

Circuit Reliability Review Yucaipa

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 Redlands District

Banning

Beaumont

Box Springs Mountain

Calimesa

Cherry Valley

Colton

Grand Terrace

Highgrove

Highland

Loma Linda

Mentone

Muscoy

Redlands

Rialto

Riverside

San Bernardino

Yucaipa

Reliability by SCE District (No Exclusions)

		20	12			20:	13			20	14			20	15			20	16	
	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.

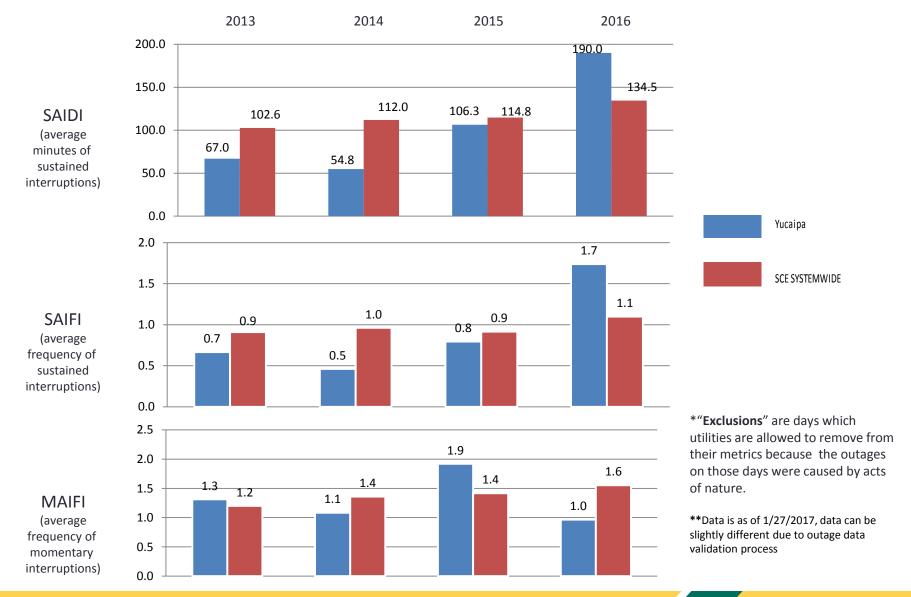
^{**}In the columns showing "Rank," lower numbers indicate poorer performance.

Overview of Yucaipa There are 18 circuits that serve Yucaipa

Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers
BEAR VALLEY(33KV)	30						
BENCH(12KV)	1,627						
BURNS(12KV)	1,569						
CALIMESA(12KV)	957						
CHATTANOOGA(12KV)	1,465						
CONINE(12KV)	1,114						
CROFT(12KV)	1,936						
MEMPHIS(12KV)	1,440						
MESA GRANDE(12KV)	1,027						
NASHVILLE(12KV)	1,396						
OAK GLEN(12KV)	1,484						
PENDLETON(12KV)	1,412						
POULTRY(12KV)	1,935						
ROCKWELL(12KV)	1,510						
SHASTA(12KV)	811						
SPARLING(12KV)	1,092						
STONEWOOD(12KV)	970						
WILSON CREEK(12KV)	1,957						

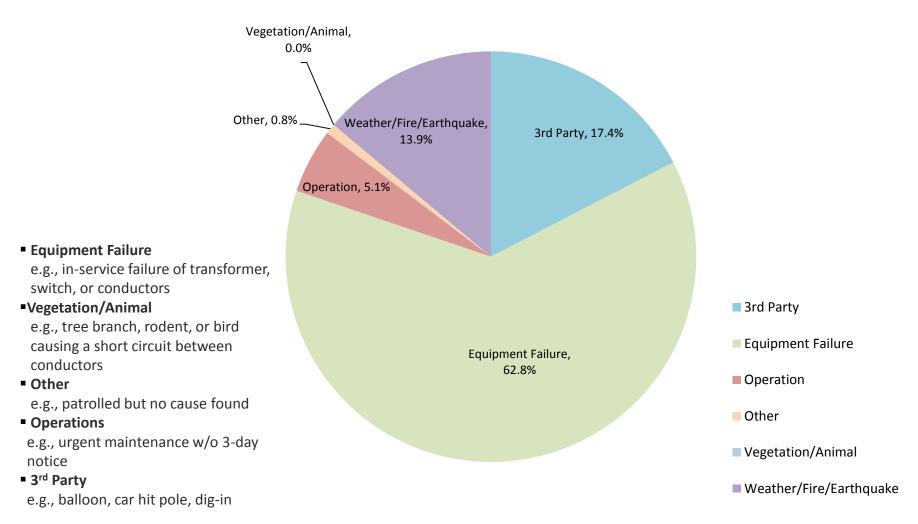
Grand Total 23,732

Reliability History of Circuits Serving Yucaipa (No Exclusions)



Causes of Repair Outages in Yucaipa Circuits 2016 YTD

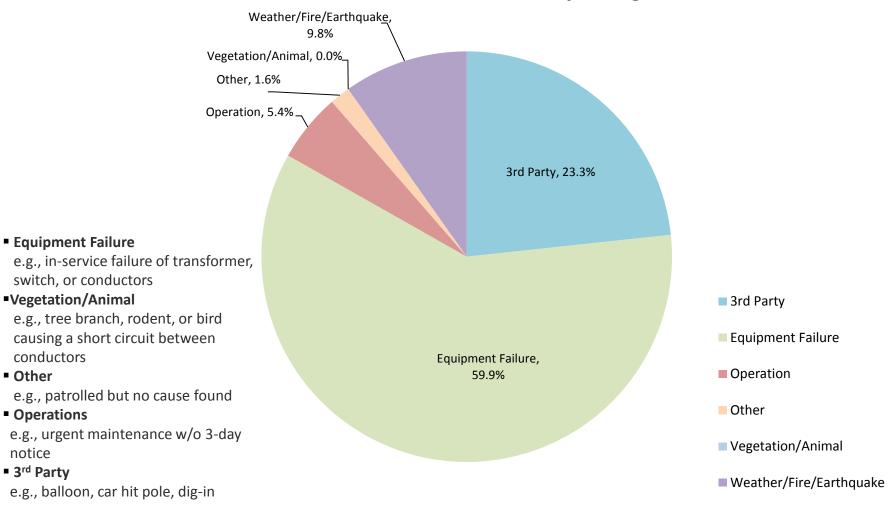
Contributions to SAIDI by Outage Cause



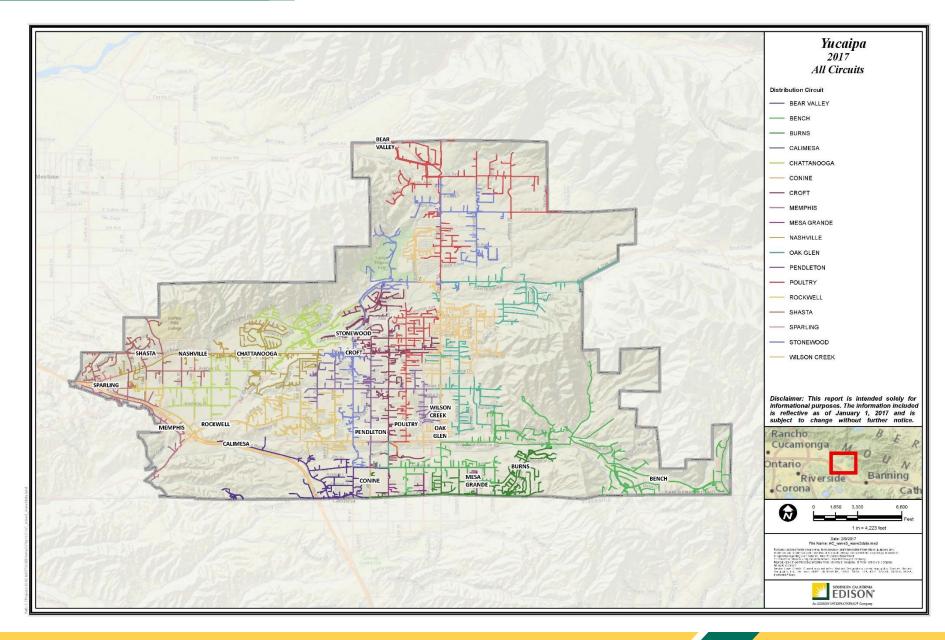
SAIDI = the cumulative amount of time the average customer is interrupted by "sustained" outages each year.

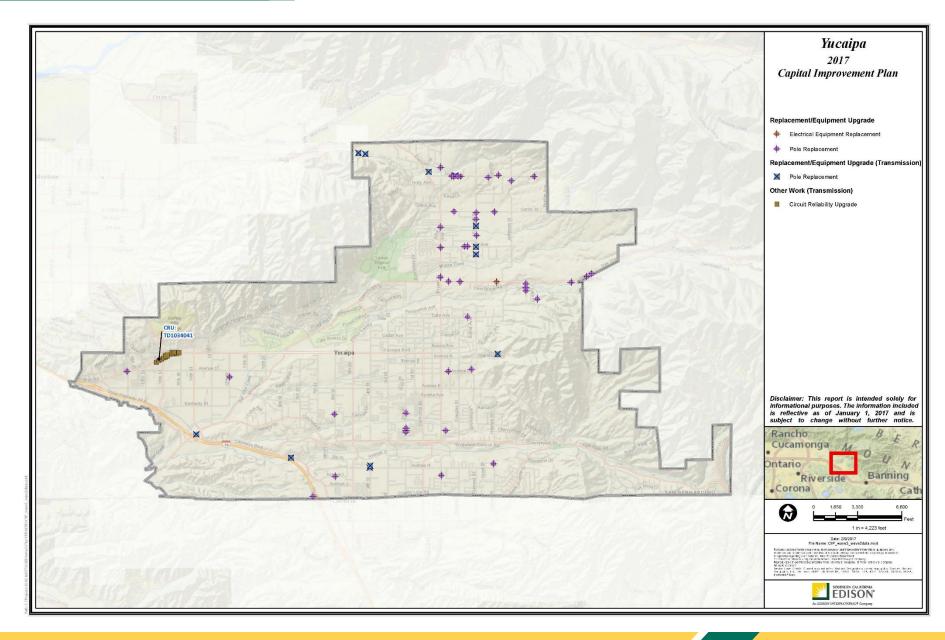
Causes of Repair Outages in Yucaipa Circuits 2016 YTD

Contributions to SAIFI by Outage Cause



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





Back-up Slides

Reliability Histories of Circuits Serving Yucaipa

Updated through Year-End 2016

Average Reliability of 18 Circuits Serving Yucaipa

		2013			2014			2015		1st	Qtr 20	16	2nd	Qtr 2	016	3ra	Qtr 2	016	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	MAIFI
Yucaipa	67.0	0.7	1.3	54.8	0.5	1.1	106.3	0.8	1.9	69.0	0.8	0.2	14.8	0.2	0.2	39.3	0.1	0.1	66.8	0.6	0.4	190.0	1.7	1.0
3rd Party	31%	45%	13%	12%	10%	19%	11%	14%	32%	8%	10%	0%	42%	53%	19%	0%	0%	47%	32%	36%	51%	17%	23%	32%
Equipment Failure	41%	27%	31%	43%	44%	18%	48%	45%	10%	75%	85%	29%	33%	32%	0%	98%	89%	22%	36%	28%	36%	63%	60%	25%
Operation	3%	11%	3%	5%	12%	4%	4%	7%	2%	0%	0%	0%	21%	13%	0%	0%	0%	0%	9%	11%	0%	5%	5%	0%
Other	3%	1%	33%	13%	16%	34%	4%	13%	33%	1%	1%	65%	0%	0%	51%	2%	11%	15%	0%	0%	0%	1%	2%	27%
Vegetation/Animal	0%	0%	8%	4%	9%	11%	1%	1%	10%	0%	0%	0%	0%	0%	0%	0%	0%	17%	0%	0%	0%	0%	0%	2%
Weather/Fire/Earthquake	22%	16%	12%	23%	8%	13%	31%	20%	12%	15%	2%	6%	4%	2%	30%	0%	0%	0%	23%	25%	13%	14%	10%	13%
	•	,	·	•	•	·	·	,	•	·	•	•	•	,	•	·	•	•	•	·	•			
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.

		2013			2014			2015		1st	Qtr 202	16	2nd	d Qtr 20	016	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
BEAR VALLEY(33KV) - Customers: 30	156.0	3.0	0.0	0.0	0.0	0.0	634.1	2.1	1.1	4027.6	5.0	0.0	333.6	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	4361.2	6.0	2.0
3rd Party	18%	34%	0%	0%	0%	0%	87%	48%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	0%	0%	0%	3%	5%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	0%	0%	0%	11%	48%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	77%	33%	0%	0%	0%	0%	0%	0%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	49%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	91%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	5%	34%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	100%	100%	51%
BENCH(12KV) - Customers: 1,627	119.7	1.5	0.4	5.4	0.0	0.0	0.0	0.0	0.9	80.1	1.0	0.0	0.0	0.0	0.0	101.8	0.4	0.0	121.0	1.0	0.6	303.0	2.4	0.6
3rd Party	73%	96%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%
Equipment Failure	27%	4%	100%	95%	59%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	60%	59%	0%
Operation	0%	0%	0%	5%	41%	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%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	40%	41%	0%
BURNS(12KV) - Customers: 1,569	174.8	1.0	0.0	14.4	0.1	0.0	100.6	1.0	0.0	80.3	1.0	0.0	28.6	0.1	0.0	352.1	1.0	1.0	0.0	0.0	0.0	461.1	2.1	1.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	100%
Equipment Failure	3%	2%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	94%	97%	0%
Operation	0%	0%	0%	67%	67%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	6%	3%	0%
Other	0%	0%	0%	33%	33%	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	97%	98%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
CALIMESA(12KV) - Customers: 957	165.3	2.1	1.0	0.0	0.0	0.0	19.8	0.0	1.0	80.3	1.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	80.9	1.0	0.0
3rd Party	85%	98%	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%	88%	83%	0%	100%	100%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	100%	100%	0%
Operation	0%	0%	0%	0%	0%	0%	1%	14%	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	15%	2%	100%	0%	0%	0%	11%	3%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

		2013			2014			2015		1st	Qtr 20 .	16	2nc	Qtr 20	016	3rd	Qtr 20 2	16	4th	Qtr 20	16		2016	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI N	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
CHATTANOOGA(12KV) - Customers: 1,465	0.0	0.0	0.7	0.0	0.0	0.0	20.5	0.1	0.0	0.0	0.0	0.0	8.0	0.1	1.0	0.0	0.0	0.0	9.6	0.0	0.0	17.6	0.2	1.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	54%	14%	0%
Equipment Failure	0%	0%	0%	0%	0%	0%	8%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	0%	0%	0%	80%	86%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	46%	86%	0%
Other	0%	0%	100%	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%	12%	12%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CONINE(12KV) - Customers: 1,114	155.9	1.0	0.0	94.9	2.2	0.0	675.9	3.2	3.4	79.8	1.0	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.1	1.0	1.0
3rd Party	24%	85%	0%	33%	47%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	75%	12%	0%	10%	5%	0%	22%	48%	71%	100%	100%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%
Operation	1%	3%	0%	1%	1%	0%	1%	1%	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%	29%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
Vegetation/Animal	0%	0%	0%	56%	47%	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%	77%	52%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
CROFT(12KV) - Customers: 1,936	98.8	1.5	2.2	0.0	0.0	0.0	0.0	0.0	1.0	80.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	80.0	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	92%	99%	15%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	100%
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%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	1%	0%	43%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	8%	1%	43%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
MEMPHIS(12KV) - Customers: 1,440	68.1	1.1	1.2	174.4	2.1	3.8	316.2	3.3	3.3	5.5	0.0	1.0	15.5	0.4	1.0	63.6	0.5	0.5	165.8	2.2	1.0	250.5	3.1	3.5
3rd Party	55%	93%	100%	6%	2%	2%	0%	0%	31%	0%	0%	0%	24%	36%	0%	0%	0%	0%	97%	99%	100%	66%	75%	28%
Equipment Failure	36%	2%	0%	92%	98%	46%	85%	70%	38%	100%	100%	100%	0%	0%	0%	100%	100%	100%	0%	0%	0%	28%	16%	43%
Operation	8%	5%	0%	2%	1%	0%	0%	0%	1%	0%	0%	0%	76%	64%	0%	0%	0%	0%	3%	1%	0%	7%	9%	0%
Other	1%	0%	0%	0%	0%	27%	14%	30%	31%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	29%
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%	26%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

		2013			2014			2015		1st	Qtr 20	16	2nd	l Qtr 20:	16	3rd	Qtr 20 2	16	4th	Qtr 20	16		2016	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI N	//AIFI	SAIDI	SAIFI I	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
MESA GRANDE(12KV) - Customers: 1,027	35.6	0.2	0.8	16.4	0.0	0.0	34.7	0.2	2.0	79.3	1.0	0.0	27.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	106.3	2.0	0.0
3rd Party	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	15%	5%	0%	0%	0%	0%	0%	0%	0%	4%	3%	0%
Equipment Failure	0%	0%	0%	0%	0%	0%	2%	2%	0%	100%	100%	0%	85%	95%	0%	0%	0%	0%	0%	0%	0%	96%	97%	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%	100%	100%	0%	0%	0%	50%	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%	98%	98%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
NASHVILLE(12KV) - Customers: 1,396	63.9	0.2	0.0	87.0	1.1	0.7	137.4	1.6	3.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	162.8	2.0	0.9	163.4	2.0	0.9
3rd Party	0%	0%	0%	0%	0%	0%	70%	62%	100%	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	5%	12%	0%	0%	0%	0%	9%	31%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	59%	50%	0%	59%	50%	0%
Other	95%	88%	0%	100%	100%	100%	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%	13%	7%	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%	8%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	41%	50%	100%	41%	50%	100%
OAK GLEN(12KV) - Customers: 1,484	5.9	0.0	0.2	76.8	0.4	0.4	68.5	0.5	3.3	89.7	1.2	0.5	59.1	0.4	0.0	24.0	0.3	0.7	162.8	1.5	1.0	335.5	3.3	2.2
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	45%
Equipment Failure	100%	96%	0%	5%	6%	0%	45%	31%	5%	90%	86%	0%	100%	100%	0%	45%	19%	0%	76%	80%	0%	82%	78%	0%
Operation	0%	4%	0%	0%	0%	0%	22%	34%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	100%	0%	0%	100%	0%	0%	65%	10%	14%	100%	0%	0%	0%	55%	81%	47%	0%	0%	0%	7%	13%	38%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	2%	0%	30%	0%	0%	0%	0%	0%	0%	0%	0%	53%	0%	0%	0%	0%	0%	17%
Weather/Fire/Earthquake	0%	0%	0%	95%	94%	0%	32%	34%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	24%	20%	0%	12%	9%	0%
PENDLETON(12KV) - Customers: 1,412	5.6	0.1	0.0	4.2	0.0	0.0	0.0	0.0	0.0	26.0	1.0	1.0	62.0	1.0	0.0	0.0	0.0	0.0	77.6	0.1	0.0	165.6	2.1	1.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	37%	47%	0%
Equipment Failure	0%	0%	0%	56%	54%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	91%	74%	0%	58%	51%	0%
Operation	100%	100%	0%	44%	46%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	9%	26%	0%	4%	1%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	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%

		2013			2014			2015		1st	Qtr 20.	16	2nd	Qtr 20	016	3rd	Qtr 201	16	4th	Qtr 20	16		2016	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI N	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
POULTRY(12KV) - Customers: 1,935	142.7	1.5	4.8	138.9	0.5	3.4	9.4	0.5	2.6	178.4	1.2	0.2	4.6	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	183.9	1.2	0.2
3rd Party	0%	0%	0%	40%	5%	28%	52%	1%	12%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	82%	36%	88%	31%	86%	16%	0%	0%	0%	62%	84%	0%	43%	8%	0%	0%	0%	0%	100%	100%	0%	61%	83%	0%
Operation	2%	32%	0%	0%	1%	0%	13%	19%	0%	1%	3%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	1%	3%	0%
Other	0%	0%	0%	0%	0%	55%	27%	80%	22%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	8%	0%	23%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	16%	32%	12%	29%	9%	0%	0%	0%	43%	37%	13%	100%	57%	92%	0%	0%	0%	0%	0%	0%	0%	37%	15%	100%
ROCKWELL(12KV) - Customers: 1,510	3.5	0.0	2.0	13.2	0.0	1.0	337.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	27.1	0.1	1.0	29.0	0.1	1.0
3rd Party	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	100%	100%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	100%	100%	100%	100%	100%	100%
Operation	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	100%	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%
SHASTA(12KV) - Customers: 811	109.0	0.2	2.7	0.0	0.0	1.0	78.1	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	196.5	1.0	0.0	198.6	1.0	0.0
3rd Party	89%	97%	63%	0%	0%	0%	97%	99%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	93%	97%	0%	92%	97%	0%
Equipment Failure	11%	3%	0%	0%	0%	0%	1%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%
Operation	0%	0%	37%	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%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	1%	1%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	2%	1%	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%	7%	3%	0%	7%	3%	0%
SPARLING(12KV) - Customers: 1,092	4.8	0.5	1.0	263.9	2.2	4.0	118.0	0.5	3.0	0.0	0.0	0.0	0.0	0.0	1.0	72.0	0.0	0.0	102.8	1.0	1.0	174.7	1.0	2.0
3rd Party	0%	0%	0%	1%	0%	25%	2%	45%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	59%	96%	50%
Equipment Failure	0%	0%	0%	74%	35%	25%	56%	17%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	41%	4%	0%
Operation	100%	100%	0%	7%	46%	25%	19%	16%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	100%	18%	19%	25%	18%	16%	33%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	50%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	4%	4%	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%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

		2013			2014			2015		1st	Qtr 201	16	2n	d Qtr 2	016	3rd	Qtr 201	16	4th	Qtr 20 2	16		2016	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI I	MAIFI	SAIDI	SAIFI I	MAIFI	SAIDI	SAIFI	MAIFI
STONEWOOD(12KV) - Customers: 970	0.0	0.0	1.3	0.0	0.0	1.6	4.3	0.0	3.3	37.2	1.0	0.0	50.8	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	88.0	2.0	1.0
3rd Party	0%	0%	0%	0%	0%	20%	0%	0%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	58%	51%	100%
Equipment Failure	0%	0%	0%	0%	0%	0%	100%	100%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	42%	49%	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%	50%	0%	0%	20%	0%	0%	40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	50%	0%	0%	60%	0%	0%	60%	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%
WILSON CREEK(12KV) - Customers: 1,957	7.4	0.0	2.0	52.0	0.1	1.9	42.9	0.1	4.0	148.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	124.8	1.0	0.0	273.0	3.0	0.0
3rd Party	0%	0%	0%	0%	0%	0%	73%	41%	75%	46%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	25%	33%	0%
Equipment Failure	14%	8%	0%	0%	0%	0%	24%	50%	0%	54%	50%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	75%	67%	0%
Operation	86%	92%	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%	100%	0%	0%	0%	0%	0%	25%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	52%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	100%	100%	48%	3%	9%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%