

Circuit Reliability Review Santa Barbara District 3

January 2017

Providing Safe, Reliable, and Affordable Power

Southern California Edison is modernizing the power grid to meet the changing needs and expectations of our customers and to help California achieve its clean energy goals.

We are investing more than \$12 billion into our power grid between 2015 – 2017 with the goal of increasing power reliability through significant upgrades. These investments include:

- Updating thousands of transmission and distribution poles
- Replacing hundreds of miles of underground cables
- Replacing hundreds of underground structures such as vaults and manholes
- Upgrading critical distribution equipment; capacitor banks, switches, and circuit breakers
- Building new distribution circuits to serve electrical demands in our communities
- Inspecting and replacing overhead conductor and equipment to improve public safety

Our investments in local communities will help ensure that customers receive safe, reliable, and affordable electricity now and in the future.

Understanding Your Reliability Report

As your electric utility, we want you to always have power when you need it. To get there, we constantly track and monitor electric outages across our service territory, and we measure our "system reliability" from this data.

The two metrics we rely on are common in the electric utility industry: the System Average Interruption Duration Index (SAIDI) and the System Average Interruption Frequency Index (SAIFI). Both are described in more detail on the next page.

Replacing and upgrading our infrastructure will help SCE maintain or improve SAIDI and SAIFI measurements.

This report provides historical reliability data for the circuits that serve your jurisdiction and our proposed infrastructure upgrades for the current year.

To view other reliability reports, visit sce.com>Outage Center>Maintaining Reliable Service

Reliability Metrics

MOMENTARY OUTAGES:

OUTAGES LASTING 5 MINUTES OR LESS

MAIFI:

 The number of times the average customer is interrupted by Momentary outages each year.

SUSTAINED OUTAGES:

OUTAGES LASTING LONGER THAN 5 MINUTES

SAIFI:

 The number of times the average customer is interrupted by Sustained outages each year.

SAIDI:

 The cumulative amount of time the average customer is interrupted by Sustained outages each year.

Cities in the Santa Barbara County – District 3

Goleta

Isla Vista

County of Santa Barbara

Reliability by SCE District (No Exclusions)

| | | 20 | 12 | | | 20: | 13 | | | 20 | 14 | | | 20 | 15 | | 2016 | | | | | |
|------------------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|--|--|
| | District | SAIDI | District | SAIFI | | |
| District Name | SAIDI | RANKING | SAIFI | Ranking | | |
| ANTELOPE VALLEY | 78.60 | 28 | 0.56 | 31 | 94.42 | 22 | 0.62 | 31 | 51.05 | 35 | 0.59 | 34 | 104.34 | 22 | 0.68 | 30 | 107.67 | 24 | 0.87 | 29 | | |
| ARROWHEAD | 129.58 | 13 | 1.31 | 7 | 180.59 | 7 | 1.39 | 8 | 193.25 | 5 | 1.59 | 5 | 362.61 | 4 | 3.97 | 1 | 659.46 | 3 | 2.85 | 5 | | |
| BARSTOW | 184.80 | 7 | 1.15 | 12 | 204.33 | 6 | 1.40 | 7 | 201.53 | 4 | 1.34 | 10 | 187.11 | 8 | 1.17 | 12 | 134.83 | 18 | 1.35 | 9 | | |
| BIG CREEK | 1184.25 | 1 | 4.52 | 1 | 176.51 | 8 | 3.08 | 1 | 920.25 | 1 | 1.34 | 11 | 422.77 | 2 | 3.42 | 2 | 1062.01 | 2 | 4.99 | 1 | | |
| BISHOP | 463.09 | 2 | 1.25 | 9 | 104.44 | 17 | 0.51 | 35 | 118.79 | 17 | 0.59 | 35 | 298.11 | 6 | 2.22 | 4 | 168.59 | 8 | 1.22 | 14 | | |
| BLYTHE | 225.88 | 6 | 1.53 | 3 | 483.13 | 1 | 1.38 | 9 | 707.54 | 2 | 2.42 | 2 | 427.00 | 1 | 1.52 | 7 | 396.38 | 5 | 2.71 | 6 | | |
| CATALINA | 78.46 | 30 | 0.72 | 29 | 105.94 | 16 | 2.97 | 2 | 97.02 | 24 | 4.17 | 1 | 42.56 | 35 | 2.25 | 3 | 65.01 | 35 | 3.66 | 3 | | |
| COVINA | 108.73 | 19 | 0.92 | 19 | 100.51 | 19 | 0.86 | 20 | 91.60 | 27 | 0.87 | 22 | 100.08 | 23 | 0.81 | 25 | 112.13 | 22 | 0.97 | 24 | | |
| DOMINGUEZ HILLS | 117.22 | 18 | 0.82 | 24 | 89.17 | 26 | 0.80 | 21 | 82.30 | 29 | 0.71 | 28 | 130.63 | 15 | 0.97 | 17 | 146.38 | 12 | 1.11 | 17 | | |
| FOOTHILL | 91.69 | 25 | 0.90 | 20 | 85.80 | 27 | 0.79 | 24 | 93.35 | 25 | 0.93 | 21 | 109.64 | 20 | 0.95 | 20 | 142.81 | 14 | 1.03 | 21 | | |
| FULLERTON | 68.99 | 33 | 0.42 | 35 | 90.57 | 25 | 0.79 | 22 | 82.23 | 30 | 0.72 | 27 | 76.59 | 29 | 0.67 | 31 | 92.72 | 30 | 0.76 | 34 | | |
| HUNTINGTON BEACH | 95.78 | 23 | 0.89 | 21 | 66.51 | 32 | 0.68 | 29 | 79.61 | 31 | 0.78 | 25 | 98.32 | 25 | 0.95 | 19 | 128.02 | 20 | 1.26 | 12 | | |
| KERNVILLE | 226.76 | 5 | 1.31 | 6 | 232.18 | 4 | 1.96 | 3 | 178.69 | 8 | 1.99 | 3 | 286.38 | 7 | 0.96 | 18 | 2421.32 | 1 | 3.67 | 2 | | |
| LONG BEACH | 75.83 | 31 | 0.55 | 33 | 75.11 | 30 | 0.70 | 28 | 66.33 | 34 | 0.61 | 32 | 164.46 | 9 | 0.89 | 23 | 135.16 | 17 | 0.86 | 31 | | |
| MENIFEE | 99.32 | 22 | 0.84 | 23 | 107.39 | 15 | 1.26 | 10 | 156.68 | 11 | 1.32 | 12 | 111.46 | 19 | 0.98 | 16 | 156.75 | 9 | 1.31 | 10 | | |
| MONROVIA | 108.11 | 20 | 1.13 | 15 | 99.12 | 20 | 1.02 | 16 | 133.32 | 14 | 1.16 | 16 | 96.68 | 26 | 0.88 | 24 | 116.57 | 21 | 0.84 | 32 | | |
| MONTEBELLO | 131.06 | 12 | 1.13 | 14 | 118.08 | 13 | 1.17 | 12 | 158.34 | 10 | 1.16 | 15 | 150.28 | 12 | 1.18 | 11 | 133.52 | 19 | 1.17 | 15 | | |
| ONTARIO | 93.09 | 24 | 0.87 | 22 | 77.39 | 29 | 0.79 | 23 | 97.91 | 23 | 1.00 | 19 | 94.04 | 27 | 0.74 | 27 | 105.07 | 27 | 0.93 | 27 | | |
| PALM SPRINGS | 175.92 | 8 | 1.27 | 8 | 112.80 | 14 | 0.77 | 25 | 107.04 | 20 | 0.71 | 29 | 99.54 | 24 | 0.80 | 26 | 107.58 | 25 | 1.07 | 19 | | |
| REDLANDS | 120.13 | 16 | 1.11 | 16 | 96.48 | 21 | 1.04 | 15 | 154.25 | 12 | 1.04 | 18 | 124.52 | 17 | 1.01 | 14 | 137.11 | 16 | 0.98 | 23 | | |
| RIDGECREST | 229.65 | 4 | 1.44 | 4 | 161.95 | 9 | 1.12 | 13 | 176.84 | 9 | 1.57 | 6 | 148.90 | 13 | 1.01 | 15 | 254.31 | 6 | 1.05 | 20 | | |
| SADDLEBACK | 83.01 | 27 | 0.73 | 27 | 70.69 | 31 | 0.53 | 34 | 99.07 | 22 | 0.74 | 26 | 46.03 | 34 | 0.39 | 35 | 65.99 | 34 | 0.65 | 35 | | |
| SAN JOAQUIN | 135.90 | 10 | 1.04 | 18 | 244.44 | 2 | 1.45 | 6 | 138.25 | 13 | 1.17 | 14 | 127.50 | 16 | 1.05 | 13 | 108.44 | 23 | 1.09 | 18 | | |
| SANTA ANA | 78.60 | 29 | 0.55 | 32 | 93.35 | 24 | 0.74 | 26 | 91.68 | 26 | 0.84 | 23 | 67.46 | 32 | 0.71 | 29 | 97.27 | 29 | 1.00 | 22 | | |
| SANTA BARBARA | 153.81 | 9 | 1.15 | 13 | 82.00 | 28 | 0.70 | 27 | 183.78 | 7 | 1.38 | 9 | 152.37 | 11 | 1.52 | 6 | 156.66 | 10 | 1.41 | 8 | | |
| SANTA MONICA | 101.69 | 21 | 0.79 | 25 | 122.78 | 12 | 1.00 | 17 | 110.76 | 19 | 0.99 | 20 | 75.41 | 30 | 0.62 | 32 | 91.08 | 31 | 0.95 | 26 | | |
| SOUTH BAY | 122.68 | 15 | 1.17 | 10 | 142.15 | 10 | 1.49 | 5 | 125.28 | 16 | 1.39 | 8 | 164.07 | 10 | 1.31 | 8 | 183.90 | 7 | 1.88 | 7 | | |
| TEHACHAPI | 117.96 | 17 | 1.43 | 5 | 232.67 | 3 | 1.12 | 14 | 130.70 | 15 | 1.29 | 13 | 298.96 | 5 | 1.21 | 9 | 97.29 | 28 | 1.13 | 16 | | |
| THOUSAND OAKS | 127.73 | 14 | 1.05 | 17 | 93.86 | 23 | 0.91 | 18 | 104.37 | 21 | 1.10 | 17 | 106.59 | 21 | 0.92 | 21 | 143.78 | 13 | 1.31 | 11 | | |
| VALENCIA | 62.01 | 35 | 0.46 | 34 | 51.04 | 34 | 0.53 | 33 | 79.23 | 32 | 0.61 | 33 | 72.27 | 31 | 0.61 | 33 | 105.09 | 26 | 0.97 | 25 | | |
| VENTURA | 134.81 | 11 | 1.15 | 11 | 100.52 | 18 | 1.21 | 11 | 183.79 | 6 | 1.65 | 4 | 148.85 | 14 | 1.19 | 10 | 150.41 | 11 | 1.24 | 13 | | |
| VICTORVILLE | 67.70 | 34 | 0.66 | 30 | 61.33 | 33 | 0.63 | 30 | 68.85 | 33 | 0.63 | 31 | 87.03 | 28 | 0.91 | 22 | 79.35 | 33 | 0.92 | 28 | | |
| WHITTIER | 72.60 | 32 | 0.74 | 26 | 135.04 | 11 | 0.86 | 19 | 87.60 | 28 | 0.70 | 30 | 114.52 | 18 | 0.73 | 28 | 137.34 | 15 | 0.81 | 33 | | |
| WILDOMAR | 88.54 | 26 | 0.72 | 28 | 40.51 | 35 | 0.56 | 32 | 118.49 | 18 | 0.81 | 24 | 52.70 | 33 | 0.60 | 34 | 84.01 | 32 | 0.87 | 30 | | |
| YUCCA VALLEY | 319.82 | 3 | 3.41 | 2 | 216.97 | 5 | 1.50 | 4 | 304.25 | 3 | 1.49 | 7 | 389.08 | 3 | 1.80 | 5 | 463.68 | 4 | 3.39 | 4 | | |
| SCE SystemWide | 108.13 | | 0.89 | | 102.61 | | 0.91 | | 112.00 | | 0.96 | _ | 114.83 | | 0.92 | | 134.48 | | 1.10 | | | |

^{*&}quot;Exclusions" are days which utilities are allowed to remove from their metrics because the outages on those days were caused by a severe acts of nature.

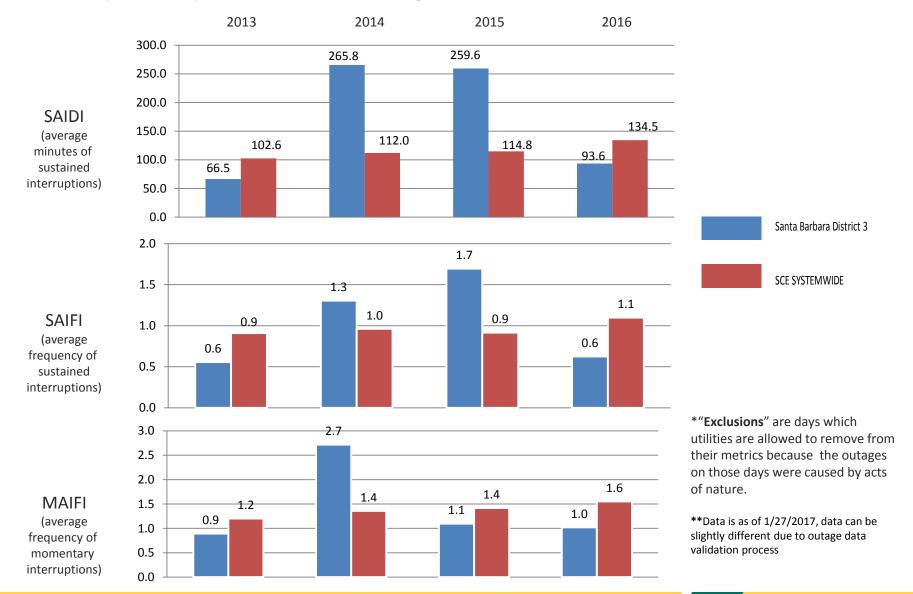
^{**}In the columns showing "Rank," lower numbers indicate poorer performance.

Overview of Santa Barbara District 3 There are 11 circuits that serve Santa Barbara District 3

| Circuit Type | Sum of Customers | Circuit Type | Sum of Customers | Circuit Type | Sum of Customers | Circuit Type | Sum of Customers |
|------------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|
| ACE(16KV) | 1,340 | | | | | | |
| BIDDER(16KV) | 147 | | | | | | |
| CACHUMA(16KV) | 4,001 | | | | | | |
| COJO(16KV) | 13 | | | | | | |
| CONCEPCION(16KV) | 243 | | | | | | |
| ENCANTO(16KV) | 3,810 | | | | | | |
| FRATERNITY(16KV) | 3,559 | | | | | | |
| GLADIOLA(16KV) | 1,829 | | | | | | |
| MIST(16KV) | 391 | | | | | | |
| SHOAL(16KV) | 1 | | | | | | |
| TRUMP(16KV) | 144 | | | | | | |

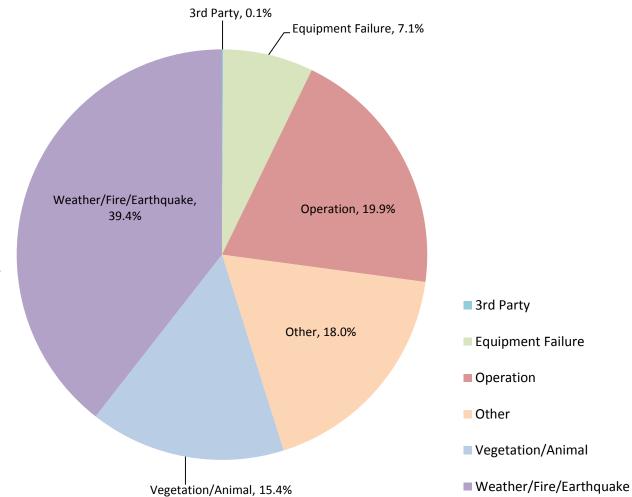
Grand Total 15,478

Reliability History of Circuits Serving Santa Barbara District 3 (No Exclusions)



Causes of Repair Outages in Santa Barbara District 3 Circuits 2016 YTD

Contributions to SAIDI by Outage Cause



Equipment Failure

e.g., in-service failure of transformer, switch, or conductors

■Vegetation/Animal

e.g., tree branch, rodent, or bird causing a short circuit between conductors

Other

e.g., patrolled but no cause found

Operations

e.g., urgent maintenance w/o 3-day notice

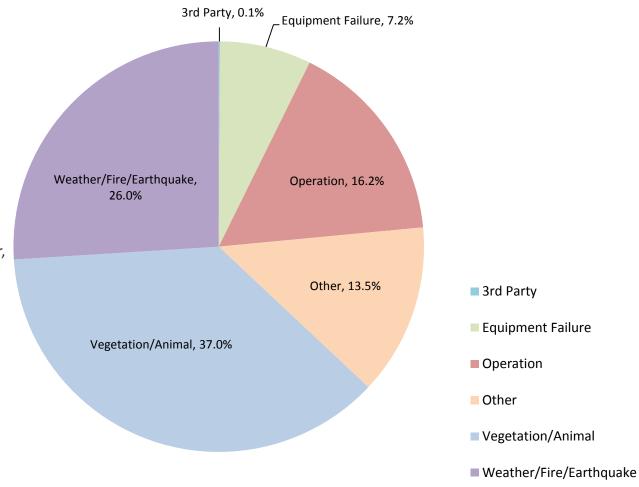
■ 3rd Party

e.g., balloon, car hit pole, dig-in

SAIDI = the cumulative amount of time the average customer is interrupted by "sustained" outages each year.

Causes of Repair Outages in Santa Barbara District 3 Circuits 2016 YTD

Contributions to SAIFI by Outage Cause



Equipment Failure
 e.g., in-service failure of transformer,
 switch, or conductors

■Vegetation/Animal

e.g., tree branch, rodent, or bird causing a short circuit between conductors

Other

e.g., patrolled but no cause found

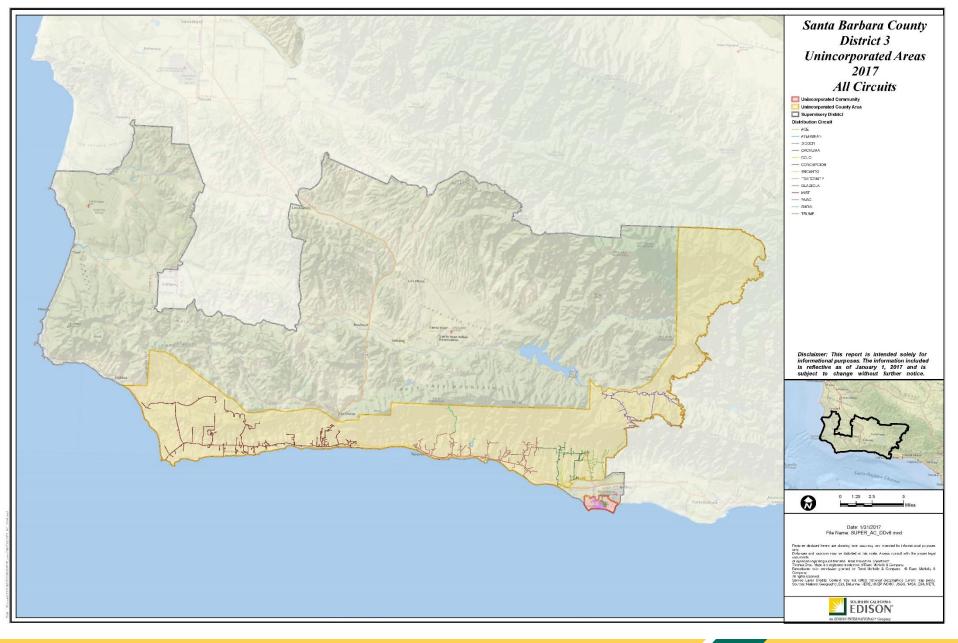
Operations

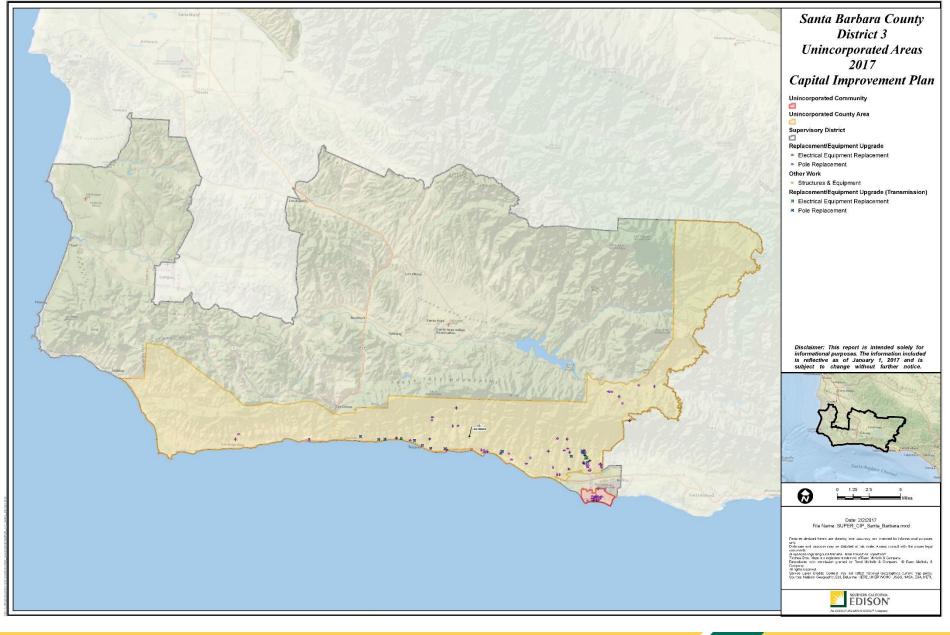
e.g., urgent maintenance w/o 3-day notice

■ 3rd Party

e.g., balloon, car hit pole, dig-in

SAIFI = the number of times the average customer is interrupted by "sustained" outages each year.





Back-up Slides

Reliability Histories of Circuits Serving Santa Barbara District 3

Updated through Year-End 2016

Average Reliability of 11 Circuits Serving Santa Barbara District 3

| | | 2013 | • | | 2014 | | | 2015 | | 1st | Qtr 20. | 16 | 2nd | l Qtr 20 | 016 | 3ra | Qtr 20 | 16 | 4th | Qtr 20 | 16 | | 2016 | |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|----------|-------|-------|--------|-------|-------|--------|-------|-------|---------|-------|
| | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI I | MAIFI |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Santa Barbara District 3 | 66.5 | 0.6 | 0.9 | 265.8 | 1.3 | 2.7 | 259.6 | 1.7 | 1.1 | 36.2 | 0.4 | 0.6 | 31.0 | 0.2 | 0.1 | 15.8 | 0.1 | 0.1 | 10.5 | 0.0 | 0.1 | 93.6 | 0.6 | 1.0 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 8% | 19% | 43% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 1% | 1% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 41% | 41% | 7% | 19% | 13% | 37% | 39% | 11% | 15% | 5% | 7% | 0% | 3% | 10% | 14% | 23% | 5% | 0% | 2% | 1% | 0% | 7% | 7% | 2% |
| Operation | 28% | 25% | 0% | 18% | 10% | 0% | 21% | 26% | 4% | 1% | 1% | 0% | 35% | 44% | 1% | 1% | 2% | 0% | 67% | 81% | 72% | 20% | 16% | 10% |
| Other | 5% | 3% | 53% | 47% | 50% | 52% | 0% | 0% | 22% | 11% | 2% | 89% | 33% | 45% | 85% | 5% | 3% | 0% | 15% | 9% | 21% | 18% | 14% | 72% |
| Vegetation/Animal | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 51% | 32% | 57% | 8% | 0% | 0% | 0% | 18% | 35% | 0% | 0% | 0% | 0% | 15% | 37% | 5% |
| Weather/Fire/Earthquake | 25% | 31% | 40% | 16% | 26% | 3% | 21% | 20% | 8% | 50% | 33% | 2% | 28% | 1% | 0% | 52% | 55% | 100% | 15% | 9% | 7% | 39% | 26% | 12% |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| SCE Systemwide | 102.6 | 0.9 | 1.2 | 112.0 | 1.0 | 1.4 | 114.8 | 0.9 | 1.4 | 40.5 | 0.3 | 0.4 | 34.8 | 0.3 | 0.4 | 29.4 | 0.2 | 0.3 | 29.8 | 0.3 | 0.4 | 134.5 | 1.1 | 1.6 |

Notes:

No outages are excluded from the metrics.

Outage Causes:

Other: e.g., patrolled but no cause could be found

Operations: e.g., urgent maintenance w/o 3-day notice to customers

3rd Party: e.g., balloons, car hit pole, dig-in

Vegetation/Animal: e.g., tree branch, rodent, or bird causing short circuit across conductors

SAIDI (minutes) = the cumulative amount of time the average customer is interrupted by "sustained" (longer than 5 minutes) outages.

SAIFI (interruptions) = the number of times the average customer is interrupted by "sustained" outages.

MAIFI (interruptions) = the number of times the average customer is interrupted by "momentary" (lasting 5 minutes or less) outages.

Reliability Histories for Individual Circuits Serving Santa Barbara District 3

| | | 2013 | | | 2014 | | | 2015 | | 1 s | Qtr 20. | 16 | 2na | Qtr 20 | 16 | 3rd | Qtr 20 | 16 | 4th | Qtr 20 | 16 | | 2016 | |
|----------------------------------|-------|-------|-------|--------|-------|-------|-------|-------|-------|------------|---------|-------|-------|--------|-------|-------|--------|-------|-------|--------|-------|-------|-------|------|
| | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIF |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| ACE(16KV) - Customers: 1,340 | 21.1 | 0.1 | 0.0 | 62.3 | 1.0 | 0.0 | 81.2 | 0.1 | 0.5 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.7 | 0.0 | 0.0 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 46% | 54% | 0% | 0% | 0% | 0% | 51% | 66% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Operation | 54% | 46% | 0% | 0% | 0% | 0% | 49% | 34% | 100% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% |
| Other | 0% | 0% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Vegetation/Animal | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Weather/Fire/Earthquake | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| BIDDER(16KV) - Customers: 147 | 54.8 | 0.1 | 0.9 | 103.1 | 0.6 | 0.4 | 566.1 | 1.9 | 1.2 | 148.0 | 0.3 | 0.0 | 51.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 199.0 | 0.5 | 0.0 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 66% | 43% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 49% | 26% | 0% |
| Operation | 0% | 0% | 0% | 0% | 0% | 0% | 1% | 1% | 0% | 0% | 0% | 0% | 12% | 18% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 3% | 7% | 0% |
| Other | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 1% | 0% | 0% | 0% | 0% | 81% | 68% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 21% | 26% | 0% |
| Vegetation/Animal | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Weather/Fire/Earthquake | 100% | 100% | 100% | 100% | 100% | 100% | 99% | 97% | 100% | 34% | 57% | 0% | 7% | 14% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 27% | 40% | 0% |
| CACHUMA(16KV) - Customers: 4,001 | 27.2 | 0.1 | 0.1 | 475.3 | 3.2 | 5.6 | 138.1 | 1.0 | 0.2 | 44.7 | 0.8 | 1.6 | 21.7 | 0.3 | 0.5 | 32.5 | 0.1 | 0.4 | 25.7 | 0.1 | 0.0 | 124.6 | 1.3 | 2.4 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 21% | 7% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 56% | 56% | 0% | 2% | 2% | 0% | 12% | 3% | 0% | 0% | 0% | 0% | 11% | 7% | 0% | 0% | 0% | 0% | 3% | 2% | 0% | 3% | 1% | 0% |
| Operation | 5% | 18% | 0% | 30% | 8% | 0% | 14% | 6% | 0% | 0% | 0% | 0% | 2% | 1% | 0% | 1% | 2% | 0% | 70% | 83% | 0% | 15% | 6% | 0% |
| Other | 0% | 0% | 0% | 57% | 63% | 96% | 0% | 0% | 0% | 0% | 0% | 87% | 87% | 92% | 100% | 0% | 0% | 0% | 2% | 2% | 0% | 16% | 18% | 75% |
| Vegetation/Animal | 1% | 6% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 13% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 36% | 62% | 8% |
| Weather/Fire/Earthquake | 38% | 20% | 100% | 11% | 26% | 4% | 53% | 84% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 99% | 98% | 100% | 24% | 13% | 100% | 31% | 12% | 16% |
| COJO(16KV) - Customers: 13 | 0.0 | 0.0 | 1.0 | 1245.9 | 2.0 | 0.0 | 16.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 170.2 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 170.2 | 1.0 | 1.0 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 0% | 0% | 0% | 87% | 50% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Operation | 0% | 0% | 0% | 13% | 50% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% |
| Other | 0% | 0% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 0% | 0% | 100% |
| Vegetation/Animal | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Weather/Fire/Earthquake | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

Reliability Histories for Individual Circuits Serving Santa Barbara District 3

| | | 2013 | | | 2014 | | | 2015 | | 1st | Qtr 20 | 16 | 2nc | l Qtr 20 | 016 | 3rd | l Qtr 20 | 16 | 4th | Qtr 20 | 016 | | 2016 | |
|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|----------|-------|-------|----------|-------|-------|--------|-------|-------|-------|------|
| | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIF |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| CONCEPCION(16KV) - Customers: 243 | 253.8 | 0.6 | 2.4 | 15.5 | 0.0 | 1.0 | 559.2 | 1.9 | 0.5 | 40.7 | 0.0 | 0.0 | 20.3 | 0.8 | 1.3 | 177.4 | 0.1 | 0.0 | 0.0 | 0.0 | 1.0 | 238.4 | 0.9 | 2.3 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 46% | 15% | 41% | 21% | 14% | 0% | 89% | 97% | 98% | 100% | 100% | 0% | 93% | 98% | 100% | 100% | 100% | 0% | 0% | 0% | 0% | 99% | 99% | 55% |
| Operation | 0% | 0% | 0% | 0% | 0% | 0% | 4% | 3% | 2% | 0% | 0% | 0% | 7% | 2% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 1% | 1% | 0% |
| Other | 54% | 85% | 59% | 79% | 86% | 100% | 8% | 1% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 0% | 0% | 45% |
| Vegetation/Animal | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Weather/Fire/Earthquake | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| ENCANTO(16KV) - Customers: 3,810 | 64.7 | 0.7 | 1.3 | 183.9 | 0.3 | 1.7 | 508.7 | 2.2 | 1.6 | 3.9 | 0.0 | 0.0 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.6 | 0.0 | 0.0 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 25% | 70% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 14% | 4% | 0% | 99% | 94% | 100% | 72% | 26% | 43% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Operation | 0% | 0% | 0% | 1% | 6% | 0% | 3% | 3% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Other | 2% | 2% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% |
| Vegetation/Animal | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 57% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Weather/Fire/Earthquake | 84% | 93% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| FRATERNITY(16KV) - Customers: 3,559 | 115.8 | 1.4 | 2.2 | 127.1 | 0.8 | 3.0 | 222.0 | 2.7 | 2.0 | 17.1 | 0.1 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.5 | 0.0 | 0.4 | 20.6 | 0.1 | 1.4 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 33% | 21% | 38% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 42% | 60% | 9% | 5% | 40% | 67% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Operation | 58% | 40% | 0% | 1% | 0% | 0% | 79% | 62% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 100% | 17% | 9% | 30% |
| Other | 0% | 0% | 91% | 0% | 0% | 0% | 0% | 0% | 50% | 0% | 0% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 70% |
| Vegetation/Animal | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 50% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Weather/Fire/Earthquake | 0% | 0% | 0% | 94% | 59% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 83% | 91% | 0% |
| GLADIOLA(16KV) - Customers: 1,829 | 69.6 | 0.2 | 0.0 | 72.0 | 0.4 | 1.0 | 257.4 | 1.9 | 1.1 | 114.0 | 0.9 | 0.1 | 86.7 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 200.6 | 1.4 | 0.1 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 7% | 54% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 94% | 84% | 0% | 0% | 0% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Operation | 6% | 16% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 43% | 39% | 0% |
| Other | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Vegetation/Animal | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 88% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Weather/Fire/Earthquake | 0% | 0% | 0% | 0% | 0% | 0% | 93% | 46% | 12% | 100% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 57% | 61% | 100% |

Reliability Histories for Individual Circuits Serving Santa Barbara District 3

| | | 2013 | | | 2014 | | | 2015 | | 1st | Qtr 20 | 16 | 2nd | d Qtr 20 | 016 | 3rd | Qtr 20 | 016 | 4th | Qtr 20 | 16 | | 2016 | |
|------------------------------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|--------|-------|-------|----------|-------|-------|--------|-------|-------|--------|-------|--------|-------|------|
| | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIF |
| MIST(16KV) - Customers: 391 | 99.1 | 0.3 | 0.0 | 2151.8 | 2.4 | 0.6 | 165.9 | 0.3 | 0.0 | 145.8 | 1.1 | 0.0 | 567.4 | 0.5 | 0.1 | 178.6 | 1.2 | 0.0 | 125.1 | 0.4 | 0.5 | 1017.0 | 3.1 | 0.0 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 2% | 2% | 0% | 0% | 0% | 0% | 0% | 1% | 0% |
| Equipment Failure | 0% | 0% | 0% | 0% | 0% | 0% | 96% | 98% | 0% | 10% | 90% | 0% | 0% | 0% | 0% | 12% | 2% | 0% | 0% | 0% | 0% | 4% | 32% | 0% |
| Operation | 61% | 39% | 0% | 1% | 20% | 0% | 0% | 0% | 0% | 1% | 0% | 0% | 3% | 35% | 100% | 0% | 2% | 0% | 53% | 73% | 0% | 9% | 15% | 10% |
| Other | 34% | 55% | 0% | 98% | 78% | 100% | 0% | 0% | 0% | 89% | 9% | 0% | 33% | 47% | 0% | 20% | 8% | 0% | 47% | 27% | 100% | 40% | 17% | 90% |
| Vegetation/Animal | 5% | 5% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 66% | 86% | 0% | 0% | 0% | 0% | 12% | 32% | 0% |
| Weather/Fire/Earthquake | 0% | 0% | 0% | 1% | 2% | 0% | 4% | 2% | 0% | 0% | 0% | 0% | 64% | 18% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 36% | 3% | 0% |
| SHOAL(16KV) - Customers: 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Operation | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Other | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Vegetation/Animal | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Weather/Fire/Earthquake | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| TRUMP(16KV) - Customers: 144 | 52.5 | 0.2 | 0.0 | 102.8 | 0.4 | 0.0 | 97.2 | 0.2 | 0.0 | 35.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 42.5 | 0.1 | 0.0 | 1.8 | 0.0 | 0.0 | 80.1 | 0.2 | 0.0 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 29% | 29% | 0% | 0% | 0% | 0% | 70% | 63% | 0% | 2% | 20% | 0% | 0% | 0% | 0% | 95% | 82% | 0% | 0% | 0% | 0% | 51% | 65% | 0% |
| Operation | 7% | 23% | 0% | 0% | 0% | 0% | 30% | 38% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 5% | 18% | 0% | 100% | 100% | 0% | 5% | 17% | 0% |
| Other | 64% | 48% | 0% | 50% | 60% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Vegetation/Animal | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Weather/Fire/Earthquake | 0% | 0% | 0% | 50% | 40% | 0% | 0% | 0% | 0% | 98% | 80% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 44% | 17% | 0% |