages including and excluding MEDs for comparison.

| YEAR | Total System Indices (All Interruptions Included) | | | | Total System Indices (Major Event Days Excluded) | | | |
|-------------------------|---|-------|-------|--------|--|-------|-------|--------|
| | SAIDI | SAIFI | MAIFI | CAIDI | SAIDI | SAIFI | MAIFI | CAIDI |
| 2022 | 131.13 | 1.08 | 1.42 | 121.45 | 101.03 | 0.96 | 1.23 | 104.83 |
| 10 Year Avg (2013-2022) | 143.09 | 1.02 | 1.45 | 139.67 | 94.70 | 0.88 | 1.29 | 107.20 |

SCE implements proactive de-energization known as Public Safety Power Shutoff (PSPS). PSPS is an operational protocol that SCE implements under extreme weather conditions in order to minimize the threat of wildfires and keep communities safe from potentially dangerous situations. During 2022, there were fewer PSPS events that required de-energization of one or more circuits than prior years and SAIDI and SAIFI impact was smaller than prior years.

Within this report, SCE explicitly notes whether data (e.g., MEDs, PSPS) has been excluded. In certain tables and charts, PSPS will be included in the data where "All Interruptions" or "All Outages" are noted as included.

Total System Indices excluding MED and PSPS are shown in the below table.

| | | Total Unplanned Indices excluding MED and PSPS | | | |
|-------------|--------------|---|--------------|--------------|--|
| Year | SAIDI | SAIFI | MAIFI | CAIDI | |
| 2022 | 99.743 | 0.961 | 1.233 | 103.82 | |

In 2022, SCE experienced outage events across its service area, some of which impacted reliability to result in MEDs. In total, SCE had 5 MEDs. Please see the below summary table of Major Event Days.¹

| No. | Date | Event Cause | SAIDI | SAIFI | Sustained Customer Impacted | MAFI | Momentary Customer Impacted | Excluded per IEEE 1366 |
|-----|-----------|--|--------|-------|-----------------------------|-------|-----------------------------|------------------------|
| 1 | 1/21/2022 | WIND AND VEGETATION BLOWN OVERHEAD CONDUCTOR | 7.474 | 0.015 | 78,104 | 0.026 | 135,286 | Y |
| 2 | 1/22/2022 | WIND AND VEGETATION BLOWN OVERHEAD CONDUCTOR | 8.890 | 0.014 | 71,868 | 0.032 | 165,835 | Y |
| 3 | 6/22/2022 | LIGHTNING | 8.375 | 0.045 | 237,696 | 0.062 | 324,784 | Y |
| 4 | 9/9/2022 | OVERHEAD EQUIPMENT, VEGETATION BLOWN | 2.897 | 0.016 | 81,533 | 0.023 | 121,323 | Y |
| 5 | 11/8/2022 | UNKNOWN, CONDUCTOR/WIRE, VEGETATION BLOWN | 2.459 | 0.026 | 138,237 | 0.042 | 218,629 | Y |
| | Total | | 30.095 | 0.116 | 607,438 | 0.184 | 965,857 | |

¹ Not all PSPS de-energization events result in MEDs.

SECTION 1 – SYSTEM INDICES FOR THE LAST 10 YEARS

a. System Indices Tables

Table 1 below contains the required SAIDI, SAIFI, MAIFI² and CAIDI indices for 2013-2022 including and excluding MEDs for the SCE system unplanned outages. All calculations contained in Table 1 are based on the IEEE 1366 method for MEDs. Reliability indices are for unplanned outages only.

Table 1 – Unplanned Outage System Indices (2013-2022)

| YEAR | Total System Indices (All Interruptions Included) | | | | Total System Indices (Major Event Days Excluded) | | | |
|------|---|-------|-------|--------|--|-------|-------|--------|
| | SAIDI | SAIFI | MAIFI | CAIDI | SAIDI | SAIFI | MAIFI | CAIDI |
| 2013 | 102.61 | 0.91 | 1.20 | 112.76 | 94.49 | 0.88 | 1.18 | 107.85 |
| 2014 | 112.25 | 0.97 | 1.36 | 116.28 | 92.40 | 0.86 | 1.23 | 107.12 |
| 2015 | 114.83 | 0.92 | 1.42 | 125.40 | 100.15 | 0.86 | 1.29 | 116.56 |
| 2016 | 134.48 | 1.10 | 1.55 | 122.26 | 109.98 | 0.99 | 1.40 | 110.69 |
| 2017 | 139.73 | 1.19 | 1.84 | 117.19 | 91.72 | 0.87 | 1.42 | 105.40 |
| 2018 | 136.82 | 0.87 | 1.43 | 156.61 | 71.25 | 0.72 | 1.27 | 99.58 |
| 2019 | 177.97 | 1.04 | 1.38 | 171.17 | 90.75 | 0.87 | 1.23 | 104.75 |
| 2020 | 201.32 | 1.06 | 1.38 | 190.47 | 91.40 | 0.87 | 1.25 | 105.51 |
| 2021 | 179.79 | 1.11 | 1.57 | 161.70 | 103.82 | 0.96 | 1.43 | 108.10 |
| 2022 | 131.13 | 1.08 | 1.42 | 121.45 | 101.03 | 0.96 | 1.23 | 104.83 |

i. Distribution Indices³

Table 2 – Unplanned Outage Distribution Indices (2013-2022)

| YEAR | Distribution Indices (< 50KV) (All Interruptions Included) | | | | Distribution Indices (< 50KV) (Major Event Days Excluded) | | | |
|------|--|-------|-------|--------|---|-------|-------|--------|
| | SAIDI | SAIFI | MAIFI | CAIDI | SAIDI | SAIFI | MAIFI | CAIDI |
| 2013 | 94.33 | 0.86 | 1.14 | 109.27 | 92.52 | 0.85 | 1.12 | 108.46 |
| 2014 | 111.23 | 0.94 | 1.29 | 117.88 | 91.62 | 0.84 | 1.17 | 108.83 |
| 2015 | 111.87 | 0.88 | 1.35 | 127.54 | 98.34 | 0.83 | 1.24 | 118.88 |
| 2016 | 129.32 | 1.05 | 1.47 | 123.24 | 106.29 | 0.95 | 1.33 | 112.03 |
| 2017 | 128.74 | 0.99 | 1.56 | 130.69 | 89.99 | 0.84 | 1.37 | 106.71 |
| 2018 | 134.87 | 0.86 | 1.39 | 156.34 | 70.81 | 0.71 | 1.23 | 99.70 |
| 2019 | 170.30 | 1.01 | 1.32 | 169.33 | 89.33 | 0.85 | 1.18 | 105.37 |
| 2020 | 198.93 | 1.04 | 1.32 | 190.39 | 89.42 | 0.85 | 1.19 | 104.69 |
| 2021 | 178.01 | 1.08 | 1.51 | 164.72 | 102.15 | 0.93 | 1.38 | 109.69 |
| 2022 | 129.98 | 1.05 | 1.35 | 123.30 | 100.29 | 0.95 | 1.20 | 105.53 |

² SCE calculates MAIFI at the individual outage event.

³ Distribution system outages are defined as outages that are <50kV.

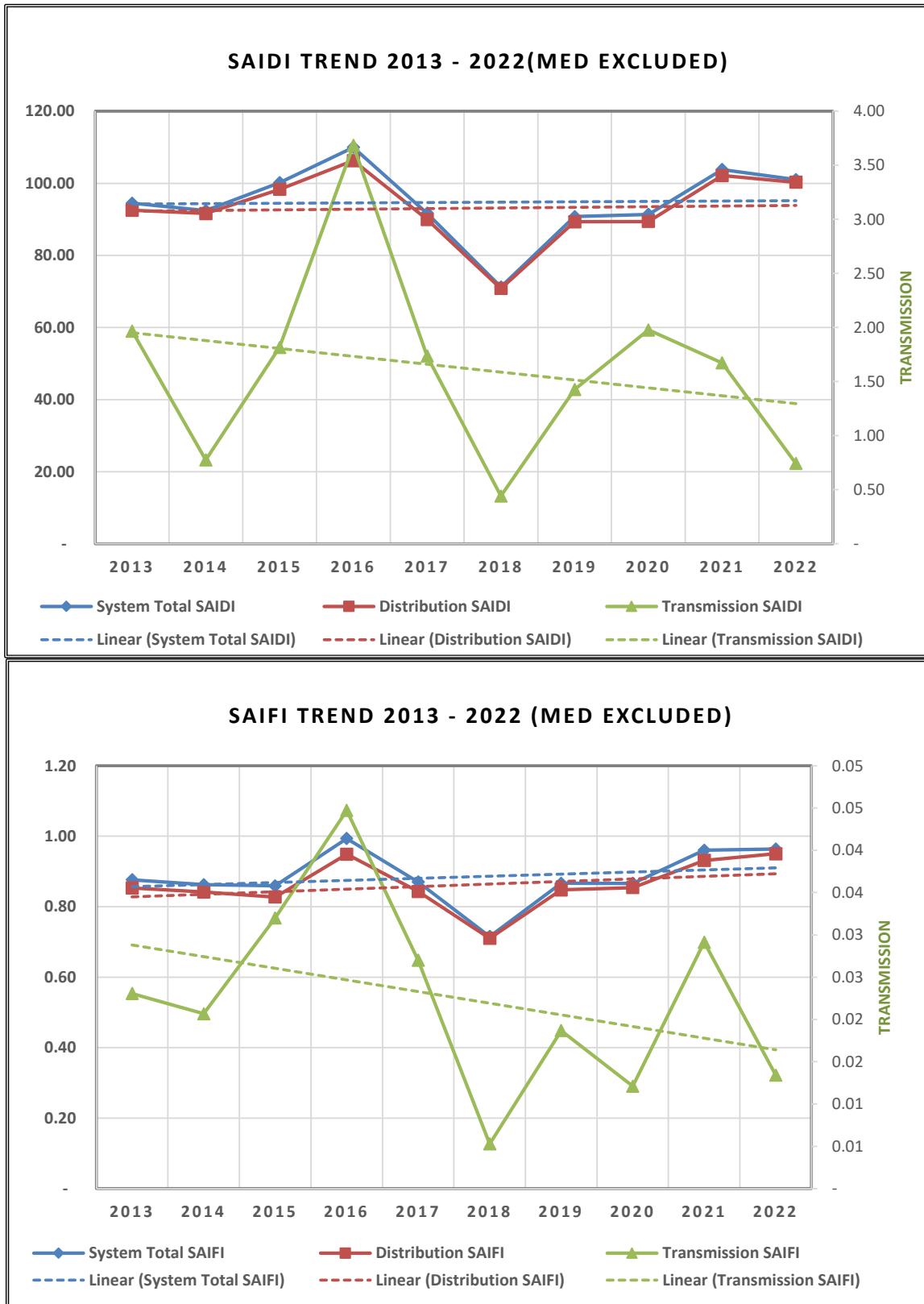
ii. Transmission Indices⁴

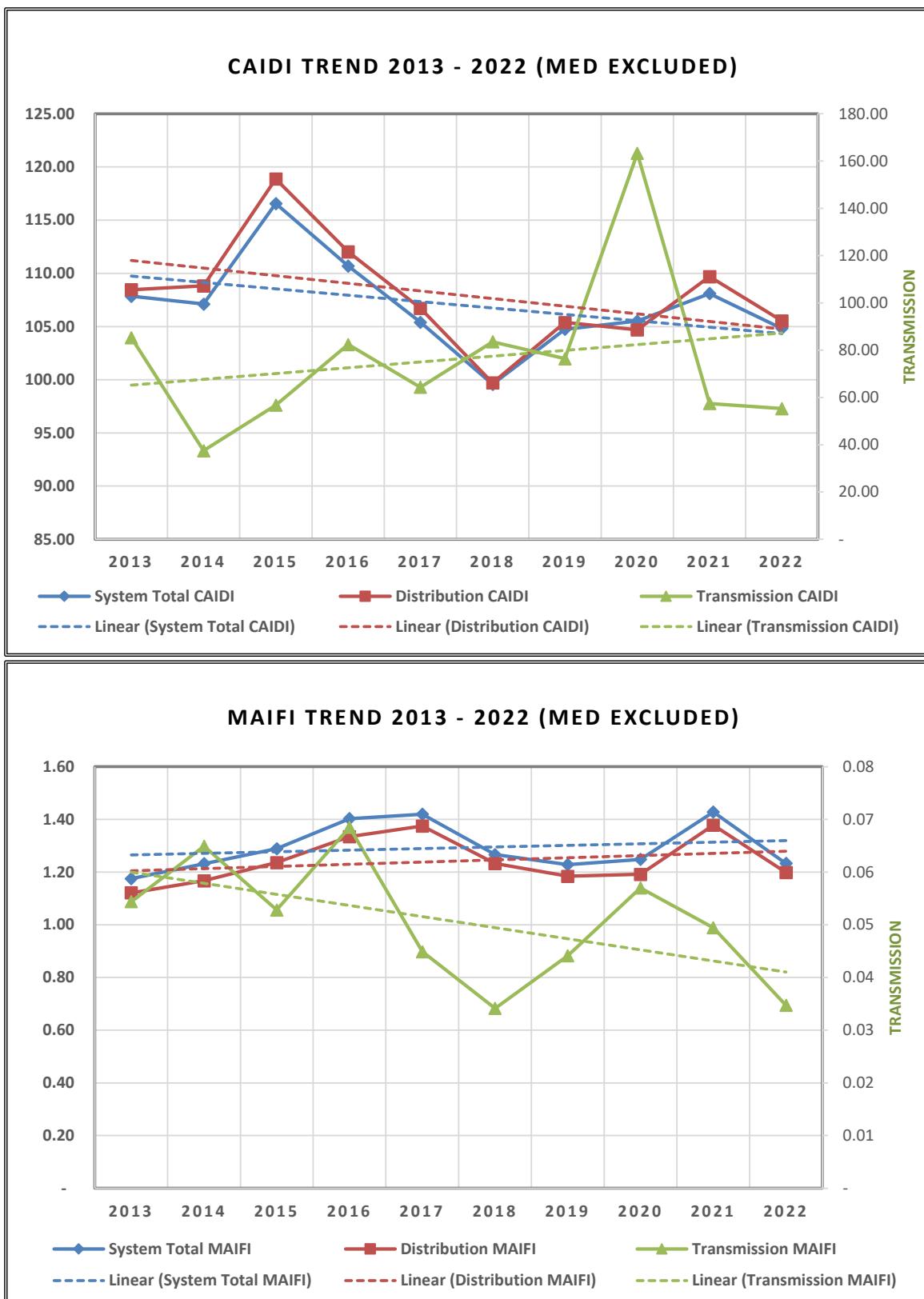
Table 3 – Unplanned Outage Transmission Indices (2013-2022)

| YEAR | Transmission Indices (>= 50KV) (All Interruptions Included) | | | | Transmission Indices (>= 50KV) (Major Event Days Excluded) | | | |
|------|---|-------|-------|--------|--|-------|-------|--------|
| | SAIDI | SAIFI | MAIFI | CAIDI | SAIDI | SAIFI | MAIFI | CAIDI |
| 2013 | 8.29 | 0.05 | 0.06 | 177.25 | 1.97 | 0.02 | 0.05 | 85.29 |
| 2014 | 1.02 | 0.02 | 0.07 | 46.82 | 0.78 | 0.02 | 0.06 | 37.50 |
| 2015 | 2.96 | 0.04 | 0.07 | 76.68 | 1.82 | 0.03 | 0.05 | 56.75 |
| 2016 | 5.15 | 0.05 | 0.08 | 101.92 | 3.68 | 0.04 | 0.07 | 82.39 |
| 2017 | 10.99 | 0.21 | 0.27 | 53.01 | 1.74 | 0.03 | 0.04 | 64.31 |
| 2018 | 1.95 | 0.01 | 0.04 | 177.73 | 0.44 | 0.01 | 0.03 | 83.54 |
| 2019 | 7.67 | 0.03 | 0.06 | 225.95 | 1.43 | 0.02 | 0.04 | 76.39 |
| 2020 | 2.39 | 0.01 | 0.06 | 197.46 | 1.98 | 0.01 | 0.06 | 163.29 |
| 2021 | 1.78 | 0.03 | 0.06 | 57.19 | 1.67 | 0.03 | 0.05 | 57.42 |
| 2022 | 1.15 | 0.03 | 0.07 | 45.16 | 0.74 | 0.01 | 0.03 | 55.29 |

⁴ Transmission system outages are defined as outages ≥ 50kV

b. Unplanned Outage System Indices Charts (MED Excluded)





SECTION 2 – UNPLANNED OUTAGE DISTRICT RELIABILITY INDICES FOR THE PAST 10 YEARS INCLUDING AND EXCLUDING MEDs

a. District SAIDI, SAIFI, MAIFI and CAIDI⁵ (including and excluding MEDs) for unplanned outages

Table 4 – District Indices (2013-2022)⁶

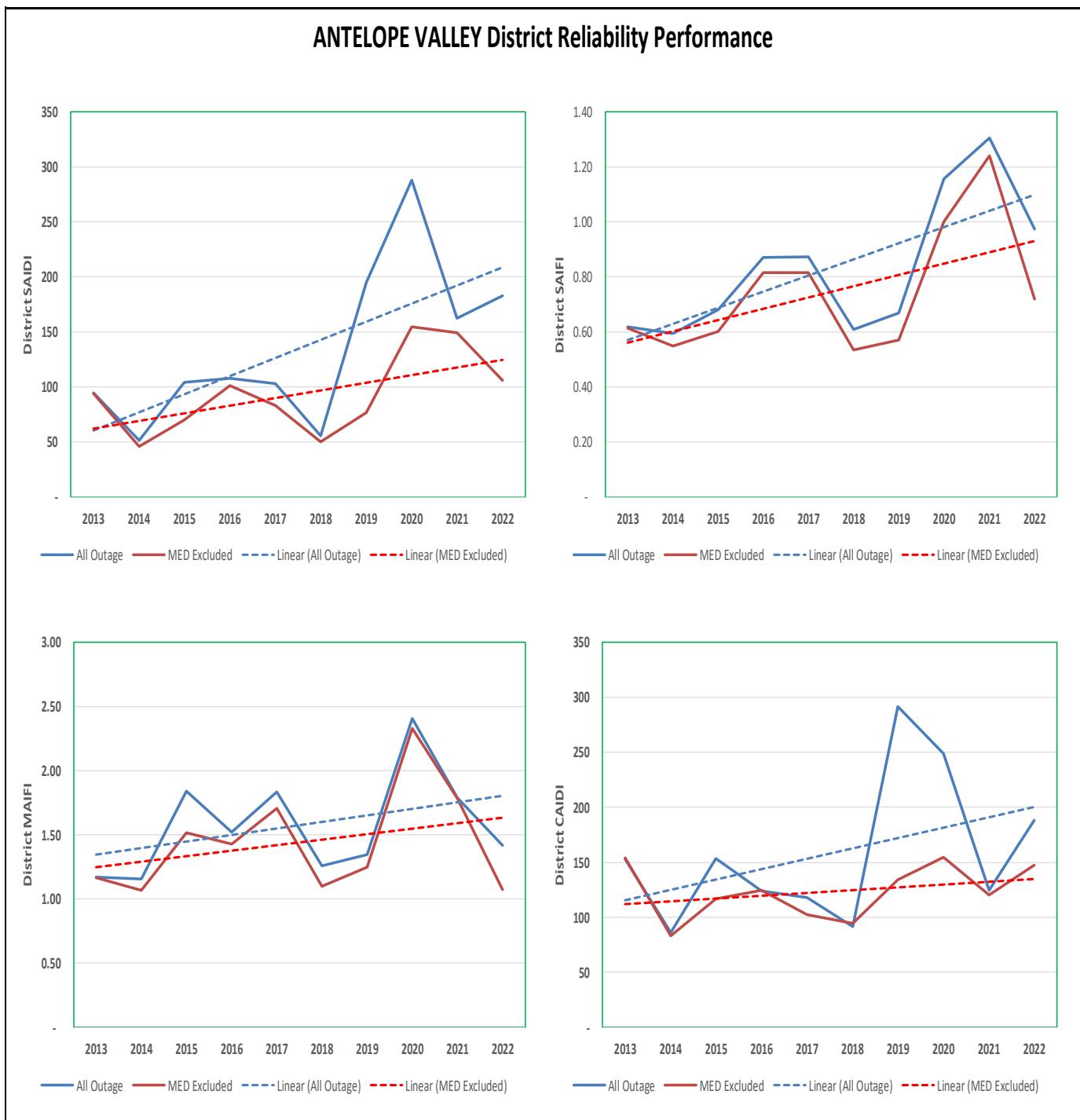
| DISTRICT | All Outage | | | | MED Excluded | | | |
|------------------------|------------|--------|--------|---------|--------------|--------|--------|---------|
| | dSAIDI | dSAIFI | dMAIFI | dCAIDI | dSAIDI | dSAIFI | dMAIFI | dCAIDI |
| ANTELOPE VALLEY | | | | | | | | |
| 2013 | 94.416 | 0.619 | 1.172 | 152.621 | 94.222 | 0.613 | 1.166 | 153.772 |
| 2014 | 51.050 | 0.594 | 1.153 | 85.980 | 45.689 | 0.549 | 1.070 | 83.218 |
| 2015 | 104.337 | 0.680 | 1.838 | 153.528 | 70.206 | 0.601 | 1.514 | 116.783 |
| 2016 | 107.670 | 0.870 | 1.523 | 123.791 | 101.199 | 0.814 | 1.430 | 124.322 |
| 2017 | 103.191 | 0.873 | 1.833 | 118.151 | 83.352 | 0.814 | 1.704 | 102.390 |
| 2018 | 55.614 | 0.608 | 1.258 | 91.517 | 50.419 | 0.534 | 1.097 | 94.498 |
| 2019 | 194.754 | 0.668 | 1.347 | 291.498 | 76.406 | 0.569 | 1.249 | 134.164 |
| 2020 | 287.775 | 1.156 | 2.404 | 249.035 | 154.812 | 0.999 | 2.329 | 154.892 |
| 2021 | 162.652 | 1.305 | 1.789 | 124.668 | 149.371 | 1.239 | 1.783 | 120.547 |
| 2022 | 182.859 | 0.973 | 1.418 | 188.015 | 106.100 | 0.719 | 1.072 | 147.613 |
| ARROWHEAD | | | | | | | | |
| 2013 | 180.586 | 1.386 | 5.017 | 130.286 | 134.768 | 1.174 | 3.637 | 114.839 |
| 2014 | 193.249 | 1.590 | 4.018 | 121.532 | 81.968 | 0.898 | 3.035 | 91.277 |
| 2015 | 362.615 | 3.973 | 5.595 | 91.273 | 186.743 | 2.755 | 2.730 | 67.794 |
| 2016 | 659.464 | 2.848 | 5.951 | 231.515 | 200.720 | 1.883 | 4.712 | 106.593 |
| 2017 | 816.518 | 3.861 | 7.057 | 211.496 | 218.331 | 3.058 | 4.093 | 71.391 |
| 2018 | 68.595 | 1.527 | 2.980 | 44.924 | 53.422 | 0.712 | 2.919 | 75.065 |
| 2019 | 3630.637 | 9.592 | 9.883 | 378.500 | 828.270 | 5.814 | 6.160 | 142.452 |
| 2020 | 443.364 | 2.384 | 4.264 | 185.940 | 204.895 | 2.061 | 3.311 | 99.397 |
| 2021 | 1565.303 | 2.875 | 5.966 | 544.443 | 492.173 | 2.057 | 4.108 | 239.241 |
| 2022 | 282.960 | 1.914 | 3.736 | 147.821 | 231.329 | 1.370 | 2.245 | 168.905 |
| BARSTOW | | | | | | | | |
| 2013 | 204.329 | 1.395 | 3.284 | 146.469 | 185.788 | 1.286 | 2.702 | 144.416 |
| 2014 | 201.526 | 1.343 | 2.536 | 150.058 | 173.680 | 1.240 | 2.410 | 140.098 |
| 2015 | 187.113 | 1.174 | 2.859 | 159.416 | 157.379 | 0.997 | 2.131 | 157.841 |
| 2016 | 134.828 | 1.350 | 2.296 | 99.888 | 130.085 | 1.340 | 2.283 | 97.106 |
| 2017 | 357.468 | 2.652 | 4.195 | 134.806 | 356.064 | 2.639 | 4.132 | 134.934 |
| 2018 | 116.698 | 1.373 | 2.110 | 84.988 | 115.274 | 1.342 | 2.077 | 85.929 |
| 2019 | 114.490 | 0.833 | 2.586 | 137.432 | 95.228 | 0.798 | 2.188 | 119.296 |
| 2020 | 105.052 | 1.378 | 2.647 | 76.251 | 100.323 | 1.367 | 2.520 | 73.408 |
| 2021 | 215.915 | 2.677 | 4.580 | 80.653 | 196.992 | 2.391 | 4.383 | 82.400 |
| 2022 | 587.752 | 3.080 | 5.571 | 190.852 | 562.810 | 2.867 | 4.962 | 196.310 |
| BISHOP | | | | | | | | |
| 2013 | 104.436 | 0.514 | 1.267 | 203.233 | 104.425 | 0.514 | 1.267 | 203.232 |
| 2014 | 118.793 | 0.587 | 1.885 | 202.475 | 113.618 | 0.499 | 1.706 | 227.572 |
| 2015 | 298.106 | 2.218 | 3.332 | 134.431 | 298.106 | 2.218 | 3.272 | 134.431 |
| 2016 | 168.592 | 1.216 | 2.820 | 138.643 | 168.530 | 1.216 | 2.711 | 138.603 |
| 2017 | 190.511 | 1.934 | 3.223 | 98.485 | 172.144 | 1.877 | 3.077 | 91.719 |
| 2018 | 139.695 | 0.539 | 1.957 | 258.986 | 136.470 | 0.499 | 1.820 | 273.587 |
| 2019 | 1445.727 | 2.915 | 3.217 | 496.014 | 276.151 | 1.394 | 2.878 | 198.130 |
| 2020 | 317.986 | 1.935 | 1.637 | 164.372 | 317.814 | 1.933 | 1.619 | 164.423 |
| 2021 | 385.947 | 2.471 | 4.783 | 156.182 | 355.408 | 2.404 | 4.630 | 147.814 |
| 2022 | 236.615 | 1.962 | 3.632 | 120.623 | 235.037 | 1.936 | 3.624 | 121.428 |
| BLYTHE | | | | | | | | |
| 2013 | 483.127 | 1.380 | 5.466 | 349.971 | 482.815 | 1.372 | 5.382 | 351.779 |
| 2014 | 707.545 | 2.419 | 4.658 | 292.513 | 707.301 | 2.387 | 4.433 | 296.272 |
| 2015 | 426.997 | 1.515 | 1.396 | 281.754 | 331.521 | 1.129 | 1.163 | 293.751 |
| 2016 | 396.376 | 2.707 | 6.342 | 146.428 | 302.983 | 1.917 | 4.848 | 158.021 |
| 2017 | 684.484 | 2.377 | 3.585 | 287.955 | 683.564 | 2.372 | 3.493 | 288.176 |
| 2018 | 277.723 | 1.571 | 2.198 | 176.833 | 255.608 | 1.321 | 2.168 | 193.449 |
| 2019 | 379.850 | 1.692 | 2.769 | 224.482 | 359.998 | 1.629 | 2.675 | 221.030 |
| 2020 | 211.988 | 1.319 | 1.937 | 160.718 | 174.050 | 1.191 | 1.788 | 146.079 |
| 2021 | 196.177 | 1.181 | 3.755 | 166.157 | 195.134 | 1.176 | 3.656 | 165.980 |
| 2022 | 577.440 | 2.830 | 2.625 | 204.056 | 571.426 | 2.808 | 2.625 | 203.483 |

⁵ District reliability metrics are calculated utilizing district information such as number of customers served within a district.

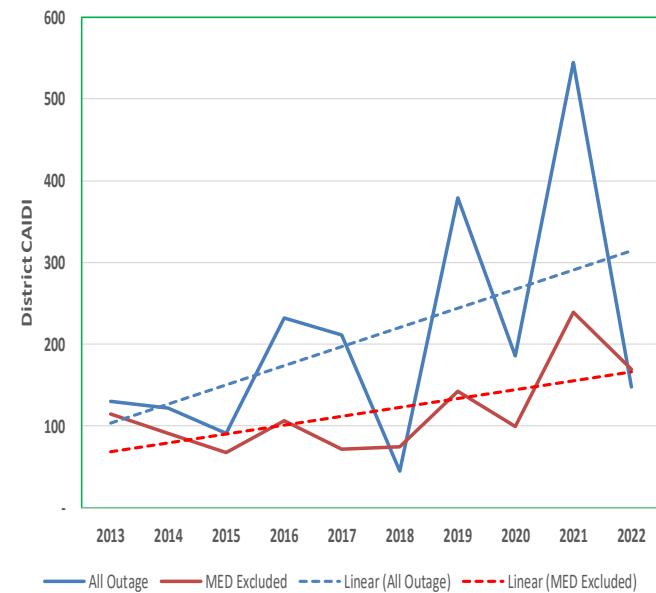
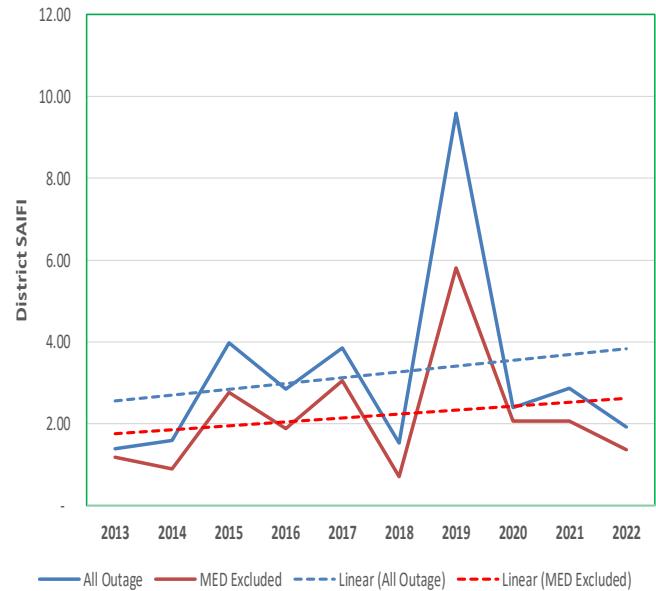
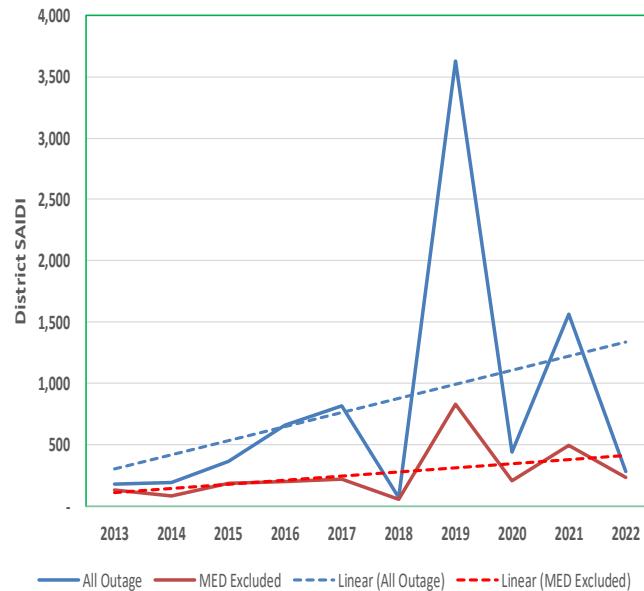
⁶ Beginning in the 2019 annual report, Catalina District indices are combined with Huntington Beach District since the Catalina District operations are merged with the Huntington Beach District.

| DISTRICT | All Outage | | | | MED Excluded | | | |
|---------------------|------------|--------|--------|---------|--------------|--------|--------|---------|
| | dSAIDI | dSAIFI | dMAIFI | dCAIDI | dSAIDI | dSAIFI | dMAIFI | dCAIDI |
| VENTURA | | | | | | | | |
| 2013 | 100.521 | 1.210 | 1.417 | 83.104 | 100.504 | 1.210 | 1.417 | 83.093 |
| 2014 | 183.792 | 1.648 | 2.215 | 111.537 | 151.658 | 1.386 | 2.075 | 109.392 |
| 2015 | 148.848 | 1.190 | 1.447 | 125.112 | 141.430 | 1.149 | 1.375 | 123.110 |
| 2016 | 150.408 | 1.236 | 1.679 | 121.649 | 107.140 | 1.019 | 1.553 | 105.110 |
| 2017 | 520.897 | 3.122 | 2.293 | 166.846 | 114.758 | 1.240 | 1.542 | 92.559 |
| 2018 | 136.042 | 1.438 | 1.921 | 94.613 | 100.385 | 1.177 | 1.676 | 85.301 |
| 2019 | 334.957 | 1.647 | 2.610 | 203.369 | 133.541 | 1.364 | 2.407 | 97.920 |
| 2020 | 174.171 | 0.955 | 1.188 | 182.361 | 69.758 | 0.762 | 1.078 | 91.508 |
| 2021 | 370.432 | 2.004 | 2.088 | 184.846 | 124.867 | 1.572 | 1.683 | 79.440 |
| 2022 | 114.522 | 1.560 | 1.400 | 73.413 | 109.055 | 1.502 | 1.386 | 72.624 |
| VICTORVILLE | | | | | | | | |
| 2013 | 61.333 | 0.632 | 1.312 | 97.109 | 61.010 | 0.620 | 1.179 | 98.380 |
| 2014 | 68.846 | 0.633 | 0.899 | 108.729 | 67.696 | 0.620 | 0.881 | 109.166 |
| 2015 | 87.026 | 0.906 | 1.839 | 96.063 | 72.897 | 0.812 | 1.551 | 89.751 |
| 2016 | 79.352 | 0.917 | 1.396 | 86.493 | 75.943 | 0.888 | 1.327 | 85.547 |
| 2017 | 84.068 | 0.895 | 2.353 | 93.936 | 73.124 | 0.808 | 1.757 | 90.485 |
| 2018 | 125.922 | 0.862 | 1.345 | 146.015 | 97.868 | 0.802 | 1.270 | 122.074 |
| 2019 | 82.422 | 1.102 | 2.008 | 74.767 | 74.675 | 0.986 | 1.667 | 75.770 |
| 2020 | 52.815 | 0.915 | 1.609 | 57.708 | 48.809 | 0.865 | 1.518 | 56.408 |
| 2021 | 83.749 | 0.895 | 2.499 | 93.527 | 78.552 | 0.844 | 2.452 | 93.041 |
| 2022 | 112.299 | 1.126 | 1.953 | 99.689 | 96.491 | 0.975 | 1.821 | 98.921 |
| WHITTIER | | | | | | | | |
| 2013 | 135.043 | 0.859 | 1.055 | 157.172 | 135.043 | 0.859 | 1.055 | 157.172 |
| 2014 | 87.600 | 0.704 | 1.155 | 124.399 | 84.188 | 0.689 | 1.090 | 122.157 |
| 2015 | 114.520 | 0.733 | 1.084 | 156.317 | 104.851 | 0.704 | 0.989 | 148.883 |
| 2016 | 137.336 | 0.814 | 1.416 | 168.756 | 90.212 | 0.616 | 1.290 | 146.361 |
| 2017 | 148.909 | 0.896 | 1.872 | 166.103 | 91.911 | 0.750 | 1.655 | 122.501 |
| 2018 | 87.742 | 0.666 | 1.413 | 131.834 | 73.659 | 0.575 | 1.297 | 128.006 |
| 2019 | 84.861 | 0.730 | 1.379 | 116.212 | 73.994 | 0.624 | 1.160 | 118.511 |
| 2020 | 113.131 | 0.839 | 1.278 | 134.805 | 83.141 | 0.723 | 1.151 | 115.011 |
| 2021 | 88.389 | 0.803 | 1.578 | 110.074 | 73.757 | 0.712 | 1.387 | 103.523 |
| 2022 | 74.496 | 0.719 | 1.442 | 103.621 | 64.541 | 0.670 | 1.286 | 96.280 |
| WILDOMAR | | | | | | | | |
| 2013 | 40.512 | 0.555 | 0.656 | 72.932 | 40.122 | 0.554 | 0.656 | 72.407 |
| 2014 | 118.493 | 0.806 | 0.743 | 147.031 | 112.300 | 0.772 | 0.683 | 145.548 |
| 2015 | 52.699 | 0.597 | 1.255 | 88.256 | 48.313 | 0.566 | 1.054 | 85.401 |
| 2016 | 84.010 | 0.866 | 0.951 | 97.031 | 79.151 | 0.839 | 0.861 | 94.378 |
| 2017 | 90.151 | 0.800 | 1.015 | 112.679 | 56.373 | 0.580 | 0.933 | 97.161 |
| 2018 | 60.772 | 0.747 | 0.846 | 81.358 | 51.890 | 0.622 | 0.760 | 83.373 |
| 2019 | 94.466 | 0.768 | 0.738 | 123.007 | 53.127 | 0.610 | 0.726 | 87.158 |
| 2020 | 98.114 | 0.765 | 0.961 | 128.226 | 55.953 | 0.641 | 0.960 | 87.246 |
| 2021 | 85.130 | 0.759 | 0.649 | 112.092 | 75.369 | 0.680 | 0.571 | 110.911 |
| 2022 | 87.800 | 0.865 | 0.459 | 101.503 | 82.346 | 0.829 | 0.424 | 99.300 |
| YUCCA VALLEY | | | | | | | | |
| 2013 | 216.972 | 1.500 | 4.983 | 144.620 | 216.966 | 1.500 | 4.983 | 144.626 |
| 2014 | 304.249 | 1.490 | 4.856 | 204.152 | 293.730 | 1.407 | 4.851 | 208.756 |
| 2015 | 389.085 | 1.804 | 3.922 | 215.688 | 260.176 | 1.189 | 2.708 | 218.766 |
| 2016 | 463.683 | 3.393 | 3.875 | 136.661 | 440.057 | 3.257 | 3.106 | 135.131 |
| 2017 | 300.331 | 1.957 | 1.602 | 153.472 | 270.109 | 1.728 | 1.509 | 156.277 |
| 2018 | 353.832 | 1.937 | 2.747 | 182.664 | 206.580 | 1.488 | 1.832 | 138.842 |
| 2019 | 451.746 | 2.341 | 1.930 | 192.934 | 401.604 | 2.067 | 1.728 | 194.288 |
| 2020 | 237.520 | 2.263 | 2.405 | 104.954 | 211.137 | 2.086 | 2.355 | 101.222 |
| 2021 | 384.163 | 2.282 | 2.223 | 168.313 | 351.851 | 1.999 | 2.161 | 176.030 |
| 2022 | 232.163 | 2.080 | 3.614 | 111.636 | 211.406 | 1.863 | 1.699 | 113.447 |

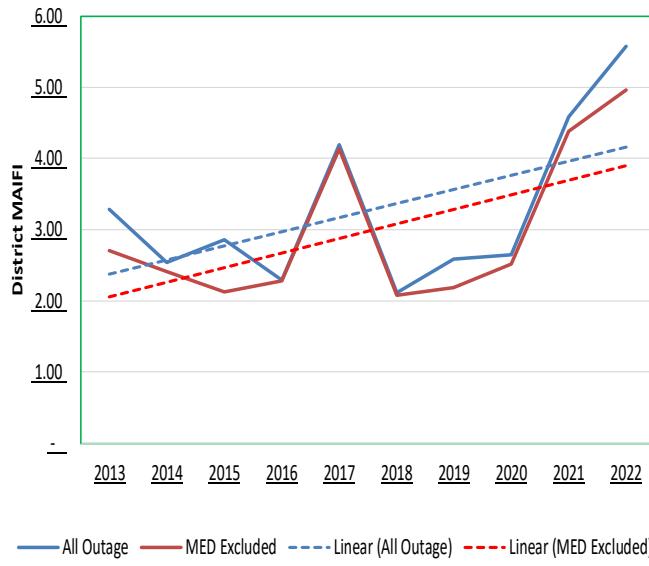
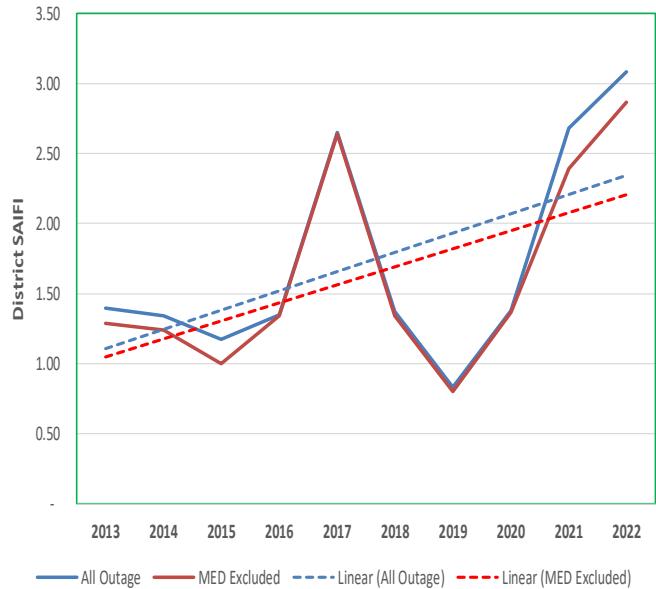
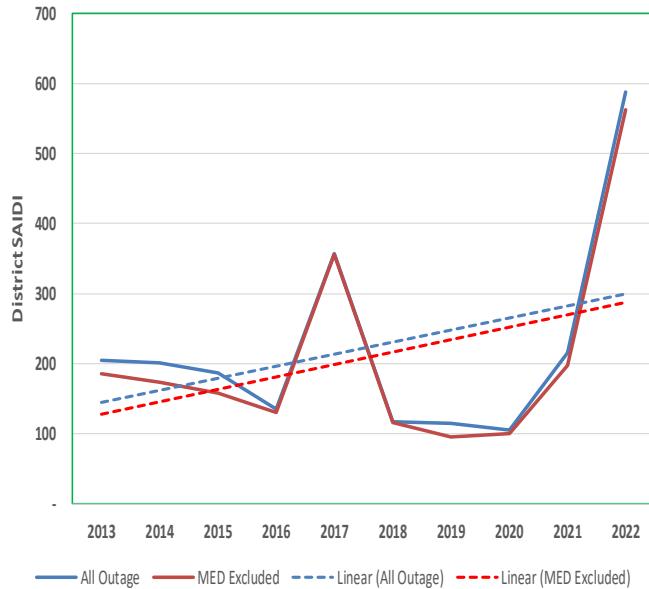
b. The linear charts below show the past 10 years of District Reliability Performance from 2013 – 2022 of dSAIDI, dSAIFI, dMAIFI and dCAIDI for all 34 districts. There are separate charts of unplanned outages including and excluding MEDs. The charts shown are listed in district name in alphabetical order.



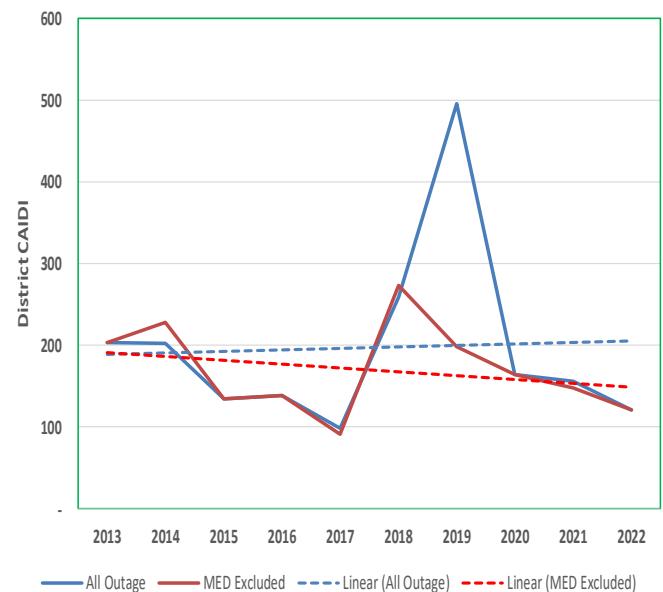
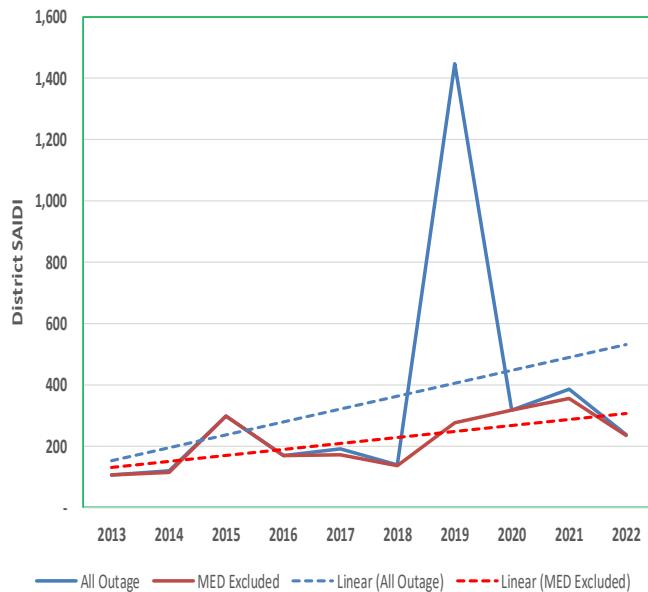
ARROWHEAD District Reliability Performance



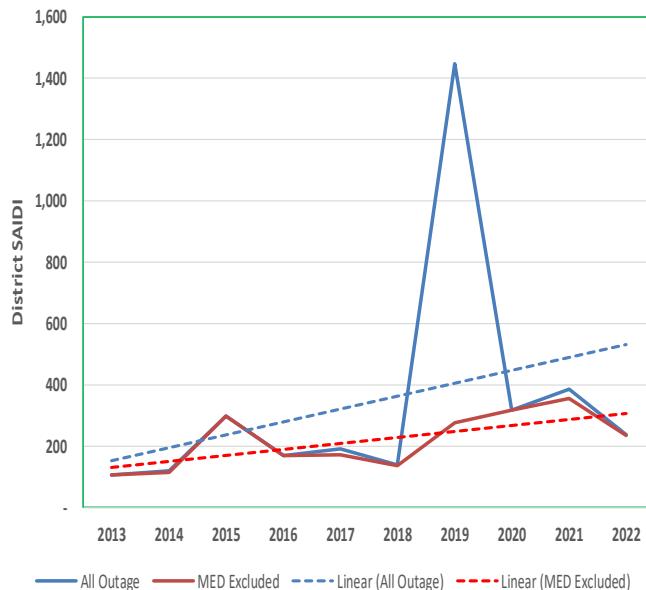
BARSTOW District Reliability Performance



BISHOP District Reliability Performance



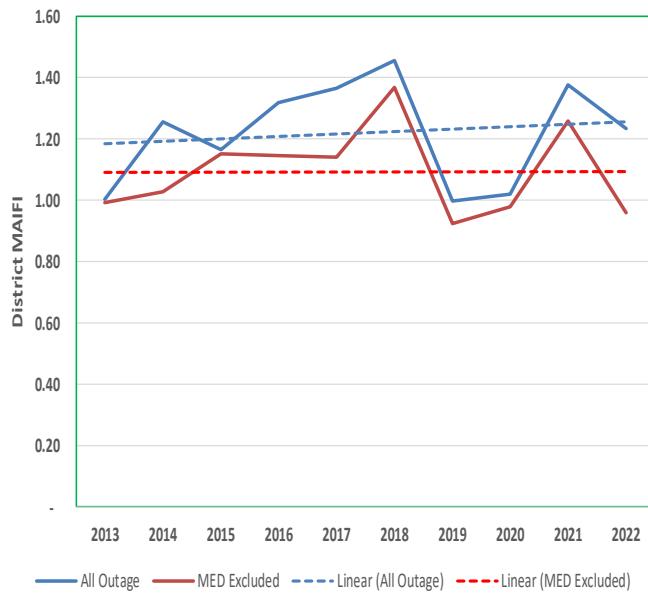
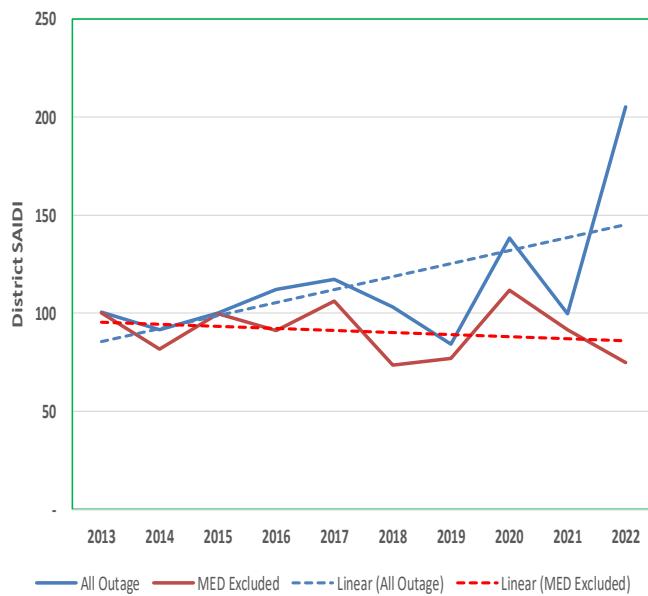
BISHOP District Reliability Performance



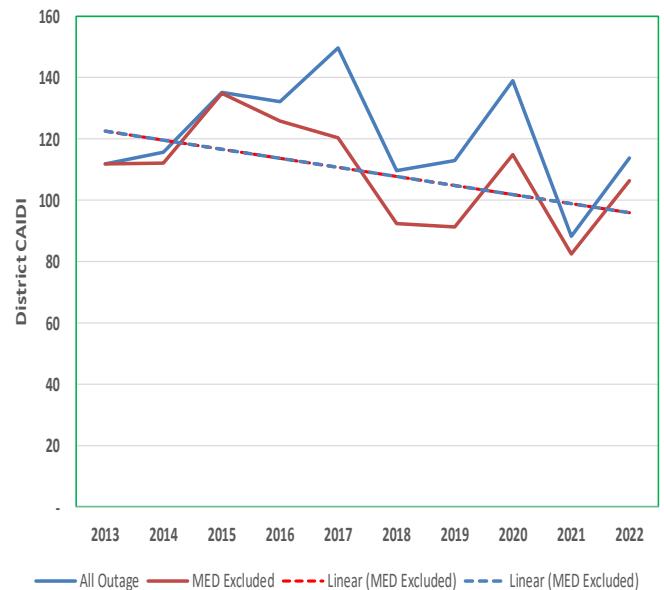
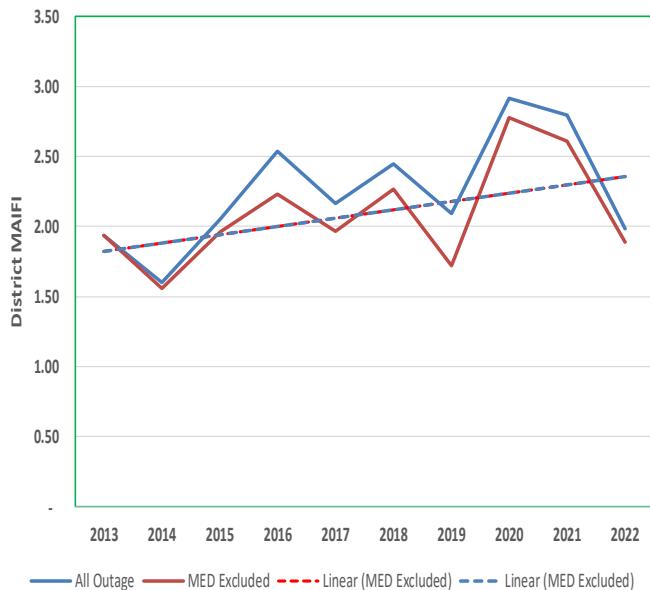
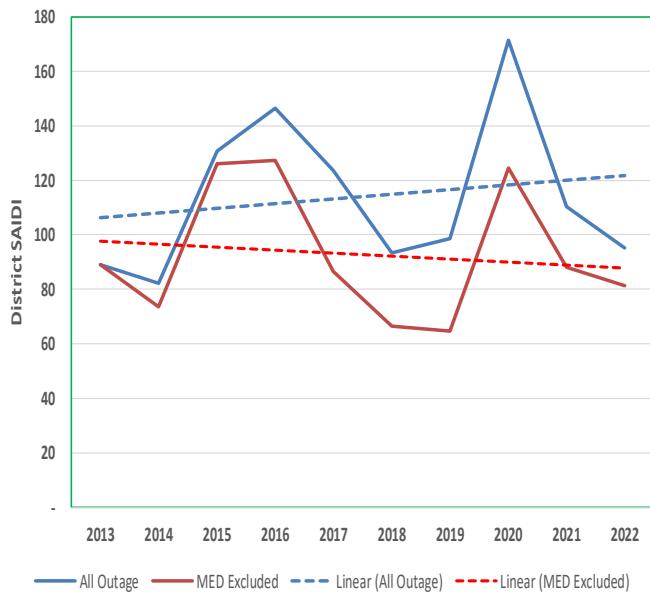
BLYTHE District Reliability Performance



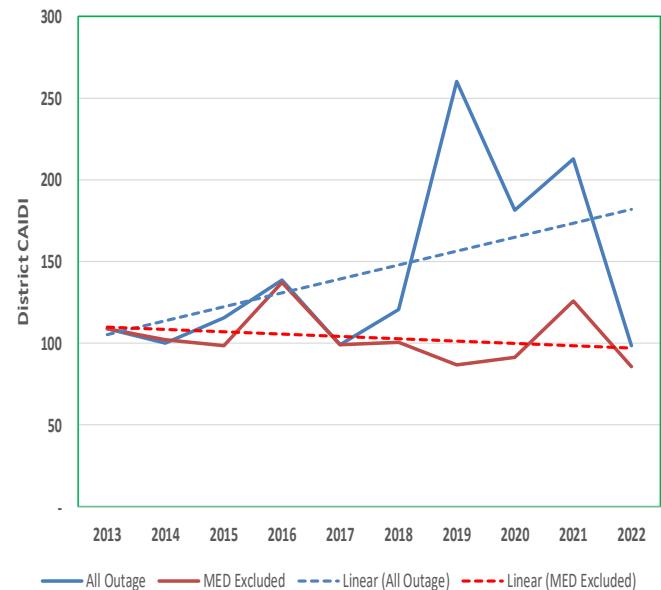
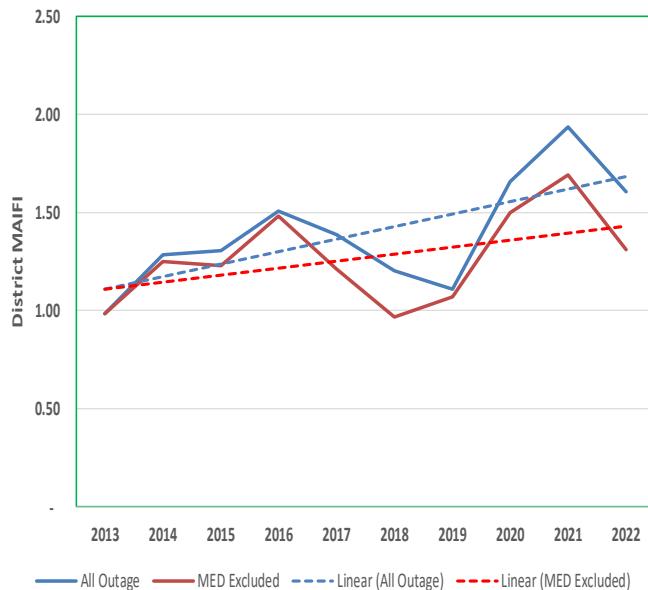
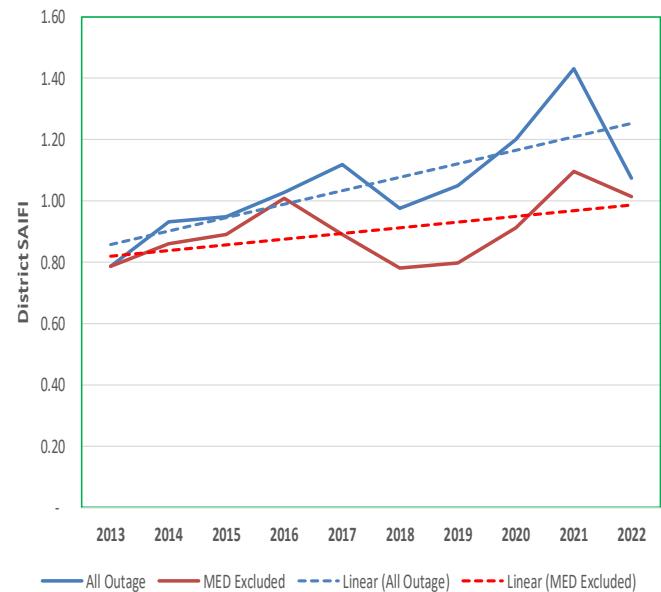
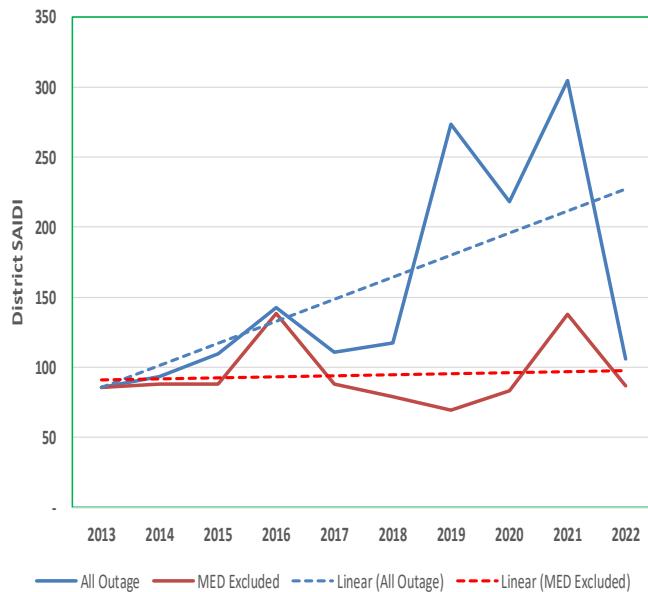
COVINA District Reliability Performance



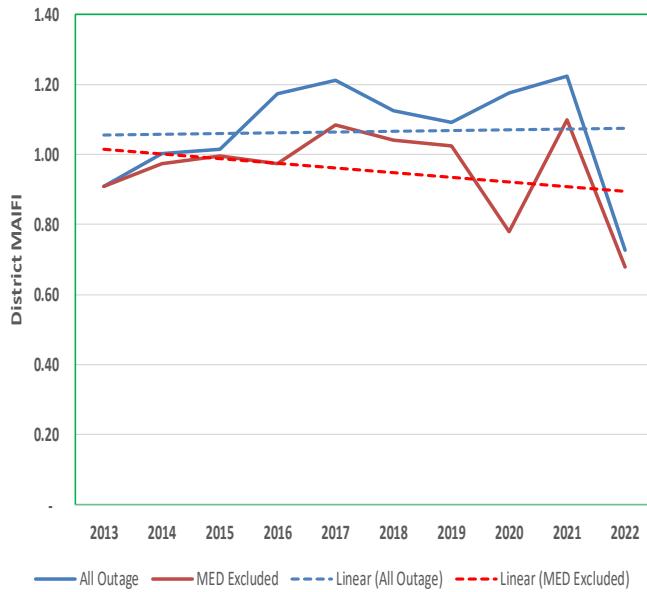
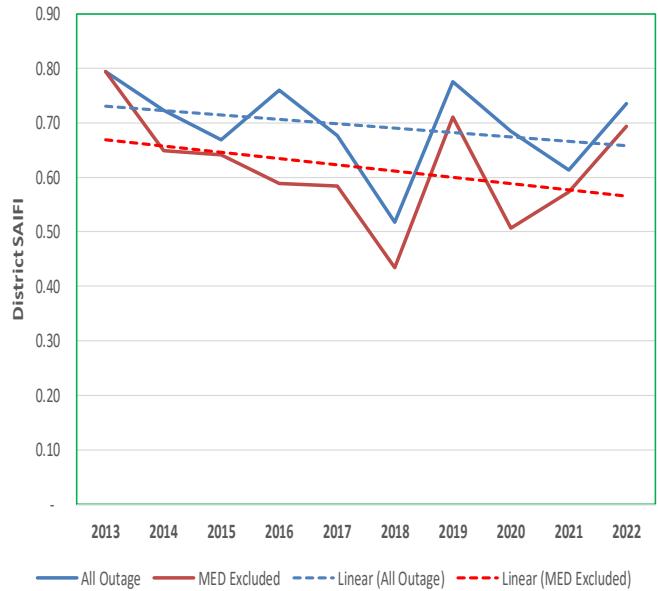
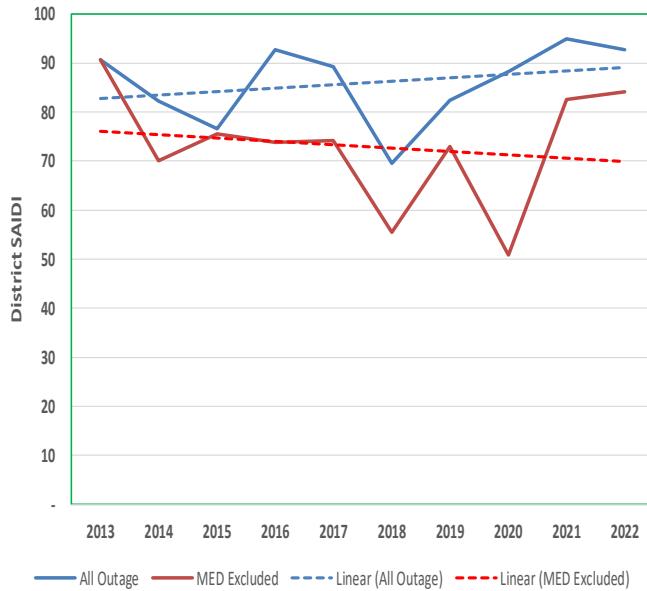
DOMINGUEZ HILLS District Reliability Performance



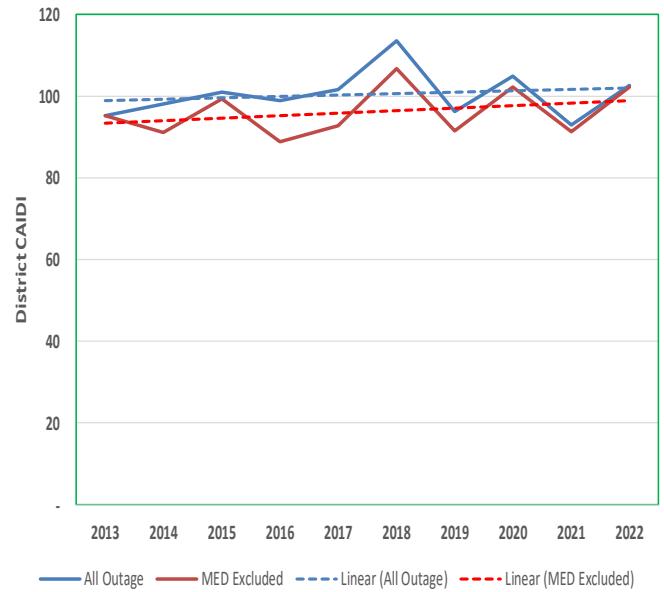
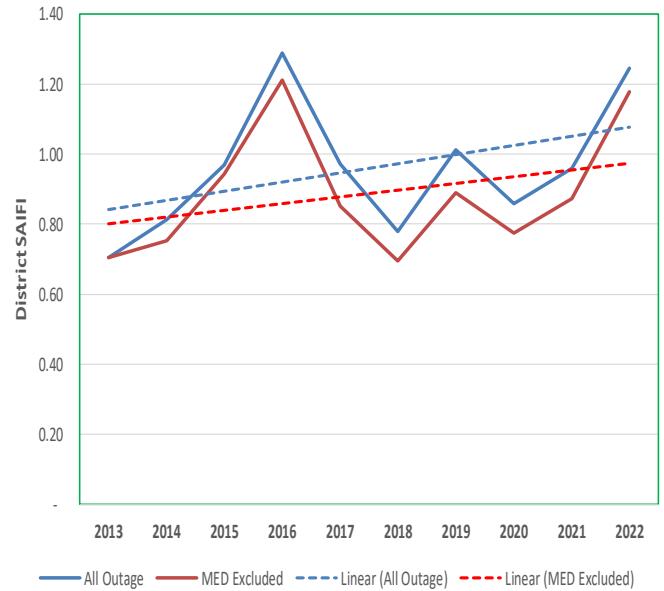
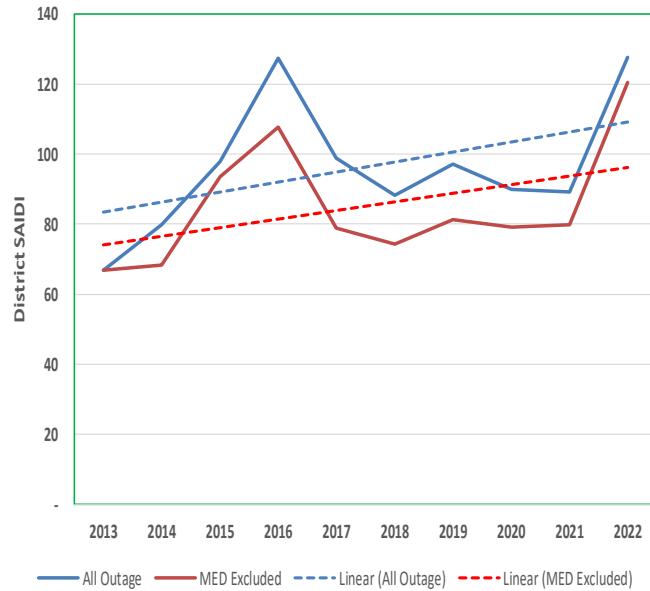
FOOTHILL District Reliability Performance



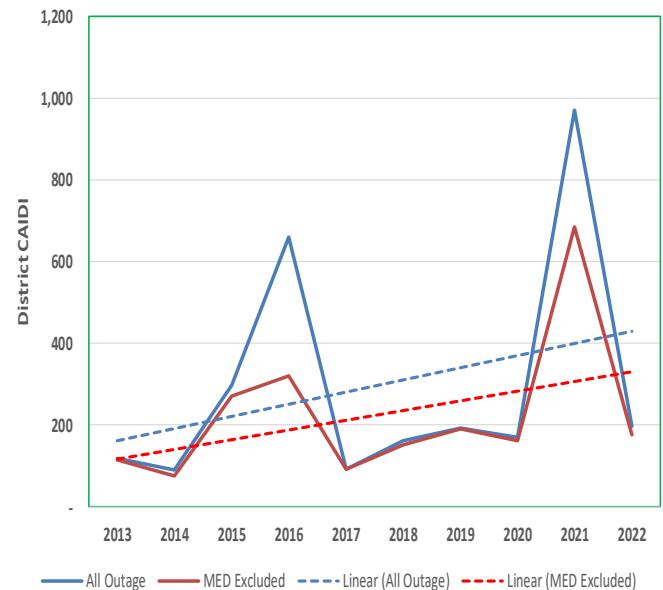
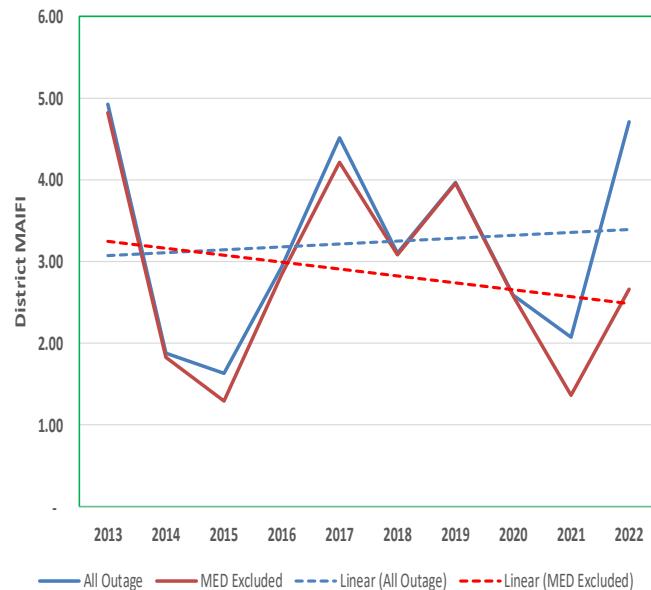
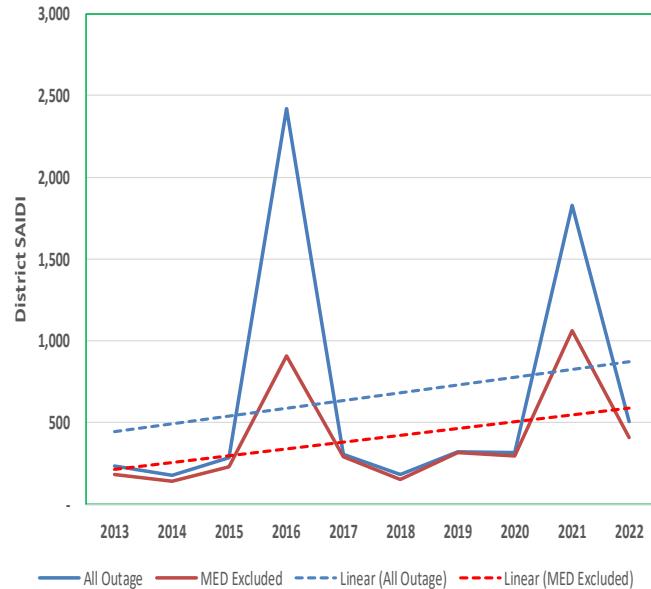
FULLERTON District Reliability Performance



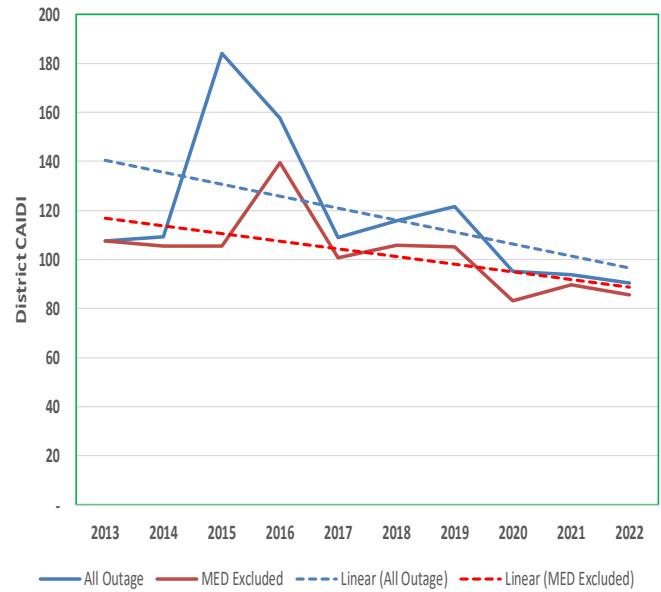
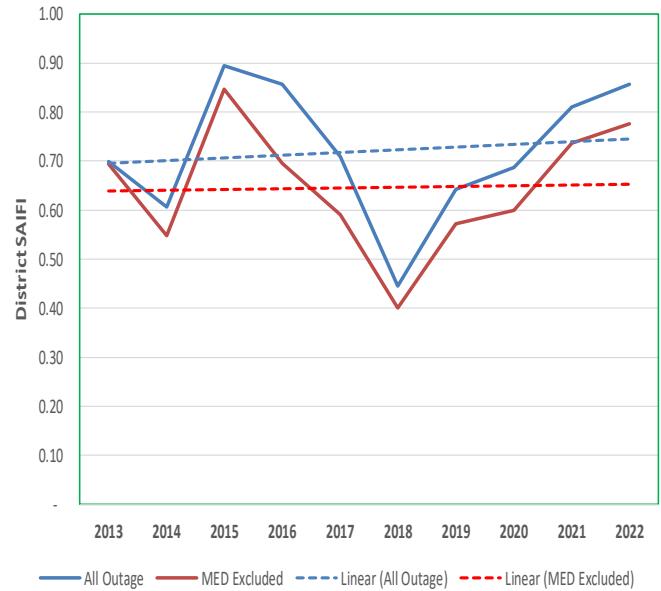
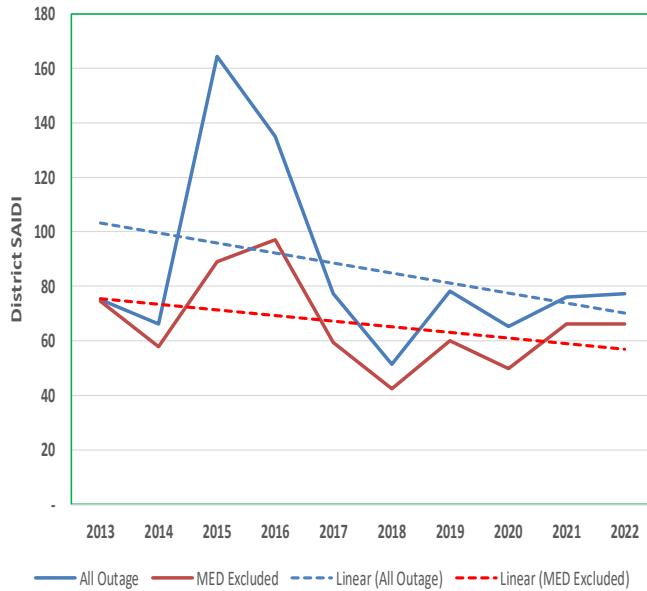
HUNTINGTON BEACH District Reliability Performance



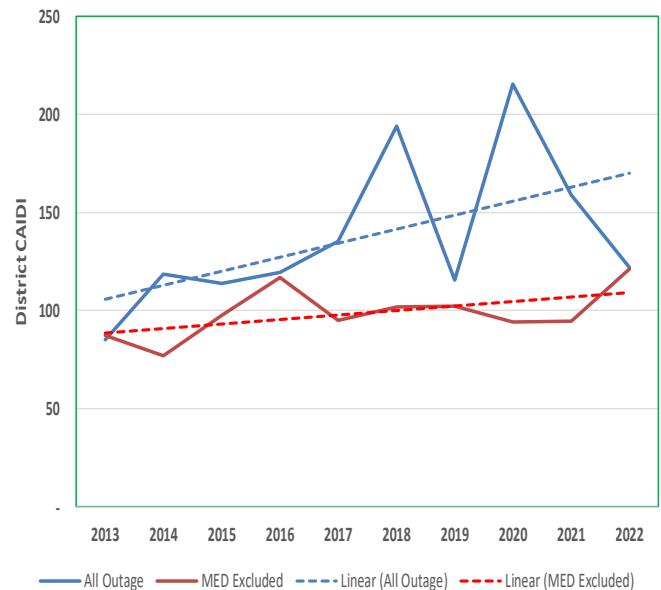
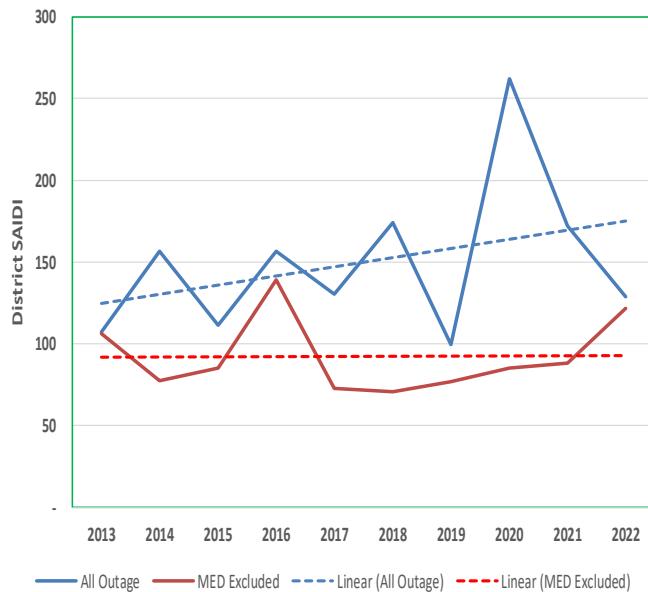
KERNVILLE District Reliability Performance



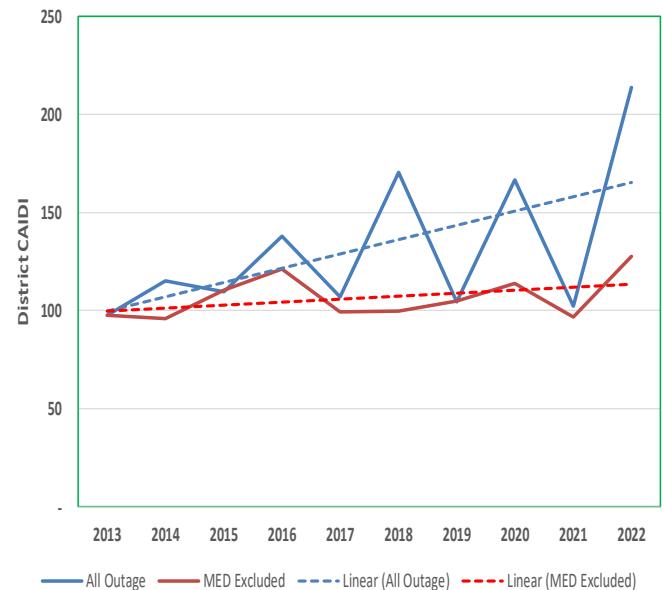
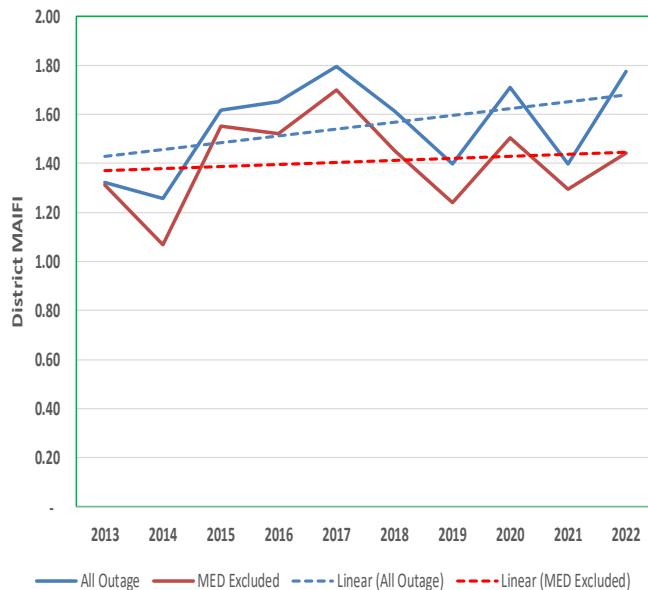
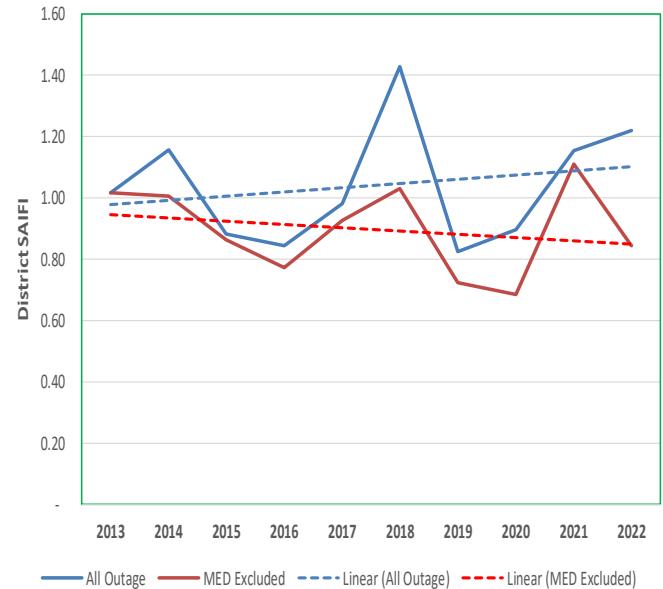
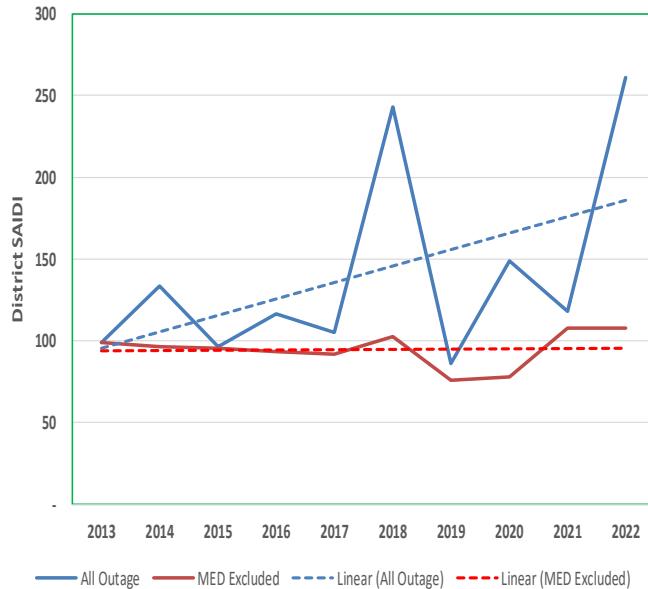
LONG BEACH District Reliability Performance



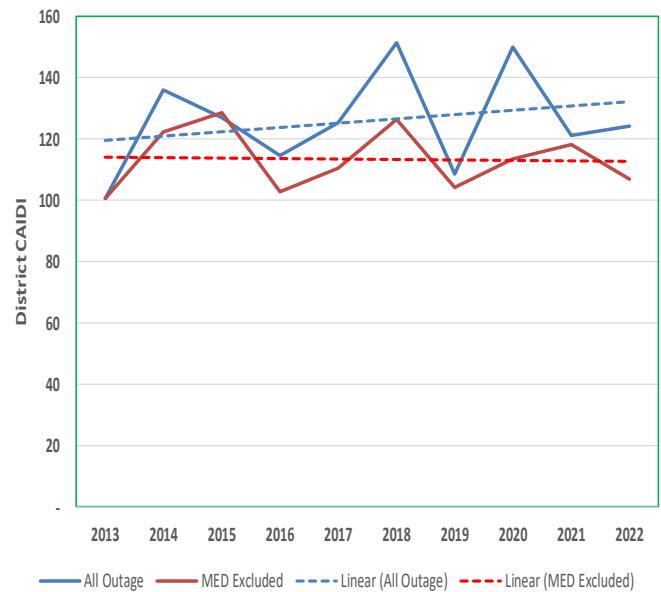
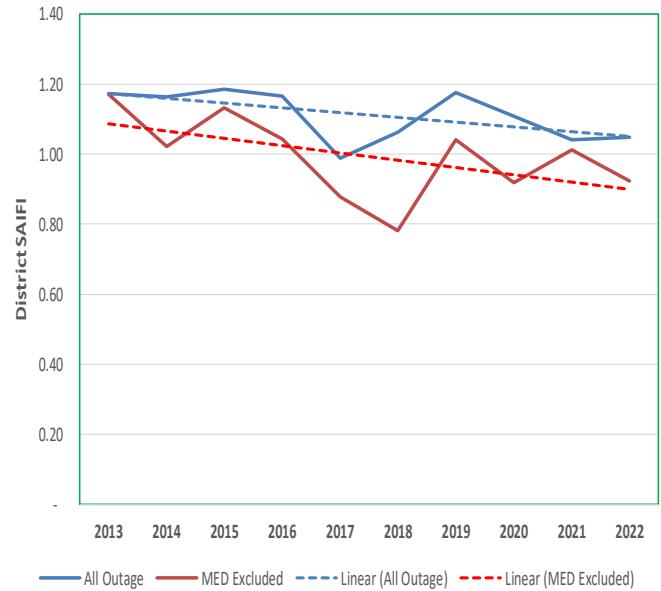
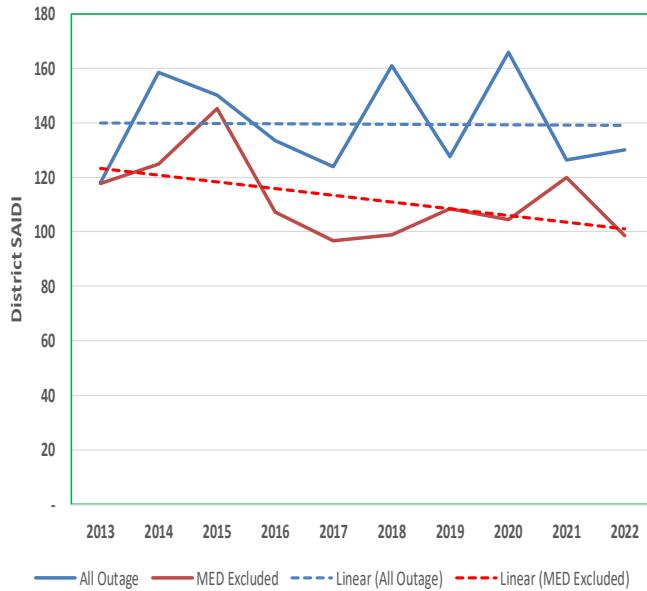
MENIFEE District Reliability Performance



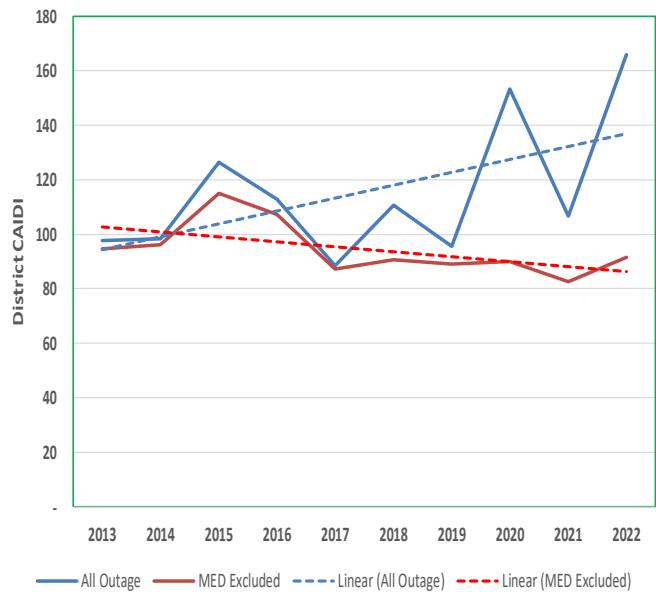
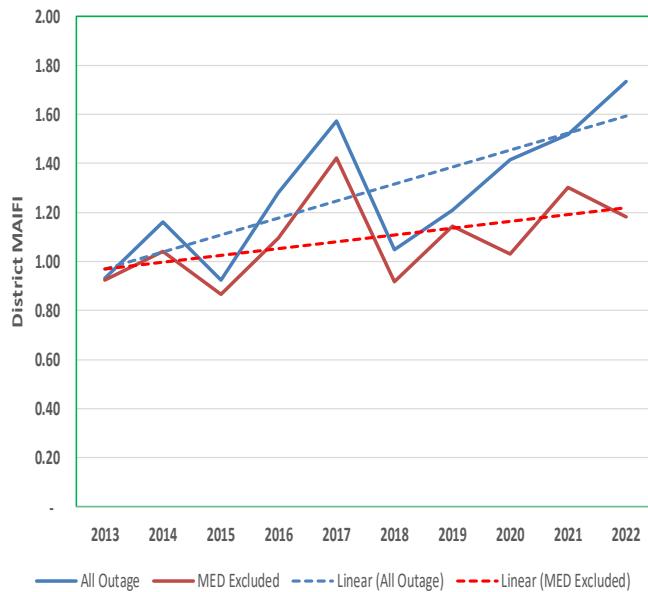
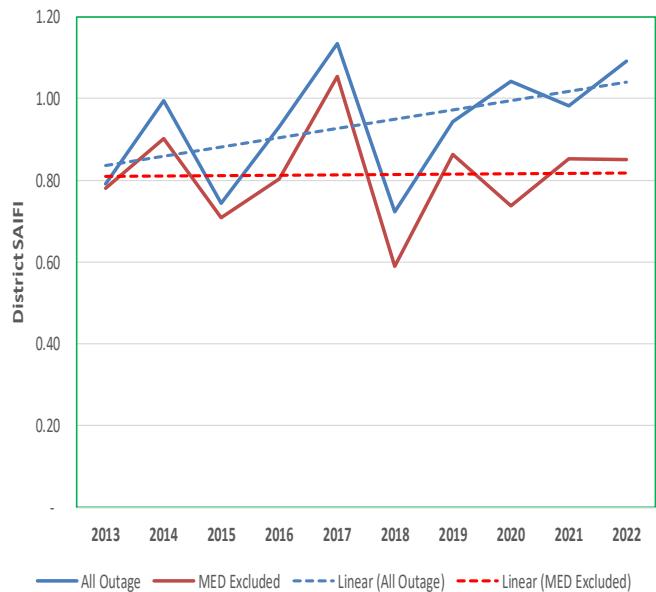
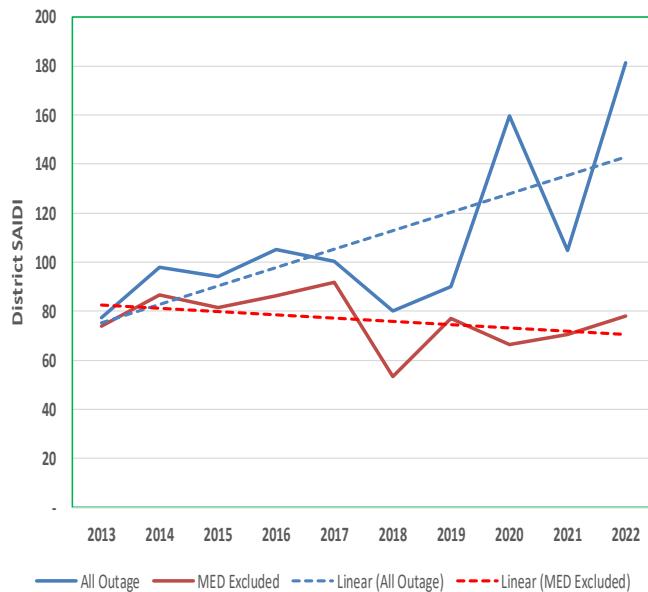
MONROVIA District Reliability Performance



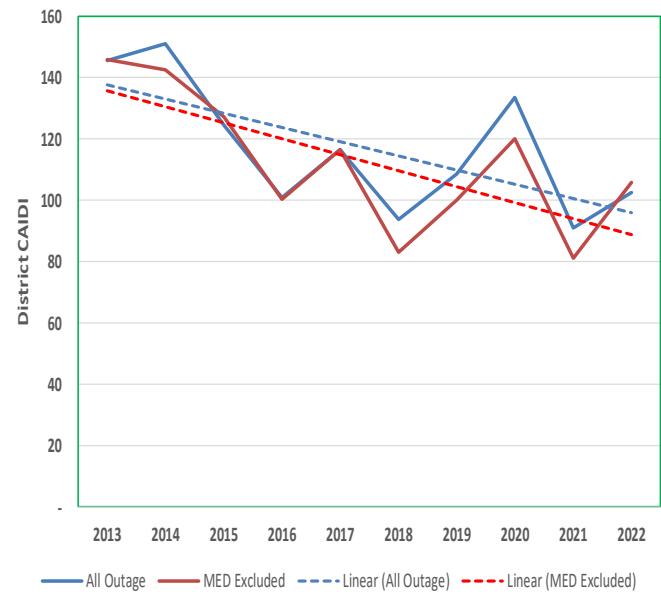
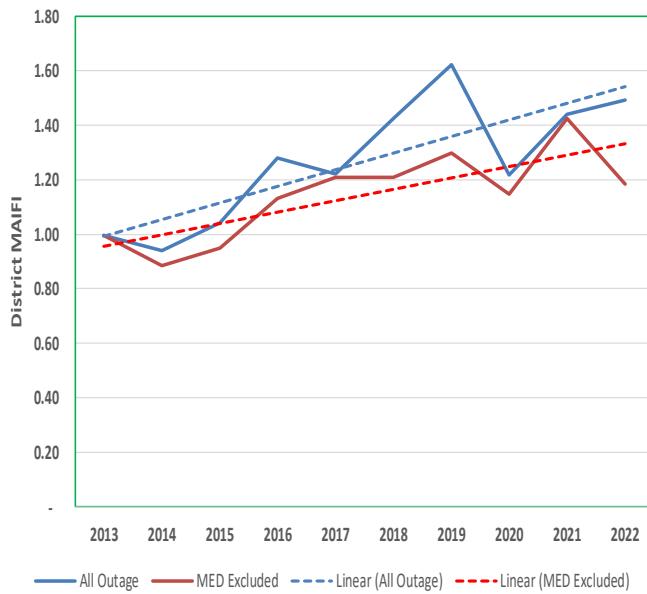
MONTEBELLO District Reliability Performance



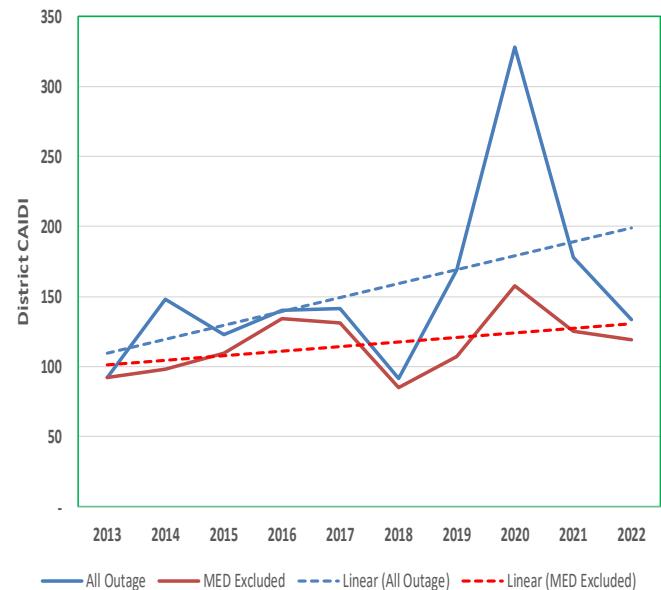
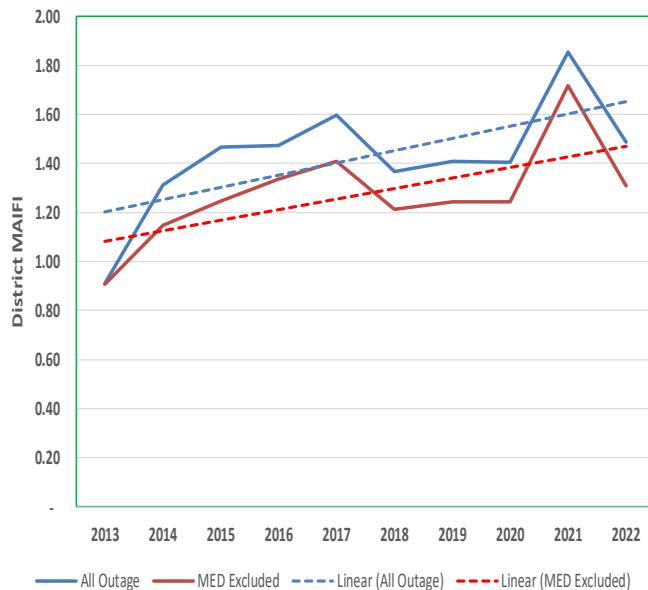
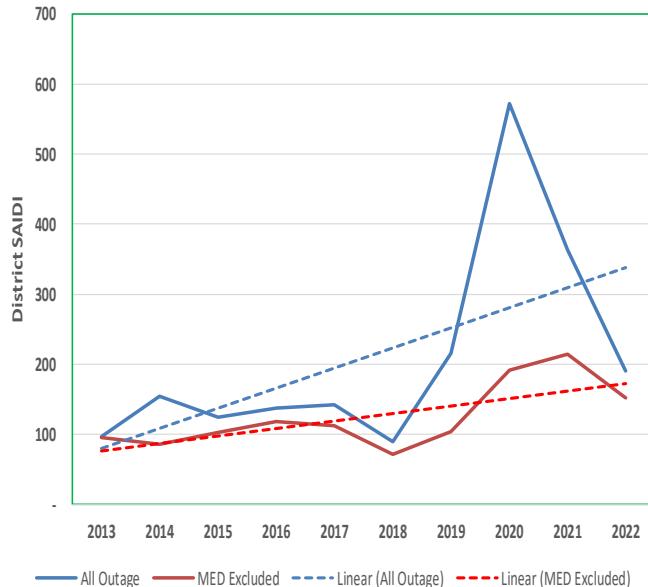
ONTARIO District Reliability Performance



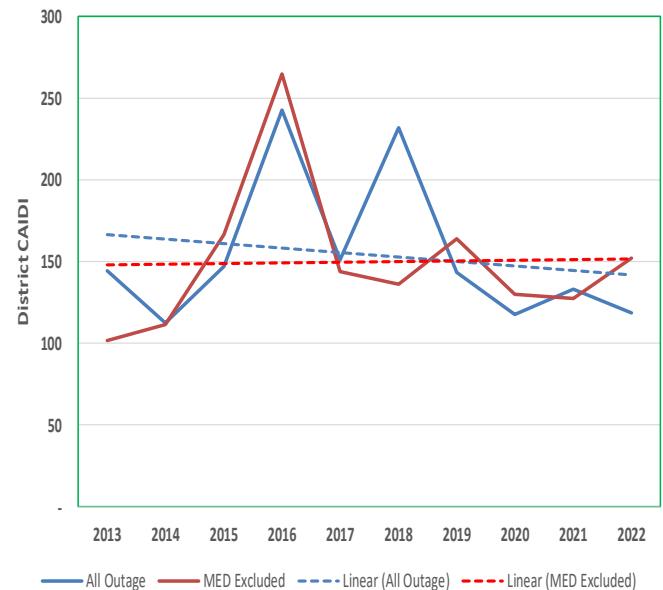
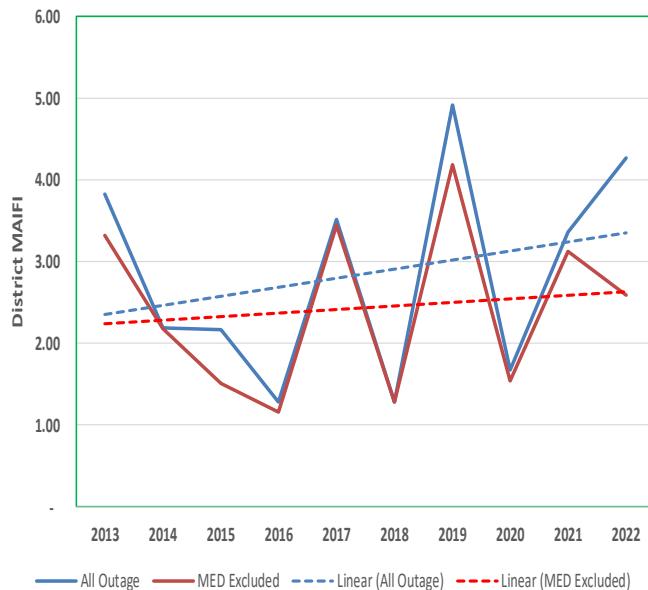
PALM SPRINGS District Reliability Performance



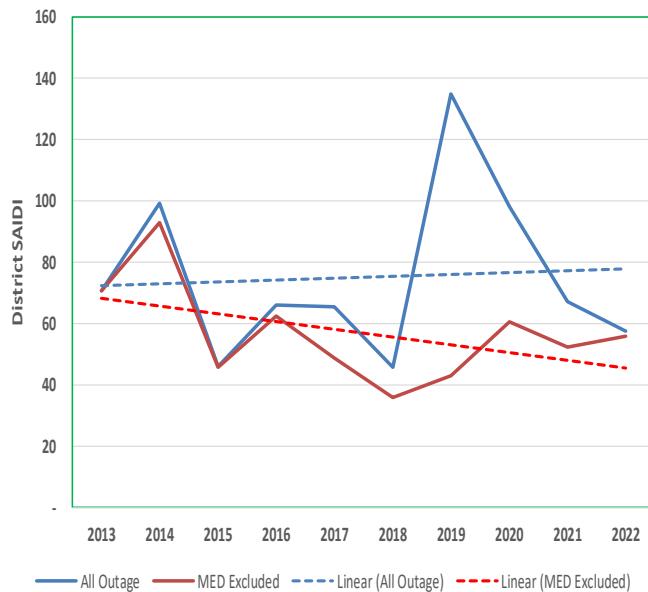
REDLANDS District Reliability Performance



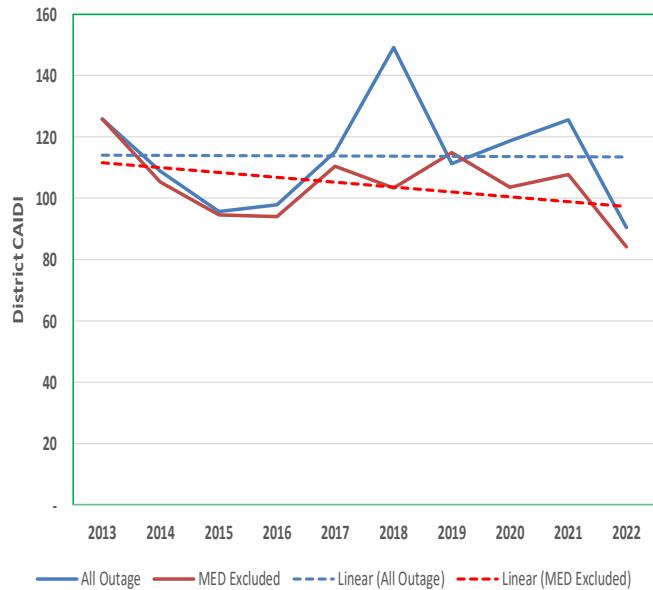
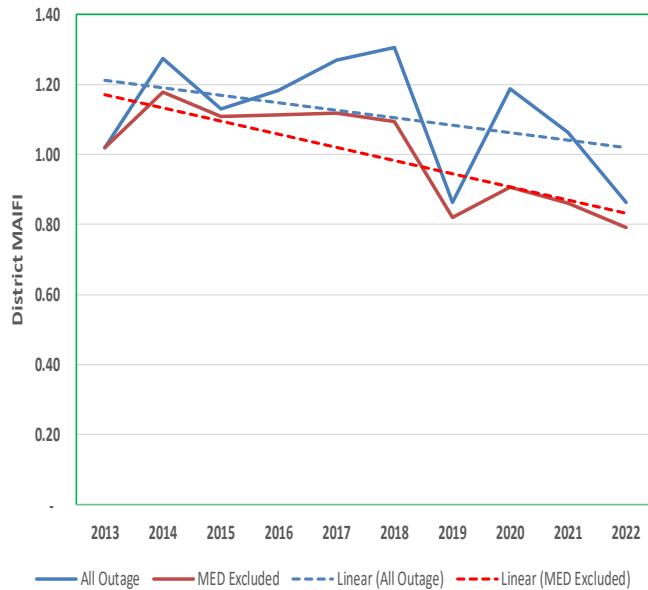
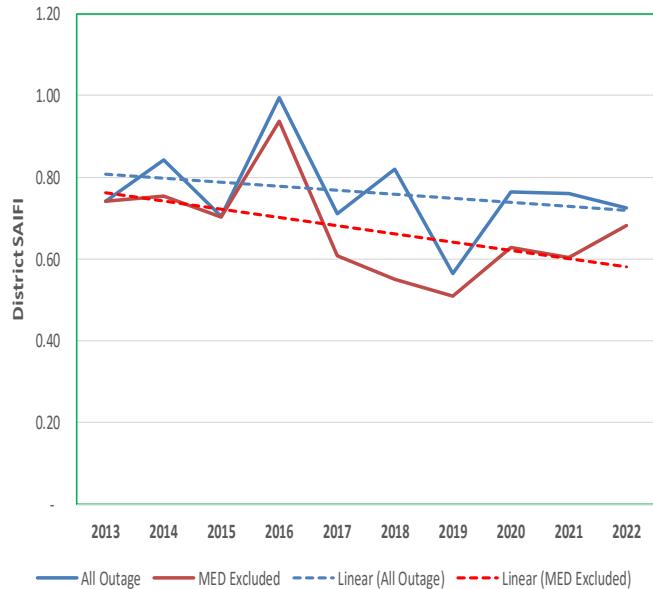
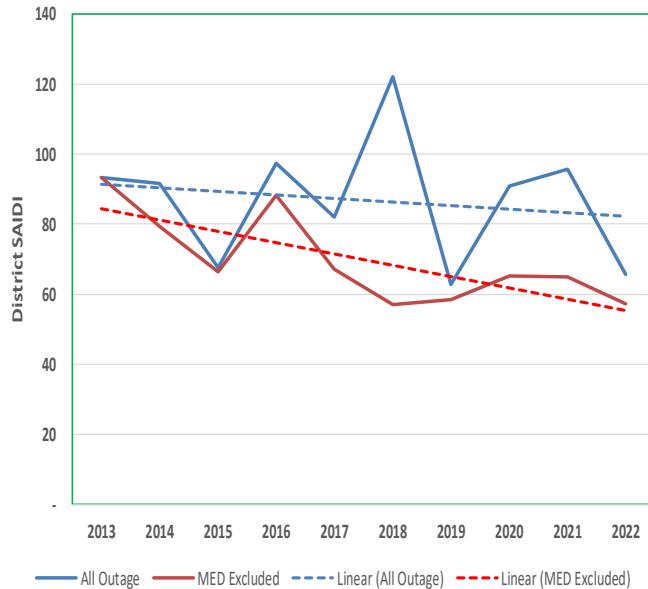
RIDGECREST District Reliability Performance



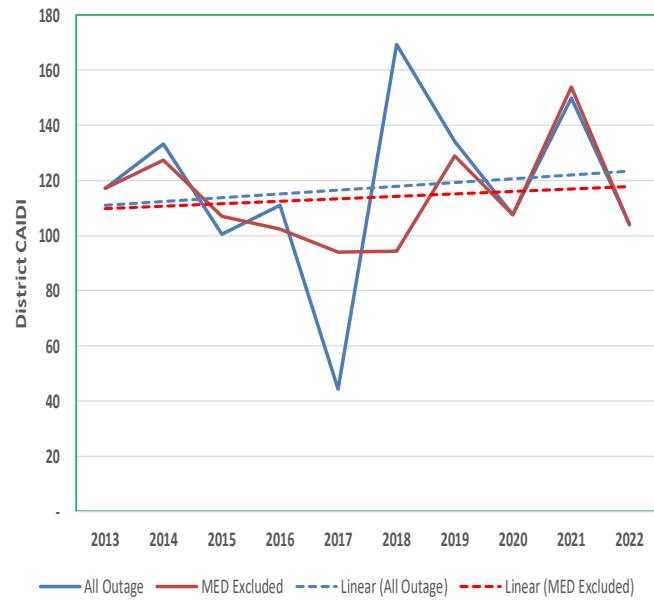
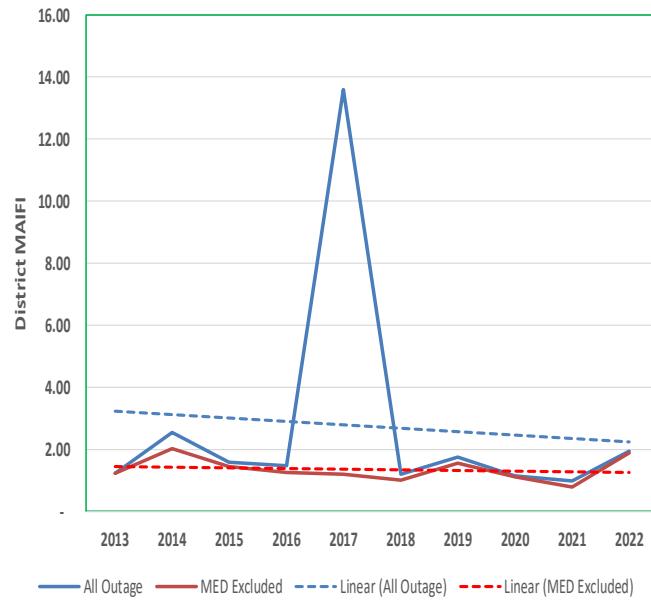
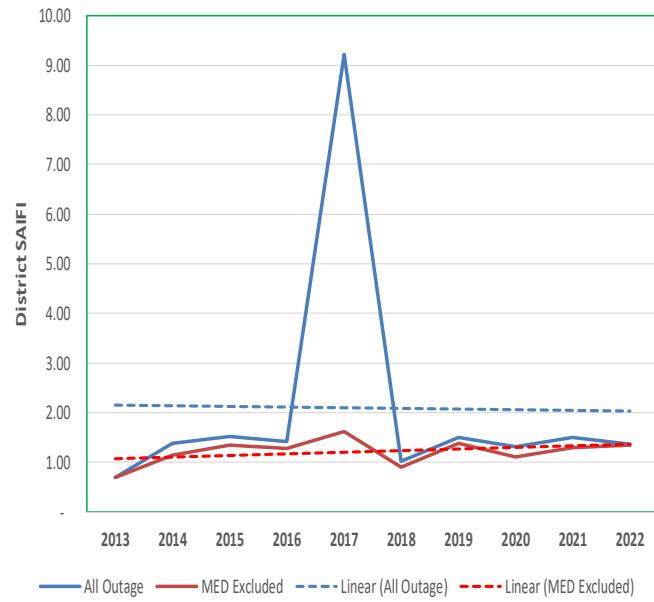
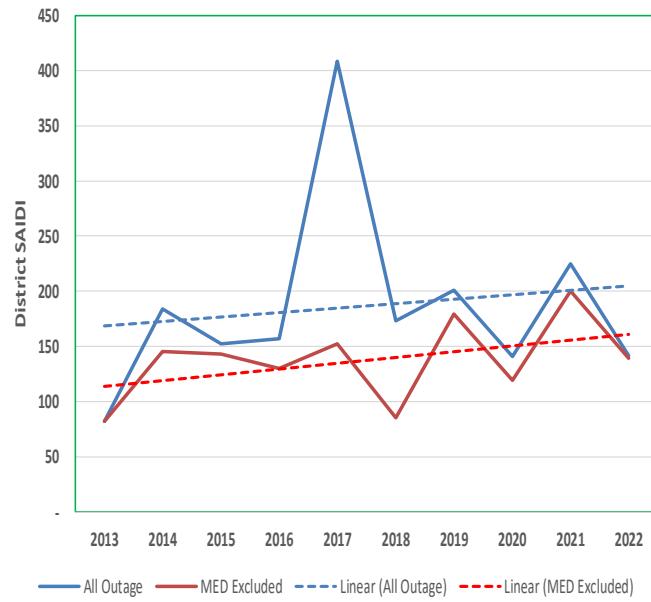
SADDLEBACK District Reliability Performance



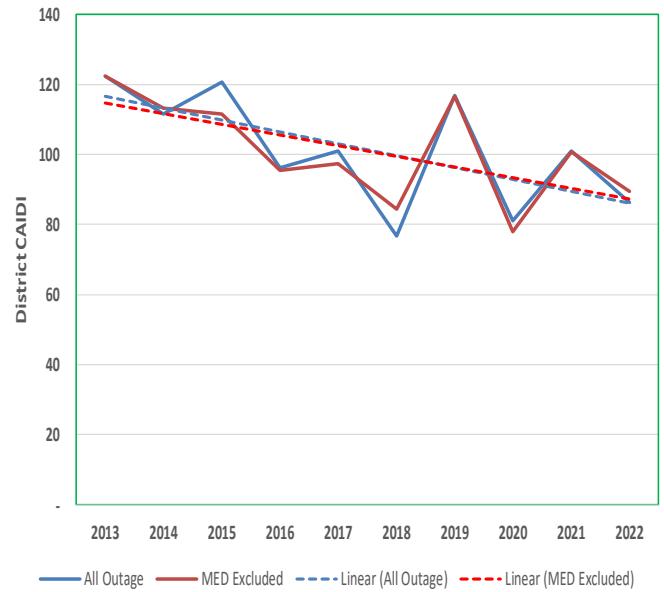
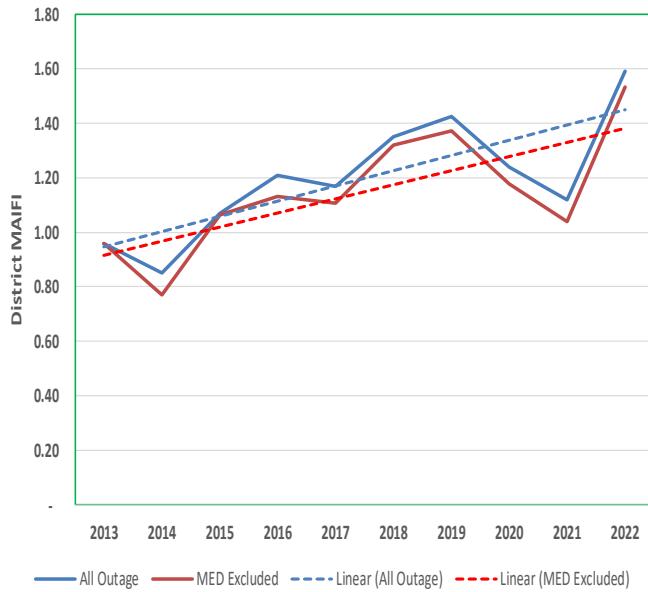
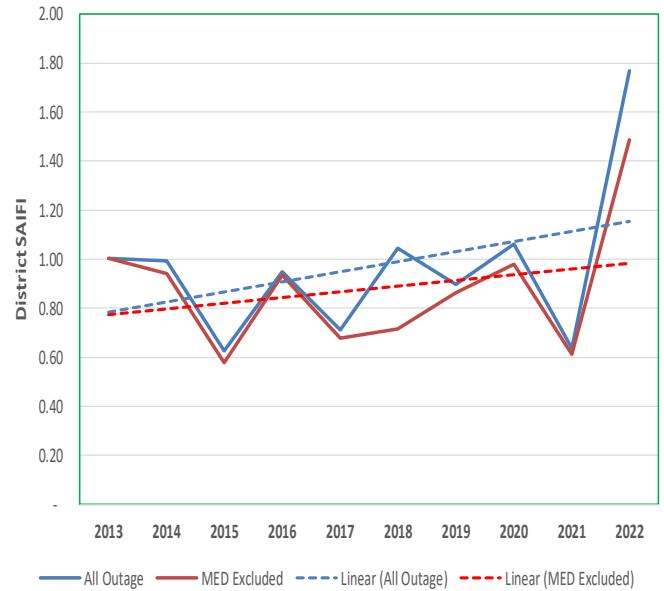
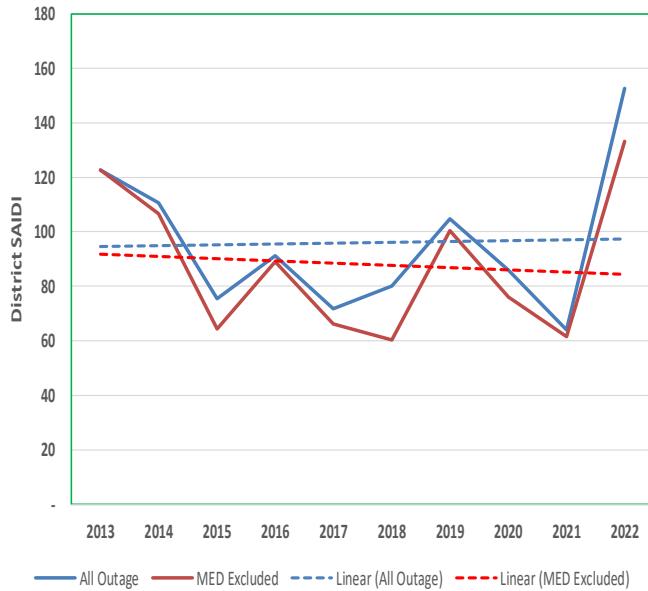
SANTA ANA District Reliability Performance



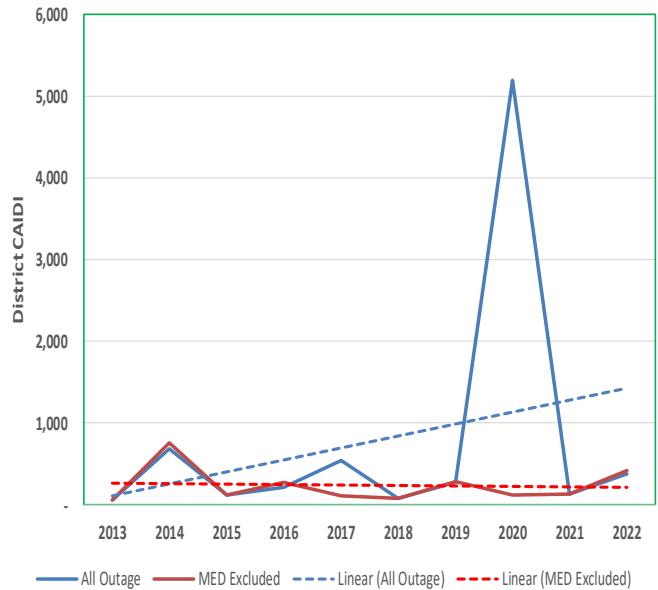
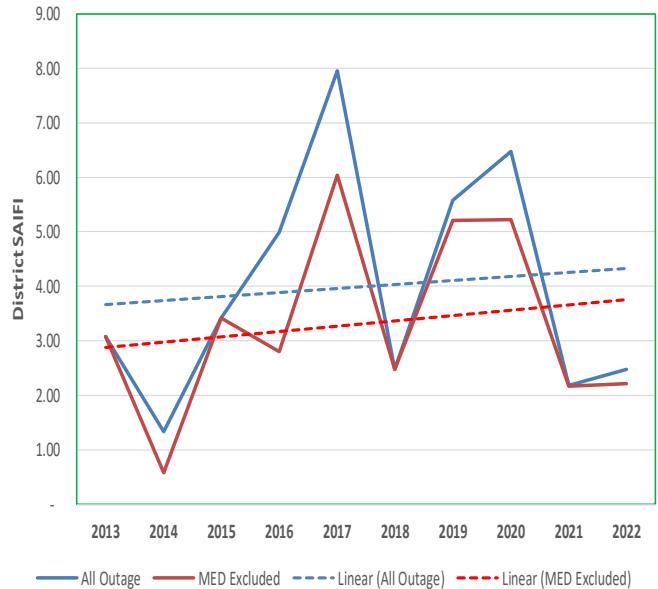
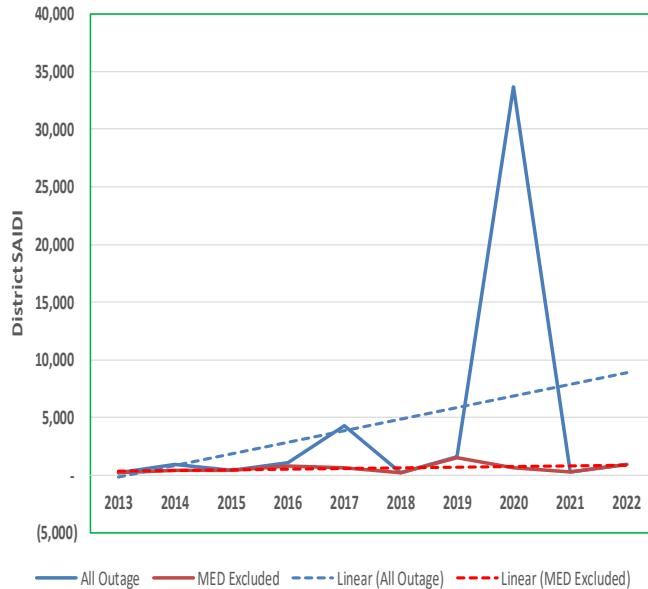
SANTA BARBARA District Reliability Performance



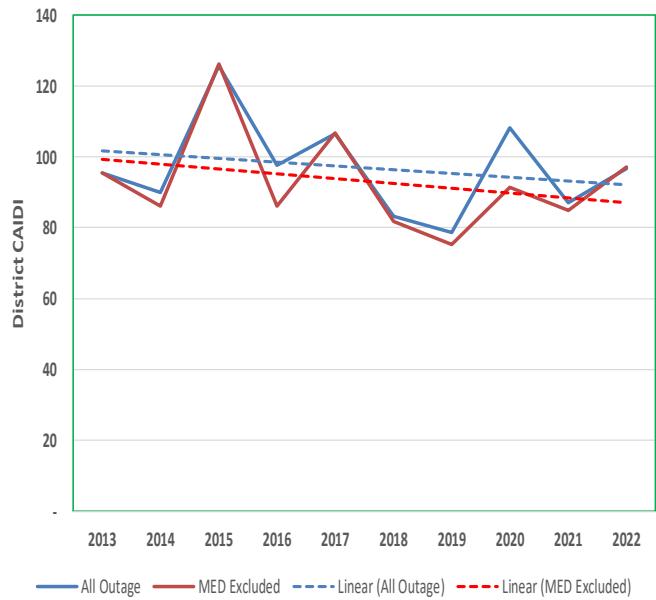
SANTA MONICA District Reliability Performance



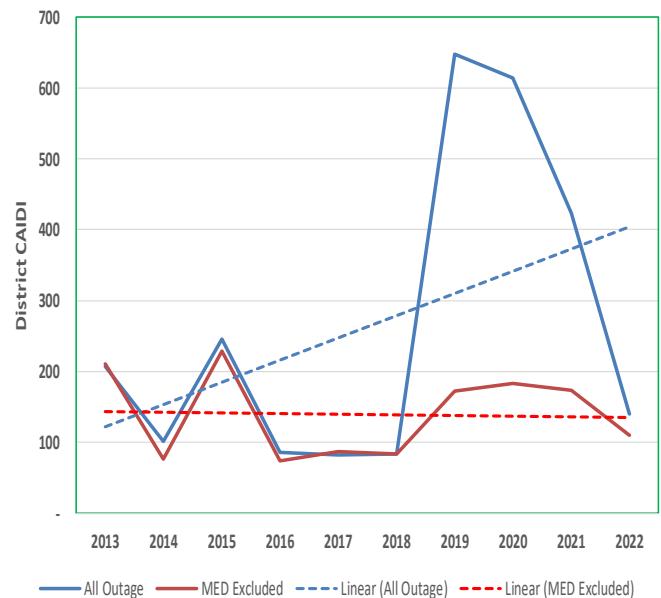
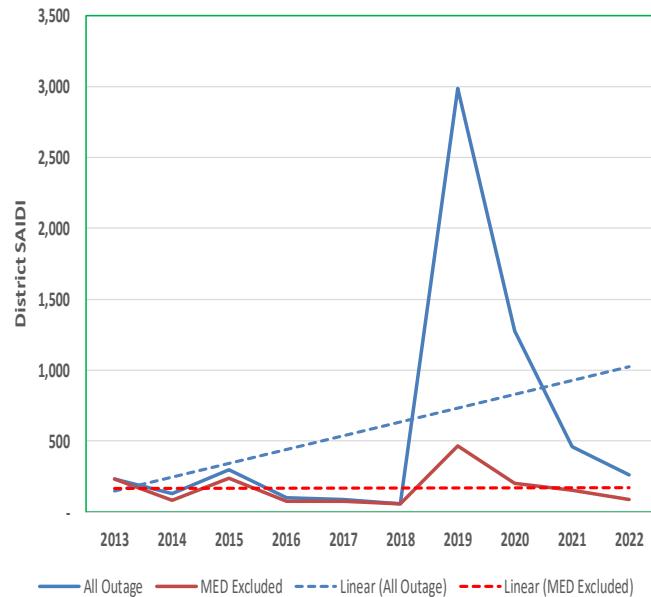
SHAVER LAKE District Reliability Performance



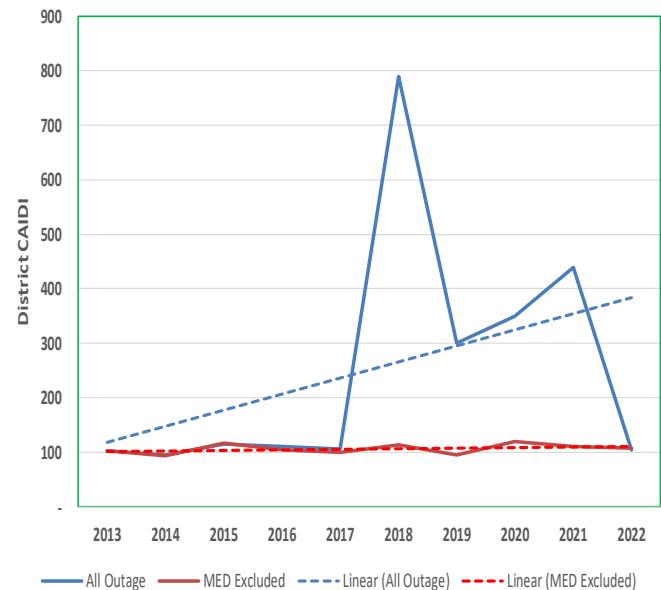
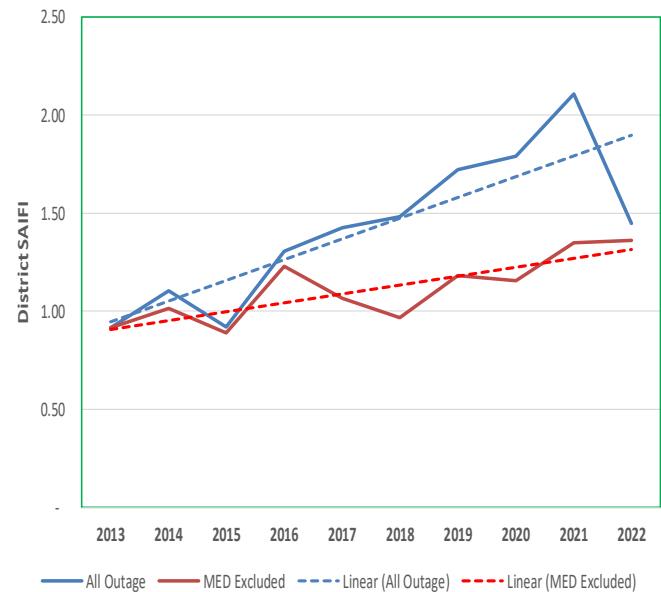
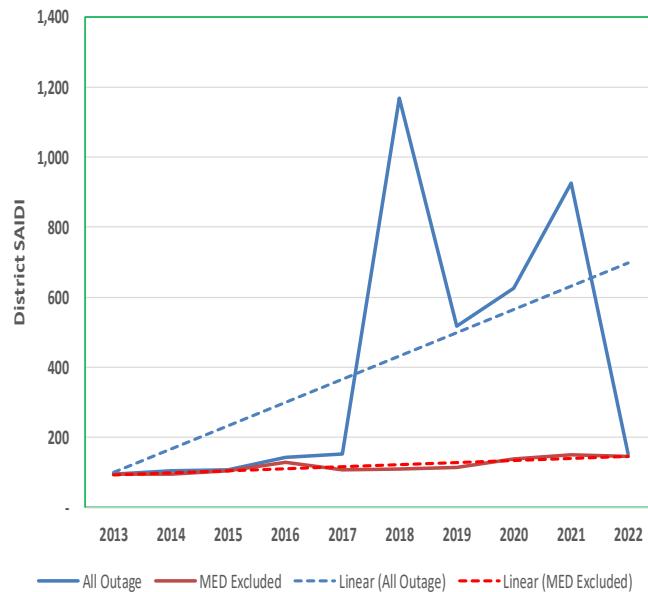
SOUTH BAY District Reliability Performance



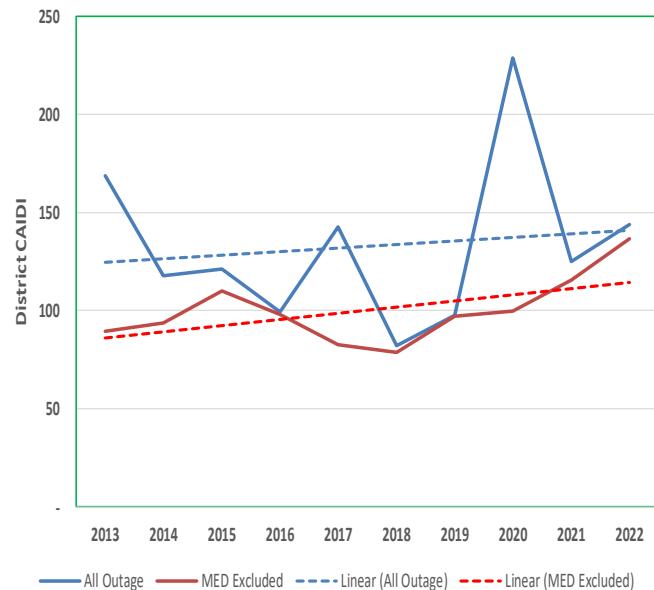
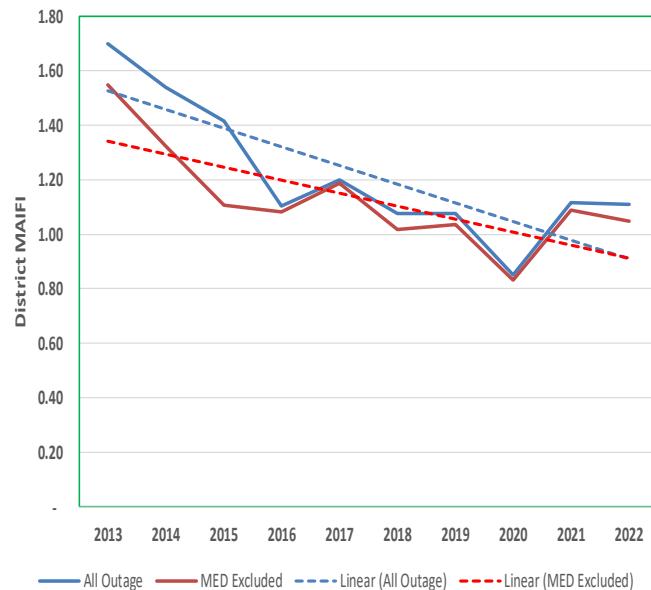
TEHACHAPI District Reliability Performance



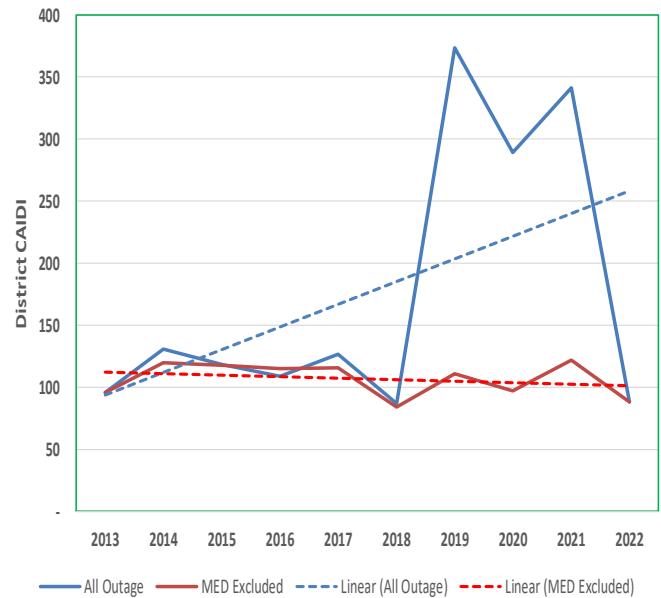
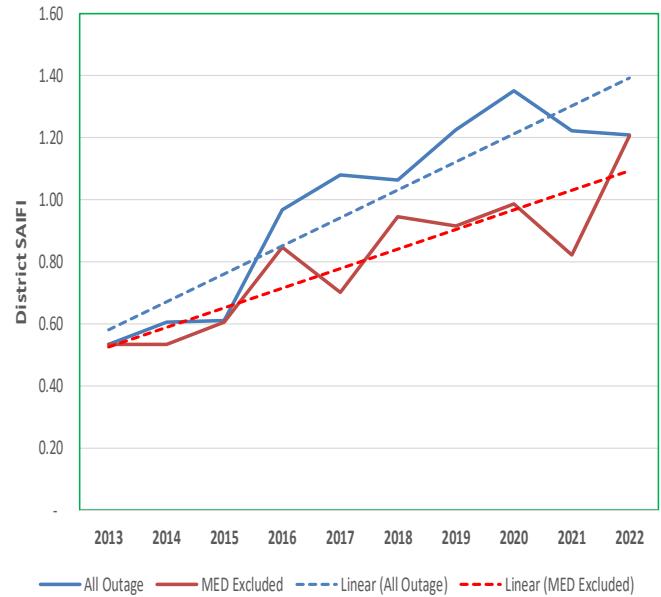
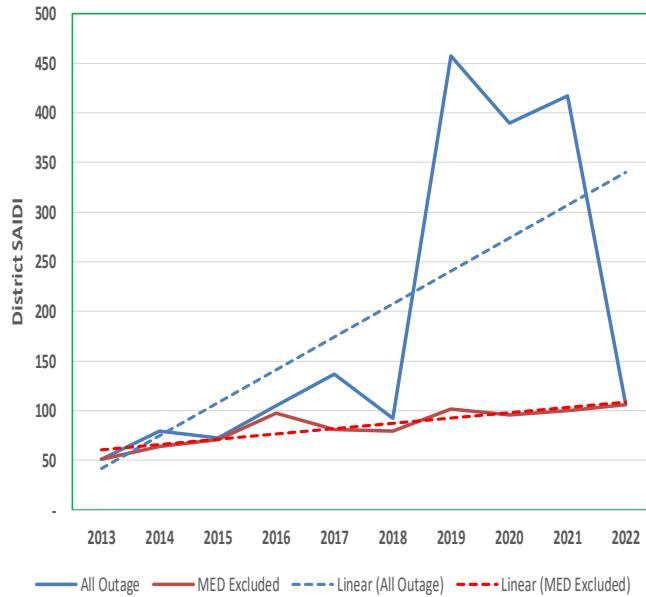
THOUSAND OAKS District Reliability Performance



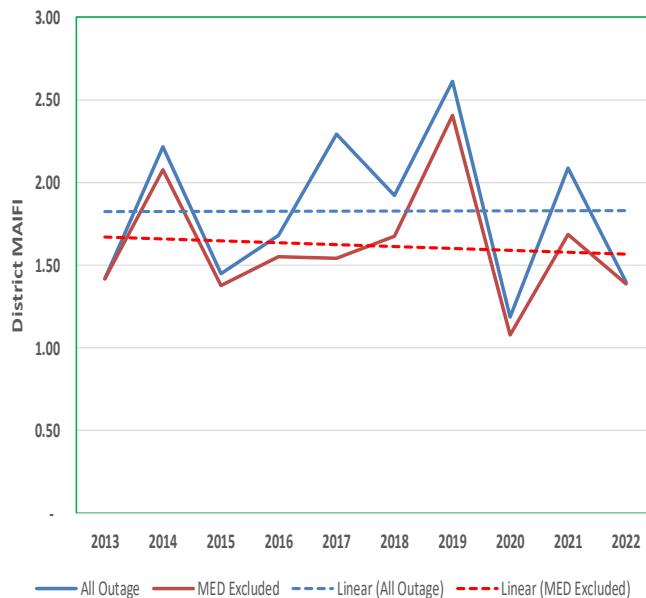
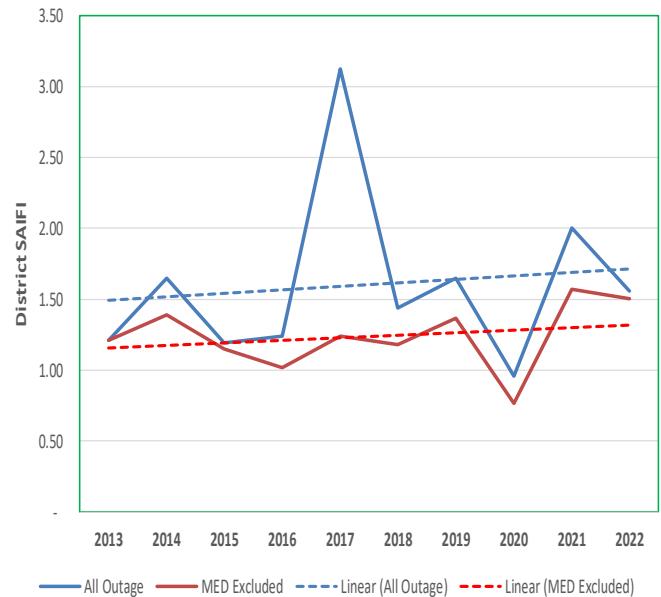
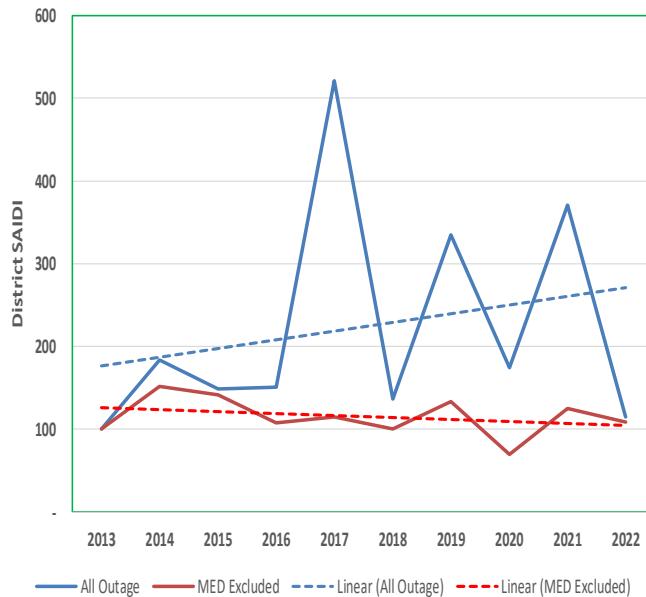
TULARE District Reliability Performance



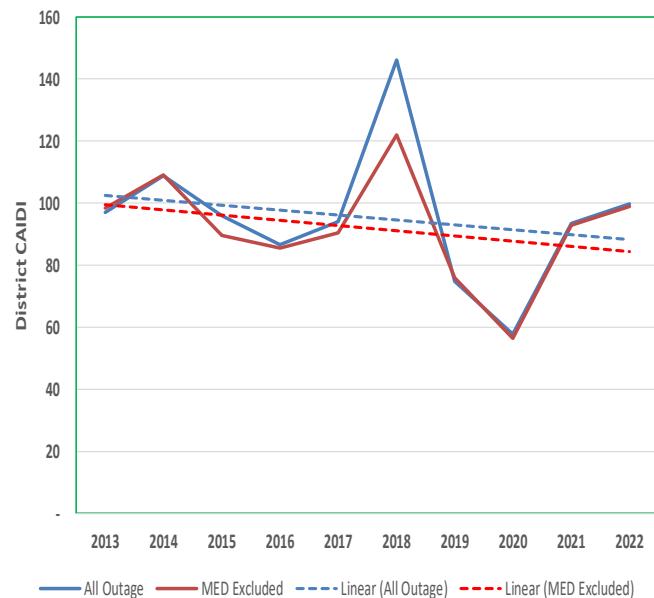
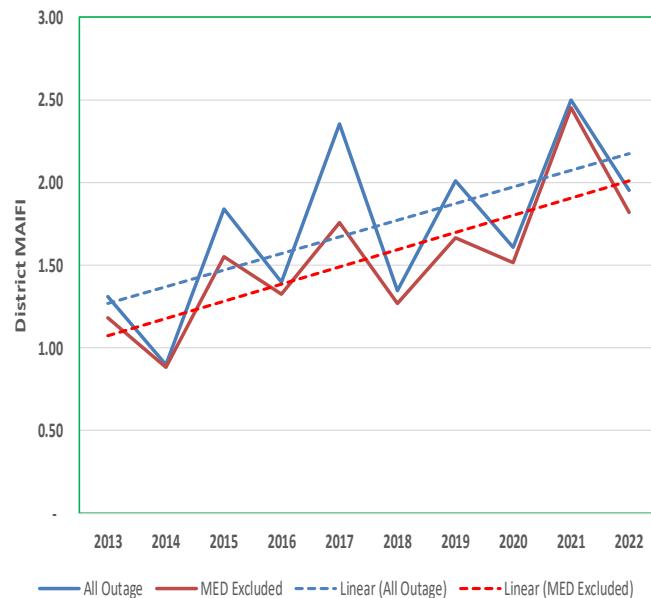
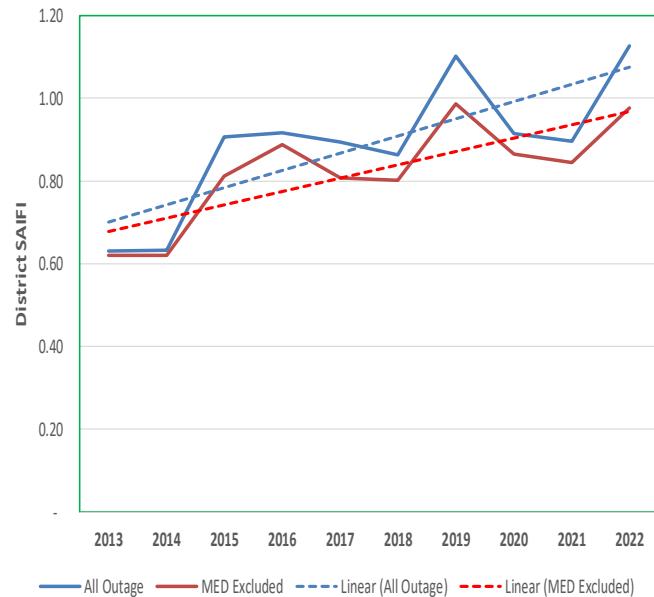
VALENCIA District Reliability Performance



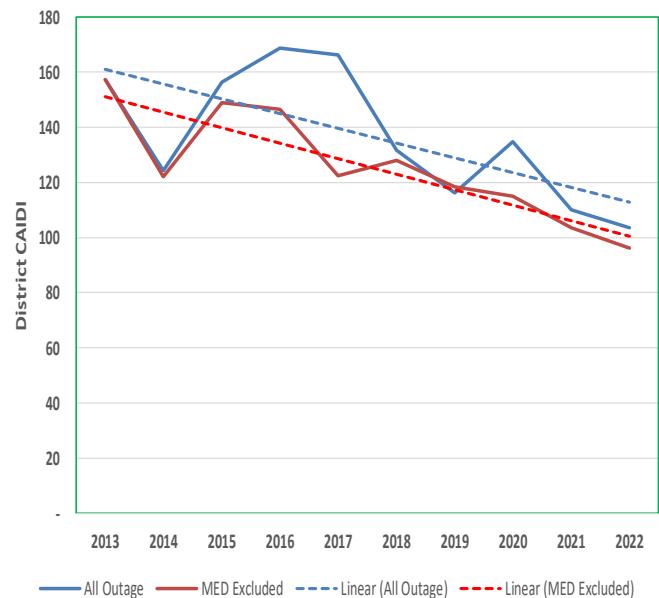
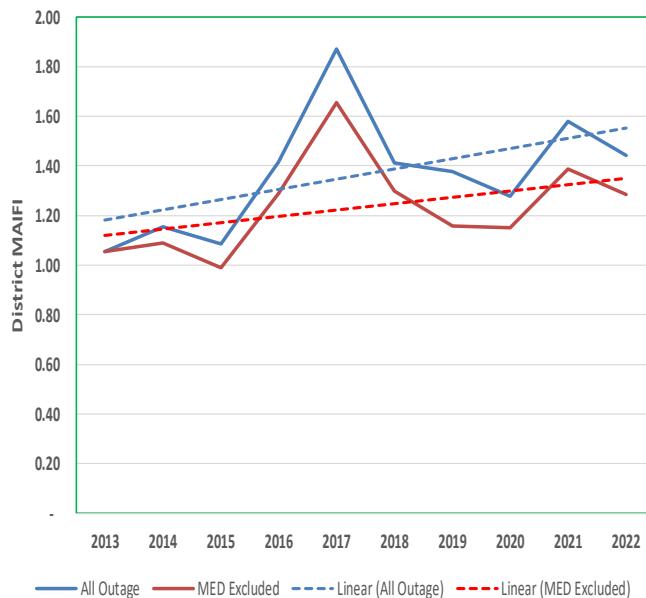
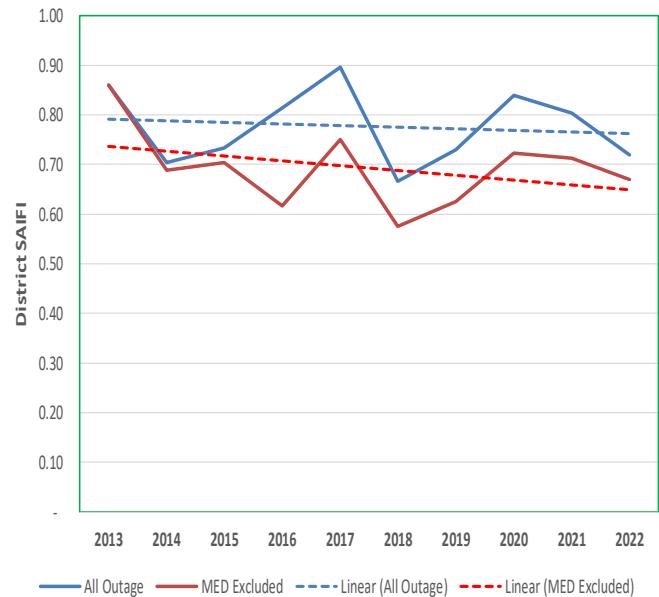
VENTURA District Reliability Performance



VICTORVILLE District Reliability Performance



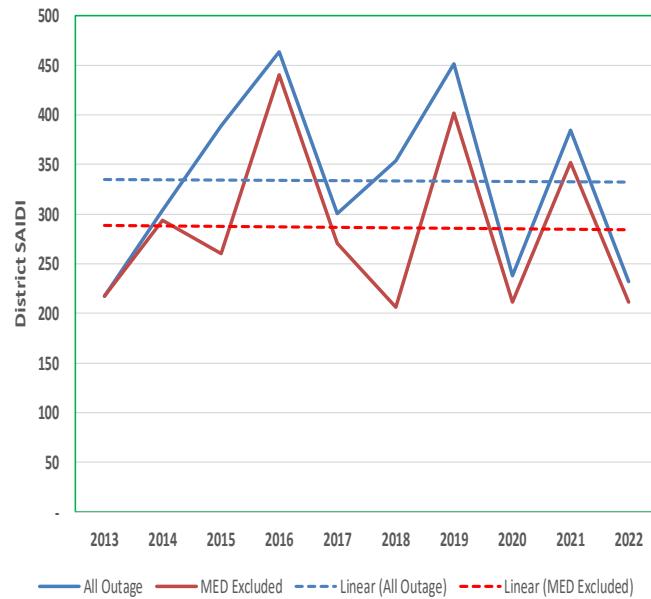
WHITTIER District Reliability Performance



WILDOMAR District Reliability Performance



YUCCA VALLEY District Reliability Performance



SECTION 3 – SYSTEM AND DISTRICT INDICES BASED ON IEEE 1366 FOR THE PAST 10 YEARS INCLUDING PLANNED AND UNPLANNED OUTAGES AND INCLUDING AND EXCLUDING MEDs

Table 5 below contains the required SAIDI, SAIFI, MAIFI⁷ and CAIDI indices for 2013-2022 including and excluding MEDs for the SCE System, Planned and Unplanned outages combined. All calculations contained in the table are based on the IEEE 1366 method for MEDs.

Planned outages are not excluded on MEDs. Planned outages are only accounted for in years 2020, 2021, and 2022 throughout this section and within this report.

Table 5 – System Indices (2013-2022) Planned and Unplanned

| YEAR | Total System Indices (All Interruptions Included) | | | | Total System Indices (Major Event Days Excluded) | | | |
|------|---|-------|-------|--------|--|-------|-------|--------|
| | SAIDI | SAIFI | MAIFI | CAIDI | SAIDI | SAIFI | MAIFI | CAIDI |
| 2013 | 102.61 | 0.91 | 1.20 | 112.76 | 94.49 | 0.88 | 1.18 | 107.85 |
| 2014 | 112.25 | 0.97 | 1.36 | 116.28 | 92.40 | 0.86 | 1.23 | 107.12 |
| 2015 | 114.83 | 0.92 | 1.42 | 125.40 | 100.15 | 0.86 | 1.29 | 116.56 |
| 2016 | 134.48 | 1.10 | 1.55 | 122.26 | 109.98 | 0.99 | 1.40 | 110.69 |
| 2017 | 139.73 | 1.19 | 1.84 | 117.19 | 91.72 | 0.87 | 1.42 | 105.40 |
| 2018 | 136.82 | 0.87 | 1.43 | 156.61 | 71.25 | 0.72 | 1.27 | 99.58 |
| 2019 | 177.97 | 1.04 | 1.38 | 171.17 | 90.75 | 0.87 | 1.23 | 104.75 |
| 2020 | 328.50 | 1.39 | 1.38 | 237.05 | 218.58 | 1.19 | 1.25 | 182.91 |
| 2021 | 395.87 | 1.55 | 1.58 | 255.64 | 319.90 | 1.40 | 1.43 | 228.98 |
| 2022 | 386.49 | 1.58 | 1.42 | 244.47 | 356.40 | 1.47 | 1.24 | 243.27 |

⁷ SCE calculates MAIFI at the individual outage event.

Table 6 below contains the District SAIDI, SAIFI, MAIFI and CAIDI (including and excluding MED).

Table 6 – District Indices (2013-2022) Planned and Unplanned ⁸

| DISTRICT | All Outage | | | | MED Excluded | | | |
|------------------------|------------|--------|--------|---------|--------------|--------|--------|----------|
| | dSAIDI | dSAIFI | dMAIFI | dCAIDI | dSAIDI | dSAIFI | dMAIFI | dCAIDI |
| ANTELOPE VALLEY | | | | | | | | |
| 2013 | 94.416 | 0.619 | 1.172 | 152.621 | 94.222 | 0.613 | 1.166 | 153.772 |
| 2014 | 51.050 | 0.594 | 1.153 | 85.980 | 45.689 | 0.549 | 1.070 | 83.218 |
| 2015 | 104.337 | 0.680 | 1.838 | 153.528 | 70.206 | 0.601 | 1.514 | 116.783 |
| 2016 | 107.670 | 0.870 | 1.523 | 123.791 | 101.199 | 0.814 | 1.430 | 124.322 |
| 2017 | 103.191 | 0.873 | 1.833 | 118.151 | 83.352 | 0.814 | 1.704 | 102.390 |
| 2018 | 55.614 | 0.608 | 1.258 | 91.517 | 50.419 | 0.534 | 1.097 | 94.498 |
| 2019 | 194.754 | 0.668 | 1.347 | 291.498 | 76.406 | 0.569 | 1.249 | 134.164 |
| 2020 | 587.591 | 1.661 | 2.415 | 353.708 | 454.628 | 1.505 | 2.340 | 302.048 |
| 2021 | 379.958 | 1.855 | 1.797 | 204.781 | 366.677 | 1.790 | 1.791 | 204.863 |
| 2022 | 346.951 | 1.389 | 1.428 | 249.743 | 270.192 | 1.135 | 1.082 | 237.966 |
| ARROWHEAD | | | | | | | | |
| 2013 | 180.586 | 1.386 | 5.017 | 130.286 | 134.768 | 1.174 | 3.637 | 114.839 |
| 2014 | 193.249 | 1.590 | 4.018 | 121.532 | 81.968 | 0.898 | 3.035 | 91.277 |
| 2015 | 362.615 | 3.973 | 5.595 | 91.273 | 186.743 | 2.755 | 2.730 | 67.794 |
| 2016 | 659.464 | 2.848 | 5.951 | 231.515 | 200.720 | 1.883 | 4.712 | 106.593 |
| 2017 | 816.518 | 3.861 | 7.057 | 211.496 | 218.331 | 3.058 | 4.093 | 71.391 |
| 2018 | 68.595 | 1.527 | 2.980 | 44.924 | 53.422 | 0.712 | 2.919 | 75.065 |
| 2019 | 3630.637 | 9.592 | 9.883 | 378.500 | 828.270 | 5.814 | 6.160 | 142.452 |
| 2020 | 1362.548 | 4.172 | 4.272 | 326.569 | 1124.080 | 3.849 | 3.320 | 292.026 |
| 2021 | 4358.477 | 7.666 | 6.007 | 568.545 | 3285.347 | 6.848 | 4.149 | 479.739 |
| 2022 | 7224.543 | 7.675 | 3.742 | 941.306 | 7172.911 | 7.130 | 2.251 | 1005.962 |
| BARSTOW | | | | | | | | |
| 2013 | 204.329 | 1.395 | 3.284 | 146.469 | 185.788 | 1.286 | 2.702 | 144.416 |
| 2014 | 201.526 | 1.343 | 2.536 | 150.058 | 173.680 | 1.240 | 2.410 | 140.098 |
| 2015 | 187.113 | 1.174 | 2.859 | 159.416 | 157.379 | 0.997 | 2.131 | 157.841 |
| 2016 | 134.828 | 1.350 | 2.296 | 99.888 | 130.085 | 1.340 | 2.283 | 97.106 |
| 2017 | 357.468 | 2.652 | 4.195 | 134.806 | 356.064 | 2.639 | 4.132 | 134.934 |
| 2018 | 116.698 | 1.373 | 2.110 | 84.988 | 115.274 | 1.342 | 2.077 | 85.929 |
| 2019 | 114.490 | 0.833 | 2.586 | 137.432 | 95.228 | 0.798 | 2.188 | 119.296 |
| 2020 | 196.669 | 1.562 | 2.648 | 125.883 | 191.939 | 1.551 | 2.521 | 123.731 |
| 2021 | 331.931 | 2.924 | 4.586 | 113.536 | 313.007 | 2.637 | 4.389 | 118.691 |
| 2022 | 643.277 | 3.217 | 5.573 | 199.931 | 618.335 | 3.005 | 4.964 | 205.781 |
| BISHOP | | | | | | | | |
| 2013 | 104.436 | 0.514 | 1.267 | 203.233 | 104.425 | 0.514 | 1.267 | 203.232 |
| 2014 | 118.793 | 0.587 | 1.885 | 202.475 | 113.618 | 0.499 | 1.706 | 227.572 |
| 2015 | 298.106 | 2.218 | 3.332 | 134.431 | 298.106 | 2.218 | 3.272 | 134.431 |
| 2016 | 168.592 | 1.216 | 2.820 | 138.643 | 168.530 | 1.216 | 2.711 | 138.603 |
| 2017 | 190.511 | 1.934 | 3.223 | 98.485 | 172.144 | 1.877 | 3.077 | 91.719 |
| 2018 | 139.695 | 0.539 | 1.957 | 258.986 | 136.470 | 0.499 | 1.820 | 273.587 |
| 2019 | 1445.727 | 2.915 | 3.217 | 496.014 | 276.151 | 1.394 | 2.878 | 198.130 |
| 2020 | 540.194 | 2.440 | 1.638 | 221.378 | 540.022 | 2.438 | 1.620 | 221.458 |
| 2021 | 538.678 | 2.935 | 4.783 | 183.517 | 508.139 | 2.869 | 4.630 | 177.139 |
| 2022 | 646.402 | 2.983 | 3.634 | 216.711 | 644.824 | 2.957 | 3.626 | 218.084 |
| BLYTHER | | | | | | | | |
| 2013 | 483.127 | 1.380 | 5.466 | 349.971 | 482.815 | 1.372 | 5.382 | 351.779 |
| 2014 | 707.545 | 2.419 | 4.658 | 292.513 | 707.301 | 2.387 | 4.433 | 296.272 |
| 2015 | 426.997 | 1.515 | 1.396 | 281.754 | 331.521 | 1.129 | 1.163 | 293.751 |
| 2016 | 396.376 | 2.707 | 6.342 | 146.428 | 302.983 | 1.917 | 4.848 | 158.021 |
| 2017 | 684.484 | 2.377 | 3.585 | 287.955 | 683.564 | 2.372 | 3.493 | 288.176 |
| 2018 | 277.723 | 1.571 | 2.198 | 176.833 | 255.608 | 1.321 | 2.168 | 193.449 |
| 2019 | 379.850 | 1.692 | 2.769 | 224.482 | 359.998 | 1.629 | 2.675 | 221.030 |
| 2020 | 482.214 | 2.229 | 1.937 | 216.383 | 444.276 | 2.101 | 1.788 | 211.460 |
| 2021 | 774.478 | 2.381 | 3.820 | 325.277 | 773.435 | 2.376 | 3.720 | 325.525 |
| 2022 | 956.094 | 3.946 | 2.626 | 242.302 | 950.079 | 3.924 | 2.626 | 242.102 |

⁸ Beginning in the 2019 annual report, Catalina District charts are combined with Huntington Beach District since the Catalina District operations have merged with the Huntington Beach District.

| DISTRICT | All Outage | | | | MED Excluded | | | |
|------------------|------------|--------|--------|---------|--------------|--------|--------|---------|
| | dSAIDI | dSAIFI | dMAIFI | dCAIDI | dSAIDI | dSAIFI | dMAIFI | dCAIDI |
| COVINA | | | | | | | | |
| 2013 | 100.505 | 0.856 | 1.004 | 117.414 | 100.297 | 0.853 | 0.992 | 117.582 |
| 2014 | 91.597 | 0.874 | 1.257 | 104.759 | 81.602 | 0.804 | 1.028 | 101.489 |
| 2015 | 100.085 | 0.815 | 1.164 | 122.866 | 99.838 | 0.813 | 1.152 | 122.755 |
| 2016 | 112.134 | 0.974 | 1.319 | 115.182 | 90.930 | 0.875 | 1.145 | 103.915 |
| 2017 | 117.185 | 0.933 | 1.366 | 125.558 | 106.094 | 0.813 | 1.139 | 130.523 |
| 2018 | 103.181 | 0.832 | 1.455 | 124.043 | 73.463 | 0.700 | 1.367 | 104.983 |
| 2019 | 84.296 | 0.864 | 0.999 | 97.598 | 76.846 | 0.800 | 0.923 | 96.037 |
| 2020 | 224.566 | 1.651 | 1.020 | 136.000 | 197.871 | 1.553 | 0.979 | 127.404 |
| 2021 | 257.017 | 1.454 | 1.379 | 176.751 | 248.769 | 1.399 | 1.260 | 177.791 |
| 2022 | 402.708 | 1.417 | 1.235 | 284.237 | 272.465 | 1.239 | 0.960 | 219.959 |
| DOMINGUEZ HILLS | | | | | | | | |
| 2013 | 89.167 | 0.797 | 1.938 | 111.893 | 89.167 | 0.797 | 1.938 | 111.893 |
| 2014 | 82.304 | 0.712 | 1.603 | 115.642 | 73.605 | 0.657 | 1.560 | 112.076 |
| 2015 | 130.629 | 0.967 | 2.049 | 135.097 | 126.046 | 0.934 | 1.958 | 134.903 |
| 2016 | 146.384 | 1.107 | 2.537 | 132.203 | 127.155 | 1.010 | 2.229 | 125.937 |
| 2017 | 123.596 | 0.826 | 2.162 | 149.564 | 86.630 | 0.720 | 1.967 | 120.388 |
| 2018 | 93.365 | 0.852 | 2.447 | 109.544 | 66.378 | 0.718 | 2.266 | 92.400 |
| 2019 | 98.658 | 0.874 | 2.090 | 112.865 | 64.548 | 0.706 | 1.721 | 91.403 |
| 2020 | 267.414 | 1.457 | 2.918 | 183.541 | 220.558 | 1.307 | 2.774 | 168.810 |
| 2021 | 371.671 | 1.539 | 2.795 | 241.537 | 349.582 | 1.361 | 2.610 | 256.935 |
| 2022 | 266.268 | 1.212 | 1.983 | 219.688 | 252.367 | 1.140 | 1.891 | 221.426 |
| FOOTHILL | | | | | | | | |
| 2013 | 85.800 | 0.787 | 0.987 | 109.087 | 85.800 | 0.787 | 0.987 | 109.087 |
| 2014 | 93.349 | 0.932 | 1.285 | 100.146 | 88.147 | 0.861 | 1.249 | 102.400 |
| 2015 | 109.637 | 0.947 | 1.304 | 115.764 | 87.796 | 0.890 | 1.230 | 98.673 |
| 2016 | 142.807 | 1.028 | 1.507 | 138.926 | 138.177 | 1.008 | 1.483 | 137.029 |
| 2017 | 110.528 | 1.118 | 1.387 | 98.876 | 88.001 | 0.890 | 1.213 | 98.910 |
| 2018 | 117.614 | 0.976 | 1.202 | 120.475 | 78.703 | 0.782 | 0.966 | 100.705 |
| 2019 | 273.472 | 1.050 | 1.108 | 260.359 | 69.021 | 0.796 | 1.069 | 86.733 |
| 2020 | 357.697 | 1.636 | 1.656 | 218.590 | 222.997 | 1.349 | 1.501 | 165.360 |
| 2021 | 443.104 | 1.795 | 1.936 | 246.895 | 276.399 | 1.459 | 1.692 | 189.498 |
| 2022 | 313.255 | 1.517 | 1.609 | 206.473 | 294.195 | 1.459 | 1.311 | 201.626 |
| FULLERTON | | | | | | | | |
| 2013 | 90.572 | 0.793 | 0.910 | 114.158 | 90.572 | 0.793 | 0.910 | 114.158 |
| 2014 | 82.229 | 0.723 | 1.004 | 113.749 | 69.998 | 0.649 | 0.974 | 107.849 |
| 2015 | 76.586 | 0.669 | 1.014 | 114.471 | 75.504 | 0.642 | 0.995 | 117.681 |
| 2016 | 92.725 | 0.760 | 1.174 | 122.044 | 73.772 | 0.588 | 0.974 | 125.369 |
| 2017 | 89.287 | 0.676 | 1.211 | 132.085 | 74.154 | 0.584 | 1.084 | 126.996 |
| 2018 | 69.447 | 0.517 | 1.126 | 134.276 | 55.382 | 0.435 | 1.041 | 127.367 |
| 2019 | 82.337 | 0.776 | 1.092 | 106.133 | 73.013 | 0.710 | 1.023 | 102.844 |
| 2020 | 139.505 | 0.841 | 1.177 | 165.924 | 102.006 | 0.663 | 0.780 | 153.788 |
| 2021 | 187.727 | 0.878 | 1.230 | 213.779 | 175.479 | 0.839 | 1.105 | 209.181 |
| 2022 | 223.456 | 1.129 | 0.729 | 197.916 | 214.884 | 1.087 | 0.681 | 197.718 |
| HUNTINGTON BEACH | | | | | | | | |
| 2013 | 66.914 | 0.703 | 0.839 | 95.123 | 66.914 | 0.703 | 0.839 | 95.123 |
| 2014 | 79.795 | 0.813 | 1.105 | 98.101 | 68.381 | 0.752 | 0.978 | 90.981 |
| 2015 | 97.731 | 0.969 | 1.235 | 100.904 | 93.570 | 0.942 | 1.187 | 99.287 |
| 2016 | 127.358 | 1.287 | 1.245 | 98.938 | 107.706 | 1.212 | 1.184 | 88.869 |
| 2017 | 98.780 | 0.972 | 1.458 | 101.647 | 78.932 | 0.852 | 1.190 | 92.648 |
| 2018 | 88.268 | 0.778 | 1.376 | 113.405 | 74.272 | 0.696 | 1.076 | 106.706 |
| 2019 | 97.176 | 1.011 | 1.145 | 96.129 | 81.299 | 0.889 | 0.973 | 91.406 |
| 2020 | 157.334 | 1.092 | 1.070 | 144.063 | 146.479 | 1.009 | 1.019 | 145.158 |
| 2021 | 158.516 | 1.176 | 1.432 | 134.745 | 149.131 | 1.091 | 1.250 | 136.739 |
| 2022 | 281.134 | 1.674 | 1.435 | 167.914 | 274.131 | 1.609 | 1.384 | 170.374 |
| KERNVILLE | | | | | | | | |
| 2013 | 232.181 | 1.964 | 4.925 | 118.189 | 180.865 | 1.577 | 4.824 | 114.682 |
| 2014 | 178.691 | 1.987 | 1.882 | 89.932 | 142.946 | 1.918 | 1.831 | 74.541 |
| 2015 | 286.382 | 0.961 | 1.630 | 297.920 | 231.411 | 0.857 | 1.293 | 270.120 |
| 2016 | 2421.324 | 3.674 | 2.928 | 659.034 | 909.188 | 2.839 | 2.832 | 320.212 |
| 2017 | 305.533 | 3.286 | 4.508 | 92.982 | 290.601 | 3.148 | 4.210 | 92.311 |
| 2018 | 184.411 | 1.141 | 3.104 | 161.652 | 152.818 | 1.009 | 3.087 | 151.390 |
| 2019 | 320.174 | 1.669 | 3.964 | 191.871 | 317.537 | 1.663 | 3.961 | 190.886 |
| 2020 | 849.438 | 3.747 | 2.722 | 226.676 | 826.374 | 3.703 | 2.715 | 223.172 |
| 2021 | 2528.357 | 3.317 | 2.098 | 762.174 | 1758.036 | 2.982 | 1.391 | 589.551 |
| 2022 | 2479.589 | 5.795 | 4.706 | 427.907 | 2385.099 | 5.561 | 2.665 | 428.888 |

| DISTRICT | All Outage | | | | MED Excluded | | | |
|---------------------|------------|--------|--------|---------|--------------|--------|--------|---------|
| | dSAIDI | dSAIFI | dMAIFI | dCAIDI | dSAIDI | dSAIFI | dMAIFI | dCAIDI |
| LONG BEACH | | | | | | | | |
| 2013 | 75.107 | 0.699 | 0.779 | 107.497 | 74.628 | 0.694 | 0.775 | 107.551 |
| 2014 | 66.331 | 0.606 | 1.168 | 109.419 | 57.887 | 0.548 | 1.083 | 105.542 |
| 2015 | 164.463 | 0.894 | 1.185 | 183.904 | 89.160 | 0.846 | 1.168 | 105.378 |
| 2016 | 135.163 | 0.857 | 1.308 | 157.701 | 96.978 | 0.695 | 1.095 | 139.507 |
| 2017 | 77.173 | 0.708 | 1.177 | 108.967 | 59.503 | 0.590 | 1.017 | 100.881 |
| 2018 | 51.477 | 0.445 | 1.223 | 115.686 | 42.300 | 0.400 | 1.100 | 105.879 |
| 2019 | 78.184 | 0.643 | 0.965 | 121.652 | 60.171 | 0.572 | 0.818 | 105.248 |
| 2020 | 173.762 | 0.895 | 1.229 | 194.141 | 158.366 | 0.808 | 1.136 | 195.999 |
| 2021 | 208.805 | 1.096 | 1.290 | 190.572 | 198.765 | 1.022 | 1.141 | 194.465 |
| 2022 | 229.653 | 1.231 | 1.093 | 186.587 | 218.535 | 1.150 | 0.982 | 190.040 |
| MENIFEE | | | | | | | | |
| 2013 | 107.388 | 1.264 | 0.744 | 84.979 | 106.298 | 1.220 | 0.725 | 87.135 |
| 2014 | 156.682 | 1.323 | 1.573 | 118.437 | 77.407 | 1.004 | 1.276 | 77.068 |
| 2015 | 111.460 | 0.978 | 1.302 | 113.971 | 85.322 | 0.876 | 1.067 | 97.393 |
| 2016 | 156.748 | 1.311 | 1.448 | 119.535 | 139.005 | 1.191 | 1.338 | 116.738 |
| 2017 | 130.467 | 0.965 | 1.311 | 135.265 | 72.854 | 0.765 | 1.200 | 95.225 |
| 2018 | 174.057 | 0.897 | 1.436 | 194.002 | 70.952 | 0.696 | 1.270 | 102.015 |
| 2019 | 99.483 | 0.859 | 1.027 | 115.814 | 76.890 | 0.750 | 0.860 | 102.488 |
| 2020 | 372.446 | 1.579 | 1.124 | 235.842 | 195.280 | 1.264 | 1.012 | 154.522 |
| 2021 | 394.953 | 1.621 | 0.853 | 243.643 | 311.099 | 1.471 | 0.750 | 211.430 |
| 2022 | 330.954 | 1.546 | 0.935 | 214.003 | 323.830 | 1.495 | 0.878 | 216.623 |
| MONROVIA | | | | | | | | |
| 2013 | 99.116 | 1.017 | 1.322 | 97.496 | 98.965 | 1.015 | 1.311 | 97.500 |
| 2014 | 133.317 | 1.158 | 1.258 | 115.176 | 96.366 | 1.005 | 1.069 | 95.847 |
| 2015 | 96.679 | 0.881 | 1.618 | 109.737 | 95.327 | 0.863 | 1.554 | 110.466 |
| 2016 | 116.575 | 0.844 | 1.652 | 138.064 | 93.387 | 0.772 | 1.523 | 121.000 |
| 2017 | 105.003 | 0.982 | 1.797 | 106.955 | 91.997 | 0.925 | 1.699 | 99.414 |
| 2018 | 243.023 | 1.427 | 1.614 | 170.294 | 102.583 | 1.030 | 1.453 | 99.573 |
| 2019 | 86.095 | 0.824 | 1.399 | 104.506 | 75.962 | 0.724 | 1.239 | 104.947 |
| 2020 | 345.676 | 1.377 | 1.713 | 251.066 | 274.782 | 1.166 | 1.505 | 235.572 |
| 2021 | 418.970 | 1.715 | 1.402 | 244.227 | 408.688 | 1.673 | 1.300 | 244.291 |
| 2022 | 469.731 | 1.699 | 1.776 | 276.405 | 316.563 | 1.323 | 1.443 | 239.306 |
| MONTEBELLO | | | | | | | | |
| 2013 | 118.078 | 1.174 | 1.890 | 100.609 | 117.713 | 1.169 | 1.890 | 100.660 |
| 2014 | 158.337 | 1.164 | 1.959 | 136.021 | 124.689 | 1.020 | 1.763 | 122.192 |
| 2015 | 150.280 | 1.183 | 2.213 | 126.992 | 145.303 | 1.131 | 2.087 | 128.462 |
| 2016 | 133.522 | 1.166 | 2.057 | 114.552 | 107.263 | 1.043 | 1.882 | 102.871 |
| 2017 | 123.980 | 0.989 | 2.181 | 125.388 | 96.853 | 0.877 | 1.873 | 110.467 |
| 2018 | 160.883 | 1.063 | 2.269 | 151.313 | 98.880 | 0.782 | 1.859 | 126.380 |
| 2019 | 127.517 | 1.176 | 1.906 | 108.427 | 108.382 | 1.042 | 1.789 | 104.046 |
| 2020 | 300.075 | 1.432 | 1.792 | 209.519 | 238.507 | 1.244 | 1.616 | 191.756 |
| 2021 | 327.533 | 1.418 | 2.057 | 230.925 | 321.009 | 1.390 | 1.914 | 230.973 |
| 2022 | 888.511 | 1.588 | 1.719 | 559.498 | 857.081 | 1.462 | 1.582 | 586.243 |
| ONTARIO | | | | | | | | |
| 2013 | 77.392 | 0.791 | 0.933 | 97.841 | 74.037 | 0.782 | 0.926 | 94.728 |
| 2014 | 97.912 | 0.996 | 1.160 | 98.337 | 86.702 | 0.902 | 1.041 | 96.138 |
| 2015 | 94.043 | 0.744 | 0.926 | 126.432 | 81.608 | 0.709 | 0.867 | 115.156 |
| 2016 | 105.067 | 0.930 | 1.282 | 112.936 | 86.158 | 0.803 | 1.095 | 107.337 |
| 2017 | 100.432 | 1.135 | 1.572 | 88.514 | 91.781 | 1.054 | 1.422 | 87.094 |
| 2018 | 80.041 | 0.723 | 1.048 | 110.711 | 53.434 | 0.589 | 0.918 | 90.776 |
| 2019 | 90.157 | 0.943 | 1.211 | 95.597 | 76.942 | 0.864 | 1.145 | 89.046 |
| 2020 | 248.936 | 1.290 | 1.417 | 192.925 | 155.835 | 0.987 | 1.033 | 157.907 |
| 2021 | 196.445 | 1.199 | 1.524 | 163.810 | 162.320 | 1.071 | 1.305 | 151.606 |
| 2022 | 310.845 | 1.380 | 1.738 | 225.257 | 207.521 | 1.139 | 1.186 | 182.268 |
| PALM SPRINGS | | | | | | | | |
| 2013 | 112.796 | 0.774 | 0.997 | 145.669 | 112.193 | 0.769 | 0.997 | 145.815 |
| 2014 | 107.044 | 0.708 | 0.941 | 151.109 | 95.150 | 0.667 | 0.885 | 142.664 |
| 2015 | 99.542 | 0.800 | 1.042 | 124.376 | 95.795 | 0.753 | 0.949 | 127.171 |
| 2016 | 107.581 | 1.066 | 1.281 | 100.909 | 101.363 | 1.010 | 1.133 | 100.351 |
| 2017 | 119.105 | 1.022 | 1.220 | 116.564 | 116.436 | 0.998 | 1.210 | 116.632 |
| 2018 | 73.949 | 0.788 | 1.426 | 93.794 | 60.306 | 0.726 | 1.208 | 83.104 |
| 2019 | 133.770 | 1.233 | 1.623 | 108.492 | 91.606 | 0.915 | 1.298 | 100.088 |
| 2020 | 267.896 | 1.258 | 1.219 | 212.890 | 241.578 | 1.140 | 1.147 | 211.899 |
| 2021 | 246.427 | 1.337 | 1.447 | 184.263 | 236.167 | 1.322 | 1.430 | 178.656 |
| 2022 | 276.696 | 1.310 | 1.492 | 211.296 | 268.011 | 1.201 | 1.184 | 223.088 |

| DISTRICT | All Outage | | | | MED Excluded | | | |
|----------------------|------------|--------|--------|---------|--------------|--------|--------|---------|
| | dSAIDI | dSAIFI | dMAIFI | dCAIDI | dSAIDI | dSAIFI | dMAIFI | dCAIDI |
| REDLANDS | | | | | | | | |
| 2013 | 96.481 | 1.044 | 0.911 | 92.410 | 95.273 | 1.036 | 0.908 | 91.977 |
| 2014 | 154.249 | 1.040 | 1.312 | 148.326 | 85.542 | 0.872 | 1.149 | 98.044 |
| 2015 | 124.519 | 1.012 | 1.467 | 122.990 | 102.289 | 0.935 | 1.247 | 109.365 |
| 2016 | 137.110 | 0.978 | 1.475 | 140.164 | 118.776 | 0.883 | 1.336 | 134.494 |
| 2017 | 142.591 | 1.009 | 1.595 | 141.350 | 112.447 | 0.856 | 1.407 | 131.325 |
| 2018 | 88.933 | 0.973 | 1.367 | 91.372 | 71.012 | 0.833 | 1.212 | 85.242 |
| 2019 | 215.229 | 1.275 | 1.407 | 168.810 | 104.260 | 0.970 | 1.243 | 107.496 |
| 2020 | 741.540 | 2.190 | 1.407 | 338.528 | 360.492 | 1.660 | 1.245 | 217.154 |
| 2021 | 707.241 | 2.763 | 1.864 | 255.942 | 557.944 | 2.427 | 1.725 | 229.874 |
| 2022 | 751.241 | 2.290 | 1.497 | 328.022 | 712.720 | 2.140 | 1.318 | 333.037 |
| RIDGECREST | | | | | | | | |
| 2013 | 161.952 | 1.122 | 3.828 | 144.376 | 83.920 | 0.824 | 3.315 | 101.793 |
| 2014 | 176.844 | 1.573 | 2.193 | 112.413 | 167.794 | 1.509 | 2.180 | 111.207 |
| 2015 | 148.895 | 1.012 | 2.169 | 147.145 | 139.509 | 0.837 | 1.514 | 166.702 |
| 2016 | 254.311 | 1.048 | 1.283 | 242.667 | 249.209 | 0.941 | 1.160 | 264.837 |
| 2017 | 164.281 | 1.089 | 3.519 | 150.868 | 153.577 | 1.066 | 3.447 | 144.028 |
| 2018 | 254.588 | 1.099 | 1.287 | 231.588 | 99.802 | 0.732 | 1.278 | 136.389 |
| 2019 | 299.989 | 2.092 | 4.915 | 143.406 | 296.459 | 1.807 | 4.181 | 164.030 |
| 2020 | 219.091 | 1.254 | 1.683 | 174.747 | 213.114 | 1.112 | 1.550 | 191.674 |
| 2021 | 295.638 | 1.579 | 3.375 | 187.214 | 258.597 | 1.345 | 3.144 | 192.276 |
| 2022 | 688.212 | 3.106 | 4.298 | 221.570 | 639.558 | 2.298 | 2.628 | 278.320 |
| SADDLEBACK | | | | | | | | |
| 2013 | 70.688 | 0.532 | 0.513 | 132.957 | 70.688 | 0.532 | 0.513 | 132.957 |
| 2014 | 99.074 | 0.745 | 0.556 | 133.025 | 92.899 | 0.708 | 0.549 | 131.230 |
| 2015 | 46.026 | 0.385 | 0.379 | 119.543 | 45.654 | 0.384 | 0.379 | 118.976 |
| 2016 | 65.991 | 0.646 | 0.780 | 102.225 | 62.466 | 0.602 | 0.739 | 103.695 |
| 2017 | 65.349 | 0.576 | 0.695 | 113.479 | 48.740 | 0.482 | 0.545 | 101.179 |
| 2018 | 45.805 | 0.377 | 0.413 | 121.548 | 35.830 | 0.316 | 0.364 | 113.487 |
| 2019 | 134.866 | 0.669 | 0.388 | 201.606 | 42.994 | 0.512 | 0.334 | 83.924 |
| 2020 | 149.995 | 0.730 | 0.241 | 205.582 | 112.409 | 0.618 | 0.223 | 181.954 |
| 2021 | 131.438 | 0.748 | 0.782 | 175.739 | 116.515 | 0.670 | 0.782 | 173.872 |
| 2022 | 85.868 | 0.691 | 0.485 | 124.177 | 84.421 | 0.655 | 0.434 | 128.856 |
| SANTA ANA | | | | | | | | |
| 2013 | 93.345 | 0.742 | 1.019 | 125.854 | 93.345 | 0.742 | 1.019 | 125.854 |
| 2014 | 91.684 | 0.843 | 1.274 | 108.713 | 79.447 | 0.755 | 1.179 | 105.227 |
| 2015 | 67.457 | 0.706 | 1.130 | 95.596 | 66.452 | 0.703 | 1.109 | 94.562 |
| 2016 | 97.266 | 0.995 | 1.184 | 97.732 | 88.311 | 0.938 | 1.112 | 94.132 |
| 2017 | 81.900 | 0.712 | 1.269 | 115.087 | 67.193 | 0.609 | 1.118 | 110.346 |
| 2018 | 122.093 | 0.819 | 1.304 | 149.091 | 56.912 | 0.550 | 1.093 | 103.419 |
| 2019 | 62.785 | 0.564 | 0.864 | 111.359 | 58.439 | 0.509 | 0.821 | 114.857 |
| 2020 | 130.992 | 0.894 | 1.188 | 146.600 | 105.221 | 0.758 | 0.909 | 138.894 |
| 2021 | 203.877 | 0.993 | 1.065 | 205.213 | 173.304 | 0.836 | 0.865 | 207.203 |
| 2022 | 186.608 | 1.040 | 0.867 | 179.451 | 178.184 | 0.996 | 0.794 | 178.853 |
| SANTA BARBARA | | | | | | | | |
| 2013 | 82.001 | 0.699 | 1.219 | 117.302 | 82.001 | 0.699 | 1.219 | 117.302 |
| 2014 | 183.780 | 1.378 | 2.549 | 133.326 | 145.280 | 1.142 | 2.012 | 127.225 |
| 2015 | 152.372 | 1.517 | 1.577 | 100.417 | 143.291 | 1.338 | 1.459 | 107.103 |
| 2016 | 156.665 | 1.411 | 1.464 | 111.029 | 130.007 | 1.269 | 1.249 | 102.442 |
| 2017 | 408.433 | 9.213 | 13.591 | 44.334 | 152.424 | 1.619 | 1.206 | 94.173 |
| 2018 | 172.898 | 1.022 | 1.201 | 169.205 | 85.566 | 0.908 | 1.000 | 94.285 |
| 2019 | 201.251 | 1.502 | 1.750 | 134.004 | 179.194 | 1.389 | 1.562 | 129.024 |
| 2020 | 599.221 | 2.240 | 1.162 | 267.557 | 577.020 | 2.034 | 1.134 | 283.722 |
| 2021 | 652.818 | 2.359 | 0.981 | 276.756 | 627.856 | 2.158 | 0.803 | 290.993 |
| 2022 | 751.148 | 2.763 | 1.951 | 271.887 | 748.952 | 2.743 | 1.892 | 273.006 |
| SANTA MONICA | | | | | | | | |
| 2013 | 122.783 | 1.003 | 0.959 | 122.447 | 122.783 | 1.003 | 0.959 | 122.447 |
| 2014 | 110.763 | 0.992 | 0.852 | 111.620 | 106.677 | 0.943 | 0.772 | 113.143 |
| 2015 | 75.407 | 0.625 | 1.069 | 120.681 | 64.417 | 0.577 | 1.065 | 111.607 |
| 2016 | 91.084 | 0.948 | 1.210 | 96.130 | 89.110 | 0.933 | 1.131 | 95.493 |
| 2017 | 71.892 | 0.712 | 1.168 | 101.023 | 66.138 | 0.678 | 1.108 | 97.491 |
| 2018 | 80.242 | 1.045 | 1.352 | 76.789 | 60.403 | 0.716 | 1.320 | 84.334 |
| 2019 | 104.743 | 0.896 | 1.424 | 116.873 | 100.349 | 0.861 | 1.373 | 116.489 |
| 2020 | 331.108 | 1.369 | 1.258 | 241.799 | 321.179 | 1.286 | 1.196 | 249.751 |
| 2021 | 157.781 | 0.834 | 1.121 | 189.239 | 155.348 | 0.811 | 1.039 | 191.565 |
| 2022 | 323.762 | 2.120 | 1.592 | 152.738 | 304.117 | 1.837 | 1.532 | 165.531 |

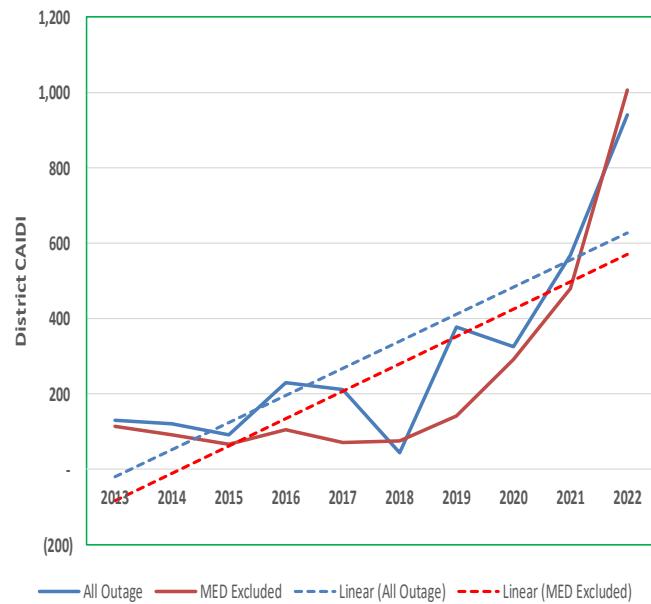
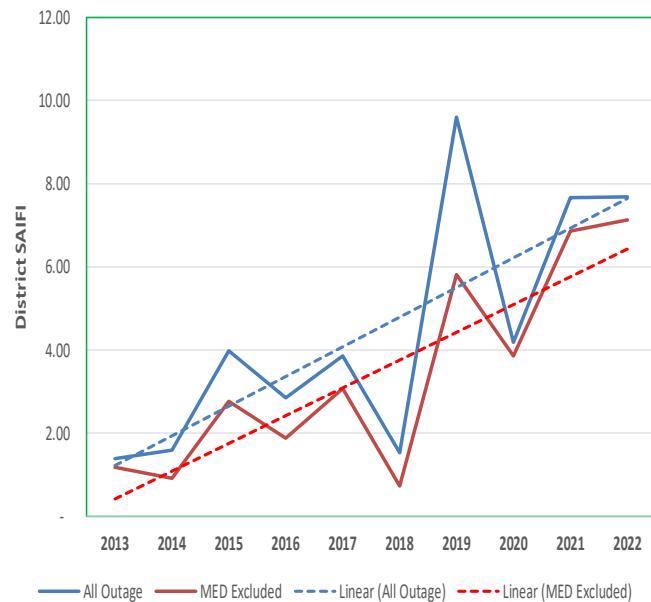
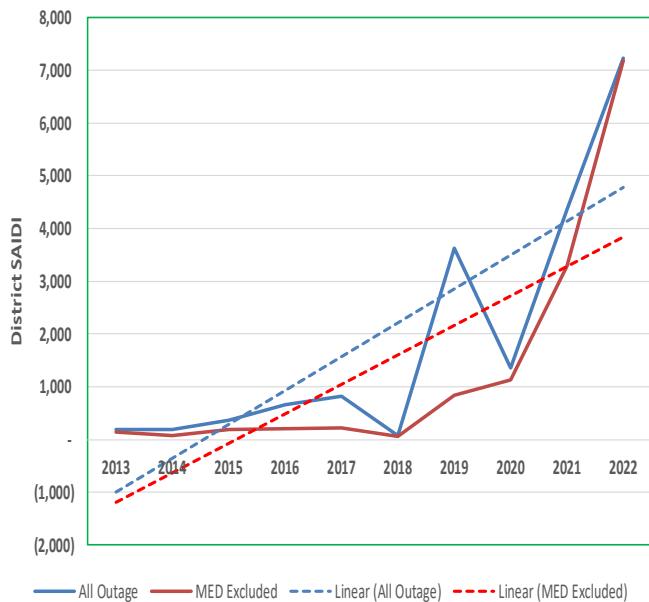
| DISTRICT | All Outage | | | | MED Excluded | | | |
|---------------|------------|--------|--------|----------|--------------|--------|--------|---------|
| | dSAIDI | dSAIFI | dMAIFI | dCAIDI | dSAIDI | dSAIFI | dMAIFI | dCAIDI |
| SHAYER LAKE | | | | | | | | |
| 2013 | 176.510 | 3.080 | 4.987 | 57.308 | 176.510 | 3.080 | 4.711 | 57.308 |
| 2014 | 920.254 | 1.342 | 4.901 | 685.961 | 438.216 | 0.581 | 3.960 | 754.138 |
| 2015 | 422.768 | 3.415 | 9.298 | 123.785 | 422.768 | 3.415 | 9.298 | 123.785 |
| 2016 | 1062.011 | 4.993 | 4.157 | 212.703 | 773.999 | 2.795 | 2.165 | 276.874 |
| 2017 | 4273.522 | 7.947 | 5.220 | 537.732 | 676.224 | 6.039 | 5.197 | 111.971 |
| 2018 | 203.429 | 2.484 | 6.362 | 81.887 | 203.429 | 2.484 | 6.362 | 81.887 |
| 2019 | 1559.973 | 5.579 | 7.850 | 279.614 | 1504.825 | 5.206 | 5.339 | 289.066 |
| 2020 | 35394.090 | 10.732 | 3.837 | 3297.850 | 2392.490 | 9.483 | 3.837 | 252.290 |
| 2021 | 1487.279 | 3.346 | 3.018 | 444.483 | 1479.737 | 3.328 | 3.017 | 444.583 |
| 2022 | 1606.908 | 4.296 | 1.110 | 374.014 | 1599.027 | 4.038 | 0.859 | 395.971 |
| SOUTH BAY | | | | | | | | |
| 2013 | 142.153 | 1.490 | 1.448 | 95.391 | 142.153 | 1.490 | 1.448 | 95.391 |
| 2014 | 125.276 | 1.391 | 1.650 | 90.048 | 110.375 | 1.281 | 1.502 | 86.139 |
| 2015 | 164.072 | 1.305 | 1.660 | 125.704 | 160.399 | 1.272 | 1.613 | 126.136 |
| 2016 | 183.899 | 1.884 | 2.020 | 97.600 | 150.901 | 1.752 | 1.818 | 86.124 |
| 2017 | 99.194 | 0.931 | 1.460 | 106.532 | 87.355 | 0.818 | 1.328 | 106.765 |
| 2018 | 90.626 | 1.090 | 1.771 | 83.134 | 82.272 | 1.007 | 1.524 | 81.666 |
| 2019 | 79.308 | 1.010 | 1.398 | 78.544 | 71.491 | 0.950 | 1.313 | 75.271 |
| 2020 | 232.928 | 1.353 | 1.570 | 172.178 | 206.828 | 1.255 | 1.529 | 164.782 |
| 2021 | 308.662 | 1.501 | 1.834 | 205.607 | 300.678 | 1.431 | 1.722 | 210.163 |
| 2022 | 293.588 | 1.744 | 1.985 | 168.350 | 285.712 | 1.655 | 1.866 | 172.598 |
| TEHACHAPI | | | | | | | | |
| 2013 | 232.672 | 1.121 | 1.661 | 207.634 | 232.333 | 1.102 | 1.638 | 210.815 |
| 2014 | 130.704 | 1.290 | 2.090 | 101.348 | 83.519 | 1.097 | 1.783 | 76.126 |
| 2015 | 298.959 | 1.215 | 3.960 | 246.114 | 236.807 | 1.037 | 2.513 | 228.329 |
| 2016 | 97.292 | 1.132 | 2.363 | 85.982 | 76.426 | 1.036 | 1.940 | 73.781 |
| 2017 | 86.514 | 1.048 | 3.126 | 82.573 | 77.927 | 0.890 | 2.946 | 87.574 |
| 2018 | 55.989 | 0.673 | 2.276 | 83.199 | 54.960 | 0.655 | 2.146 | 83.856 |
| 2019 | 2983.876 | 4.608 | 2.171 | 647.599 | 467.572 | 2.716 | 1.776 | 172.135 |
| 2020 | 1611.175 | 3.055 | 3.141 | 527.367 | 540.054 | 2.079 | 3.001 | 259.800 |
| 2021 | 994.733 | 2.265 | 0.965 | 439.226 | 690.901 | 2.073 | 0.931 | 333.247 |
| 2022 | 825.299 | 3.347 | 2.860 | 246.546 | 652.052 | 2.274 | 1.569 | 286.724 |
| THOUSAND OAKS | | | | | | | | |
| 2013 | 93.860 | 0.914 | 1.164 | 102.735 | 93.846 | 0.913 | 1.154 | 102.755 |
| 2014 | 104.366 | 1.103 | 1.426 | 94.628 | 95.526 | 1.014 | 1.287 | 94.249 |
| 2015 | 106.589 | 0.919 | 1.893 | 115.938 | 103.685 | 0.889 | 1.845 | 116.643 |
| 2016 | 143.775 | 1.307 | 2.585 | 110.021 | 128.242 | 1.227 | 2.378 | 104.484 |
| 2017 | 151.735 | 1.427 | 3.270 | 106.304 | 106.392 | 1.063 | 2.903 | 100.056 |
| 2018 | 1167.537 | 1.480 | 1.634 | 788.966 | 109.945 | 0.967 | 1.354 | 113.663 |
| 2019 | 517.053 | 1.723 | 1.213 | 300.090 | 112.978 | 1.182 | 1.163 | 95.561 |
| 2020 | 793.985 | 2.386 | 1.051 | 332.796 | 309.046 | 1.753 | 0.971 | 176.342 |
| 2021 | 1226.024 | 3.058 | 1.451 | 400.883 | 451.705 | 2.299 | 1.324 | 196.445 |
| 2022 | 378.081 | 2.109 | 1.118 | 179.299 | 372.122 | 2.025 | 1.020 | 183.732 |
| TULARE | | | | | | | | |
| 2013 | 244.439 | 1.448 | 1.698 | 168.757 | 71.744 | 0.800 | 1.548 | 89.668 |
| 2014 | 138.247 | 1.172 | 1.540 | 117.915 | 94.167 | 1.005 | 1.323 | 93.711 |
| 2015 | 127.502 | 1.052 | 1.414 | 121.240 | 99.829 | 0.908 | 1.106 | 109.936 |
| 2016 | 108.444 | 1.091 | 1.105 | 99.370 | 101.822 | 1.040 | 1.082 | 97.895 |
| 2017 | 191.659 | 1.343 | 1.198 | 142.710 | 105.718 | 1.282 | 1.188 | 82.463 |
| 2018 | 56.234 | 0.685 | 1.077 | 82.150 | 51.292 | 0.652 | 1.017 | 78.639 |
| 2019 | 72.671 | 0.745 | 1.075 | 97.509 | 69.696 | 0.716 | 1.035 | 97.356 |
| 2020 | 250.117 | 1.018 | 0.880 | 245.621 | 136.911 | 0.940 | 0.860 | 145.608 |
| 2021 | 745.682 | 1.115 | 1.123 | 668.970 | 734.047 | 1.084 | 1.094 | 677.296 |
| 2022 | 222.199 | 1.022 | 1.130 | 217.325 | 212.148 | 0.981 | 1.070 | 216.160 |
| VALENCIA | | | | | | | | |
| 2013 | 51.038 | 0.533 | 0.684 | 95.748 | 51.038 | 0.533 | 0.684 | 95.748 |
| 2014 | 79.226 | 0.605 | 0.998 | 130.885 | 63.739 | 0.533 | 0.935 | 119.509 |
| 2015 | 72.274 | 0.611 | 0.971 | 118.224 | 71.053 | 0.604 | 0.845 | 117.624 |
| 2016 | 105.087 | 0.968 | 1.549 | 108.594 | 97.405 | 0.846 | 1.522 | 115.187 |
| 2017 | 136.618 | 1.079 | 1.549 | 126.671 | 81.267 | 0.702 | 1.283 | 115.765 |
| 2018 | 92.407 | 1.063 | 1.451 | 86.969 | 79.329 | 0.945 | 1.391 | 83.982 |
| 2019 | 457.467 | 1.224 | 0.965 | 373.657 | 101.430 | 0.914 | 0.918 | 111.000 |
| 2020 | 468.143 | 1.586 | 1.131 | 295.179 | 173.515 | 1.221 | 1.109 | 142.084 |
| 2021 | 615.536 | 1.732 | 1.452 | 355.344 | 298.454 | 1.333 | 1.407 | 223.850 |
| 2022 | 257.428 | 1.518 | 0.911 | 169.633 | 256.711 | 1.514 | 0.911 | 169.600 |

| DISTRICT | All Outage | | | | MED Excluded | | | |
|---------------------|------------|--------|--------|---------|--------------|--------|--------|---------|
| | dSAIDI | dSAIFI | dMAIFI | dCAIDI | dSAIDI | dSAIFI | dMAIFI | dCAIDI |
| VENTURA | | | | | | | | |
| 2013 | 100.521 | 1.210 | 1.417 | 83.104 | 100.504 | 1.210 | 1.417 | 83.093 |
| 2014 | 183.792 | 1.648 | 2.215 | 111.537 | 151.658 | 1.386 | 2.075 | 109.392 |
| 2015 | 148.848 | 1.190 | 1.447 | 125.112 | 141.430 | 1.149 | 1.375 | 123.110 |
| 2016 | 150.408 | 1.236 | 1.679 | 121.649 | 107.140 | 1.019 | 1.553 | 105.110 |
| 2017 | 520.897 | 3.122 | 2.293 | 166.846 | 114.758 | 1.240 | 1.542 | 92.559 |
| 2018 | 136.042 | 1.438 | 1.921 | 94.613 | 100.385 | 1.177 | 1.676 | 85.301 |
| 2019 | 334.957 | 1.647 | 2.610 | 203.369 | 133.541 | 1.364 | 2.407 | 97.920 |
| 2020 | 351.864 | 1.420 | 1.198 | 247.732 | 247.450 | 1.228 | 1.088 | 201.578 |
| 2021 | 653.983 | 2.761 | 2.093 | 236.833 | 408.419 | 2.329 | 1.688 | 175.346 |
| 2022 | 374.834 | 2.268 | 1.408 | 165.265 | 369.367 | 2.210 | 1.394 | 167.154 |
| VICTORVILLE | | | | | | | | |
| 2013 | 61.333 | 0.632 | 1.312 | 97.109 | 61.010 | 0.620 | 1.179 | 98.380 |
| 2014 | 68.846 | 0.633 | 0.899 | 108.729 | 67.696 | 0.620 | 0.881 | 109.166 |
| 2015 | 87.026 | 0.906 | 1.839 | 96.063 | 72.897 | 0.812 | 1.551 | 89.751 |
| 2016 | 79.352 | 0.917 | 1.396 | 86.493 | 75.943 | 0.888 | 1.327 | 85.547 |
| 2017 | 84.068 | 0.895 | 2.353 | 93.936 | 73.124 | 0.808 | 1.757 | 90.485 |
| 2018 | 125.922 | 0.862 | 1.345 | 146.015 | 97.868 | 0.802 | 1.270 | 122.074 |
| 2019 | 82.422 | 1.102 | 2.008 | 74.767 | 74.675 | 0.986 | 1.667 | 75.770 |
| 2020 | 128.155 | 1.180 | 1.611 | 108.614 | 124.149 | 1.130 | 1.520 | 109.867 |
| 2021 | 204.719 | 1.247 | 2.514 | 164.162 | 199.522 | 1.196 | 2.467 | 166.842 |
| 2022 | 307.928 | 1.726 | 2.012 | 178.445 | 292.120 | 1.575 | 1.881 | 185.523 |
| WHITTIER | | | | | | | | |
| 2013 | 135.043 | 0.859 | 1.055 | 157.172 | 135.043 | 0.859 | 1.055 | 157.172 |
| 2014 | 87.600 | 0.704 | 1.155 | 124.399 | 84.188 | 0.689 | 1.090 | 122.157 |
| 2015 | 114.520 | 0.733 | 1.084 | 156.317 | 104.851 | 0.704 | 0.989 | 148.883 |
| 2016 | 137.336 | 0.814 | 1.416 | 168.756 | 90.212 | 0.616 | 1.290 | 146.361 |
| 2017 | 148.909 | 0.896 | 1.872 | 166.103 | 91.911 | 0.750 | 1.655 | 122.501 |
| 2018 | 87.742 | 0.666 | 1.413 | 131.834 | 73.659 | 0.575 | 1.297 | 128.006 |
| 2019 | 84.861 | 0.730 | 1.379 | 116.212 | 73.994 | 0.624 | 1.160 | 118.511 |
| 2020 | 202.439 | 1.075 | 1.279 | 188.243 | 172.449 | 0.959 | 1.151 | 179.805 |
| 2021 | 305.516 | 1.297 | 1.588 | 235.526 | 290.883 | 1.207 | 1.396 | 241.069 |
| 2022 | 340.227 | 1.331 | 1.446 | 255.679 | 330.272 | 1.282 | 1.291 | 257.602 |
| WILDOMAR | | | | | | | | |
| 2013 | 40.512 | 0.555 | 0.656 | 72.932 | 40.122 | 0.554 | 0.656 | 72.407 |
| 2014 | 118.493 | 0.806 | 0.743 | 147.031 | 112.300 | 0.772 | 0.683 | 145.548 |
| 2015 | 52.699 | 0.597 | 1.255 | 88.256 | 48.313 | 0.566 | 1.054 | 85.401 |
| 2016 | 84.010 | 0.866 | 0.951 | 97.031 | 79.151 | 0.839 | 0.861 | 94.378 |
| 2017 | 90.151 | 0.800 | 1.015 | 112.679 | 56.373 | 0.580 | 0.933 | 97.161 |
| 2018 | 60.772 | 0.747 | 0.846 | 81.358 | 51.890 | 0.622 | 0.760 | 83.373 |
| 2019 | 94.466 | 0.768 | 0.738 | 123.007 | 53.127 | 0.610 | 0.726 | 87.158 |
| 2020 | 187.289 | 1.078 | 0.961 | 173.679 | 145.128 | 0.955 | 0.960 | 152.042 |
| 2021 | 225.719 | 1.116 | 0.663 | 202.303 | 215.958 | 1.036 | 0.585 | 208.488 |
| 2022 | 317.778 | 1.383 | 0.472 | 229.769 | 312.324 | 1.347 | 0.438 | 231.815 |
| YUCCA VALLEY | | | | | | | | |
| 2013 | 216.972 | 1.500 | 4.983 | 144.620 | 216.966 | 1.500 | 4.983 | 144.626 |
| 2014 | 304.249 | 1.490 | 4.856 | 204.152 | 293.730 | 1.407 | 4.851 | 208.756 |
| 2015 | 389.085 | 1.804 | 3.922 | 215.688 | 260.176 | 1.189 | 2.708 | 218.766 |
| 2016 | 463.683 | 3.393 | 3.875 | 136.661 | 440.057 | 3.257 | 3.106 | 135.131 |
| 2017 | 300.331 | 1.957 | 1.602 | 153.472 | 270.109 | 1.728 | 1.509 | 156.277 |
| 2018 | 353.832 | 1.937 | 2.747 | 182.664 | 206.580 | 1.488 | 1.832 | 138.842 |
| 2019 | 451.746 | 2.341 | 1.930 | 192.934 | 401.604 | 2.067 | 1.728 | 194.288 |
| 2020 | 490.272 | 2.896 | 2.409 | 169.300 | 463.889 | 2.719 | 2.359 | 170.632 |
| 2021 | 891.022 | 3.272 | 2.225 | 272.318 | 858.710 | 2.988 | 2.163 | 287.350 |
| 2022 | 686.702 | 2.895 | 3.617 | 237.210 | 665.945 | 2.679 | 1.703 | 248.604 |

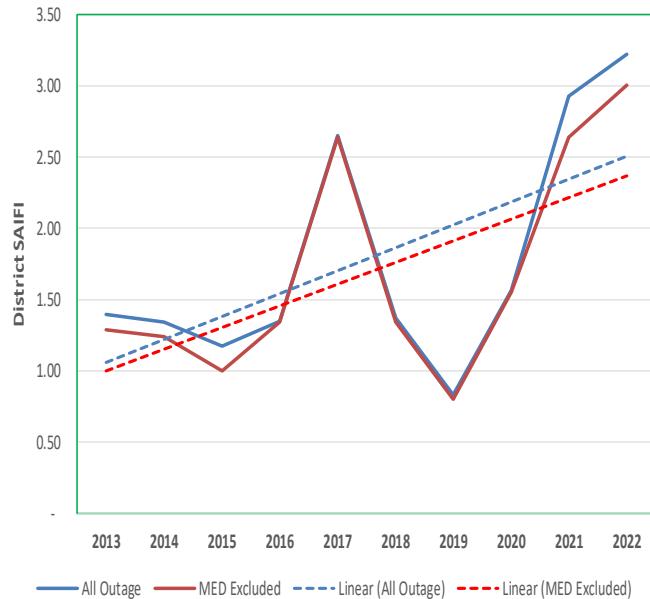
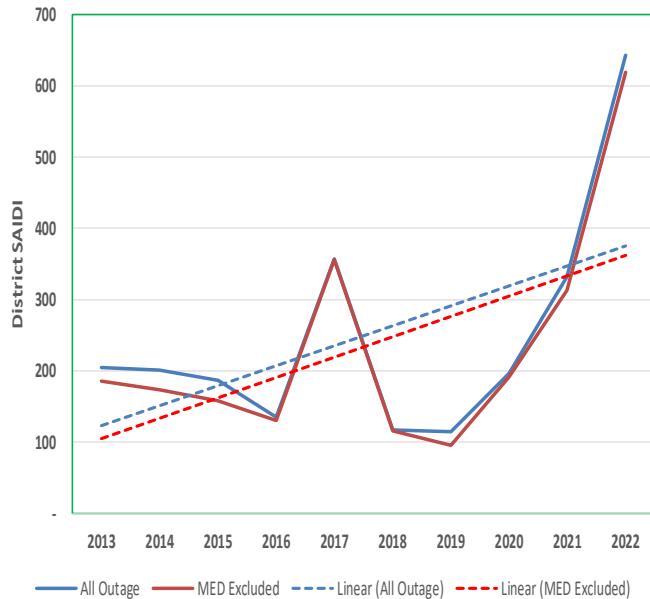
- a. The linear charts below show the past 10 years of District Reliability Performance from 2013 – 2022 of dSAIDI, dSAIFI, dMAIFI and dCAIDI for all 34 districts. There are separate charts including and excluding MEDs. The charts shown are listed in alphabetical order by the district name.



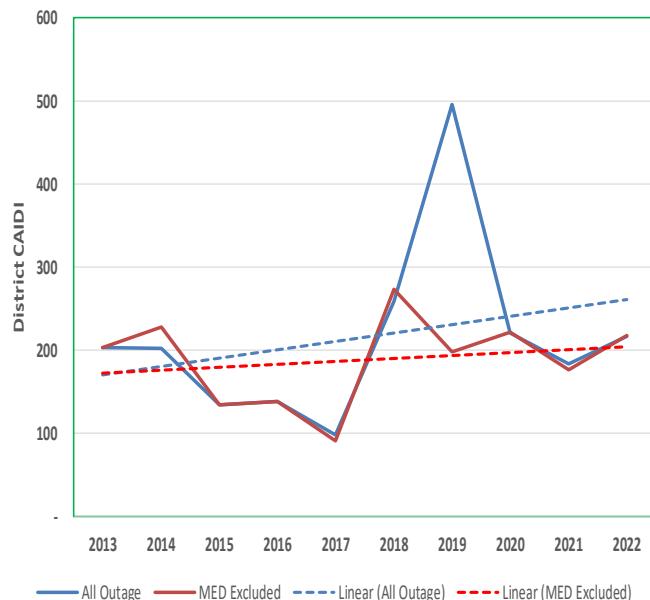
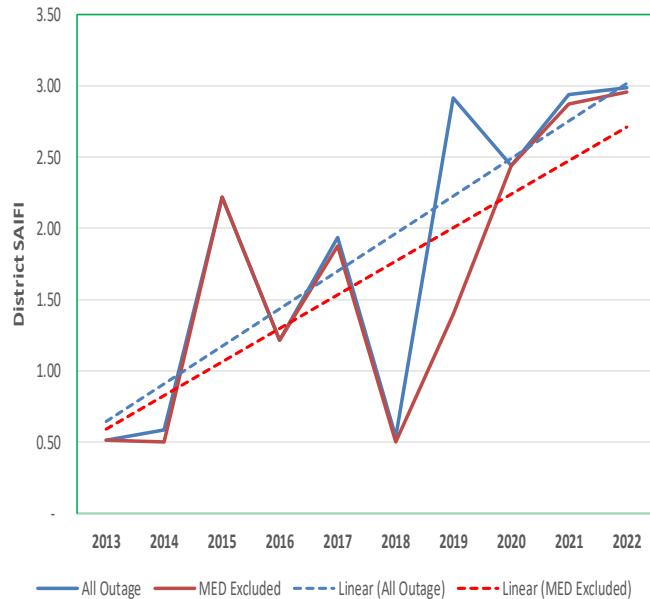
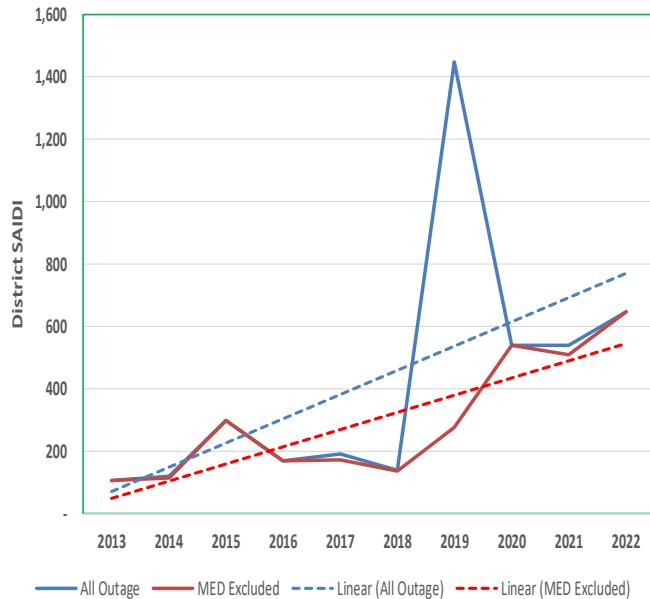
ARROWHEAD District Reliability Performance



BARSTOW District Reliability Performance



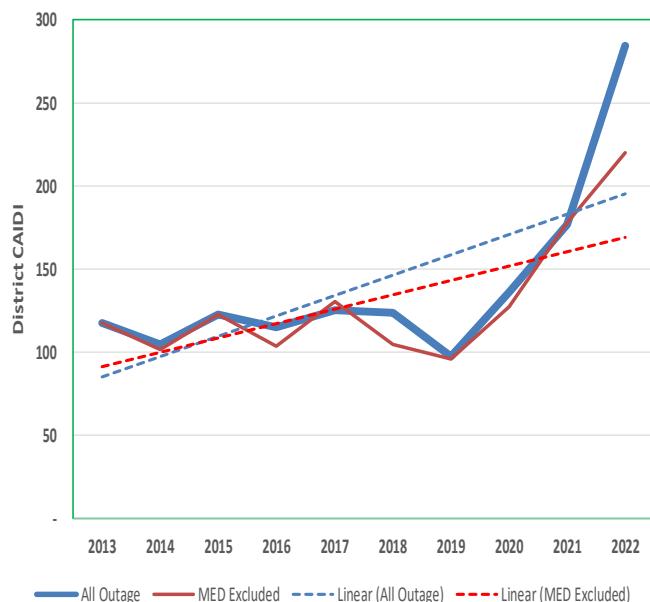
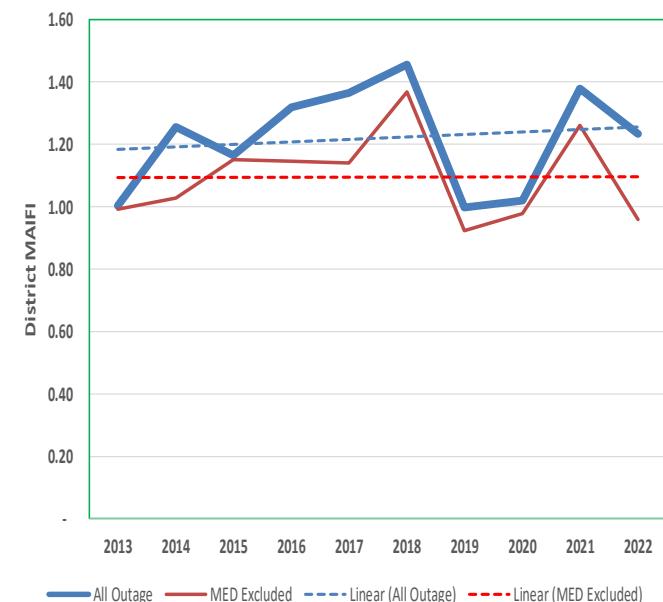
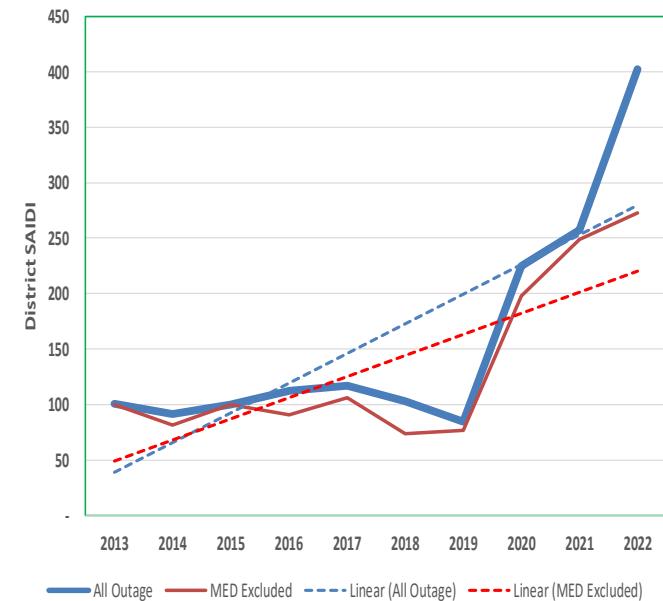
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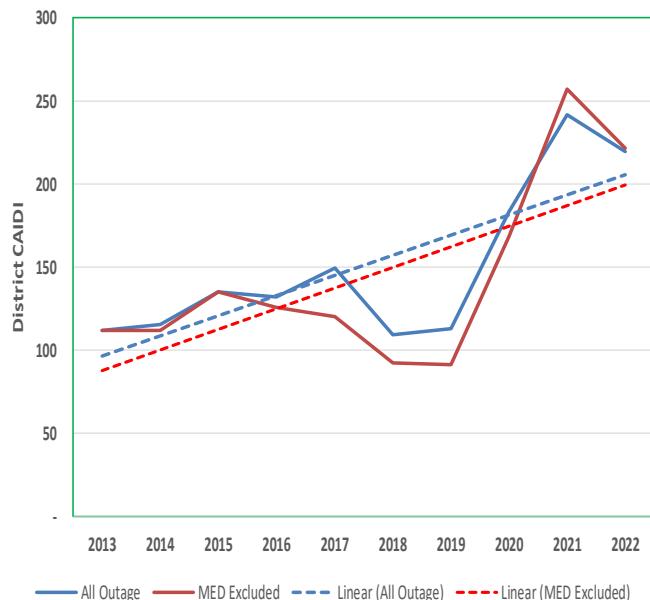
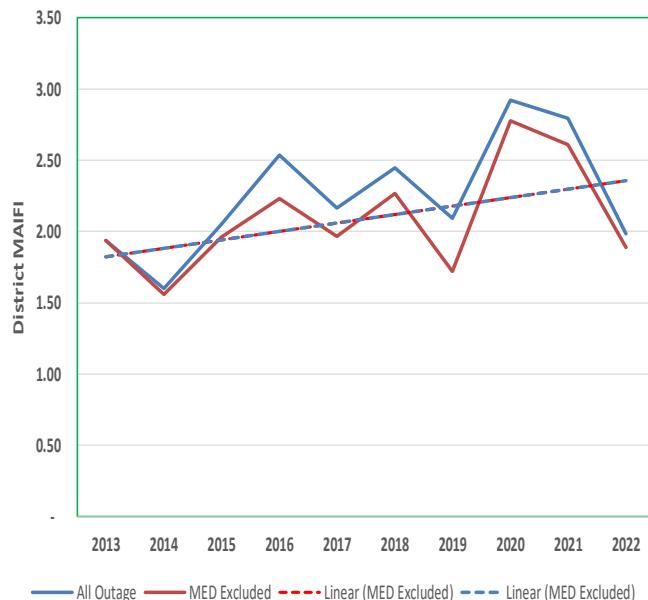
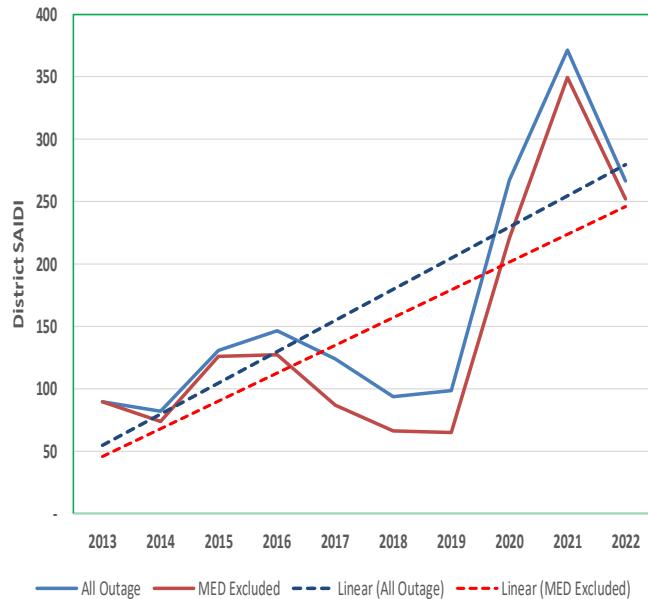
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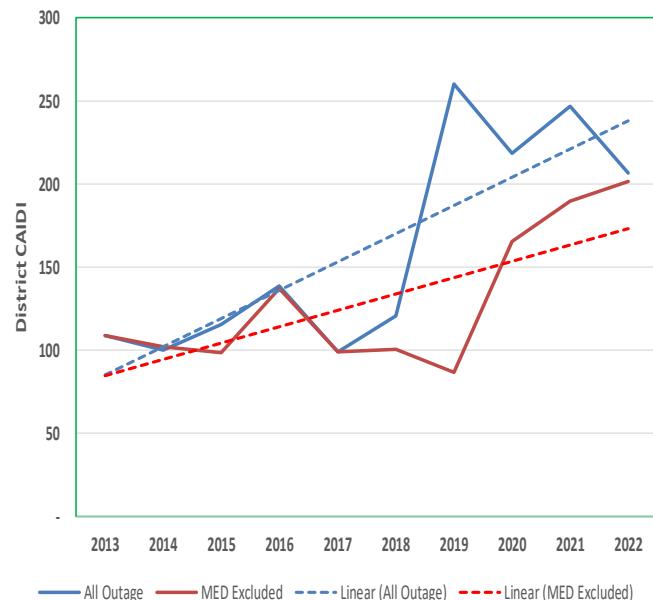
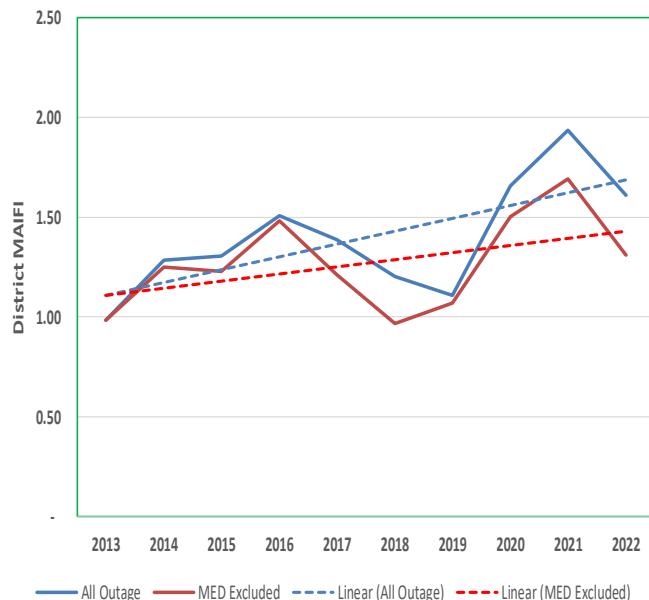
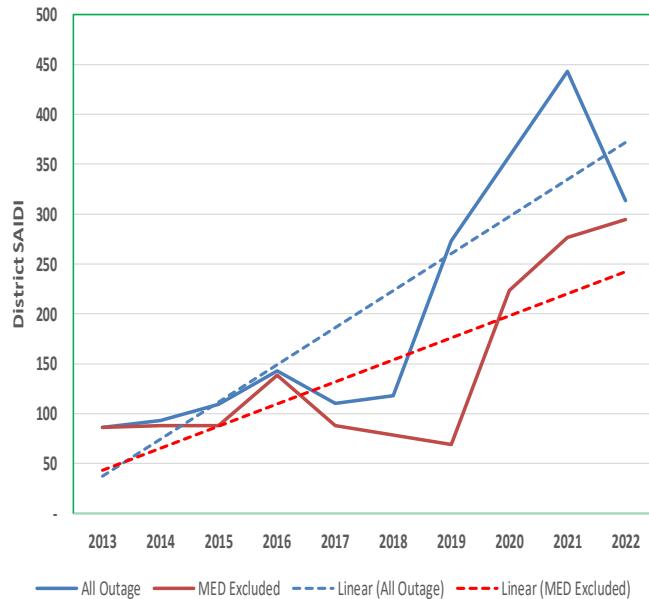
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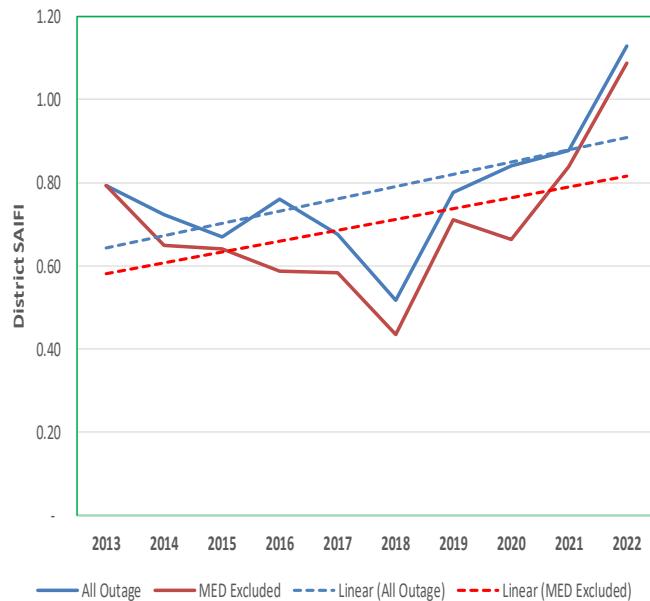
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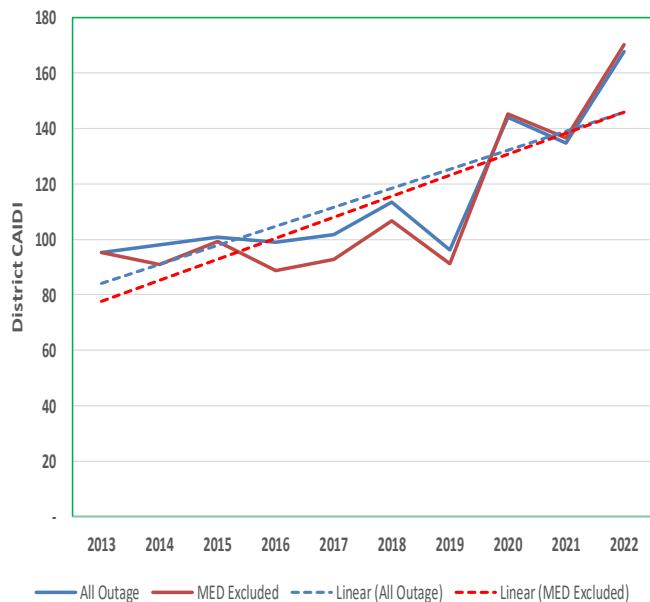
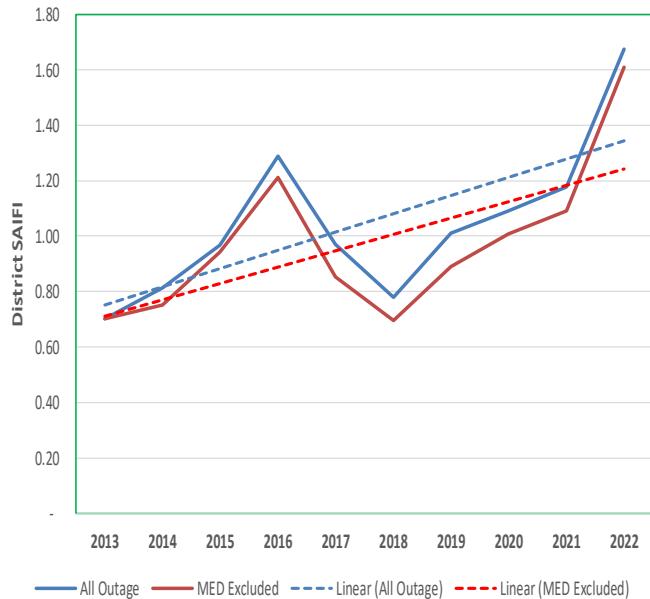
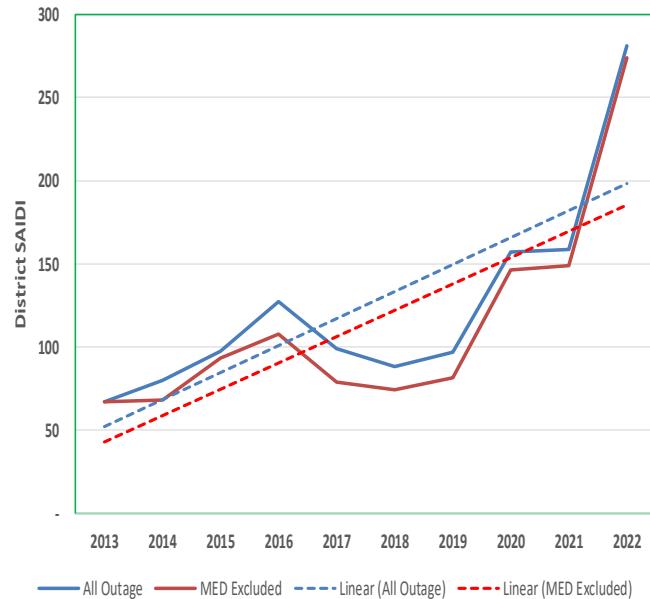
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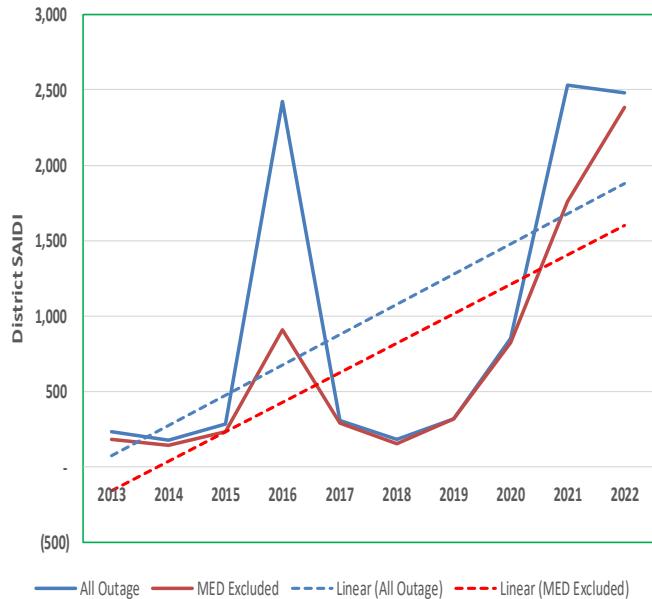
FULLERTON District Reliability Performance



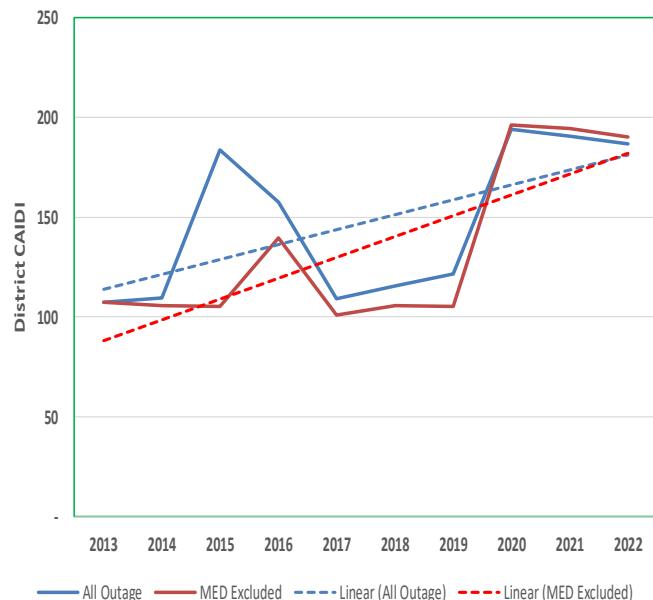
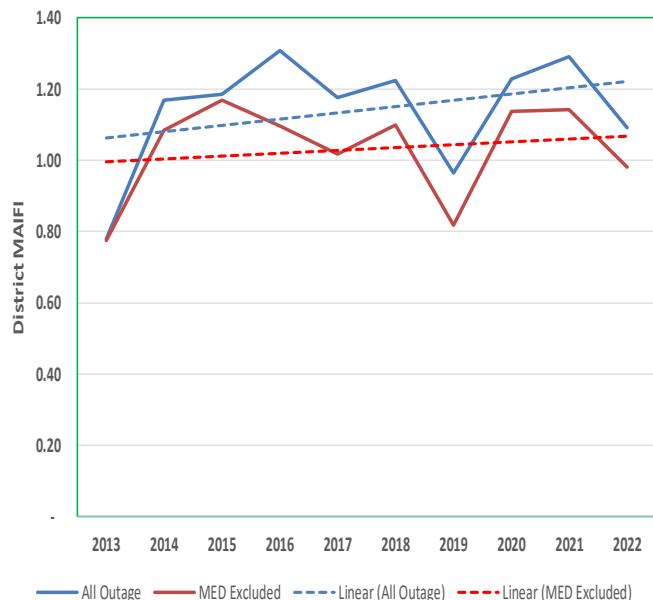
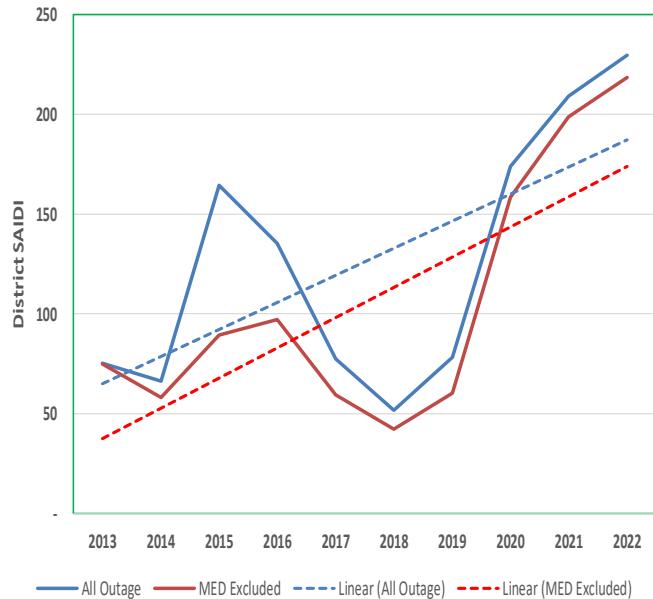
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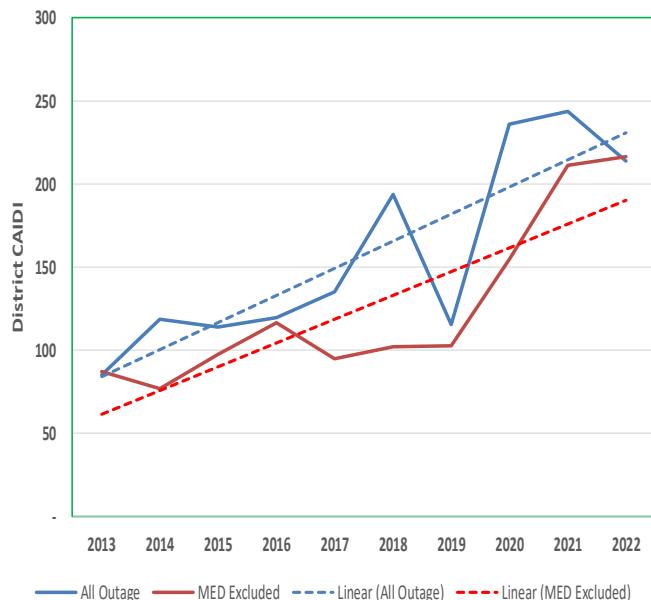
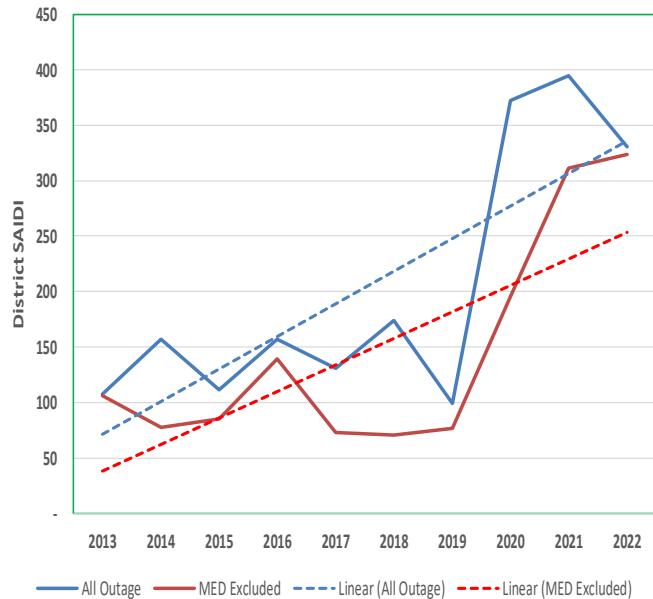
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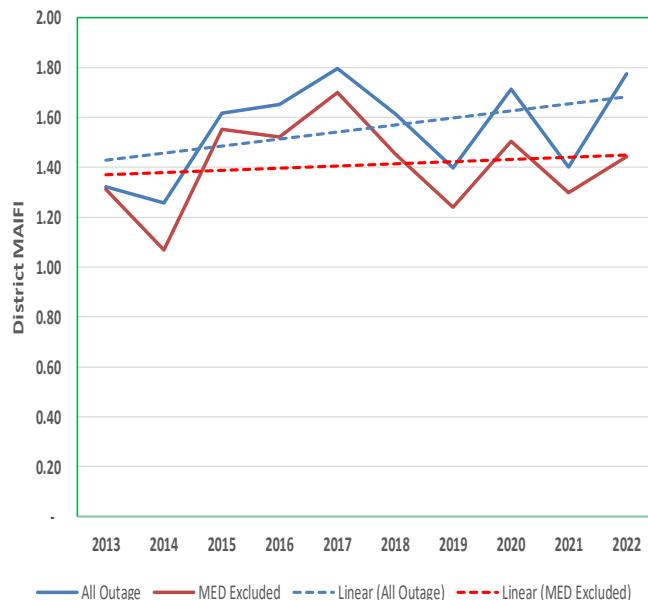
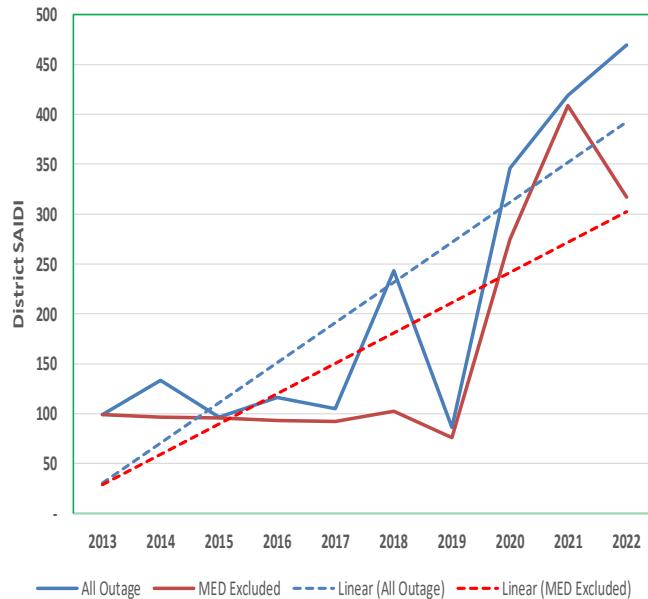
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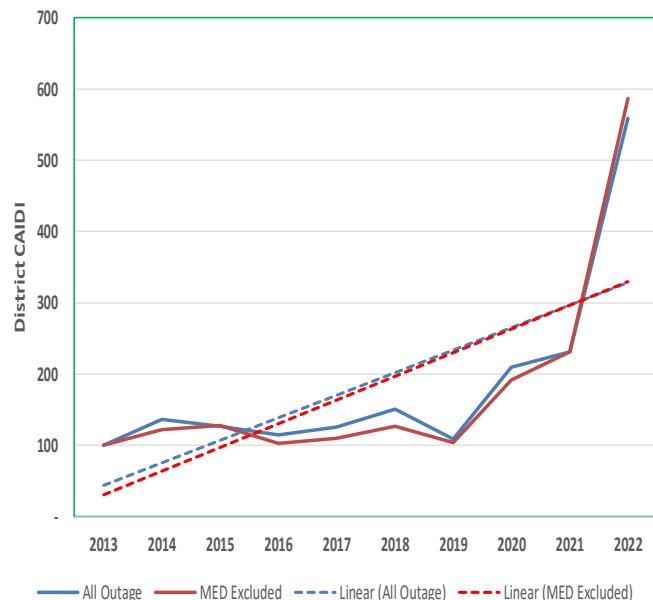
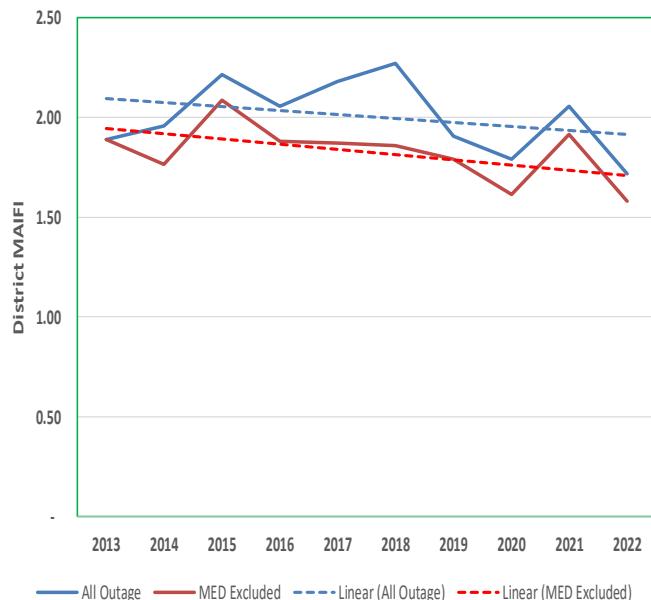
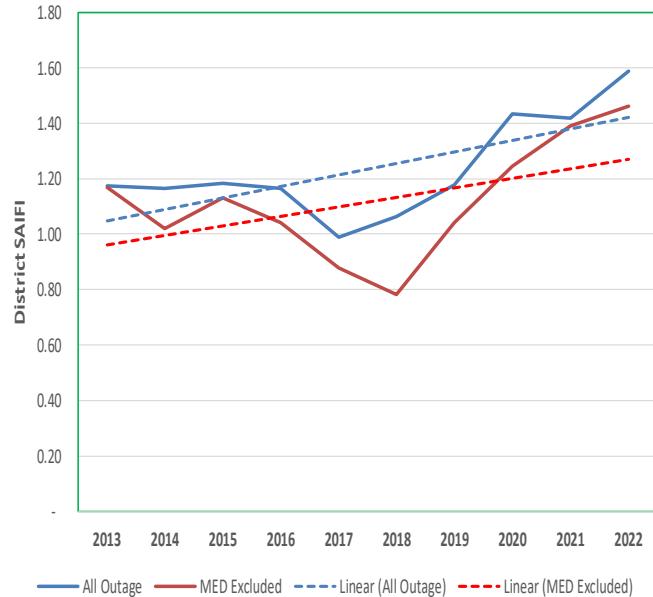
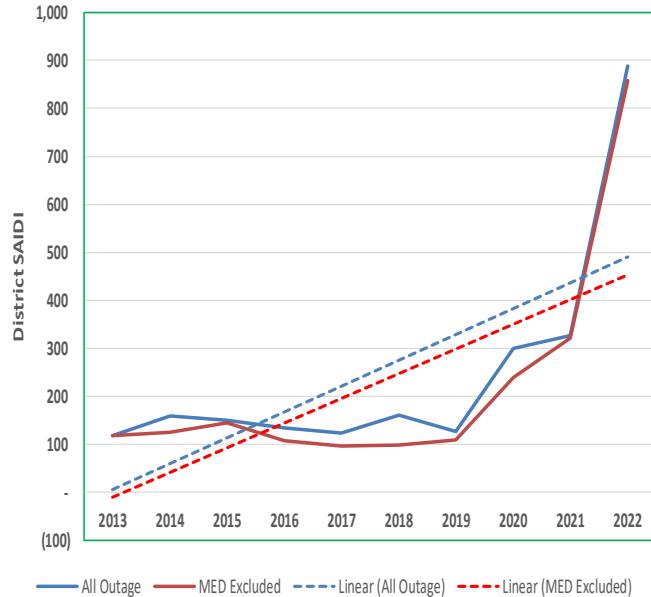
MENIFEE District Reliability Performance



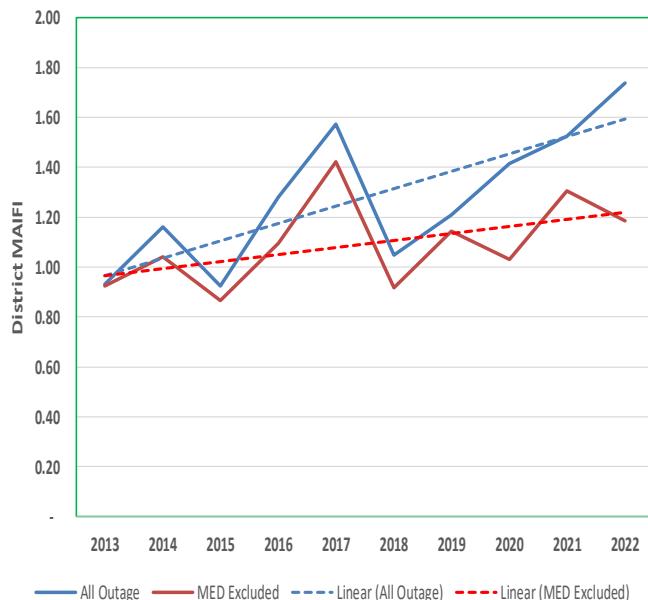
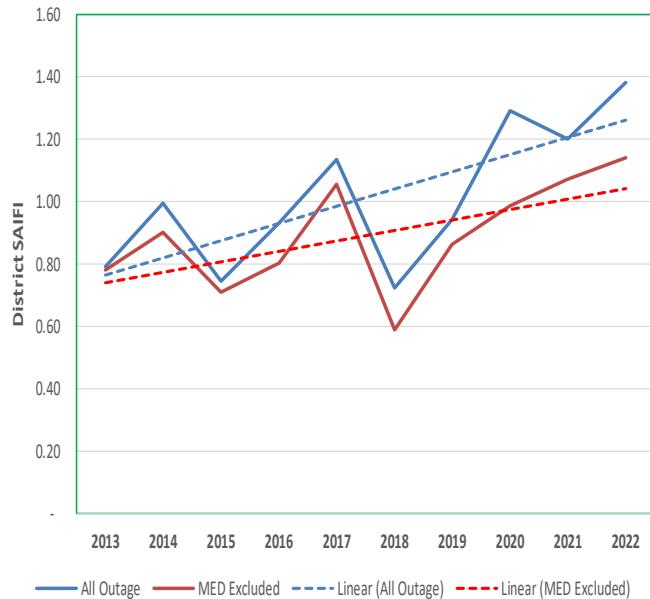
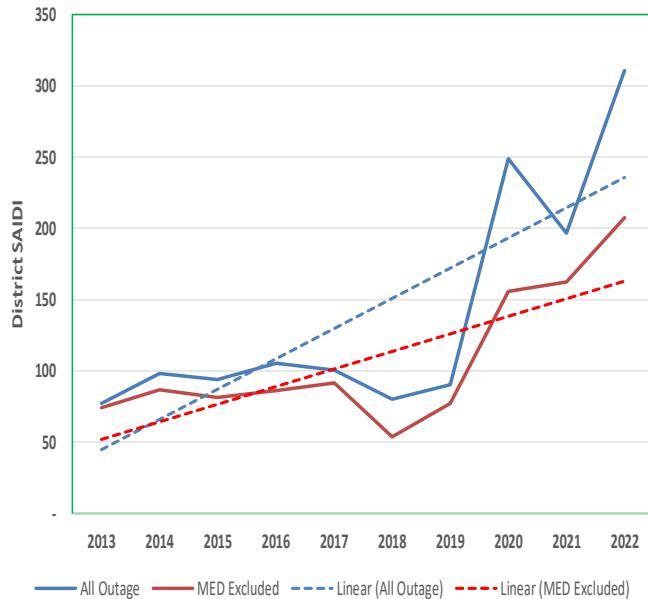
MONROVIA District Reliability Performance



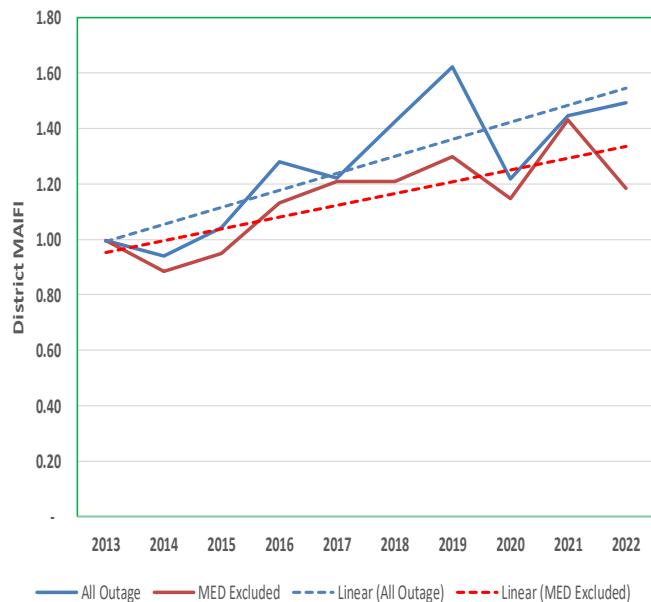
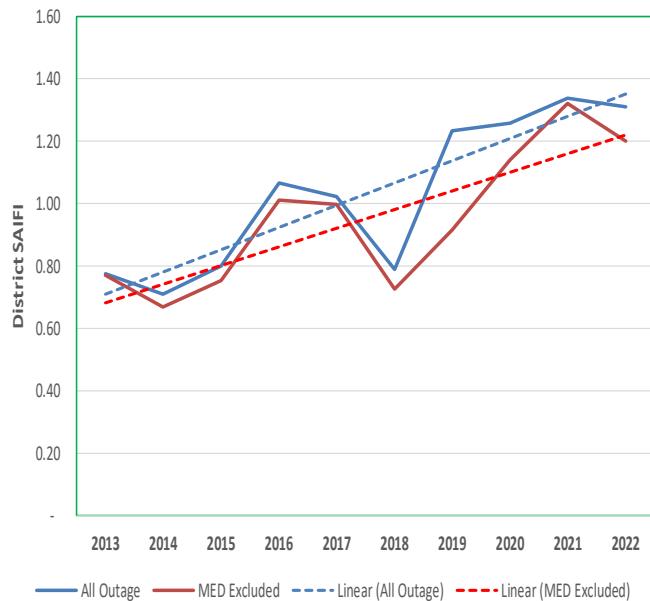
MONTEBELLO District Reliability Performance



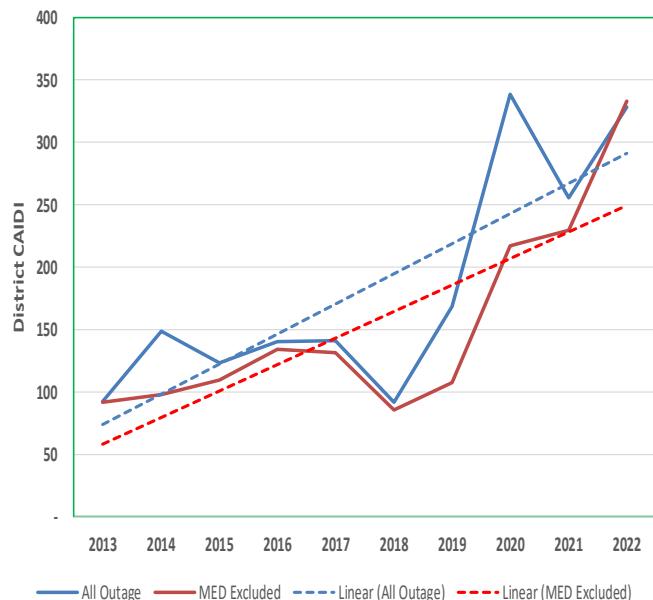
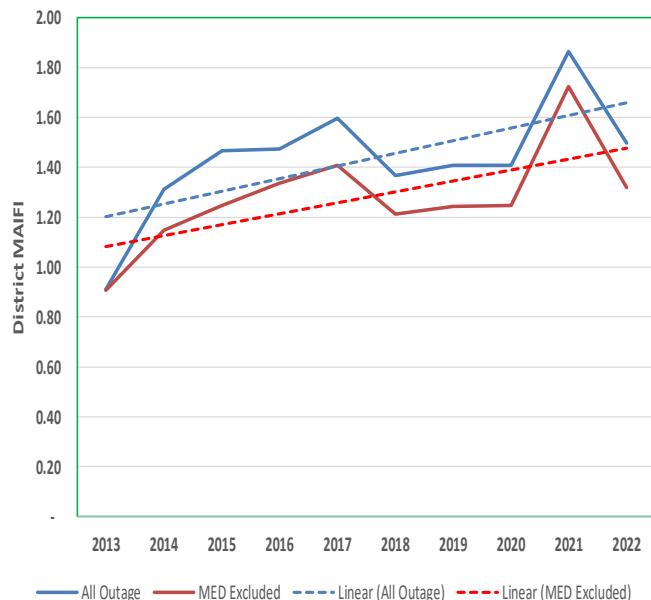
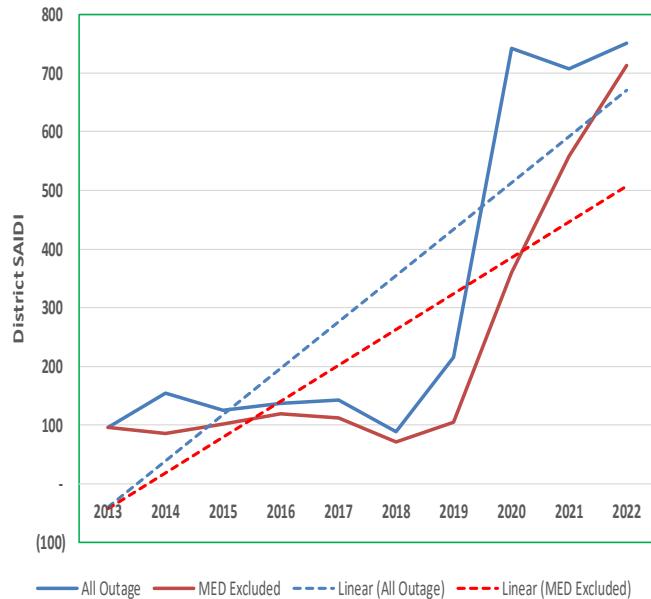
ONTARIO District Reliability Performance



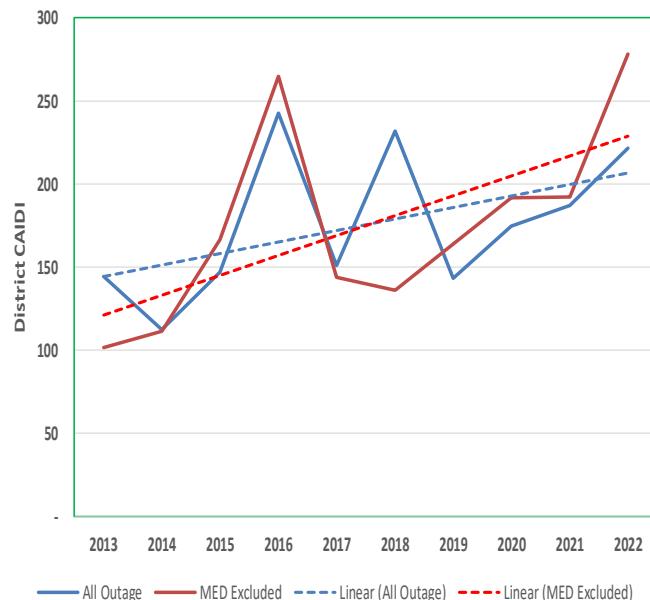
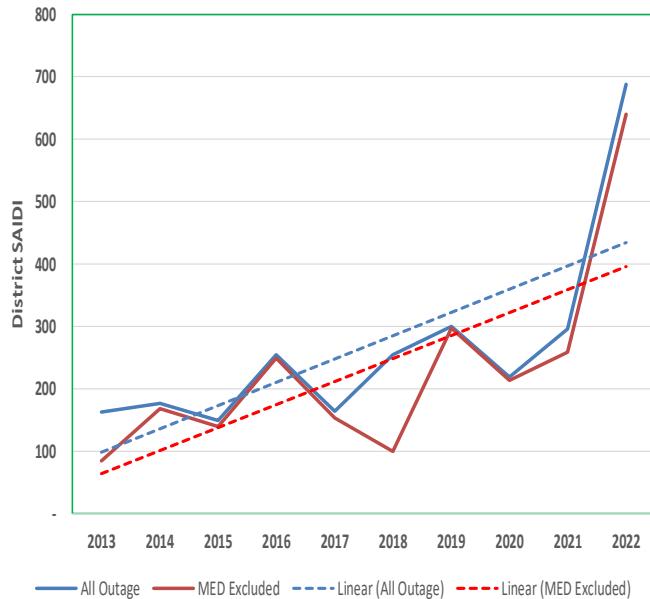
PALM SPRINGS District Reliability Performance



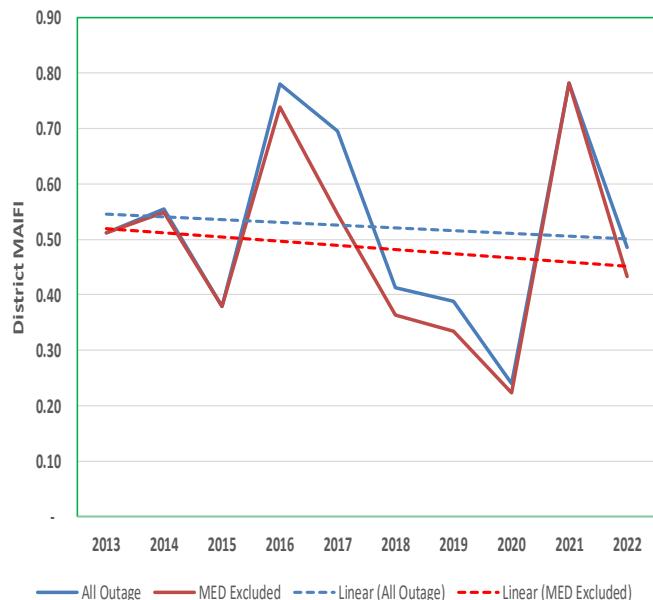
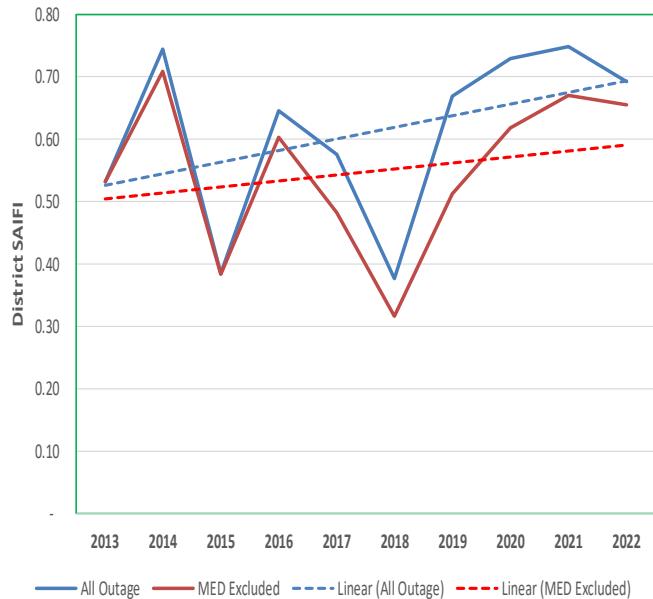
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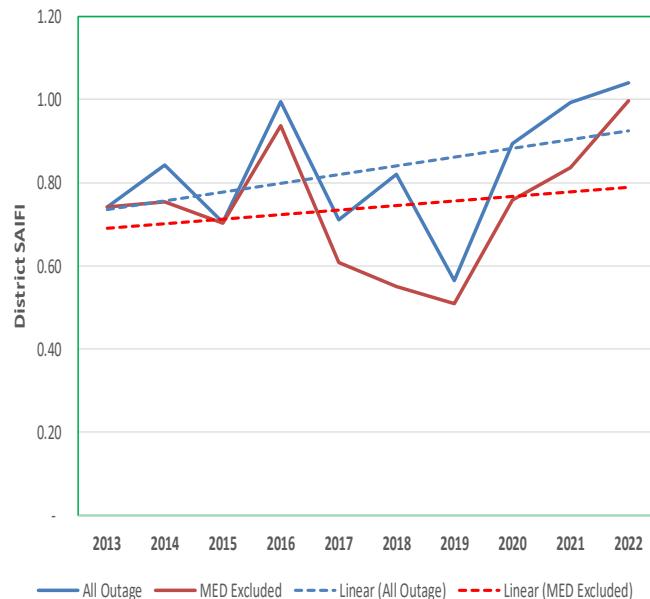
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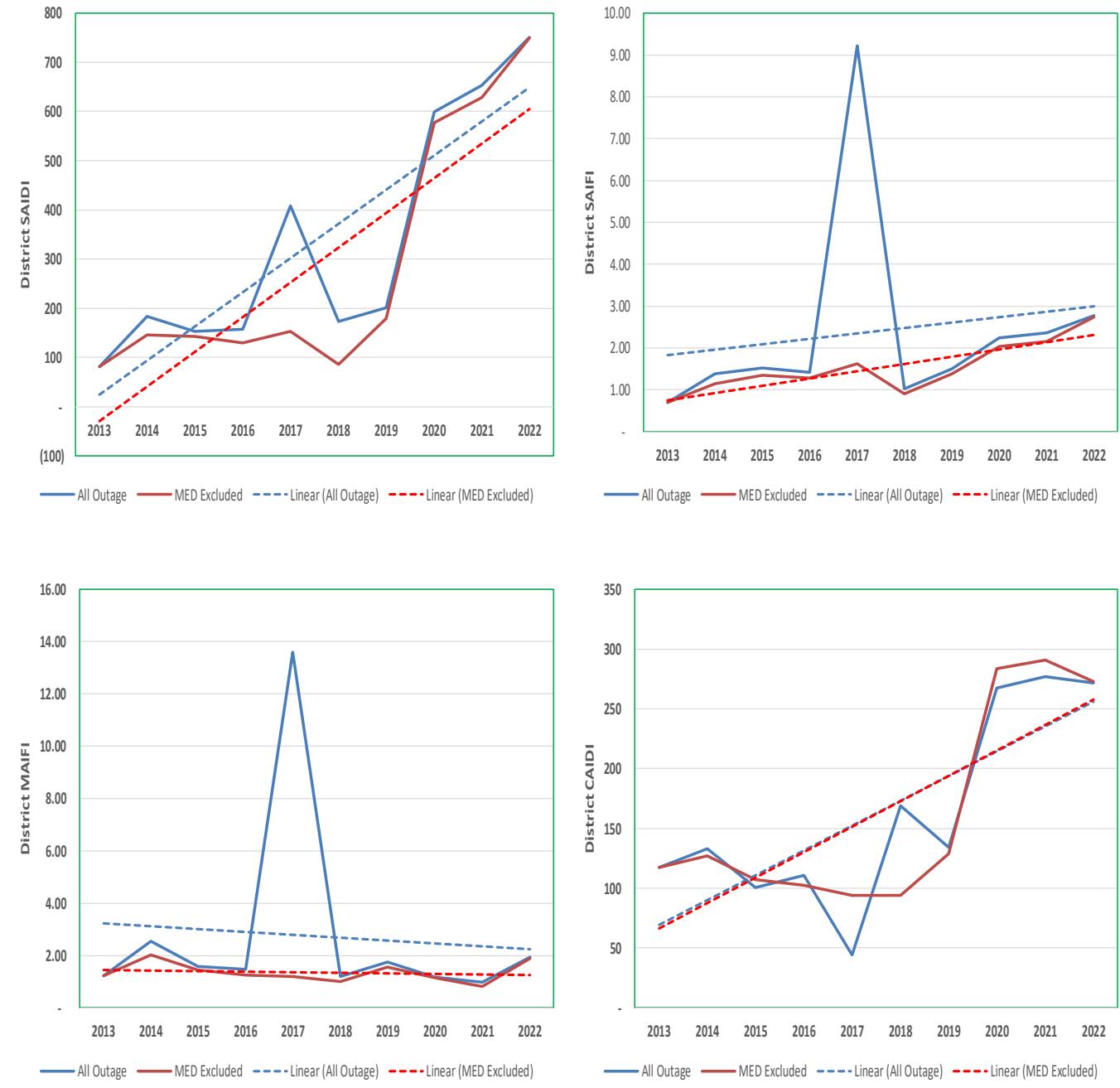
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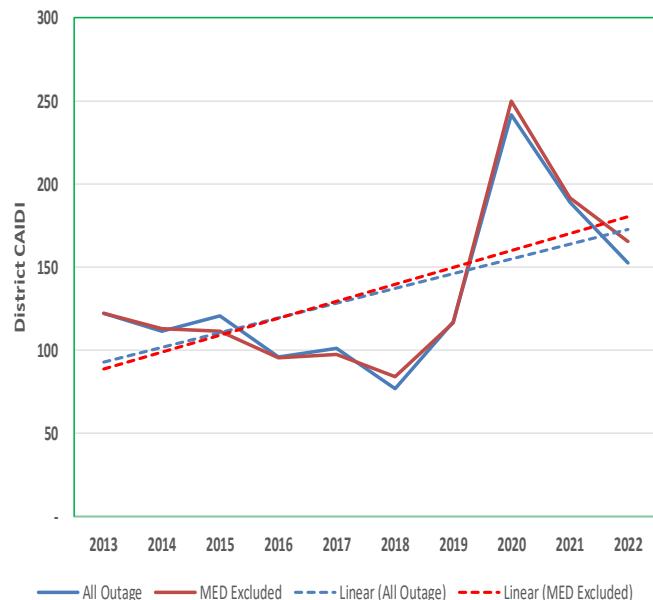
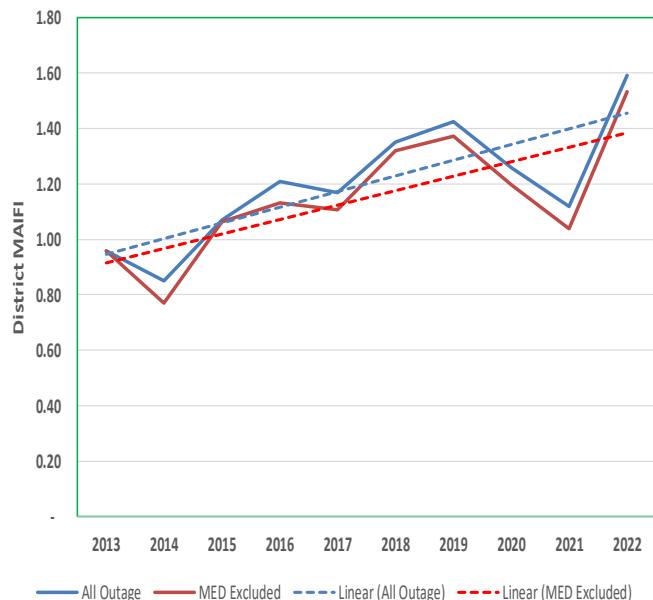
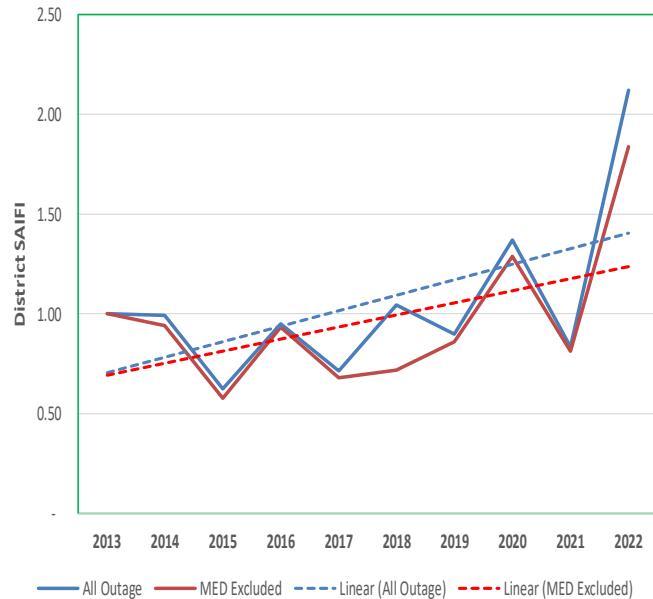
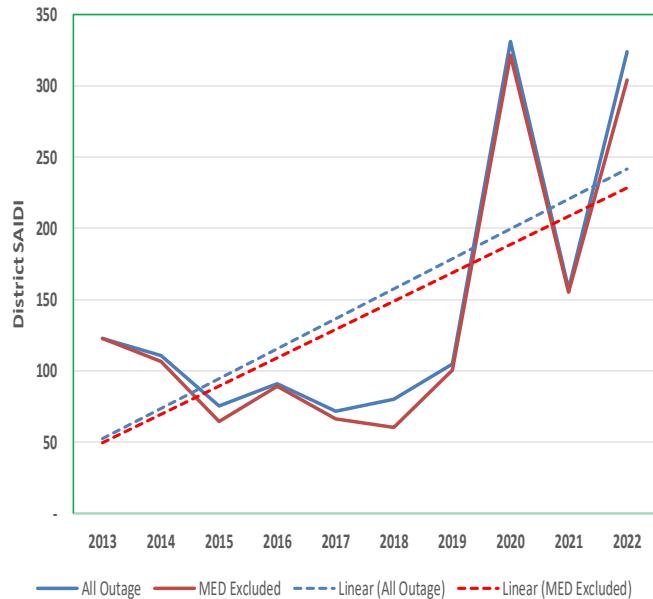
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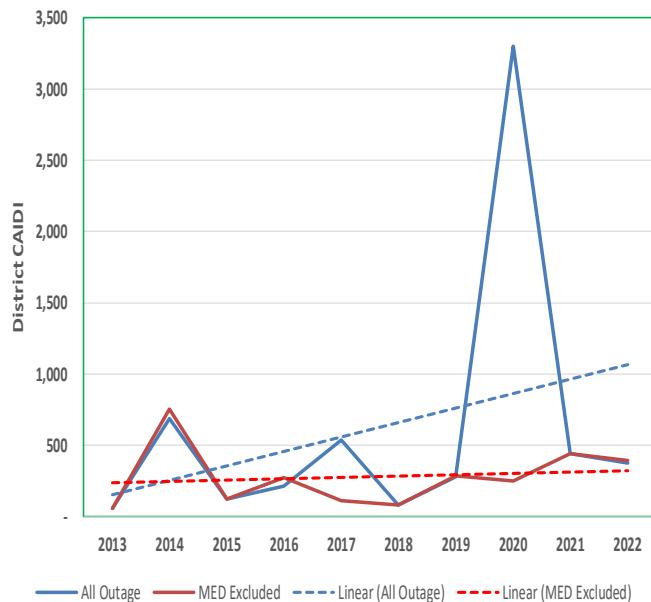
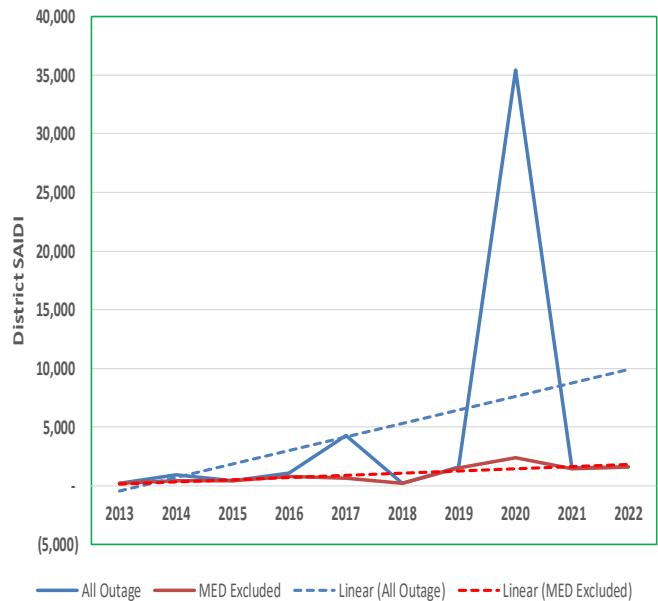
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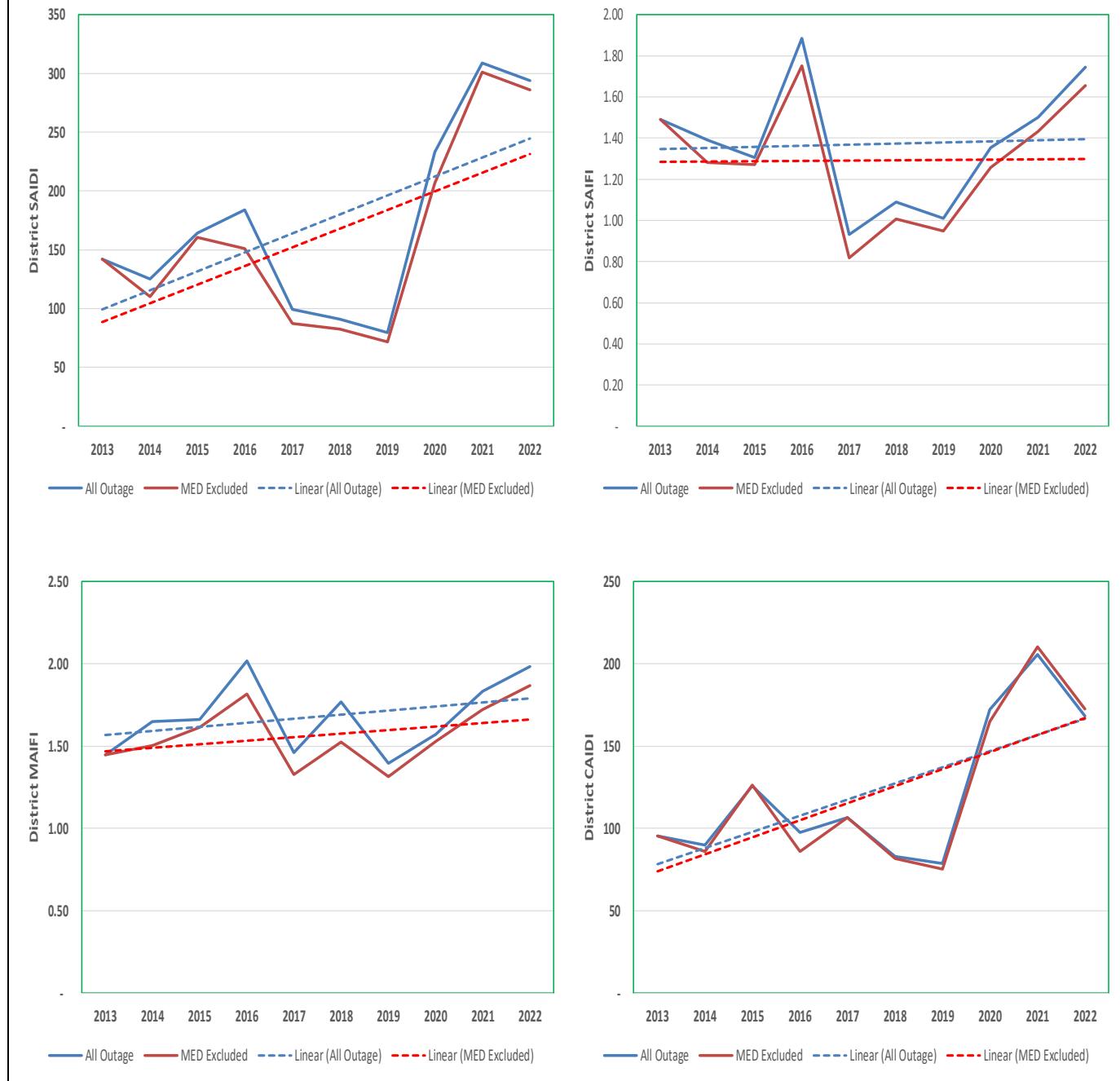
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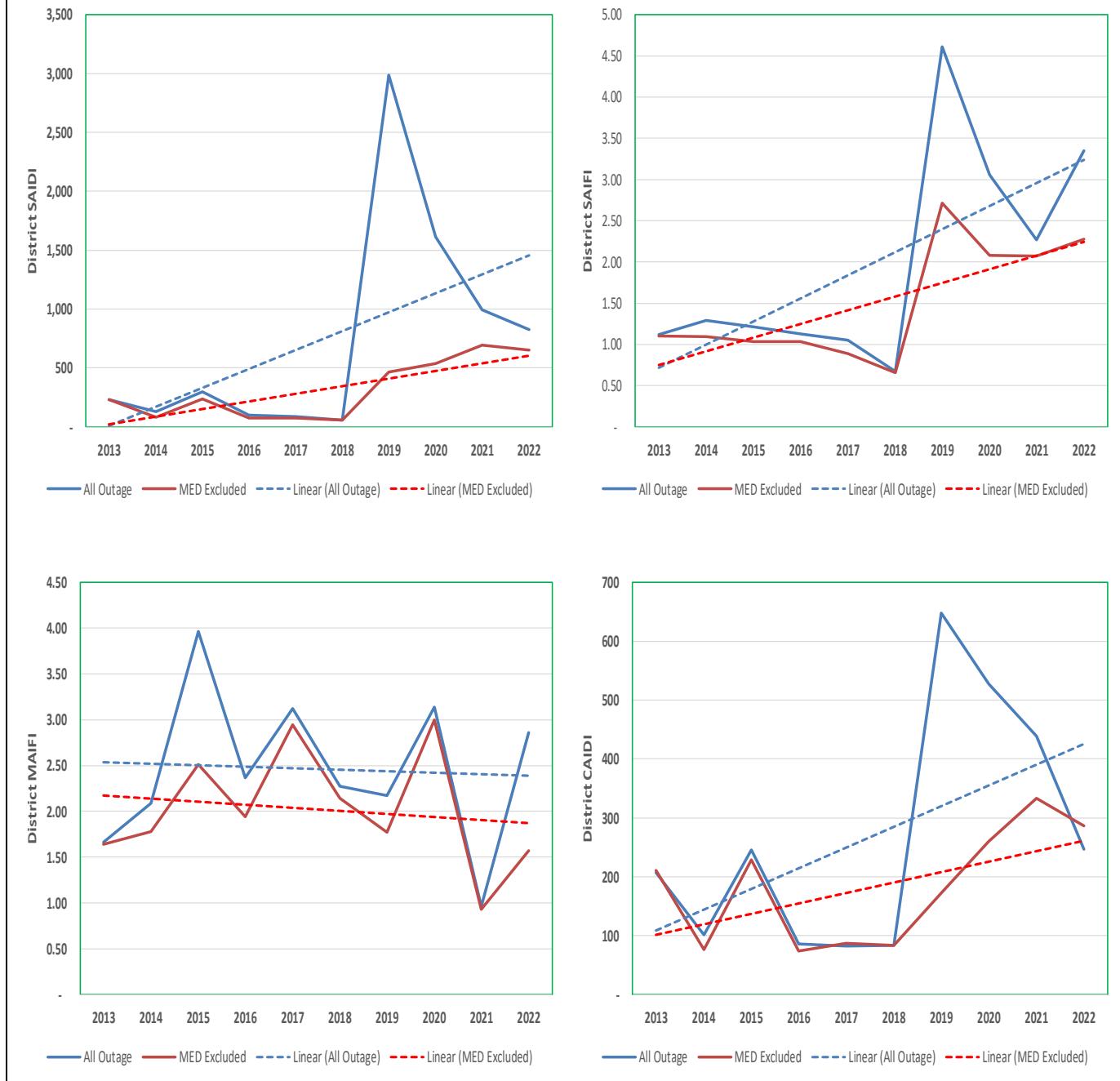
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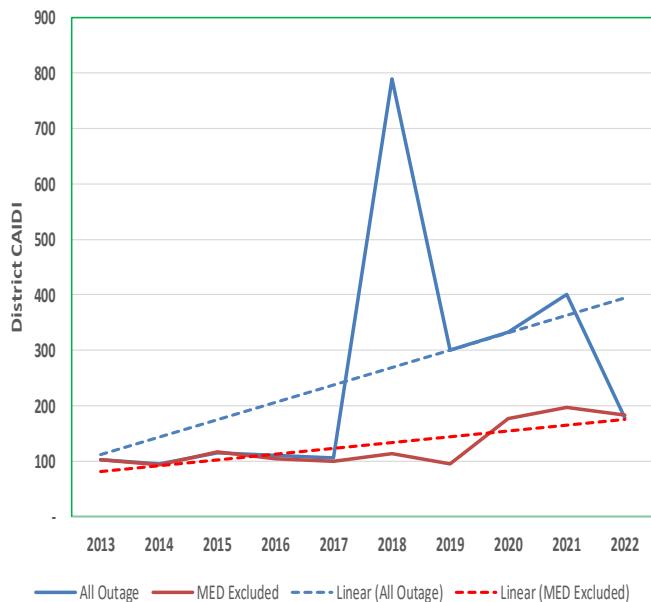
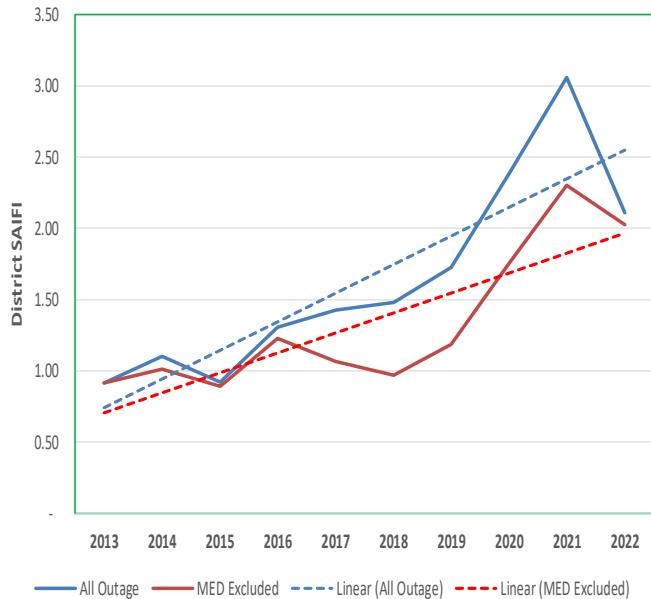
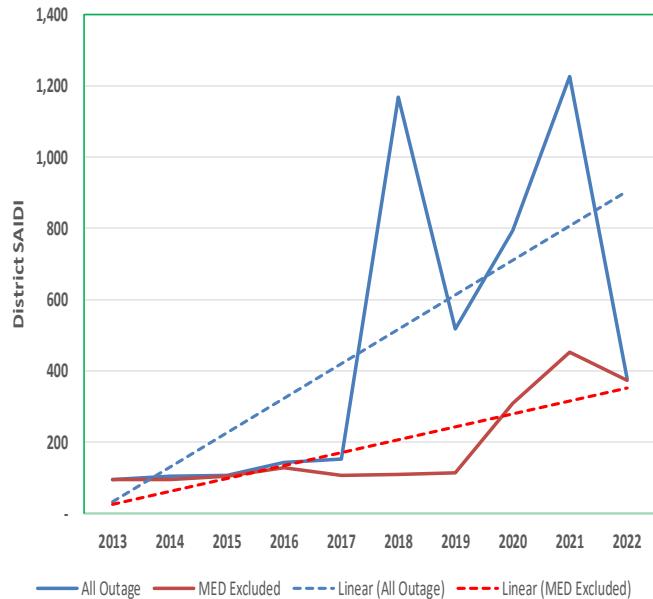
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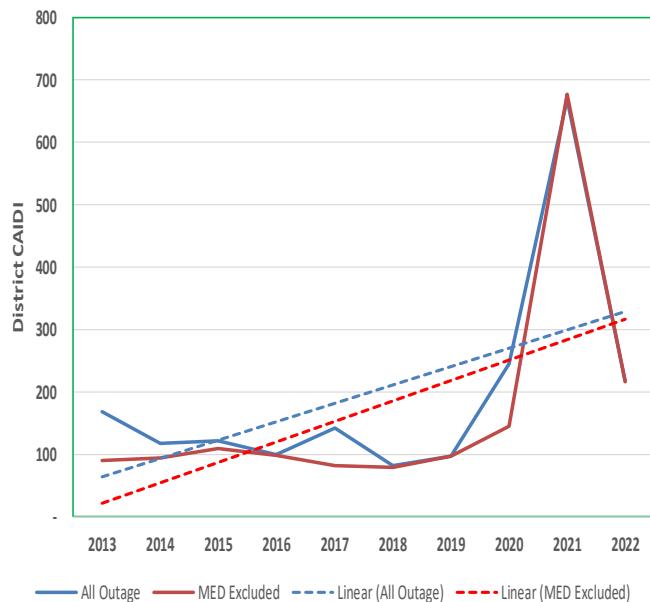
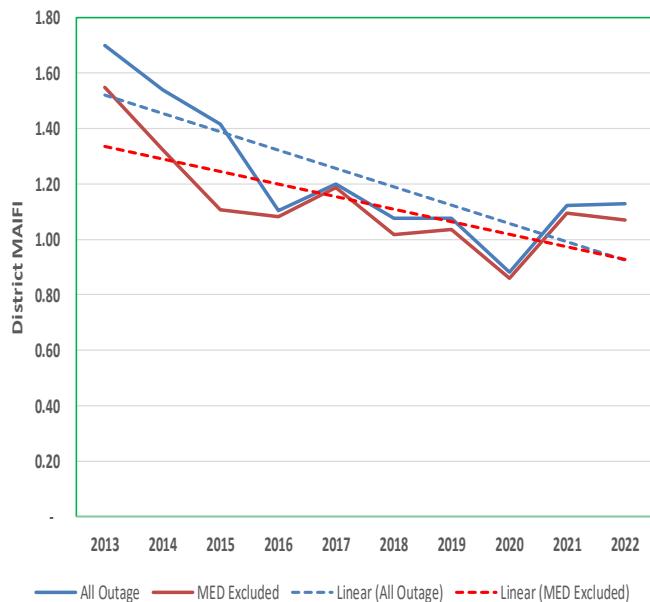
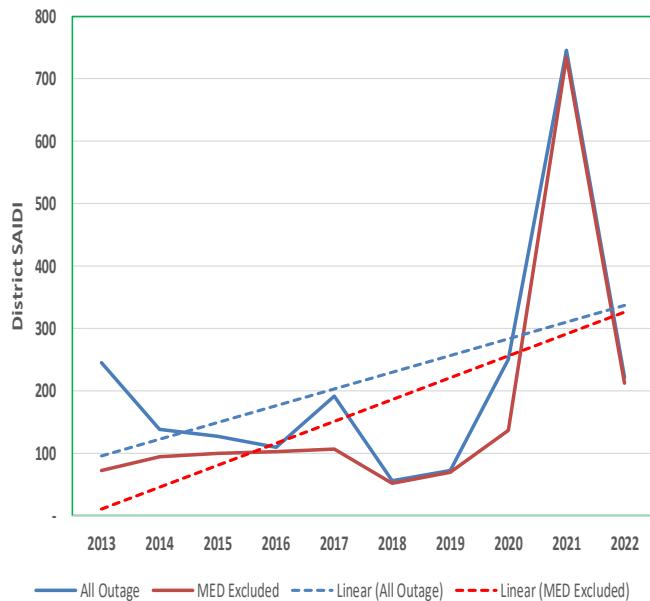
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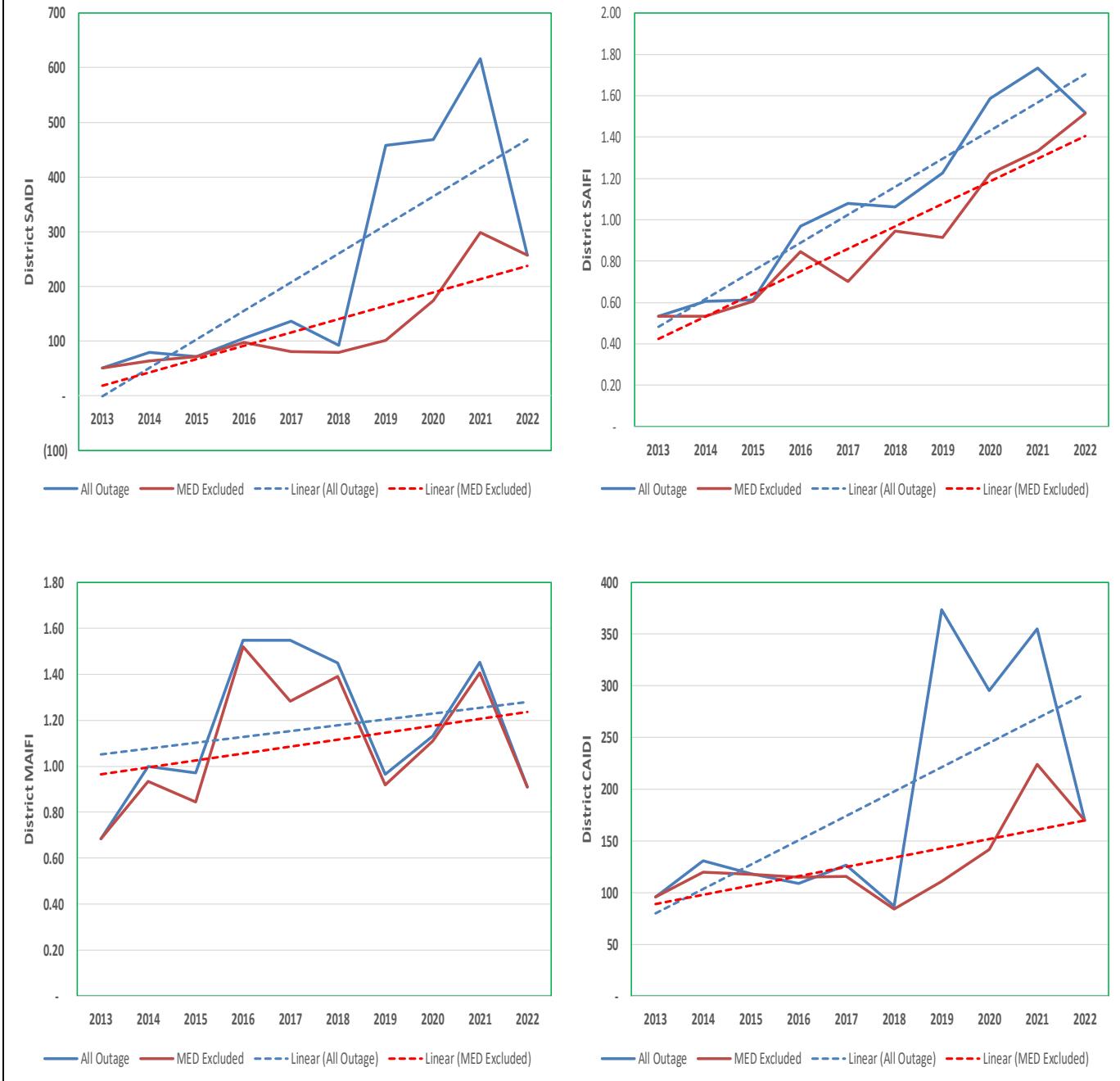
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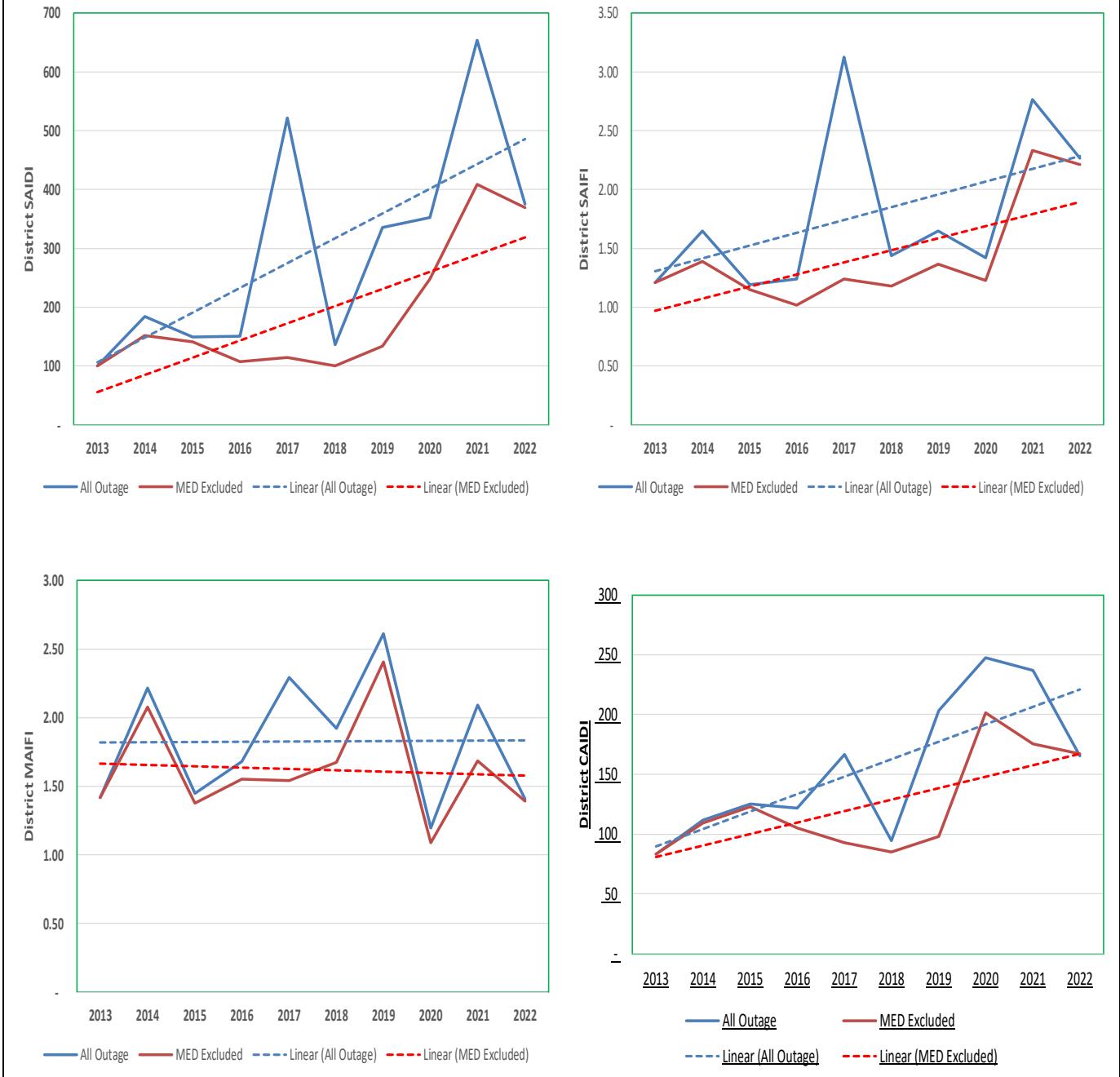
TULARE District Reliability Performance



VALENCIA District Reliability Performance



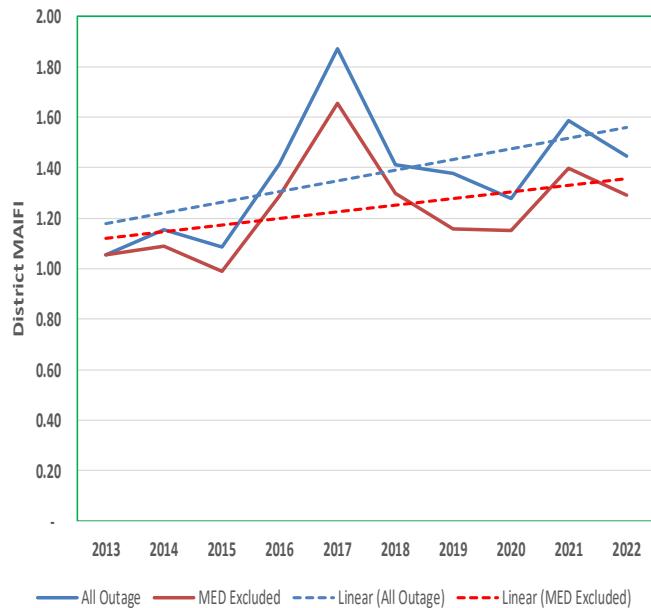
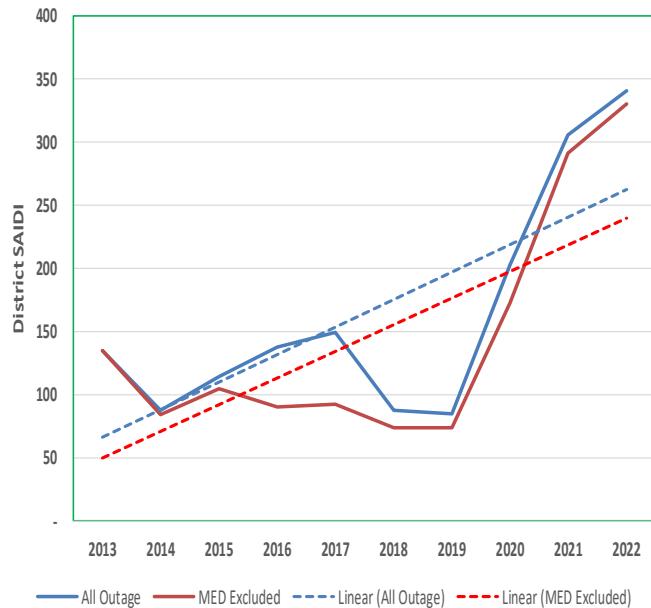
VENTURA District Reliability Performance



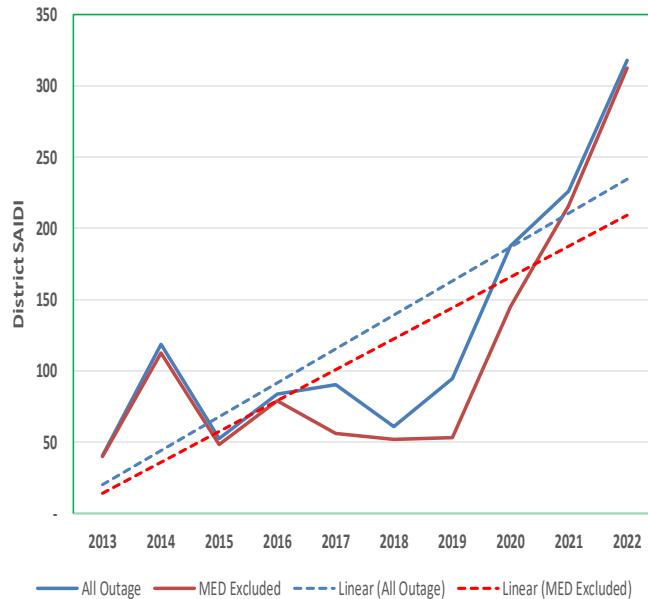
VICTORVILLE District Reliability Performance



WHITTIER District Reliability Performance



WILDOMAR District Reliability Performance



YUCCA VALLEY District Reliability Performance

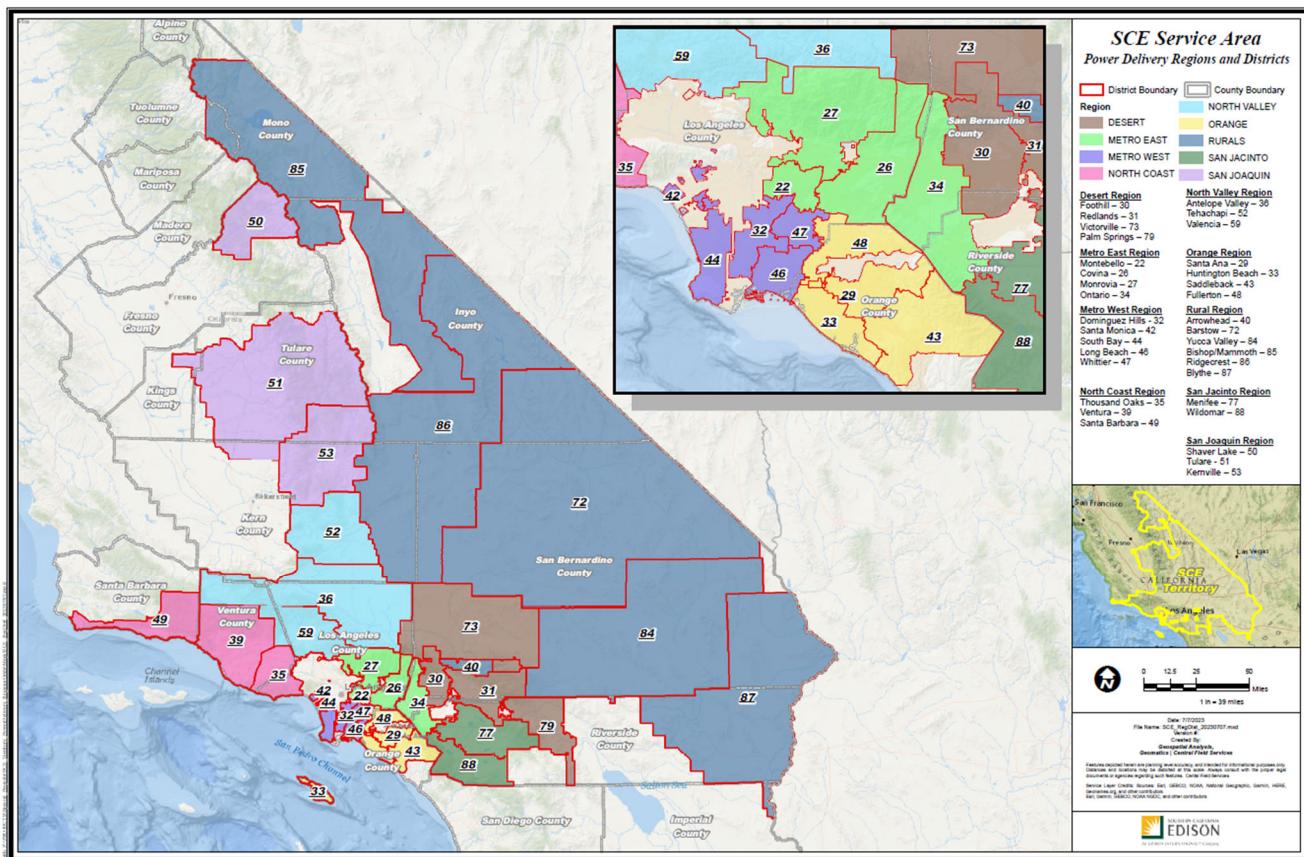


- b. The information on the number, date, and location of planned outages is currently unavailable to provide in a separate report to the Directors of the Energy Division and the Safety Enforcement Division⁹.

⁹ While SCE has provided macro-level metric data for planned outages for 2020-2022, SCE is currently refining this process to provide more granular and digestible data to the Commission.

SECTION 4 – SCE SERVICE AREA MAP

The below map shows SCE's Service area with Power Delivery Regions and Districts. The map contains both SCE district boundaries and county boundaries. SCE has 9 regions and 34 districts.¹⁰



¹⁰ Beginning in the 2019 annual report, Catalina District indices were combined with Huntington Beach since the Catalina District operations have merged with the Huntington Beach District. SCE no longer shows Catalina as a standalone District and Region in SCE's service area map. SCE has updated its Regions with a split of the North Coast Region into North Coast and North Valley Regions.

SECTION 5 – TOP 1% OF WORST PERFORMING CIRCUITS (WPC) EXCLUDING MAJOR EVENT DAYS (MEDs)

Worst Performing Circuits (WPC)¹¹ activity is part of the Worst Circuit Rehabilitation (WCR) program and targets the top 1% worst performing circuits, measured using IEEE indices SAIDI and SAIFI. The WCR program is used to promote SCE's system reliability, broken into two major activities: Worst Performing Circuits (WPC) and proactive Cable Replacement. For the purposes of this report, only the WPC portion of the WCR program is be covered.

WPCs are identified by using three years of System outage history excluding MEDs and planned events. A weighted factor is applied to the System outage data (e.g., SAIDI and SAIFI), where the most recent year's performance receives a higher weighted factor than the subsequent previous years, as follows: 61%, 28%, and 11%, respectively. The weighted results are summed per circuit and then ranked. SCE reports the top 46 WPCs between SAIDI and SAIFI; naturally some circuits overlap between indices. SCE identified 76 unique WPCs where 37 are asterisk* WPCs. An asterisked circuit is a circuit that appeared on the previous year's list and would be considered "deficient".

Below, Table 7 contains the Top 1% WPC using the SAIDI metric and Table 8 contains the Top 1% WPC using the SAIFI metric. The tables provide (1) circuit name, (2) district, (3) customer count, (4) substation name, (5) circuit miles, (6) %UG, (7) %OH, (8) number of main line outages resulting in the operation of a circuit breaker or automatic re-closer, (9) System-Level reliability metric, and (10) Circuit-Level reliability metric.

¹¹ In the 2025 GRC, SCE has separated WCR into two separate programs: Worst Performing Circuit (WPC) and Underground Cable Replacement (UCR). For the purpose of this document, SCE has elected to retain the activity and programs naming conventions (and relationships) noted within the 2021 GRC since they were still active for the 2022 calendar year.

Table 7 – Top 1% Worst Performing Circuits Based on SAIDI (Excluding MEDs)

| Circuit | District | 2022 Customer Count | Substation | Circuit Miles (d) | %UG | %OH | 2022 Circuit Breaker or Auto-Recloser Operation (a) | Sys-SAIDI Rank | Sys-SAIDI (b) | Ckt-SAIDI Rank | Ckt SAIDI (c) |
|------------------|----------|---------------------|------------------|-------------------|-----|------|---|----------------|---------------|----------------|---------------|
| Huevos 12kV | 72 | 2,495 | Tortilla | 24.90 | 48% | 52% | 3 | 1 | 0.4531 | 95 | 952 |
| Camp Nelson 4kV* | 51 | 434 | Camp Nelson P.T. | 8.84 | 1% | 99% | 3 | 2 | 0.4167 | 12 | 4,834 |
| Tenneco 12kV* | 36 | 4,717 | Frazier Park | 122.37 | 21% | 79% | 1 | 3 | 0.3965 | 225 | 461 |
| Cronin 12kV | 33 | 4,503 | Hamilton | 32.65 | 51% | 49% | 3 | 4 | 0.3466 | 261 | 404 |
| Deegan 12kV | 77 | 1,249 | Nelson | 11.64 | 76% | 24% | 1 | 5 | 0.3463 | 63 | 1,457 |
| Surfside 16kV | 39 | 5,718 | Channel Island | 31.64 | 62% | 38% | 5 | 6 | 0.3413 | 370 | 313 |
| Roi-Tan 12kV* | 31 | 2,519 | Shandin | 34.50 | 27% | 73% | 6 | 7 | 0.3322 | 135 | 696 |
| Big Pines 12kV* | 36 | 2,264 | Little Rock | 68.85 | 47% | 53% | 5 | 8 | 0.3308 | 118 | 768 |
| Erskine 12kV | 53 | 3,126 | Isabella | 70.73 | 5% | 95% | 8 | 9 | 0.3236 | 181 | 546 |
| January 12kV* | 33 | 4,057 | Lafayette | 19.90 | 93% | 7% | 3 | 10 | 0.3003 | 288 | 378 |
| Topo 16kV | 87 | 867 | Landing | 27.10 | 48% | 52% | 5 | 11 | 0.2969 | 46 | 1,796 |
| Driskill 16kV* | 49 | 4,127 | San Marcos | 68.54 | 41% | 59% | 6 | 12 | 0.2908 | 296 | 370 |
| Corsair 12kV | 77 | 2,075 | Stetson | 110.43 | 23% | 77% | 4 | 13 | 0.2841 | 125 | 740 |
| Mustang 12kV* | 53 | 2,177 | Isabella | 51.53 | 4% | 96% | 1 | 14 | 0.2833 | 134 | 699 |
| Sewell 12kV | 33 | 4,075 | Hamilton | 29.36 | 60% | 40% | 6 | 15 | 0.2791 | 306 | 359 |
| Brennan 16kV | 35 | 2,486 | Moorpark | 32.52 | 76% | 24% | 5 | 16 | 0.2635 | 176 | 556 |
| Cuthbert 16kV* | 35 | 2,390 | Latigo | 41.97 | 40% | 60% | 3 | 17 | 0.2566 | 165 | 586 |
| Melody 25kV* | 84 | 1,945 | Hi Desert | 320.42 | 0% | 100% | 7 | 18 | 0.2532 | 142 | 677 |
| Mcbean 16kV | 59 | 2,920 | Newhall | 21.52 | 72% | 28% | 6 | 19 | 0.2512 | 228 | 449 |
| Karen 12kV* | 48 | 2,375 | Marion | 18.17 | 15% | 85% | 3 | 20 | 0.2507 | 179 | 552 |
| Morganstein 16kV | 35 | 2,015 | Moorpark | 70.68 | 69% | 31% | 5 | 21 | 0.2472 | 146 | 642 |
| Atento 12kV* | 43 | 2,854 | Viejo | 57.02 | 53% | 47% | 3 | 22 | 0.2471 | 218 | 472 |
| Fantail 16kV | 42 | 5,438 | Tahiti | 12.80 | 87% | 13% | 4 | 23 | 0.2469 | 597 | 223 |
| Northpark 12kV | 31 | 2,048 | Shandin | 47.59 | 30% | 70% | 6 | 24 | 0.2467 | 132 | 705 |
| Mahogany 12kV | 51 | 288 | Tule (Pgae) | 27.95 | 0% | 100% | 4 | 25 | 0.2443 | 13 | 4,577 |
| Speaker 12kV | 33 | 4,886 | Hamilton | 32.47 | 61% | 39% | 3 | 26 | 0.2435 | 466 | 262 |
| Pascoe 2.4kV* | 53 | 393 | Greenhorn | 9.27 | 10% | 90% | - | 27 | 0.2374 | 25 | 3,025 |
| Power 4kV* | 31 | 532 | Muscoy | 3.04 | 0% | 100% | 7 | 28 | 0.2220 | 48 | 1,737 |
| Sugarloaf 2.4kV | 53 | 103 | Sugarloaf P.T. | 4.80 | 0% | 100% | - | 29 | 0.2178 | 6 | 10,805 |
| Yogi 12kV | 33 | 2,422 | Hamilton | 19.46 | 63% | 37% | 2 | 30 | 0.2156 | 221 | 468 |
| Linnet 2.4kV | 73 | 739 | Wrightwood | 6.67 | 9% | 91% | 3 | 31 | 0.2132 | 57 | 1,523 |
| Sago 16kV | 44 | 4,615 | Torrance | 22.48 | 26% | 74% | 3 | 32 | 0.2131 | 513 | 243 |
| Titan 12kV | 36 | 1,413 | Little Rock | 128.42 | 5% | 95% | 8 | 33 | 0.2125 | 114 | 796 |
| Kay 16kV* | 22 | 2,309 | Alhambra | 15.04 | 32% | 68% | 4 | 34 | 0.2082 | 213 | 478 |
| Big Rock 16kV* | 35 | 3,166 | Chatsworth | 30.08 | 44% | 56% | 3 | 35 | 0.2059 | 310 | 357 |
| Agate 12kV* | 43 | 4,180 | Morro | 35.06 | 70% | 30% | 2 | 36 | 0.2033 | 497 | 250 |
| Ryan 16kV | 44 | 7,624 | Lennox | 27.07 | 19% | 81% | 3 | 37 | 0.2029 | 990 | 145 |
| Autumn 12kV* | 85 | 2,139 | Skiland | 27.62 | 77% | 23% | 6 | 38 | 0.1946 | 214 | 478 |
| Riptide 16kV | 42 | 4,753 | Santa Monica | 11.28 | 70% | 30% | 1 | 39 | 0.1942 | 650 | 208 |
| Test 16kV | 22 | 3,408 | Alhambra | 16.96 | 28% | 72% | 2 | 40 | 0.1907 | 396 | 295 |
| Peso 12kV | 72 | 2,018 | Tortilla | 26.24 | 28% | 72% | 2 | 41 | 0.1876 | 209 | 488 |
| Landers 25kV* | 84 | 1,782 | Nugget | 144.54 | 1% | 99% | 8 | 42 | 0.1855 | 188 | 538 |
| Cachuma 16kV* | 49 | 2,484 | Vegas | 69.13 | 17% | 83% | 3 | 43 | 0.1854 | 277 | 390 |
| Vallecito 16kV* | 49 | 4,360 | Carpinteria | 54.99 | 47% | 53% | 1 | 44 | 0.1847 | 601 | 222 |
| Alaska 16kV | 44 | 2,867 | Yukon | 20.68 | 25% | 75% | 5 | 45 | 0.1806 | 340 | 337 |
| Trochu 16kV* | 32 | 2,010 | Bullis | 15.62 | 22% | 78% | 3 | 46 | 0.1792 | 215 | 477 |

Circuits that have appeared in this report that were in last year's report are marked with an asterisk (*) per D. 16-01-008 Annual Electric Report.

(a) Includes Sustained and Momentary outages that affected the circuit breaker.

(b) SAIDI is based on a three-year weighted average.

(c) Ckt SAIDI is based on a three-year weighted factor (average customer experience on circuit).

(d) Starting 2021 "Circuit Mile" field is using geospatial data moving away from legacy software.

Table 8 – Top 1% Worst Performing Circuits Based on SAIFI (Excluding MEDs)

| Circuit | District | 2022 Customer Count | Substation | Circuit Miles (d) | %UG | %OH | 2022 Circuit Breaker or Auto-Recloser Operation (a) | Sys-SAIFI Rank | Sys-SAIFI (b) | Ckt-SAIFI Rank | Ckt SAIFI (c) |
|------------------|----------|---------------------|---------------------|-------------------|-----|-----|---|----------------|---------------|----------------|---------------|
| Asteroid 16kV* | 22 | 4,463 | Alhambra | 20.31 | 0 | 1 | 5 | 1 | 0.0035 | 104 | 4 |
| Fantail 16kV* | 42 | 5,438 | Marina Del Rey | 12.80 | 1 | 0 | 4 | 2 | 0.0034 | 224 | 3 |
| Driskill 16kV* | 49 | 4,127 | Santa Barbara | 68.54 | 0 | 1 | 6 | 3 | 0.0034 | 92 | 4 |
| Ryan 16kV* | 44 | 7,624 | Inglewood | 27.07 | 0 | 1 | 3 | 4 | 0.0034 | 394 | 2 |
| Corsica 16kV* | 39 | 6,738 | Oxnard | 47.36 | 1 | 0 | 3 | 5 | 0.0034 | 311 | 3 |
| Mcbean 16kV | 59 | 2,920 | Newhall | 21.52 | 1 | 0 | 6 | 6 | 0.0033 | 36 | 6 |
| Roi-Tan 12kV* | 31 | 2,519 | San Bernardino | 34.50 | 0 | 1 | 6 | 7 | 0.0032 | 26 | 7 |
| January 12kV* | 33 | 4,057 | Costa Mesa | 19.90 | 1 | 0 | 3 | 8 | 0.0030 | 123 | 4 |
| Surfside 16kV* | 39 | 5,718 | Oxnard | 31.64 | 1 | 0 | 5 | 9 | 0.0030 | 283 | 3 |
| Campanula 25kV* | 84 | 2,018 | Landers | 137.07 | 0 | 1 | 23 | 10 | 0.0029 | 21 | 8 |
| Marshall 16kV | 42 | 3,419 | Santa Monica | 12.50 | 0 | 1 | 5 | 11 | 0.0028 | 98 | 4 |
| Enterprise 16kV | 39 | 3,501 | Oxnard | 33.75 | 1 | 0 | 4 | 12 | 0.0026 | 115 | 4 |
| Sago 16kV | 44 | 4,615 | Torrance | 22.48 | 0 | 1 | 3 | 13 | 0.0026 | 242 | 3 |
| Gowan 12kV | 30 | 1,395 | Glen Avon | 25.84 | 1 | 0 | 7 | 14 | 0.0025 | 15 | 9 |
| Speaker 12kV* | 33 | 4,886 | Huntington Beach | 32.47 | 1 | 0 | 3 | 15 | 0.0024 | 310 | 3 |
| Preston 12kV | 31 | 2,420 | Colton | 36.87 | 1 | 0 | 5 | 16 | 0.0024 | 56 | 5 |
| Navy 16kV | 42 | 3,248 | Santa Monica | 16.98 | 1 | 0 | 2 | 17 | 0.0024 | 120 | 4 |
| Sewell 12kV | 33 | 4,075 | Huntington Beach | 29.36 | 1 | 0 | 6 | 18 | 0.0023 | 232 | 3 |
| Exline 16kV* | 22 | 4,072 | El Monte | 17.52 | 0 | 1 | 3 | 19 | 0.0023 | 251 | 3 |
| Atmore 16kV | 39 | 2,956 | Santa Paula | 39.44 | 0 | 1 | 10 | 20 | 0.0022 | 118 | 4 |
| Spinnaker 16kV* | 39 | 5,097 | Oxnard | 34.23 | 0 | 1 | 2 | 21 | 0.0022 | 439 | 2 |
| Hooligan 16kV* | 35 | 3,216 | Conejo | 47.69 | 1 | 0 | 4 | 22 | 0.0021 | 158 | 4 |
| Gringo 16kV* | 39 | 4,792 | Ventura | 27.67 | 1 | 0 | 1 | 23 | 0.0021 | 400 | 2 |
| Tenneco 12kV* | 36 | 4,717 | Frazier Park | 122.37 | 0 | 1 | 1 | 24 | 0.0021 | 379 | 2 |
| Carnelian 16kV | 44 | 5,108 | Redondo Beach | 18.25 | 1 | 0 | 3 | 25 | 0.0021 | 471 | 2 |
| Rosa 16kV | 39 | 3,834 | Camarillo | 43.29 | 1 | 0 | 6 | 26 | 0.0021 | 256 | 3 |
| Storke 16kV | 49 | 4,741 | Goleta | 46.10 | 0 | 1 | 3 | 27 | 0.0021 | 411 | 2 |
| Erskine 12kV | 53 | 3,126 | Isabella | 70.73 | 0 | 1 | 8 | 28 | 0.0021 | 157 | 4 |
| Tri City 16kV* | 22 | 3,190 | Alhambra | 16.94 | 0 | 1 | 5 | 29 | 0.0021 | 166 | 3 |
| Gizmo 16kV | 39 | 4,344 | Oxnard | 27.81 | 1 | 0 | 4 | 30 | 0.0021 | 348 | 2 |
| Windjammer 16kV* | 39 | 7,690 | Oxnard | 44.89 | 0 | 1 | 4 | 31 | 0.0021 | 883 | 1 |
| Huskie 12kV | 43 | 3,421 | Lake Forest | 24.69 | 1 | 0 | 3 | 32 | 0.0020 | 222 | 3 |
| Salmon 16kV* | 44 | 4,140 | Hawthorne | 19.68 | 0 | 1 | 1 | 33 | 0.0020 | 290 | 3 |
| Butane 16kV | 44 | 5,134 | El Segundo | 20.74 | 0 | 1 | 2 | 34 | 0.0019 | 587 | 2 |
| Silicone 16kV | 44 | 2,223 | Rancho Palos Verdes | 27.40 | 1 | 0 | 4 | 35 | 0.0018 | 91 | 4 |
| Landers 25kV | 84 | 1,782 | Landers | 144.54 | 0 | 1 | 8 | 36 | 0.0018 | 58 | 5 |
| Big Rock 16kV* | 35 | 3,166 | Chatsworth | 30.08 | 0 | 1 | 3 | 37 | 0.0017 | 227 | 3 |
| Snead 12kV | 33 | 3,589 | Costa Mesa | 19.90 | 1 | 0 | 3 | 38 | 0.0017 | 352 | 2 |
| Cubic 12kV | 34 | 2,873 | Upland | 20.78 | 0 | 1 | 8 | 39 | 0.0017 | 215 | 3 |
| Alaska 16kV | 44 | 2,867 | Hawthorne | 20.68 | 0 | 1 | 5 | 40 | 0.0017 | 219 | 3 |
| Brickyard 16kV | 32 | 3,039 | Commerce | 14.97 | 0 | 1 | 3 | 41 | 0.0017 | 262 | 3 |
| Bushard 12kV | 33 | 3,453 | Huntington Beach | 26.44 | 0 | 1 | 2 | 42 | 0.0017 | 340 | 3 |
| Margaret 16kV* | 44 | 5,242 | Hawthorne | 16.02 | 0 | 1 | 2 | 43 | 0.0016 | 730 | 2 |
| Thornburg 12kV | 36 | 1,831 | Palmdale | 21.44 | 1 | 0 | 6 | 44 | 0.0016 | 72 | 5 |
| Paloma 16kV | 27 | 2,053 | Pasadena | 14.62 | 0 | 1 | 6 | 45 | 0.0016 | 95 | 4 |
| Karen 12kV | 48 | 2,375 | Cypress | 18.17 | 0 | 1 | 3 | 46 | 0.0016 | 153 | 4 |

Circuits that have appeared in this report that were in last year's report are marked with an asterisk (*) per D. 16-01-008 Annual Electric Report.

(a) Includes Sustained and Momentary outages that affected the circuit breaker.

(b) SAIFI is based on a three-year weighted average.

(c) Ckt SAIFI is based on a three-year weighted factor (average customer experience on circuit).

(d) Starting 2021, "Circuit Mile" field is using Geospatial data moving away from legacy software.

Tables 9 and 10 below identify the circuits that are top 1% WPC (by SAIDI or SAIFI this year) *and* were top 1% circuits by SAIDI or SAIFI on SCE's WPC list in 2025. These tables provide the following information:

- i) An explanation of why it was ranked as a "deficient" circuit, i.e., the value of the metric used to indicate its performance.
- ii) A historical record of the metric.
- iii) An explanation of why it was on the deficiency list again.
- iv) An explanation of what is being done to improve the circuit's future performance and the anticipated timeline for completing those activities (or an explanation why remediation is not being planned).
- v) A quantitative description of the utility's expectation for that circuit's future performance.

Table 9 – (SAIDI Preferred Metric – “Repeat Deficient” List)

| Circuit | i. | | ii. | | iii. | | iv. | | |
|------------------|---------------------|----------------|---------------------|----------------|---|--|------------|---|-----------------------------|
| | 2022 Sys-SAIDI Rank | 2022 Sys-SAIDI | 2021 Sys-SAIDI Rank | 2021 Sys-SAIDI | Explanation of Repeat Deficiency | | Submitted | Engineering Scope | Anticipated Completion Year |
| Camp Nelson 4kV* | 2 | 0.416723894 | 44 | 0.19142 | Camp Nelson was a PSPS event on Mahogany which is the source feed for Camp Nelson. | | 5/6/2020 | Grid Resiliency Reconductor 2.6 circuit miles to OH Aerial bundled cable Camp Nelson being cutover to Mahogany 12kV | 2024 |
| Tenneco 12kV* | 3 | 0.39648877 | 2 | 0.57172 | 2022 high impact interruption on the Tenneco was due to a car hit pole impacting the transmission line feeding sub. | | 2/22/2019 | Grid Resiliency Reconductor 90 circuit miles to OH covered conductor installed between 2020 through 2022. Engineering will continue to monitor and evaluate circuit performance for additional circuit enhancements (i.e F1's and automation) to minimize CMI and CI. | Pending Review |
| Roi-Tan 12kV* | 7 | 0.33223468 | 29 | 0.23372 | Roi-Tan experienced seven high impact interruptions in 2022, three due to foreign material in OH lines, three Red Flag warnings and one event was due to a transmission interruption. | | 1/6/2023 | Grid Resiliency Reconductor 1.4 circuit miles to OH covered conductor Engineering will continue to monitor and evaluate circuit performance for additional circuit enhancements (i.e F1's and automation) to minimize CMI and CI. | 2024 |
| Big Pines 12kV* | 8 | 0.330838781 | 31 | 0.22612 | All three high impact outages in 2022 on Big Pines were UG equipment failures. | | - | Engineering is monitoring and evaluating UG cable for replacement, looking for opportunities to create box loops. Reviewing circuit for additional automation to minimize CMI and CI. | Pending Review |
| January 12kV* | 10 | 0.300331055 | 35 | 0.21806 | 2022 leading interruptions for reliability deficiency were two UG equipment failures, one OH equipment failure. Circuit traverse along Newport Beach Balboa Peninsula congested intersections and structures need to pump to begin troubleshooting. | | 2/17/2023 | District is piloting two locations for Eco sump pumps. | 2023 |
| Driskill 16kV* | 12 | 0.290762352 | 28 | 0.23386 | Driskill had five high impact interruptions in 2022 which are three operation driven, UG equipment, and critter. | | 9/30/2022 | Grid Resiliency Reconductor 5.6 circuit miles to OH covered conductor Installing 10 BLF location | 2024 |
| Mustang 12kV* | 14 | 0.283344825 | 1 | 0.58420 | Mustang had one source interruption in 2022 that was a impact outages leading to the reliability deficiency. Subtrans source was interrupted due to weather. | | 2/16/2021 | Grid Resiliency Reconductor 22.9 circuit miles to OH Covered Conduit Installing 7 BLF location | 2023 |
| Cuthbert 16kV* | 17 | 0.256579116 | 4 | 0.45143 | Cuthbert had two high impact interruptions in 2022 which was caused by OH equipment and operations. | | 7/29/2022 | Grid Resiliency Reconductor 3.7 circuit miles to OH covered conductor Installing 10 BLF location | 2024 |
| Melody 25kV* | 18 | 0.253195437 | 5 | 0.45007 | Melody had one OH equipment interruption in 2022 that were high impact outages leading to the reliability deficiency. | | 4/30/2019 | WCR Installing 220 BLF locations | Postponed due to resources. |
| Karen 12kV* | 20 | 0.25065698 | 46 | 0.18865 | Karen experienced three high impact interruptions in 2022 leading to the circuit's reliability deficiency. The interruptions were the following vehicle hit pole, mylar balloon contacting OH lines, and critter in substation equipment. | | 10/31/2022 | Grid Mod Installing 2 Automated Switches | 2023 |
| Atento 12kV* | 22 | 0.247127879 | 9 | 0.31997 | Atento had two UG equipment interruptions in 2022 that resulted in high impact outages leading to the reliability deficiency. | | 1/29/2021 | Grid Resiliency Reconductor 32 circuit miles to OH covered conductor between 2021 through 2022. Engineering will continue to monitor and evaluate circuit performance for additional circuit enhancements (i.e F1's and automation) to minimize CMI and CI. | Pending Review |
| Pascoe 2.4kV* | 27 | 0.237410606 | 3 | 0.49997 | Pascoe had no impact outage but had four OH equipment interruptions that were isolated by a fuses. | | 2/26/2020 | Grid Resiliency Reconductor 8.3 circuit miles to aerial cable | 2024 |
| Power 4kV* | 28 | 0.222029779 | 11 | 0.31528 | 2022 leading interruptions for Power's reliability deficiency was two OH equipment failures and operation driven interruption. Circuit recently has been performing well compared to past, no additional projects needed at this time. | | 3/30/2017 | Power 4kV cutover to 12kV Converting 150 4kV transformers to 12kV | Pending Permits |
| Kay 16kV* | 34 | 0.208220933 | 38 | 0.20195 | Kay experienced three high impact interruptions in 2022 leading to the circuit's reliability deficiency. The interruptions were two critter events and a mylar balloon. | | 1/19/2021 | Grid Mod Installing 2 Automated Switches | 2022 |
| Big Rock 16kV* | 35 | 0.205869378 | 27 | 0.23550 | Big Rock experienced three high impact interruptions in 2022 leading to the circuit's reliability deficiency. The interruptions were OH equipment and two operations driven. | | 9/3/2021 | Grid Resiliency Reconductor 10.6 circuit miles to covered conductor | 2021 |
| Agate 12kV* | 36 | 0.203268847 | 13 | 0.29980 | Agate had one high impact interruption in 2022 from a UG equipment failure leading to the circuit's reliability deficiency. | | 8/31/2018 | Grid Resiliency Reconductor 1.04 circuit miles to covered conductor | 2023 |
| Autumn 12kV* | 38 | 0.19462344 | 34 | 0.21826 | 2022 high impact interruptions on the Autumn ckt were two source interruptions from Chateau 33kV and one weather. | | 11/30/2022 | Grid Resiliency Reconductor 7.8 circuit miles to covered conductor | 2024 |
| Landers 25kV* | 42 | 0.185499929 | 26 | 0.23555 | Pinto 33kV source circuit feeding Campanula and Landers had four interruptions contributing to reliability deficiency. The high impact outages on the Pinto were mylar balloon in OH lines, operation, vehicle hit pole, UG equipment. | | - | Engineering will continue to monitor and evaluate circuit performance for additional circuit enhancements (i.e F1's and automation) to minimize CMI and CI. | Pending Review |
| Cachuma 16kV* | 43 | 0.185395044 | 10 | 0.31646 | Cachuma had two high impact interruptions in 2022 which were caused weather and UG equipment. | | 2/22/2019 | Grid Resiliency Reconductor 7.8 Circuit Miles of covered conductor Reconductor 38.9 Circuit Miles of covered conductor installed between 2020 through 2022. 15 CLF locations | 2023 |
| Vallecito 16kV* | 44 | 0.184745498 | 36 | 0.21671 | 2022 high impact interruptions for Vallecito's reliability deficiency was two UG equipment failures. | | 8/31/2018 | Grid Resiliency Reconductor 13.4 Circuit Miles of covered conductor | ?? |
| Trochu 16kV* | 46 | 0.179211597 | 15 | 0.29025 | Trochu experienced two high impact interruptions in 2022. The events were vehicle hit pole and OH equipment. | | 10/31/2022 | Grid Mod Installing 2 Automated Switches | 2023 |

V. SCE does not have a quantitative description for its circuit future performance since SCE designs reliability improvements for WCR projects at the system level rather than at the individual circuit level. For additional details, please refer to the discussion in SCE's 2018 General Rate Case Testimony, as shown in Exhibit SCE-02, Volume 08, page 23 ("quantitative benefits").

Table 10 – (SAIFI Preferred Metric – “Repeat Deficient” List)

| Circuit | i. | | ii. | | iii. | | iv. | | |
|------------------|---------------------|----------------|---------------------|----------------|---|---|------------|--|-----------------------------|
| | 2022 Sys-SAIFI Rank | 2022 Sys-SAIFI | 2021 Sys-SAIFI Rank | 2021 Sys-SAIFI | Explanation of Repeat Deficiency | | Submitted | Engineering Scope | Anticipated Completion Year |
| Asteroid 16kV* | 1 | 0.00345 | 35 | 0.00165 | Asteroid experienced five high impact interruptions in 2022. The high impact outages were two OH equipment, two lightning driven, and one event driven by operations. | - | 7/31/2018 | OCP Reconducto 5.5 Conductor Miles of OH bare conductor | Postpone due to resources |
| Fantail 16kV* | 2 | 0.00339 | 21 | 0.00195 | Structures need to be pump to begin troubleshooting. 2022 leading interruptions for reliability deficiency were three UG equipment failures. | - | | Engineering is monitoring and evaluating circuit for additional circuit enhancements (i.e. FI's and automation) to minimize CMI and CI. | Pending Review |
| Driskill 16kV* | 3 | 0.00337 | 10 | 0.00209 | Driskill had five high impact interruptions in 2022 which are three operation driven, UG equipment, and critter. | - | 9/30/2022 | Grid Resiliency Reconducto 5.6 circuit miles to OH covered conductor Installing 10 BLF location | 2024 |
| Ryan 16kV* | 4 | 0.00336 | 28 | 0.00185 | Ryan experienced two high impact interruptions in 2022 leading to the circuit's reliability deficiency. The interruptions were a critter events and vegetation. | - | 1/31/2018 | OCP Reconducto 5 Circuit Miles of OH bare conductor | 2023 |
| Corsica 16kV* | 5 | 0.00335 | 2 | 0.00329 | Two UG equipment failures that were high impacted outages which lead to Corsica's reliability performance. | - | 10/31/2017 | WCR Installing 5 FIs 20 BLFs locations Replacing 8 OH Switches Grid Mod 3 Automated Switches | 2023 |
| Roi-Tan 12kV* | 7 | 0.00322 | 9 | 0.00219 | Roi-Tan experienced seven high impact interruptions in 2022, three due to foreign material in OH lines, three Red Flag warnings and one event was due to a transmission interruption. | - | 1/6/2023 | Grid Resiliency Reconducto 1.4 circuit miles to OH covered conductor Engineering will continue to monitor and evaluate circuit performance for additional circuit enhancements (i.e. FI's and automation) to minimize CMI and CI. | 2024 |
| January 12kV* | 8 | 0.00303 | 4 | 0.00286 | 2022 leading interruptions for reliability deficiency were two UG equipment failures, one OH equipment failure. Circuit traverse along Newport Beach Balboa Peninsula congested intersections and structures need to pump to begin troubleshooting. | - | 2/17/2023 | District is piloting two locations for Eco sump pumps. | 2023 |
| Surfside 16kV* | 9 | 0.00299 | 32 | 0.00171 | Surfside experienced three high impact interruptions in 2022 leading to the circuit's reliability deficiency. The interruption events were OH equipment, vehicle hit pole, and critter. | - | | WCR Reable 2.7 UG conductor miles Installing 1 PME | Postpone due to resources |
| Campanula 25kV* | 10 | 0.00293 | 26 | 0.00187 | Pinto 33kV source circuit feeding Campanula and Landers had four interruptions contributing to reliability deficiency. The high impact outages on the Pinto were mylar balloon in OH lines, operation, vehicle hit pole, UG equipment. | - | 1/31/2022 | Grid Resiliency Reconducto 19.7 circuit miles of OH bare conductor | 2023? |
| Speaker 12kV* | 15 | 0.00244 | 44 | 0.00151 | Speaker had five impact interruptions in 2022 the outages were three UG equipment and 2 OH equipment. | - | 1/31/2022 | Grid Mod Installing 2 Automated Switches | 2023 |
| Exline 16kV* | 19 | 0.00227 | 19 | 0.00198 | Exline had the following high impacted events which lead to it's reliability deficiency. Vegetation in OH lines, 2 events caused by vandalism, lightning, 2 OH equipment events, and 1 UG equipment event. | - | | Engineering is monitoring and evaluating circuit for additional circuit enhancements (i.e. FI's and automation) to minimize CMI and CI. | Pending Review |
| Spinnaker 16kV* | 21 | 0.00219 | 8 | 0.00219 | 2022 high impact interruptions Spinnaker's reliability deficiency was two OH equipment events. | - | 10/27/2016 | WCR Installing .17 Conductor mile of UG cable for a boxloop WCR Installing 4 Automated Switches Installing 22 BLFs locations Project completed | Postponed due to resources |
| Hooligan 16kV* | 22 | 0.00214 | 24 | 0.00192 | Hooligan experienced two high impact interruptions in 2022 leading to the circuit's reliability deficiency. The interruptions events were OH and UG equipment failures. | - | 11/30/2022 | Grid Resiliency Reconducto 2.98 Circuit Miles of covered conductor | 2025 |
| Gringo 16kV* | 23 | 0.00214 | 16 | 0.00203 | Gringo had one UG equipment which was a high impact interruptions in 2022 leading to the circuit's reliability deficiency. | - | | Engineering is monitoring and evaluating circuit for additional circuit enhancements (i.e. FI's and automation) to minimize CMI and CI. | Pending Review |
| Tenneco 12kV* | 24 | 0.00211 | 1 | 0.00374 | 2022 high impact interruption on the Tenneco was due to a car hit pole impacting the transmission line feeding sub. | - | 2/22/2019 | Grid Resiliency Reconducto 90 circuit miles to OH covered conductor installed between 2020 through 2022. | Pending Review |
| Tri City 16kV* | 29 | 0.00208 | 18 | 0.00200 | Tri City experienced four high impact interruptions events in 2022. The events were vegetation in OH lines, OH equipment, and two events driven by operations. | - | | Engineering is monitoring and evaluating circuit for additional circuit enhancements (i.e. FI's and automation) to minimize CMI and CI. | Pending Review |
| Windjammer 16kV* | 31 | 0.00206 | 3 | 0.00306 | Windjammer experienced two high impact interruptions events in 2022 which were OH equipment events. | - | | Engineering is monitoring and evaluating circuit for additional circuit enhancements (i.e. FI's and automation) to minimize CMI and CI. | Pending Review |
| Salmon 16kV* | 33 | 0.00196 | 7 | 0.00227 | 2022 high impact interruptions for Salmon's reliability deficiency was a UG equipment failure and critter driven interruption. | - | | Engineering is monitoring and evaluating circuit for additional circuit enhancements (i.e. FI's and automation) to minimize CMI and CI. | Pending Review |
| Big Rock 16kV* | 37 | 0.00175 | 36 | 0.00164 | Big Rock experienced three high impact interruptions in 2022 leading to the circuit's reliability deficiency. The interruptions were OH equipment and two operations driven. | - | 9/3/2021 | Grid Resiliency Reconducto 10.6 circuit miles to covered conductor | 2021 |
| Margaret 16kV* | 43 | 0.00164 | 6 | 0.00227 | Margaret experienced one UG equipment high impact interruptions in 2022 leading to the circuit's reliability deficiency. | - | | Engineering is monitoring and evaluating circuit for additional circuit enhancements (i.e. FI's and automation) to minimize CMI and CI. | Pending Review |

V. SCE does not have a quantitative description for its circuit future performance since SCE designs reliability improvements for WCR projects at the system level rather than at the individual circuit level. For additional details, please refer to the discussion in SCE's 2018 General Rate Case Testimony, as shown in Exhibit SCE-02, Volume 08, page 23 ("quantitative benefits").

WORST PERFORMING CIRCUITS (WPC) Evaluation

Per CPUC guidance, the top 1% circuits are the SCE's WPC and are assigned to the area Distribution Engineer to evaluate.

The WPC evaluation begins by reviewing outages exceeding thresholds of 100,000 Customer Minutes of Interruption (CMI) or 1,100 Customer Interrupted (CI). These thresholds are used to identify the severity of the outage and target specific areas with reliability concerns. SCE Outage Logs, ODRM reports, and repair orders are used as part of the outage evaluation and provide additional details such as switching procedures and operational obstacles such as access to structures to operate equipment. After the outages have been evaluated, Distribution Engineering can start determining WPC scopes.

Distribution Engineering focuses on proposing the most cost-effective overhead (OH) and/or underground (UG) enhancements to improve the customer experience by limiting outage impact and by installing equipment to improve isolation capabilities or reduce outage durations. Distribution Engineering's initial review may propose additional Branch Line Fuses (BLFs) to minimize impact of outage to a small subset of customers or Fault Indicators (FIs) to improve operation response time. These solutions are inexpensive and can be constructed quick if field conditions allow. The next layer of circuit improvement is overhead/underground automation which cost more than BLFs and FIs, but can greatly reduce duration of the outage by converting sustained interruption events into momentary events. Underground improvements or overhead re-conductoring tend to be costly and have longer lead times than the previous two options described but can provide additional reliability benefits. The underground and overhead re-conductoring options require significantly more resources to plan and construct than more cost-effective solutions. SCE Planning needs to field verify proposed locations to determine if work can be constructed and the resource needs (e.g., multiple crews) to construct these types of projects.

As mentioned in SCE's 2025 GRC proposal, SCE is returning to historical levels of traditional infrastructure replacement work to enhance and maintain system reliability and promote safety.

SECTION 6 – TOP 10 MAJOR UNPLANNED POWER OUTAGE EVENTS WITHIN A REPORTING YEAR

Table 11 below captures the top 10 major unplanned outage events for 2022 including the cause and location of the outage. Table 12 captures the number of customers without power in hourly intervals for the 2022 Top 10 outages.

Table 11 – Top 10 Major Unplanned Outage Events (2022)

| Rank | System Outage ID | Date | Switching Center | Cause Description | SAIDI | Number of Customers Affected | Longest Individual Customer Interruption (minutes) | Customer interrupted due to restoration (Standard Operations) | Customer with Repeated power interruptions Due to Weather, equipment, etc other than standard operations |
|------|------------------|-----------|------------------|--|-------|------------------------------|--|---|--|
| 1 | 392533 | 1/22/2022 | MIRA LOMA | UNKNOWN OVERHEAD EQUIPMENT SPLICER/CONNECTOR/TAP | 1.03 | 5,138 | 2,529 | | 2,569 |
| 2 | 405076 | 8/15/2022 | RECTOR | DE-ENERGIZE FOR PUB. AGENCY PUB. SAFETY SWITCH/DISCONNEC | 0.95 | 873 | 5,769 | | |
| 3 | 391947 | 1/21/2022 | MESA | VEGETATION BLOWN OVERHEAD EQUIPMENT CONDUCTOR/WIRE | 0.80 | 2,813 | 3,841 | 10 | |
| 4 | 400741 | 6/16/2022 | LUGO | OPEN FOR REPAIRS STANDARD OPERATION OPERATOR/CREW | 0.72 | 2,589 | 1,472 | 2,589 | |
| 5 | 400713 | 6/22/2022 | VINCENT | LIGHTNING OVERHEAD EQUIPMENT FUSE/BLF/CUTOUT | 0.63 | 2,512 | 1,322 | | |
| 6 | 403187 | 7/19/2022 | EL NIDO | OTHER-SEE NOTES SUBSTATION EQUIPMENT CIRCUIT BREAKER | 0.58 | 25,460 | 218 | | 8,923 |
| 7 | 392509 | 1/21/2022 | MIRA LOMA | VEGETATION BLOWN OVERHEAD EQUIPMENT CONDUCTOR/WIRE | 0.56 | 2,837 | 4,048 | | 1,034 |
| 8 | 403999 | 8/8/2022 | ELDORADO | OTHER-SEE NOTES STRUCTURE POLE | 0.56 | 2,354 | 1,890 | | |
| 9 | 392236 | 1/21/2022 | MIRA LOMA | WIND OVERHEAD EQUIPMENT CONDUCTOR/WIRE | 0.55 | 23,753 | 4,582 | | 2,145 |
| 10 | 392495 | 1/21/2022 | MIRA LOMA | WIND OVERHEAD EQUIPMENT CONDUCTOR/WIRE | 0.55 | 1,564 | 3,810 | | 46 |

Table 12 – Number of Customers without Power in Hourly Intervals

| Ranking | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|-----------------|-----------------|
| System Outage ID | 392533 | 405076 | 391947 | 400741 | 400713 | 403187 | 392509 | 403999 | 392236 | 392495 |
| Outage Start Hour | 1/22/2022 12 AM | 8/15/2022 04 PM | 1/21/2022 10 PM | 6/16/2022 08 AM | 6/22/2022 01 AM | 7/19/2022 06 AM | 1/21/2022 10 PM | 8/8/2022 03 PM | 1/21/2022 10 PM | 1/21/2022 10 PM |
| 0 - 1 Hour | 5138 | 873 | 2803 | 2589 | 2512 | 25460 | 1803 | 2354 | 4448 | 1476 |
| 1 - 2 Hour | 2569 | 873 | 2803 | 2589 | 2512 | 16537 | 1803 | 2354 | 158 | 1476 |
| 2 - 3 Hour | 2569 | 873 | 2803 | 2589 | 2512 | 13222 | 1803 | 2354 | 2303 | 1476 |
| 3 - 4 Hour | 2569 | 873 | 2803 | 2589 | 2512 | 13222 | 1803 | 2354 | 8738 | 1476 |
| 4 - 5 Hour | 2569 | 864 | 2803 | 2589 | 2512 | 0 | 1803 | 2354 | 8738 | 1476 |
| 5 - 6 hour | 2569 | 864 | 2803 | 2589 | 2512 | 0 | 1803 | 2354 | 1409 | 1476 |
| 6 - 7 Hour | 2569 | 864 | 2803 | 2589 | 2512 | 0 | 1803 | 2354 | 1409 | 1476 |
| 7 - 8 Hour | 2569 | 864 | 2803 | 2589 | 2512 | 0 | 1803 | 1339 | 1409 | 1534 |
| 8 - 9 Hour | 2569 | 864 | 2803 | 2589 | 2512 | 0 | 1803 | 1339 | 1409 | 1534 |
| 9 - 10 Hour | 2569 | 864 | 2803 | 2589 | 2512 | 0 | 1803 | 1339 | 1409 | 1534 |
| 10 - 11 Hour | 2569 | 864 | 2803 | 2589 | 2512 | 0 | 1803 | 1339 | 1409 | 1534 |
| 11 - 12 Hour | 2569 | 864 | 2803 | 2589 | 2512 | 0 | 1803 | 1339 | 1409 | 1534 |
| 12 - 13 Hour | 2569 | 864 | 2803 | 2589 | 2512 | 0 | 1803 | 1339 | 1409 | 1534 |
| 13 - 14 Hour | 2569 | 864 | 2803 | 2589 | 2512 | 0 | 1803 | 1339 | 1409 | 1534 |
| 14 - 15 Hour | 2569 | 864 | 2803 | 2589 | 2512 | 0 | 1803 | 1339 | 1409 | 1534 |
| 15 - 16 Hour | 2569 | 864 | 2803 | 2589 | 2512 | 0 | 769 | 1339 | 1409 | 1534 |
| 16 - 17 Hour | 2569 | 864 | 2803 | 2589 | 2512 | 0 | 769 | 1339 | 1409 | 621 |
| 17 - 18 Hour | 2569 | 864 | 2803 | 2589 | 2512 | 0 | 769 | 1339 | 1409 | 621 |
| 18 - 19 Hour | 2569 | 864 | 2803 | 2589 | 2512 | 0 | 769 | 1339 | 1409 | 621 |
| 19 - 20 Hour | 2011 | 864 | 2803 | 2589 | 2512 | 0 | 769 | 1339 | 1409 | 621 |
| 20 - 21 Hour | 2011 | 864 | 2803 | 2589 | 2512 | 0 | 769 | 1339 | 1409 | 621 |
| 21 - 22 Hour | 2011 | 864 | 2803 | 2589 | 2512 | 0 | 1803 | 1339 | 1409 | 621 |
| 22 - 23 Hour | 2011 | 864 | 2803 | 2589 | 2512 | 0 | 746 | 1339 | 1409 | 621 |
| 23 - 24 Hour | 2011 | 864 | 2803 | 2589 | 0 | 0 | 746 | 1339 | 1409 | 621 |
| After 24 Hour (includes interruptions started at later days/Hours) | 2011 | 864 | 2813 | 2589 | 0 | 0 | 746 | 1339 | 1409 | 651 |

SECTION 7 – SUMMARY LIST OF MEDs PER IEEE 1366

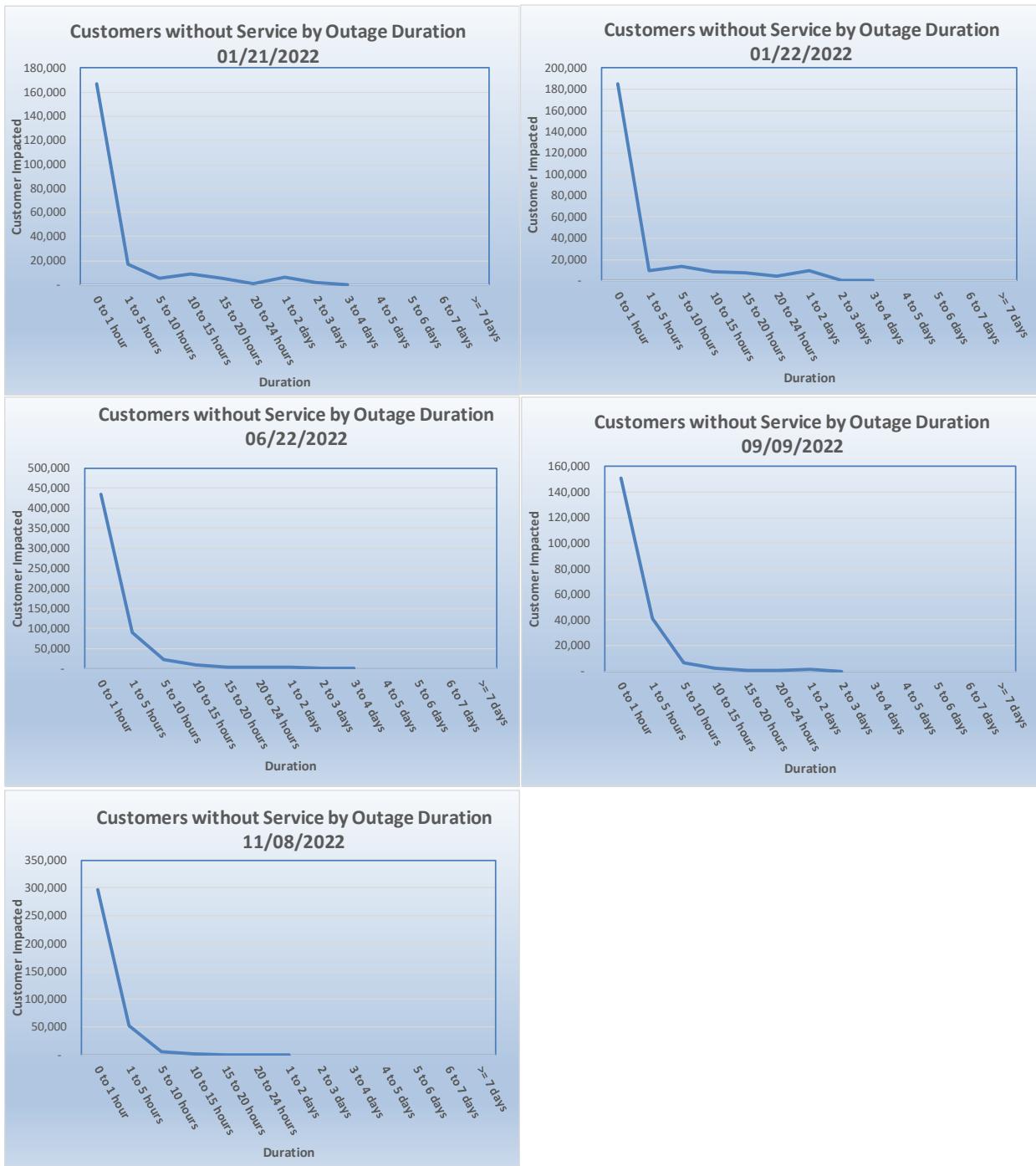
Table 13 below captures all MEDs occurring in 2022 per IEEE 1366 definition of MEDs. The information includes the number of customers without service at periodic intervals, the cause, and the location of each Major Event.

Table 13 – Summary list of MED Per IEEE (2022)

| Cause | Wind, Vegetation Blown, OH Equipment, Operation | Wind, Vegetation Blown, OH Equipment, Operation | Lightning | Source Loss, OH Equipment, Vegetation Blown | Unknown, OH Equipment, Vegetation Blown |
|-----------------|--|--|----------------|---|--|
| Location | ME | ME | ME, NC, SJC, R | D, MW, O | MW, ME, R, O, NC |
| Outage Duration | 1/21/2022 | 1/22/2022 | 6/22/2022 | 9/9/2022 | 11/8/2022 |
| 0 to 1 hour | 166,967 | 184,785 | 432,796 | 150,766 | 297,467 |
| 1 to 5 hours | 16,725 | 9,722 | 90,611 | 40,943 | 51,091 |
| 5 to 10 hours | 5,130 | 13,707 | 21,887 | 6,394 | 5,224 |
| 10 to 15 hours | 8,975 | 7,931 | 7,904 | 2,605 | 2,290 |
| 15 to 20 hours | 5,572 | 7,753 | 2,854 | 363 | 423 |
| 20 to 24 hours | 1,158 | 4,096 | 3,285 | 611 | 147 |
| 1 to 2 days | 6,562 | 9,322 | 3,081 | 1,161 | 224 |
| 2 to 3 days | 2,247 | 228 | 47 | 13 | |
| 3 to 4 days | 54 | 14 | 14 | | |
| 4 to 5 days | | | | | |
| 5 to 6 days | | | | | |
| 6 to 7 days | | | | | |
| >= 7 days | | | 1 | | |
| Total | 213,390 | 237,558 | 607,214 | 202,856 | 356,866 |

Note:

- D - DESERT
- ME - METRO EAST
- MW - METRO WEST
- NC - NORTH COAST
- NV - NORTH VALLEY
- O - ORANGE
- R - RURALS
- SJC - SAN JACINTO
- SJQ - SAN JOAQUIN



SECTION 8 - HISTORICAL 10 LARGEST UNPLANNED OUTAGE EVENTS FOR THE PAST 10 YEARS

Table 14 below captures the 10 largest unplanned outage events for each of the years from 2013-2022.

Table 14 – Historical Top 10 Outage Events (2022)

| Rank | Cause Description | System Outage ID | Date | SAIDI | Number of Customers Affected | Longest Individual Customer Interruption (minutes) | Location |
|-------------|--|------------------|------------|--------|------------------------------|--|------------------|
| | | | | | | | Switching Center |
| 2022 | | | | | | | |
| 1 | UNKNOWN OVERHEAD EQUIPMENT SPLICE/CONNECTOR/TAP | 392533 | 1/22/2022 | 1.031 | 5,138 | 2,529 | MIRA LOMA |
| 2 | DE-ENERGIZE FOR PUB. AGENCY PUB. SAFETY SWITCH/DISCONNECT/AR | 405076 | 8/15/2022 | 0.951 | 873 | 5,769 | RECTOR |
| 3 | VEGETATION BLOWN OVERHEAD EQUIPMENT CONDUCTOR/WIRE | 391947 | 1/21/2022 | 0.805 | 2,813 | 3,841 | MESA |
| 4 | OPEN FOR REPAIRS STANDARD OPERATION OPERATOR/CREW | 400741 | 6/16/2022 | 0.719 | 2,589 | 1,472 | LUGO |
| 5 | LIGHTNING OVERHEAD EQUIPMENT FUSE/BLF/CUTOUT | 400713 | 6/22/2022 | 0.634 | 2,512 | 1,322 | VINCENT |
| 6 | OTHER-SEE NOTES SUBSTATION EQUIPMENT CIRCUIT/BREAKER | 403187 | 7/19/2022 | 0.577 | 25,460 | 218 | EL NIDO |
| 7 | VEGETATION BLOWN OVERHEAD EQUIPMENT CONDUCTOR/WIRE | 392509 | 1/21/2022 | 0.562 | 2,837 | 4,048 | MIRA LOMA |
| 8 | OTHER-SEE NOTES STRUCTURE POLE | 403999 | 8/8/2022 | 0.558 | 2,354 | 1,890 | ELDORADO |
| 9 | WIND OVERHEAD EQUIPMENT CONDUCTOR/WIRE | 392236 | 1/21/2022 | 0.553 | 23,753 | 4,582 | MIRA LOMA |
| 10 | WIND OVERHEAD EQUIPMENT CONDUCTOR/WIRE | 392495 | 1/21/2022 | 0.549 | 1,564 | 3,810 | MIRA LOMA |
| 2021 | | | | | | | |
| 1 | DE-ENERGIZE FOR PUB. AGENCY PUB. SAFETY SWITCH/DISCONNECT/AR | 383108 | 8/20/2021 | 1.801 | 413 | 22,691 | RECTOR |
| 2 | PUB. SAFETY POWER SHUTDOWN PUB. SAFETY SWITCH/DISCONNECT/AR | 388053 | 11/24/2021 | 1.463 | 3,404 | 2,633 | VENTURA |
| 3 | UNKNOWN OVERHEAD EQUIPMENT CONDUCTOR/WIRE | 390687 | 12/29/2021 | 1.450 | 5,740 | 6,203 | VISTA |
| 4 | UNKNOWN SUBSTATION EQUIPMENT BUS/CONDUCTOR | 382392 | 8/9/2021 | 1.261 | 17,919 | 574 | ORANGE COUNTY |
| 5 | VEGETATION BLOWN OVERHEAD EQUIPMENT CONDUCTOR/WIRE | 390712 | 12/29/2021 | 1.257 | 23,554 | 10,001 | VISTA |
| 6 | VEGETATION BLOWN SUBSTATION EQUIPMENT DISCONNECT | 369669 | 1/19/2021 | 1.159 | 18,377 | 2,572 | VINCENT |
| 7 | PUB. SAFETY POWER SHUTDOWN PUB. SAFETY SWITCH/DISCONNECT/AR | 369889 | 1/19/2021 | 1.094 | 2,669 | 2,836 | VENTURA |
| 8 | NO CAUSE FOUND UNKNOWN PATROLLED | 369414 | 1/19/2021 | 1.090 | 5,501 | 1,934 | VINCENT |
| 9 | PUB. SAFETY POWER SHUTDOWN PUB. SAFETY SWITCH/DISCONNECT/AR | 369394 | 1/19/2021 | 1.063 | 3,068 | 1,811 | VENTURA |
| 10 | PUB. SAFETY POWER SHUTDOWN PUB. SAFETY SWITCH/DISCONNECT/AR | 388252 | 11/25/2021 | 1.023 | 7,662 | 2,504 | VISTA |
| 2020 | | | | | | | |
| 1 | DE-ENERGIZE FOR PUB. AGENCY PUB. SAFETY SWITCH/DISCONNECT/AR | 368680 | 9/5/2020 | 16.141 | 5,036 | 169,347 | RECTOR |
| 2 | FIRE OVERHEAD EQUIPMENT CONDUCTOR/WIRE | 366672 | 9/9/2020 | 3.295 | 786 | 28,063 | VISTA |
| 3 | FIRE OVERHEAD EQUIPMENT CONDUCTOR/WIRE | 368697 | 9/13/2020 | 1.914 | 98 | 125,503 | RECTOR |
| 4 | PUB. SAFETY POWER SHUTDOWN PUB. SAFETY SWITCH/DISCONNECT/AR | 367130 | 12/7/2020 | 1.878 | 4,125 | 3,043 | VALLEY |
| 5 | PUB. SAFETY POWER SHUTDOWN PUB. SAFETY SWITCH/DISCONNECT/AR | 366833 | 12/7/2020 | 1.795 | 5,239 | 1,983 | VINCENT |
| 6 | FIRE STRUCTURE POLE | 366519 | 9/5/2020 | 1.646 | 800 | 113,097 | RECTOR |
| 7 | DE-ENERGIZE FOR PUB. AGENCY PUB. SAFETY SWITCH/DISCONNECT/AR | 362801 | 9/14/2020 | 1.483 | 572 | 13,476 | RECTOR |
| 8 | DE-ENERGIZE FOR PUB. AGENCY PUB. SAFETY SWITCH/DISCONNECT/AR | 364540 | 9/10/2020 | 1.308 | 531 | 22,077 | VISTA |
| 9 | REMEDIAL ACTION SCHEME STANDARD OPERATION OPERATOR/CREW | 367731 | 12/13/2020 | 1.304 | 130,528 | 121 | MIRA LOMA |
| 10 | PUB. SAFETY POWER SHUTDOWN PUB. SAFETY SWITCH/DISCONNECT/AR | 366862 | 12/7/2020 | 1.273 | 2,841 | 2,323 | VINCENT |
| 2019 | | | | | | | |
| 1 | LOST SOURCE SUBSTATION | 336358 | 8/2/2019 | 4.620 | 37,714 | 6,348 | ORANGE COUNTY |
| 2 | LOST SOURCE SUBSTATION | 338863 | 9/16/2019 | 2.291 | 13,242 | 40,884 | CONTROL |
| 3 | WIND OVERHEAD EQUIPMENT CONDUCTOR/WIRE | 344450 | 12/26/2019 | 2.202 | 8,970 | 15,027 | VISTA |
| 4 | NO CAUSE FOUND UNKNOWN PATROLLED | 342810 | 11/28/2019 | 1.644 | 14,106 | 21,127 | VISTA |
| 5 | UNKNOWN TRANSMISSION EQUIPMENT CONDUCTOR | 339320 | 10/5/2019 | 1.608 | 16,311 | 13,149 | CONTROL |
| 6 | PUB. SAFETY POWER SHUTDOWN PUB. SAFETY SWITCH/DISCONNECT/AR | 340707 | 10/30/2019 | 1.421 | 2,462 | 9,039 | VISTA |
| 7 | LOST SOURCE SUBSTATION | 344416 | 12/26/2019 | 1.294 | 40,765 | 11,642 | VISTA |
| 8 | PUB. SAFETY POWER SHUTDOWN PUB. SAFETY SWITCH/DISCONNECT/AR | 340669 | 10/30/2019 | 1.201 | 2,932 | 2,113 | VINCENT |
| 9 | PUB. SAFETY POWER SHUTDOWN PUB. SAFETY SWITCH/DISCONNECT/AR | 340627 | 10/30/2019 | 1.101 | 3,105 | 12,038 | VINCENT |
| 10 | PUB. SAFETY POWER SHUTDOWN PUB. SAFETY SWITCH/DISCONNECT/AR | 340690 | 10/30/2019 | 1.049 | 2,288 | 2,361 | VISTA |
| 2018 | | | | | | | |
| 1 | LOST SOURCE SUBSTATION | 320389 | 11/13/2018 | 7.577 | 2,828 | 47,832 | VENTURA |
| 2 | FIRE STRUCTURE POLE | 320287 | 11/12/2018 | 4.159 | 914 | 44,776 | VENTURA |
| 3 | PUBLIC AGENCY DENIED ACCESS POLE | 320225 | 11/9/2018 | 3.703 | 2,141 | 8,867 | VENTURA |
| 4 | LOST SOURCE SUBSTATION | 320091 | 11/11/2018 | 2.743 | 833 | 31,785 | VENTURA |
| 5 | LOST SOURCE SUBSTATION | 320324 | 11/15/2018 | 2.463 | 2,492 | 46,234 | VENTURA |
| 6 | PUBLIC AGENCY DENIED ACCESS POLE | 320390 | 11/9/2018 | 2.421 | 2,085 | 5,954 | VENTURA |
| 7 | OPEN FOR REPAIRS STANDARD OPERATION OPERATOR/CREW | 313579 | 7/25/2018 | 2.199 | 7,732 | 4,189 | VALLEY |
| 8 | LOST SOURCE SUBSTATION | 319319 | 11/9/2018 | 2.063 | 1,743 | 27,656 | VENTURA |
| 9 | LOST SOURCE DISTRIBUTION LINE | 318316 | 10/15/2018 | 1.306 | 5,475 | 2,021 | VALLEY |
| 10 | LOST SOURCE SUBSTATION | 319972 | 11/9/2018 | 0.933 | 2,313 | 30,448 | VENTURA |
| 2017 | | | | | | | |
| 1 | LOST SOURCE SUBSTATION | 303349 | 12/4/2017 | 4.998 | 181,830 | 1,377 | VENTURA |
| 2 | FIRE OVERHEAD EQUIPMENT CONDUCTOR/WIRE | 298030 | 8/29/2017 | 3.023 | 1,008 | 32,392 | RECTOR |
| 3 | FIRE STRUCTURE POLE | 303217 | 12/4/2017 | 2.259 | 6,841 | 16,826 | VENTURA |
| 4 | TOPPLED/BROKEN STRUCTURE POLE | 286230 | 1/22/2017 | 2.045 | 5,236 | 10,393 | RECTOR |
| 5 | FIRE STRUCTURE POLE | 303315 | 12/5/2017 | 1.849 | 4,640 | 19,065 | VENTURA |
| 6 | FIRE TRANSMISSION EQUIPMENT CONDUCTOR | 303350 | 12/4/2017 | 1.450 | 85,545 | 262 | VENTURA |
| 7 | LOST SOURCE SUBSTATION | 301515 | 12/7/2017 | 0.923 | 2,824 | 1,940 | VALLEY |
| 8 | FIRE TRANSMISSION EQUIPMENT CONDUCTOR | 302696 | 12/10/2017 | 0.898 | 84,977 | 66 | VENTURA |
| 9 | BALLOON OVERHEAD EQUIPMENT POTHEAD | 290334 | 4/30/2017 | 0.740 | 12,818 | 797 | VISTA |
| 10 | LOST SOURCE SUBSTATION | 302693 | 12/4/2017 | 0.622 | 175,978 | 18 | VENTURA |

| Rank | Cause Description | System Outage ID | Date | SAIDI | Number of Customers Affected | Longest Individual Customer Interruption (minutes) | Location |
|-------------|--|------------------|------------|-------|------------------------------|--|------------------|
| | | | | | | | Switching Center |
| 2016 | | | | | | | |
| 1 | OPEN FOR REPAIRS STANDARD OPERATION OPERATOR/CREW | 272685 | 4/29/2016 | 1.507 | 40,012 | 451 | VALLEY |
| 2 | OPEN FOR REPAIRS STANDARD OPERATION OPERATOR/CREW | 278786 | 8/19/2016 | 1.298 | 1,238 | 18,457 | RECTOR |
| 3 | FIRE STRUCTURE POLE | 276042 | 6/23/2016 | 1.171 | 7,608 | 3,666 | RECTOR |
| 4 | VEGETATION BLOWN OVERHEAD EQUIPMENT CONDUCTOR/WIRE | 267639 | 1/7/2016 | 0.979 | 12,812 | 2,424 | VISTA |
| 5 | OVERLOAD/FATIGUE OVERHEAD EQUIPMENT CONDUCTOR/WIRE | 275066 | 6/20/2016 | 0.928 | 16,162 | 1,572 | LIGHPIPE |
| 6 | FIRE OVERHEAD EQUIPMENT CONDUCTOR/WIRE | 276005 | 6/23/2016 | 0.880 | 1,678 | 9,359 | RECTOR |
| 7 | FIRE OVERHEAD EQUIPMENT CONDUCTOR/WIRE | 276561 | 6/23/2016 | 0.840 | 664 | 11,716 | RECTOR |
| 8 | FIRE OVERHEAD EQUIPMENT CONDUCTOR/WIRE | 275884 | 6/23/2016 | 0.830 | 440 | 9,546 | RECTOR |
| 9 | SUBSTATION MAINTENANCE ERROR DURING ROUTINE WORK | 280501 | 10/11/2016 | 0.694 | 103,448 | 304 | EL NIDO |
| 10 | BALLOON OVERHEAD EQUIPMENT CONDUCTOR/WIRE | 269108 | 2/15/2016 | 0.640 | 8,220 | 696 | EL NIDO |
| 2015 | | | | | | | |
| 1 | OPEN FOR REPAIRS STANDARD OPERATION OPERATOR/CREW | 257095 | 7/15/2015 | 2.316 | 3,849 | 3,035 | LIGHPIPE |
| 2 | OPEN FOR REPAIRS STANDARD OPERATION OPERATOR/CREW | 257307 | 7/15/2015 | 0.783 | 1,329 | 3,372 | LIGHPIPE |
| 3 | UNKNOWN OVERHEAD EQUIPMENT CONDUCTOR/WIRE | 258625 | 8/13/2015 | 0.611 | 5,884 | 1,136 | DEVERS |
| 4 | TOPPLED/BROKEN STRUCTURE POLE | 261130 | 9/9/2015 | 0.467 | 4,301 | 7,215 | MIRA LOMA |
| 5 | UNKNOWN UNDERGROUND EQUIPMENT CABLE | 257337 | 7/15/2015 | 0.452 | 1,801 | 3,539 | LIGHPIPE |
| 6 | OTHER-SEE NOTES STRUCTURE POLE | 257205 | 7/19/2015 | 0.446 | 3,906 | 1,247 | VALLEY |
| 7 | N/A UNKNOWN NOT PATROLLED | 262924 | 10/15/2015 | 0.436 | 10,130 | 581 | VISTA |
| 8 | UNKNOWN UNDERGROUND EQUIPMENT CABLE | 261743 | 9/19/2015 | 0.411 | 4,024 | 906 | ORANGE COUNTY |
| 9 | UNKNOWN SUBSTATION EQUIPMENT CIRCUIT BREAKER | 261051 | 9/15/2015 | 0.387 | 17,282 | 135 | LIGHPIPE |
| 10 | LANDSLIDE/MUDSLIDE STRUCTURE POLE | 267353 | 10/18/2015 | 0.382 | 18 | 106,745 | ELDORADO |
| 2014 | | | | | | | |
| 1 | BUSHING SUBSTATION EQUIPMENT CIRCUIT BREAKER | 247325 | 12/22/2014 | 2.155 | 20,314 | 741 | VISTA |
| 2 | LOST SOURCE SUBSTATION | 239280 | 7/24/2014 | 0.808 | 29,678 | 345 | ORANGE COUNTY |
| 3 | TOPPLED/BROKEN STRUCTURE POLE | 236393 | 5/14/2014 | 0.739 | 5,694 | 1,033 | VALLEY |
| 4 | UNKNOWN UNDERGROUND EQUIPMENT CABLE | 247704 | 12/31/2014 | 0.464 | 1,308 | 4,188 | VALLEY |
| 5 | UNKNOWN OVERHEAD EQUIPMENT POTHEAD | 245855 | 11/23/2014 | 0.401 | 1,395 | 1,440 | DEVERS |
| 6 | OTHER-SEE NOTES STRUCTURE SUBSTATION STRUCTURE/RACK | 239913 | 7/30/2014 | 0.399 | 6,895 | 503 | MESA |
| 7 | OVERLOADED SUBSTATION EQUIPMENT TRANSFORMER BANK | 243293 | 10/2/2014 | 0.384 | 51,167 | 293 | VENTURA |
| 8 | TOPPLED/BROKEN STRUCTURE POLE | 245458 | 11/16/2014 | 0.365 | 785 | 2,329 | DEVERS |
| 9 | LOST SOURCE SUBSTATION | 232941 | 2/28/2014 | 0.351 | 25,087 | 87 | VENTURA |
| 10 | TESTING/TROUBLESHOOTING STANDARD OPERATION OPERATOR/CREW | 246973 | 12/15/2014 | 0.348 | 2,423 | 2,398 | ORANGE COUNTY |
| 2013 | | | | | | | |
| 1 | LOST SOURCE SUBSTATION | 224692 | 8/19/2013 | 6.316 | 125,876 | 1,729 | RECTOR |
| 2 | UNKNOWN TRANSMISSION EQUIPMENT CONDUCTOR | 226855 | 9/15/2013 | 1.500 | 107,741 | 383 | EL NIDO |
| 3 | SUDDEN PRESSURE DEVICE SUBSTATION EQUIPMENT TRANSFORMER BANK | 221685 | 6/28/2013 | 1.111 | 64,709 | 164 | LIGHPIPE |
| 4 | UNKNOWN OVERHEAD EQUIPMENT TRANSFORMER | 217672 | 4/9/2013 | 0.801 | 5,613 | 1,453 | LIGHPIPE |
| 5 | LIGHTNING SUBSTATION EQUIPMENT CIRCUIT BREAKER | 215922 | 2/8/2013 | 0.728 | 30,145 | 883 | LIGHPIPE |
| 6 | UNKNOWN UNDERGROUND EQUIPMENT CABLE | 223292 | 7/26/2013 | 0.618 | 5,904 | 1,443 | ORANGE COUNTY |
| 7 | UNKNOWN UNDERGROUND EQUIPMENT CABLE | 229947 | 12/15/2013 | 0.543 | 1,572 | 1,867 | EL NIDO |
| 8 | VANDALISM SUBSTATION EQUIPMENT BUS/CONDUCTOR | 218242 | 4/24/2013 | 0.519 | 22,217 | 304 | VALLEY |
| 9 | PULLED APART OVERHEAD EQUIPMENT SPLICE/CONNECTOR/TAP | 214695 | 1/1/2013 | 0.440 | 4,979 | 1,395 | MESA |
| 10 | UNKNOWN OVERHEAD EQUIPMENT CONDUCTOR/WIRE | 218132 | 4/26/2013 | 0.437 | 2,911 | 1,483 | LIGHPIPE |

SECTION 9 – THE NUMBER OF CUSTOMER INQUIRIES ON RELIABILITY DATA AND THE NUMBER OF DAYS PER RESPONSE.

In 2022, SCE received a total of 93 customer inquiries relating to circuit outage history or reliability data. SCE responded to 32% of the inquiries within 7 business days, 58% of the inquiries between 8 and 15 business days, and 10% of the inquiries in a time frame greater than 15 business days.

APPENDIX

Circuit SAIFI

The number of times the average customer on the circuit experienced an outage lasting more than 5 minutes.

Circuit SAIDI

The amount of time the average customer on the circuit was without power due to outages lasting longer than 5 minutes.

Circuit MAIFI

The Momentary Average Interruption Frequency Index is the number of times an average customer was without power in a year due to service interruptions lasting 5 minutes or less (measured in interruptions per customer)

Circuit CAIDI

The average time required to restore service for a sustained outage.