



**Empire District
A Liberty Utilities Company
Electric Utility System Reliability
Monitoring and Reporting Submission Requirements –
Annual Reliability Report
4 CSR 240-23.010**

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Introduction

This report details Empire District's (Empire) annual reliability metrics and worst performing circuits for calendar year 2017 as required by Missouri Public Service Commission Rule 4 CSR 240-23.010, Electric Utility System Reliability Monitoring and Reporting Submission Requirements. This report will provide the reliability measures requested by the Rule, the list of Worst Performing Circuits (WPCs), the Multi-Year Worst Performing Circuits, and the actions taken or planned to improve the performance of these circuits.

Definitions

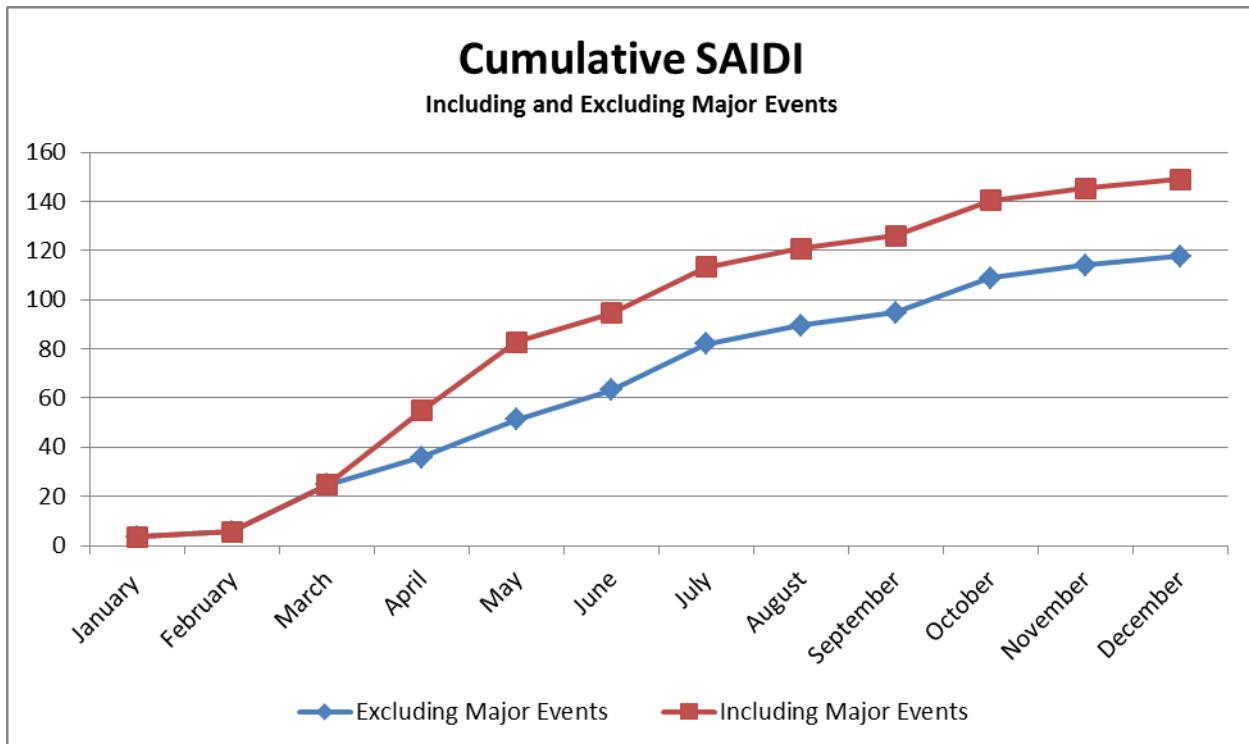
For the purpose of this report, the following definitions shall apply:

1. System Average Interruption Frequency Index (SAIFI) – how often the average customer experiences a sustained interruption over a predefined period of time.
2. Customer Average Interruption Frequency Index (CAIFI) – the average frequency of sustained interruptions for those customers experiencing sustained interruptions. The customer is counted once regardless of the number of times interrupted for this calculation.
3. System Average Interruption Duration Index (SAIDI) – the total duration of interruption for the average customer during a predefined period of time. SAIDI is measured in minutes.
4. Customer Average Interruption Duration Index (CAIDI) – the average time required to restore service. CAIDI is measured in minutes.
5. Worst Performing Circuit (WPC) – A distribution circuit whose SAIFI value, adjusted to exclude major events per IEEE Standard 1366-2012 when compared to the SAIFI values for the other circuits in the Empire system places it among the 5% of circuits with the highest SAIFI values in the Empire system.



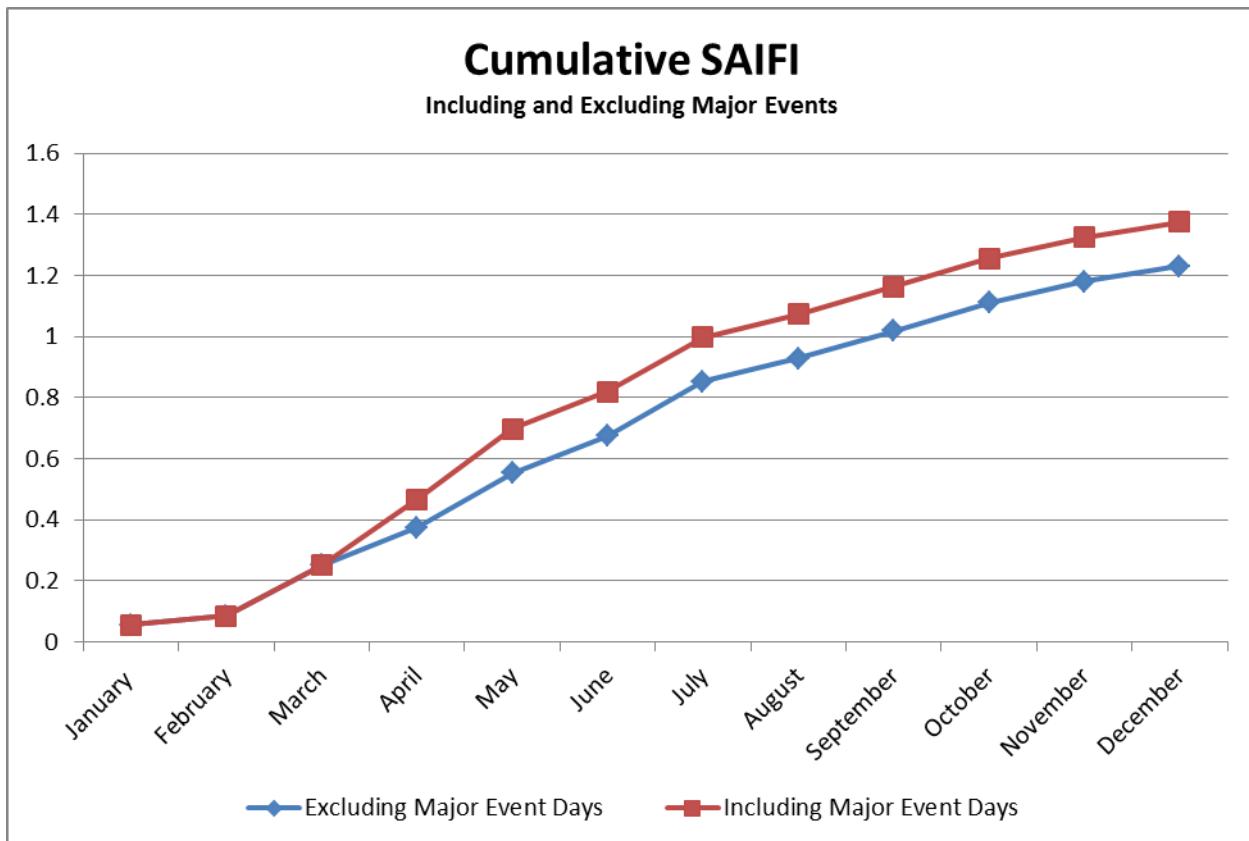
Reliability Metrics

SAIDI		
Month	EME	IME
January	3.42	3.42
February	5.74	5.74
March	24.20	24.20
April	35.31	54.49
May	50.92	82.30
June	62.69	94.07
July	81.38	112.76
August	88.99	120.37
September	94.16	125.54
October	108.35	139.73
November	113.47	144.85
December	117.10	148.48



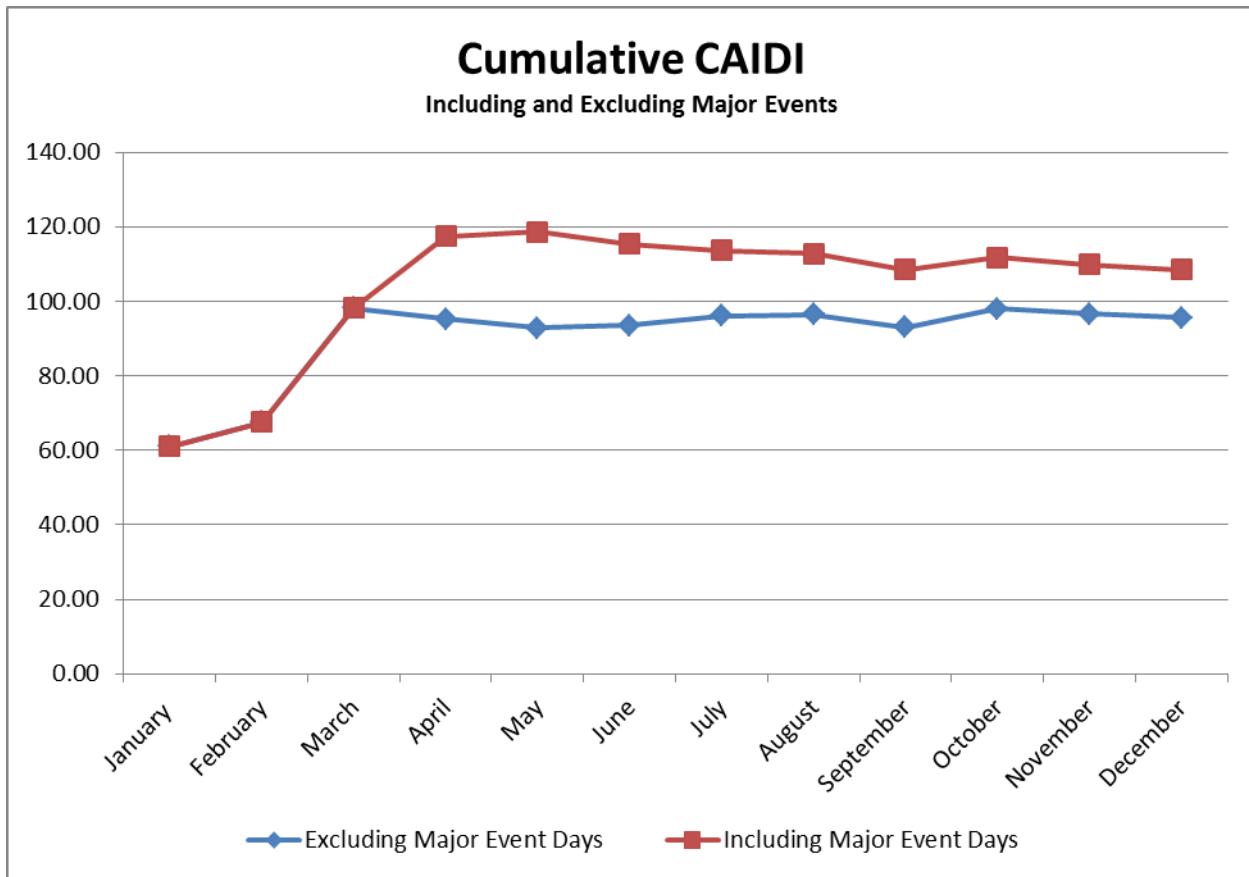


SAIFI		
Month	EME	IME
January	0.056	0.056
February	0.085	0.085
March	0.245	0.245
April	0.369	0.462
May	0.547	0.692
June	0.668	0.813
July	0.845	0.99
August	0.921	1.066
September	1.011	1.156
October	1.104	1.249
November	1.172	1.317
December	1.223	1.368





CAIDI		
Month	EME	IME
January	61.07	61.07
February	67.53	67.53
March	98.78	98.78
April	95.69	117.94
May	93.09	118.93
June	93.85	115.71
July	96.31	113.90
August	96.62	112.92
September	93.14	108.60
October	98.14	111.87
November	96.82	109.98
December	95.75	108.54





2017 Multi-Year Worst Performing Circuits

Empire has identified three multi-year worst performing circuits in accordance with 4 CSR 240-23.010(8). To improve the performance of the circuits, Empire adopted a corrective action plan that includes the following activities:

- Empire employees perform a “walk-through” of the worst performing circuit collecting engineering data to support the following coordination study and sectionalizing program. Visually identifiable defects are noted and corrected as part of the corrective action plan.
- Upon walk-through completion, a coordination study of the circuit occurs. The coordination study evaluates protective equipment settings and application to ensure each protective device properly operates with other upstream and downstream protective equipment. Additional sectionalizing is then added to the circuit to reduce the number of customers experiencing an outage, in the event an outage occurs, thus increasing reliability to other customers on the circuit. Faulted circuit indicators are also added to the circuit to reduce restoration time and shorten customer outage duration.
- In addition to the coordination study and sectionalizing program, any vegetation related issues identified are scheduled to be cleared for each circuit.

The multi-year worst performing circuits are indicated in the chart below and are ranked according to their 2017 SAIFI value. A more detailed list of each circuit's corrective action will follow.

Multi-Year Worst Performing Circuits				
SAIFI				
2015 - 2017				
Location	Circuit Number	2017	2016	2015
Anderson - Southwest	3221	3.470	0.343	3.149
Seneca - East	3751	4.389	1.459	4.425
Marionville - North	4373	5.180	2.086	4.129



Circuit: 3221

Area Served: Anderson, Missouri

2017 SAIFI: 3.470

2016 SAIFI: 0.343

2015 SAIFI: 3.149

This circuit received an infrared inspection in 2015 and a comprehensive intrusive inspection in 2012. A visual inspection is scheduled in 2021. The repair work identified as a result of the inspections will be completed in accordance with Empire's infrastructure inspection policy.

Vegetation maintenance was performed in 2017. The circuit is also scheduled for regular maintenance again in 2021.

A coordination study and sectionalizing corrective action program was completed in 2014.

Empire is re-evaluating the current sectionalization and protection coordination to determine if additional equipment is appropriate. Empire will also continue to monitor the performance of circuit 3221 and evaluate cost effective solutions to further improve service reliability.

A future transmission sectionalization project affecting the substation sourcing circuit 3221 is planned as a part of Empire's Operation Toughen Up reliability initiative.



Circuit: 3751

Area Served: Seneca, Missouri

2017 SAIFI: 4.389

2016 SAIFI: 1.459

2015 SAIFI: 4.425

This circuit received a visual inspection in 2013 and a comprehensive intrusive inspection in 2014. An infrared inspection is scheduled in 2019. The repair work identified as a result of the inspections will be completed in accordance with Empire's infrastructure inspection policy.

Vegetation clearing was performed in 2016 and is scheduled for a mid-cycle clearing in 2018.

A coordination study and sectionalizing corrective action program was completed in 2012.

Empire is re-evaluating the current sectionalization and protection coordination to determine if additional equipment is appropriate. Empire will also continue to monitor the performance of circuit 3751 and evaluate cost effective solutions to further improve service reliability.

A future transmission sectionalization project affecting the substation sourcing circuit 3751 is planned as a part of Empire's Operation Toughen Up reliability initiative.



Circuit: 4373

Area Served: Marionville, Missouri

2017 SAIFI: 5.180

2016 SAIFI: 2.086

2015 SAIFI: 4.129

This circuit received a visual inspection in 2013 and is receiving a comprehensive intrusive inspection in 2018. An infrared inspection is scheduled in 2019. The repair work identified as a result of the inspections will be completed in accordance with Empire's infrastructure inspection policy.

Vegetation mid-cycle clearing was performed in 2017. The circuit is also scheduled for regular maintenance in 2020.

A coordination study and sectionalizing corrective action program was completed in 2014.

Empire is re-evaluating the current sectionalization and protection coordination to determine if additional equipment is appropriate. Empire will also continue to monitor the performance of circuit 4373 and evaluate cost effective solutions to further improve service reliability



Worst Performing Circuits - System 2017 Measured by SAIFI

Location	Circuit Number	Number Of Outages	Outage Hours Reported	Customer Outage Minutes	Customers Affected	Total Cust On Affected Circuits	AREA	SAIFI	SAIDI	CAIDI
Joplin - West 7th Street	1451	20	31.43	337294	2981	526	214	5.667	641.24	113.15
Marionville - North	4373	27	53.47	535957	4022	776	211	5.180	690.31	133.26
Seneca - East	3751	57	167.62	492867	3876	883	216	4.389	558.06	127.16
Neosho - East	3982	45	73.87	468462	6639	1769	216	3.754	264.88	70.56
Neosho - Rocketdyne 69 KV	2961	30	98.85	211146	2408	648	216	3.716	325.84	87.69
Anderson - Southwest	3221	36	60.62	310229	4312	1243	216	3.470	249.62	71.95
Noel City	4431	57	87.94	438485	4749	1387	216	3.425	316.20	92.33
Tipton Ford	2921	17	30.61	96796	1224	375	214	3.264	258.12	79.08
Fair Play - East	2172	7	14.73	90982	677	223	213	3.034	407.69	134.39
Neosho - Rocketdyne 69 KV	2962	5	32.41	40988	773	257	216	3.008	159.49	53.02
Joplin - 10th Street	401	3	5.98	39032	324	108	214	3.000	361.41	120.47
Anderson - Southwest	3222	36	50.43	159585	2281	772	216	2.955	206.72	69.96
Greenfield	6141	20	39.97	263825	1859	634	213	2.931	415.96	141.92
Carl Junction - Northeast	3662	22	25.61	126990	2258	781	215	2.893	162.68	56.24

**Circuit: 1451****Area Served: Joplin, Missouri****2017 SAIFI: 7.527**

This circuit received a comprehensive intrusive inspection in 2014 and a visual inspection in 2017. The circuit is scheduled to receive an infrared inspection in 2021. The repair work identified as a result of the inspections will be completed in accordance with Empire's infrastructure inspection policy.

Vegetation maintenance was performed in 2017 and is scheduled again for 2021.

A coordination study and sectionalizing corrective action program is scheduled for 2018.

Circuit: 4373**Area Served: Marionville, Missouri****2017 SAIFI: 5.180****2016 SAIFI: 2.086**

This circuit received a visual inspection in 2013 and is receiving a comprehensive intrusive inspection in 2018. An infrared inspection is scheduled in 2019. The repair work identified as a result of the inspections will be completed in accordance with Empire's infrastructure inspection policy.

Vegetation mid-cycle clearing was performed in 2017. The circuit is also scheduled for regular maintenance in 2020.

A coordination study and sectionalizing corrective action program was completed in 2014.

Empire is re-evaluating the current sectionalization and protection coordination to determine if additional equipment is appropriate. Empire will also continue to monitor the performance of circuit 4373 and evaluate cost effective solutions to further improve service reliability.



Circuit: 3751

Area Served: Seneca, Missouri

2017 SAIFI: 4.389

2016 SAIFI: 1.459

This circuit received a visual inspection in 2013 and a comprehensive intrusive inspection in 2014. An infrared inspection is scheduled in 2019. The repair work identified as a result of the inspections will be completed in accordance with Empire's infrastructure inspection policy.

Vegetation clearing was performed in 2016 and is scheduled for a mid-cycle clearing in 2018.

A coordination study and sectionalizing corrective action program was completed in 2012.

Empire is re-evaluating the current sectionalization and protection coordination to determine if additional equipment is appropriate. Empire will also continue to monitor the performance of circuit 3751 and evaluate cost effective solutions to further improve service reliability.

A future transmission sectionalization project is planned as a part of Empire's Operation Toughen Up reliability initiative.

Circuit: 3982

Area Served: Neosho, Missouri

2017 SAIFI: 3.754

This circuit received a visual inspection in 2017 and a comprehensive intrusive inspection in 2016. This circuit is scheduled to receive an infrared inspection in 2021. The repair work identified as a result of the inspections will be completed in accordance with Empire's infrastructure inspection policy.

Vegetation clearing is scheduled for 2018.

A coordination study and sectionalizing corrective action program was performed in 2012.

**Circuit: 2961****Area Served: Neosho, Missouri****2017 SAIFI: 3.716**

This circuit received an infrared inspection in 2016. This circuit is scheduled to receive a visually inspection in 2020 and a comprehensive intrusive inspection in 2023. The repair work identified as a result of the inspections will be completed in accordance with Empire's infrastructure inspection policy.

Vegetation clearing is scheduled for 2018.

A coordination study and sectionalizing corrective action program was performed in 2014.

Circuit: 3221**Area Served: Anderson, Missouri****2017 SAIFI: 3.470****2016 SAIFI: 0.343**

This circuit received an infrared inspection in 2015 and a comprehensive intrusive inspection in 2012. A visual inspection is scheduled in 2021. The repair work identified as a result of the inspections will be completed in accordance with Empire's infrastructure inspection policy.

Vegetation maintenance was performed in 2017. The circuit is also scheduled for regular maintenance again in 2021.

A coordination study and sectionalizing corrective action program was completed in 2014.

Empire is re-evaluating the current sectionalization and protection coordination to determine if additional equipment is appropriate. Empire will also continue to monitor the performance of circuit 3221 and evaluate cost effective solutions to further improve service reliability.

A future transmission sectionalization project is planned as a part of Empire's Operation Toughen Up reliability initiative.

**Circuit: 4431****Area Served: Noel, Missouri****2017 SAIFI: 3.425**

This circuit received a visual inspection in 2011 and an infrared inspection in 2017. This circuit is scheduled to receive a comprehensive intrusive inspection in 2018 and its next visual inspection in 2023. The repair work identified as a result of the inspections will be completed in accordance with Empire's infrastructure inspection policy.

Vegetation clearing was performed in 2015 and is scheduled for a mid-cycle clearing in 2018. The circuit is also scheduled for regular maintenance in 2021.

A coordination study and sectionalizing corrective action program was performed in 2013.

Circuit: 2921**Area Served: Tipton Ford, Missouri****2017 SAIFI: 3.264**

This circuit received a visual inspection in 2017. This circuit is scheduled to receive a comprehensive intrusive inspection in 2019 and an infrared inspection in 2023. The repair work identified as a result of the inspections will be completed in accordance with Empire's infrastructure inspection policy.

Vegetation mid-cycle clearing was performed in 2016. The circuit is scheduled for regular maintenance in 2019.

A coordination study and sectionalizing corrective action program was performed in 2010.

Circuit: 2172**Area Served: Fair Play, Missouri****2017 SAIFI: 3.034**

This circuit received an infrared inspection in 2014 and a comprehensive intrusive inspection in 2009. A visual inspection is scheduled in 2020. The repair work identified as a result of the inspections will be completed in accordance with Empire's infrastructure inspection policy.

Vegetation clearing was performed in 2017 and is scheduled again for 2023.

A coordination study and sectionalizing corrective action program was performed in 2016.

**Circuit: 2962****Area Served: Neosho, Missouri****2017 SAIFI: 3.008**

This circuit received a visual inspection in 2009, an infrared inspection in 2015, and a comprehensive intrusive inspection in 2012. A visual inspection is scheduled for 2021. The repair work identified as a result of the inspections will be completed in accordance with Empire's infrastructure inspection policy.

Vegetation mid-cycle clearing was performed in 2017. The circuit is also scheduled for regular maintenance in 2019.

A coordination study and sectionalizing corrective action program was performed in 2016.

Circuit: 401**Area Served: Joplin, Missouri****2017 SAIFI: 3.000**

This circuit received an infrared inspection in 2014. This circuit is scheduled to receive a visual inspection in 2018 and a comprehensive intrusive inspection in 2021. The repair work identified as a result of the inspections will be completed in accordance with Empire's infrastructure inspection policy.

Vegetation mid-cycle clearing was performed in 2017. The circuit is also scheduled for regular maintenance in 2019.

Circuit: 3222**Area Served: Anderson, Missouri****2017 SAIFI: 2.955**

This circuit received a comprehensive intrusive inspection in 2012 and a visual inspection in 2013. This circuit is scheduled to receive an infrared inspection in 2019 and a comprehensive intrusive inspection in 2024. The repair work identified as a result of the inspections will be completed in accordance with Empire's infrastructure inspection policy.

Vegetation clearing was performed in 2015 and is scheduled for a mid-cycle clearing in 2018. The circuit is also scheduled for regular maintenance in 2022.

A coordination study and sectionalizing corrective action program for circuit 3222 was completed in 2014.

**Circuit: 6141****Area Served: Greenfield, Missouri****2016 SAIFI: 2.931**

This circuit received a visual inspection in 2009 and an infrared inspection in 2015. This circuit is scheduled to receive a comprehensive intrusive inspection in 2020. The repair work identified as a result of the inspections will be completed in accordance with Empire's infrastructure inspection policy.

Mid-cycle vegetation clearing was performed in 2016 and regular maintenance is scheduled in 2019.

A coordination study and sectionalizing corrective action program for circuit 6141 was completed in 2012.

Circuit: 3662**Area Served: Carl Junction, Missouri****2016 SAIFI: 2.893**

This circuit received a visual inspection in 2013 and a comprehensive intrusive inspection in 2015. This circuit is scheduled to receive an infrared inspection in 2019. The repair work identified as a result of the inspections will be completed in accordance with Empire's infrastructure inspection policy.

Vegetation clearing is scheduled for 2018.

A coordination study and sectionalizing corrective action program for circuit 3662 was completed in 2015.

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 1/1/2017 to 1/31/2017
 INCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1050	3	7.21	145	21,899	1,597	0.091	151.03	13.71	1.051	0.99969
1052	1	5.65	1	339	1,162	0.001	339.00	0.29	1.000	0.99999
1082	5	5.13	5	308	1,330	0.004	61.60	0.23	1.000	0.99999
1091	3	3.27	3	196	716	0.004	65.33	0.27	1.000	0.99999
1094	1	1.08	23	1,501	1,237	0.019	65.26	1.21	1.000	0.99997
1211	7	10.61	73	6,614	1,479	0.049	90.60	4.47	3.174	0.99990
1212	1	1.32	3	237	332	0.009	79.00	0.71	1.000	0.99998
1213	2	1.90	2	114	554	0.004	57.00	0.21	1.000	0.99999
1230	1	3.35	70	14,072	1,179	0.059	201.03	11.94	1.000	0.99973
1232	1	0.82	13	640	1,183	0.011	49.23	0.54	1.000	0.99999
1241	1	0.57	7	238	853	0.008	34.00	0.28	1.000	0.99999
1261	1	0.62	1	37	397	0.003	37.00	0.09	1.000	0.99999
1263	1	2.07	1	124	1,132	0.001	124.00	0.11	1.000	0.99999
1265	1	0.65	1	39	1,282	0.001	39.00	0.03	1.000	0.99999
1273	4	2.35	4	141	865	0.005	35.25	0.16	1.000	0.99999
1282	1	0.62	93	3,524	1,035	0.090	37.89	3.40	1.000	0.99992
1284	3	3.52	116	7,271	948	0.122	62.68	7.67	1.303	0.99983

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1312	1	1.32	1	79	934	0.001	79.00	0.08	1.000	0.99999
1454	1	0.92	1	55	935	0.001	55.00	0.06	1.000	0.99999
1455	1	2.25	1	135	389	0.003	135.00	0.35	1.000	0.99999
1523	2	1.93	9	662	723	0.012	73.56	0.92	1.000	0.99998
1842	1	1.45	1	87	280	0.004	87.00	0.31	1.000	0.99999
1843	2	2.12	26	1,665	1,085	0.024	64.04	1.53	1.000	0.99997
2091	1	2.07	1	124	879	0.001	124.00	0.14	1.000	0.99999
2171	1	0.80	1	48	564	0.002	48.00	0.09	1.000	0.99999
2211	6	6.39	6	383	723	0.008	63.83	0.53	1.000	0.99999
2511	3	7.34	660	67,901	618	1.068	102.88	109.87	1.068	0.99754
2621	3	4.47	14	1,670	1,166	0.012	119.29	1.43	1.077	0.99997
2921	11	22.78	92	11,348	375	0.245	123.35	30.26	1.057	0.99932
2951	2	1.94	26	1,520	1,395	0.019	58.46	1.09	1.000	0.99998
2961	1	0.40	1	24	648	0.002	24.00	0.04	1.000	0.99999
3122	2	3.22	4	537	849	0.005	134.25	0.63	1.000	0.99999
3181	1	1.37	55	4,535	724	0.076	82.45	6.26	1.000	0.99986
3232	1	0.98	1	59	431	0.002	59.00	0.14	1.000	0.99999
3314	2	3.91	220	29,527	222	0.991	134.21	133.00	1.005	0.99702
3315	1	0.88	13	695	1,578	0.008	53.46	0.44	1.000	0.99999
3422	3	9.55	8	1,677	971	0.008	209.63	1.73	1.000	0.99996
3423	1	1.12	1	67	386	0.003	67.00	0.17	1.000	0.99999
3472	2	1.21	4	115	1,579	0.003	28.75	0.07	1.333	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3553	2	2.24	33	1,298	1,041	0.032	39.33	1.25	1.000	0.99997
3592	1	0.88	1	53	1,741	0.001	53.00	0.03	1.000	0.99999
3621	1	0.68	1	41	1,558	0.001	41.00	0.03	1.000	0.99999
3661	3	3.18	12	887	1,027	0.012	73.92	0.86	1.000	0.99998
3662	2	1.80	779	3,968	778	1.001	5.09	5.10	1.001	0.99989
3663	1	0.93	1	56	795	0.001	56.00	0.07	1.000	0.99999
3673	1	0.80	10	486	267	0.037	48.60	1.82	1.000	0.99996
3691	1	1.32	49	3,905	1,163	0.042	79.69	3.36	1.000	0.99992
3692	1	2.35	19	2,681	410	0.046	141.11	6.54	1.000	0.99985
3694	2	5.12	11	2,528	1,328	0.008	229.82	1.90	1.000	0.99996
3702	1	0.87	1	52	611	0.002	52.00	0.09	1.000	0.99999
3751	20	17.66	373	20,636	881	0.423	55.32	23.42	1.028	0.99948
3872	1	0.78	1	47	1,067	0.001	47.00	0.04	1.000	0.99999
3893	4	5.63	53	4,572	1,111	0.048	86.26	4.12	1.019	0.99991
3901	1	1.13	45	3,069	877	0.051	68.20	3.50	1.000	0.99992
3912	1	5.90	9	3,186	1,160	0.008	354.00	2.75	1.000	0.99994
3913	2	2.31	809	33,284	809	1.000	41.14	41.14	1.002	0.99908
3951	3	5.45	87	7,621	928	0.094	87.60	8.21	1.024	0.99982
3952	3	4.98	16	2,517	1,273	0.013	157.31	1.98	1.143	0.99996
3953	4	2.66	4	160	522	0.008	40.00	0.31	2.000	0.99999
3981	2	2.18	21	1,371	1,503	0.014	65.29	0.91	1.000	0.99998
3982	2	1.17	53	2,404	1,765	0.030	45.36	1.36	1.000	0.99997

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3991	1	0.65	37	1,443	726	0.051	39.00	1.99	1.000	0.99996
3992	1	0.53	22	714	166	0.133	32.45	4.30	1.000	0.99990
4091	3	8.56	19	1,718	1,148	0.017	90.42	1.50	1.000	0.99997
4092	3	5.18	3	311	434	0.007	103.67	0.72	1.000	0.99998
4101	1	0.60	1	36	588	0.002	36.00	0.06	1.000	0.99999
4134	2	1.77	16	1,268	835	0.019	79.25	1.52	1.000	0.99997
4136	1	2.57	1	154	669	0.001	154.00	0.23	1.000	0.99999
4137	1	2.58	1	155	794	0.001	155.00	0.20	1.000	0.99999
4138	2	2.18	46	2,692	745	0.062	58.52	3.61	1.000	0.99992
4141	1	1.55	1	93	82	0.012	93.00	1.13	1.000	0.99997
4142	2	1.39	50	2,038	597	0.084	40.76	3.41	1.020	0.99992
4151	1	1.35	852	69,012	1,246	0.684	81.00	55.39	1.000	0.99876
4154	2	2.35	134	11,737	1,209	0.111	87.59	9.71	1.000	0.99978
4155	1	2.00	8	960	2,133	0.004	120.00	0.45	1.000	0.99999
4172	2	2.33	1,726	98,662	1,724	1.001	57.16	57.23	1.002	0.99872
4173	1	0.57	1,780	61,831	634	2.808	34.74	97.53	1.000	0.99782
4181	1	3.17	1	190	492	0.002	190.00	0.39	1.000	0.99999
4212	4	7.90	38	4,449	818	0.046	117.08	5.44	1.027	0.99988
4223	1	1.05	1	63	826	0.001	63.00	0.08	1.000	0.99999
4224	3	2.65	65	3,234	753	0.086	49.75	4.29	1.102	0.99990
4311	1	2.35	1	141	791	0.001	141.00	0.18	1.000	0.99999
4324	2	0.71	2	43	1,253	0.002	21.50	0.03	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4341	1	0.58	27	964	1,783	0.015	35.70	0.54	1.000	0.99999
4343	5	3.74	20	1,096	1,025	0.020	54.80	1.07	1.111	0.99998
4362	1	0.80	1	48	828	0.001	48.00	0.06	1.000	0.99999
4363	1	0.43	26	682	1,662	0.016	26.23	0.41	1.000	0.99999
4371	1	1.60	1	96	1,543	0.001	96.00	0.06	1.000	0.99999
4372	1	1.62	7	685	440	0.016	97.86	1.56	1.000	0.99997
4373	1	1.02	1	61	776	0.001	61.00	0.08	1.000	0.99999
4431	1	0.75	1	45	1,386	0.001	45.00	0.03	1.000	0.99999
4432	6	7.65	71	5,941	462	0.154	83.68	12.86	1.000	0.99971
4602	2	4.99	69	6,162	948	0.073	89.30	6.50	1.000	0.99985
4714	1	0.77	1	46	329	0.003	46.00	0.14	1.000	0.99999
5603	2	1.50	28	1,550	1,288	0.022	55.36	1.20	1.000	0.99997
5902	1	2.15	13	1,678	1,012	0.013	129.08	1.66	1.000	0.99996
5905	5	10.52	61	5,039	1,875	0.033	82.61	2.69	1.017	0.99994
6021	2	1.68	69	3,939	1,275	0.054	57.09	3.09	1.015	0.99993
6024	1	5.43	1	326	393	0.003	326.00	0.83	1.000	0.99998
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	214	298.40	9,297	564,331	164,879	0.056	60.70	3.42	1.016	0.99992

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI

1/1/2017 to 1/31/2017

EXCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1050	3	7.21	145	21,899	1,597	0.091	151.03	13.71	1.051	0.99969
1052	1	5.65	1	339	1,162	0.001	339.00	0.29	1.000	0.99999
1082	5	5.13	5	308	1,330	0.004	61.60	0.23	1.000	0.99999
1091	3	3.27	3	196	716	0.004	65.33	0.27	1.000	0.99999
1094	1	1.08	23	1,501	1,237	0.019	65.26	1.21	1.000	0.99997
1211	7	10.61	73	6,614	1,479	0.049	90.60	4.47	3.174	0.99990
1212	1	1.32	3	237	332	0.009	79.00	0.71	1.000	0.99998
1213	2	1.90	2	114	554	0.004	57.00	0.21	1.000	0.99999
1230	1	3.35	70	14,072	1,179	0.059	201.03	11.94	1.000	0.99973
1232	1	0.82	13	640	1,183	0.011	49.23	0.54	1.000	0.99999
1241	1	0.57	7	238	853	0.008	34.00	0.28	1.000	0.99999
1261	1	0.62	1	37	397	0.003	37.00	0.09	1.000	0.99999
1263	1	2.07	1	124	1,132	0.001	124.00	0.11	1.000	0.99999
1265	1	0.65	1	39	1,282	0.001	39.00	0.03	1.000	0.99999
1273	4	2.35	4	141	865	0.005	35.25	0.16	1.000	0.99999
1282	1	0.62	93	3,524	1,035	0.090	37.89	3.40	1.000	0.99992
1284	3	3.52	116	7,271	948	0.122	62.68	7.67	1.303	0.99983

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1312	1	1.32	1	79	934	0.001	79.00	0.08	1.000	0.99999
1454	1	0.92	1	55	935	0.001	55.00	0.06	1.000	0.99999
1455	1	2.25	1	135	389	0.003	135.00	0.35	1.000	0.99999
1523	2	1.93	9	662	723	0.012	73.56	0.92	1.000	0.99998
1842	1	1.45	1	87	280	0.004	87.00	0.31	1.000	0.99999
1843	2	2.12	26	1,665	1,085	0.024	64.04	1.53	1.000	0.99997
2091	1	2.07	1	124	879	0.001	124.00	0.14	1.000	0.99999
2171	1	0.80	1	48	564	0.002	48.00	0.09	1.000	0.99999
2211	6	6.39	6	383	723	0.008	63.83	0.53	1.000	0.99999
2511	3	7.34	660	67,901	618	1.068	102.88	109.87	1.068	0.99754
2621	3	4.47	14	1,670	1,166	0.012	119.29	1.43	1.077	0.99997
2921	11	22.78	92	11,348	375	0.245	123.35	30.26	1.057	0.99932
2951	2	1.94	26	1,520	1,395	0.019	58.46	1.09	1.000	0.99998
2961	1	0.40	1	24	648	0.002	24.00	0.04	1.000	0.99999
3122	2	3.22	4	537	849	0.005	134.25	0.63	1.000	0.99999
3181	1	1.37	55	4,535	724	0.076	82.45	6.26	1.000	0.99986
3232	1	0.98	1	59	431	0.002	59.00	0.14	1.000	0.99999
3314	2	3.91	220	29,527	222	0.991	134.21	133.00	1.005	0.99702
3315	1	0.88	13	695	1,578	0.008	53.46	0.44	1.000	0.99999
3422	3	9.55	8	1,677	971	0.008	209.63	1.73	1.000	0.99996
3423	1	1.12	1	67	386	0.003	67.00	0.17	1.000	0.99999
3472	2	1.21	4	115	1,579	0.003	28.75	0.07	1.333	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3553	2	2.24	33	1,298	1,041	0.032	39.33	1.25	1.000	0.99997
3592	1	0.88	1	53	1,741	0.001	53.00	0.03	1.000	0.99999
3621	1	0.68	1	41	1,558	0.001	41.00	0.03	1.000	0.99999
3661	3	3.18	12	887	1,027	0.012	73.92	0.86	1.000	0.99998
3662	2	1.80	779	3,968	778	1.001	5.09	5.10	1.001	0.99989
3663	1	0.93	1	56	795	0.001	56.00	0.07	1.000	0.99999
3673	1	0.80	10	486	267	0.037	48.60	1.82	1.000	0.99996
3691	1	1.32	49	3,905	1,163	0.042	79.69	3.36	1.000	0.99992
3692	1	2.35	19	2,681	410	0.046	141.11	6.54	1.000	0.99985
3694	2	5.12	11	2,528	1,328	0.008	229.82	1.90	1.000	0.99996
3702	1	0.87	1	52	611	0.002	52.00	0.09	1.000	0.99999
3751	20	17.66	373	20,636	881	0.423	55.32	23.42	1.028	0.99948
3872	1	0.78	1	47	1,067	0.001	47.00	0.04	1.000	0.99999
3893	4	5.63	53	4,572	1,111	0.048	86.26	4.12	1.019	0.99991
3901	1	1.13	45	3,069	877	0.051	68.20	3.50	1.000	0.99992
3912	1	5.90	9	3,186	1,160	0.008	354.00	2.75	1.000	0.99994
3913	2	2.31	809	33,284	809	1.000	41.14	41.14	1.002	0.99908
3951	3	5.45	87	7,621	928	0.094	87.60	8.21	1.024	0.99982
3952	3	4.98	16	2,517	1,273	0.013	157.31	1.98	1.143	0.99996
3953	4	2.66	4	160	522	0.008	40.00	0.31	2.000	0.99999
3981	2	2.18	21	1,371	1,503	0.014	65.29	0.91	1.000	0.99998
3982	2	1.17	53	2,404	1,765	0.030	45.36	1.36	1.000	0.99997

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3991	1	0.65	37	1,443	726	0.051	39.00	1.99	1.000	0.99996
3992	1	0.53	22	714	166	0.133	32.45	4.30	1.000	0.99990
4091	3	8.56	19	1,718	1,148	0.017	90.42	1.50	1.000	0.99997
4092	3	5.18	3	311	434	0.007	103.67	0.72	1.000	0.99998
4101	1	0.60	1	36	588	0.002	36.00	0.06	1.000	0.99999
4134	2	1.77	16	1,268	835	0.019	79.25	1.52	1.000	0.99997
4136	1	2.57	1	154	669	0.001	154.00	0.23	1.000	0.99999
4137	1	2.58	1	155	794	0.001	155.00	0.20	1.000	0.99999
4138	2	2.18	46	2,692	745	0.062	58.52	3.61	1.000	0.99992
4141	1	1.55	1	93	82	0.012	93.00	1.13	1.000	0.99997
4142	2	1.39	50	2,038	597	0.084	40.76	3.41	1.020	0.99992
4151	1	1.35	852	69,012	1,246	0.684	81.00	55.39	1.000	0.99876
4154	2	2.35	134	11,737	1,209	0.111	87.59	9.71	1.000	0.99978
4155	1	2.00	8	960	2,133	0.004	120.00	0.45	1.000	0.99999
4172	2	2.33	1,726	98,662	1,724	1.001	57.16	57.23	1.002	0.99872
4173	1	0.57	1,780	61,831	634	2.808	34.74	97.53	1.000	0.99782
4181	1	3.17	1	190	492	0.002	190.00	0.39	1.000	0.99999
4212	4	7.90	38	4,449	818	0.046	117.08	5.44	1.027	0.99988
4223	1	1.05	1	63	826	0.001	63.00	0.08	1.000	0.99999
4224	3	2.65	65	3,234	753	0.086	49.75	4.29	1.102	0.99990
4311	1	2.35	1	141	791	0.001	141.00	0.18	1.000	0.99999
4324	2	0.71	2	43	1,253	0.002	21.50	0.03	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4341	1	0.58	27	964	1,783	0.015	35.70	0.54	1.000	0.99999
4343	5	3.74	20	1,096	1,025	0.020	54.80	1.07	1.111	0.99998
4362	1	0.80	1	48	828	0.001	48.00	0.06	1.000	0.99999
4363	1	0.43	26	682	1,662	0.016	26.23	0.41	1.000	0.99999
4371	1	1.60	1	96	1,543	0.001	96.00	0.06	1.000	0.99999
4372	1	1.62	7	685	440	0.016	97.86	1.56	1.000	0.99997
4373	1	1.02	1	61	776	0.001	61.00	0.08	1.000	0.99999
4431	1	0.75	1	45	1,386	0.001	45.00	0.03	1.000	0.99999
4432	6	7.65	71	5,941	462	0.154	83.68	12.86	1.000	0.99971
4602	2	4.99	69	6,162	948	0.073	89.30	6.50	1.000	0.99985
4714	1	0.77	1	46	329	0.003	46.00	0.14	1.000	0.99999
5603	2	1.50	28	1,550	1,288	0.022	55.36	1.20	1.000	0.99997
5902	1	2.15	13	1,678	1,012	0.013	129.08	1.66	1.000	0.99996
5905	5	10.52	61	5,039	1,875	0.033	82.61	2.69	1.017	0.99994
6021	2	1.68	69	3,939	1,275	0.054	57.09	3.09	1.015	0.99993
6024	1	5.43	1	326	393	0.003	326.00	0.83	1.000	0.99998
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	214	298.40	9,297	564,331	164,879	0.056	60.70	3.42	1.016	0.99992

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 2/1/2017 to 2/28/2017
 INCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1050	1	1.17	1	70	1,597	0.001	70.00	0.04	1.000	0.99999
1082	1	2.35	1	141	1,330	0.001	141.00	0.11	1.000	0.99999
1091	1	1.50	1	90	716	0.001	90.00	0.13	1.000	0.99999
1092	2	2.53	82	6,265	971	0.084	76.40	6.45	1.079	0.99984
1141	1	1.80	38	4,104	902	0.042	108.00	4.55	1.000	0.99989
1211	2	2.37	2	142	1,479	0.001	71.00	0.10	1.000	0.99999
1241	1	0.98	13	772	853	0.015	59.38	0.91	1.000	0.99998
1243	4	24.95	1,208	95,469	1,199	1.008	79.03	79.62	1.011	0.99803
1271	1	1.28	7	544	962	0.007	77.71	0.57	1.000	0.99999
1284	1	1.02	1	61	948	0.001	61.00	0.06	1.000	0.99999
1285	1	4.08	61	14,993	1,094	0.056	245.79	13.70	1.000	0.99966
1311	1	1.07	1	64	272	0.004	64.00	0.24	1.000	0.99999
1451	2	3.70	296	37,954	526	0.563	128.22	72.16	1.031	0.99821
1453	3	1.85	9	279	1,797	0.005	31.00	0.16	1.286	0.99999
2621	1	0.40	381	9,283	1,166	0.327	24.36	7.96	1.000	0.99980
2961	1	3.50	40	8,438	648	0.062	210.95	13.02	1.000	0.99968
3122	4	4.86	91	7,309	849	0.107	80.32	8.61	1.338	0.99979

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3221	2	3.80	1,242	94,407	1,241	1.001	76.01	76.07	1.001	0.99811
3302	2	1.73	2	104	899	0.002	52.00	0.12	1.000	0.99999
3303	1	0.93	4	225	979	0.004	56.25	0.23	1.000	0.99999
3472	1	0.50	33	998	1,579	0.021	30.24	0.63	1.000	0.99998
3553	2	2.45	2	147	1,041	0.002	73.50	0.14	1.000	0.99999
3592	2	2.83	9	441	1,741	0.005	49.00	0.25	1.125	0.99999
3663	2	1.90	61	3,758	795	0.077	61.61	4.73	1.017	0.99988
3693	1	1.28	26	2,014	186	0.140	77.46	10.83	1.000	0.99973
3751	1	0.62	1	37	881	0.001	37.00	0.04	1.000	0.99999
3872	1	2.65	1	159	1,067	0.001	159.00	0.15	1.000	0.99999
3891	1	2.00	1	120	454	0.002	120.00	0.26	1.000	0.99999
3893	1	1.93	1	116	1,111	0.001	116.00	0.10	1.000	0.99999
3901	1	0.87	1	52	877	0.001	52.00	0.06	1.000	0.99999
3914	1	1.52	84	7,674	373	0.225	91.36	20.57	1.000	0.99949
3951	2	2.87	25	1,832	928	0.027	73.28	1.97	1.042	0.99995
3971	1	0.95	8	463	665	0.012	57.88	0.70	1.000	0.99998
3981	1	0.53	1	32	1,503	0.001	32.00	0.02	1.000	0.99999
3982	3	1.00	113	2,713	1,765	0.064	24.01	1.54	1.009	0.99996
3991	1	1.05	1	63	726	0.001	63.00	0.09	1.000	0.99999
3992	1	1.22	22	1,621	166	0.133	73.68	9.77	1.000	0.99976
4031	1	3.40	1	204	704	0.001	204.00	0.29	1.000	0.99999
4102	2	2.17	93	7,838	903	0.103	84.28	8.68	1.000	0.99978

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4138	1	1.18	1	71	745	0.001	71.00	0.10	1.000	0.99999
4151	4	4.63	39	1,998	1,246	0.031	51.23	1.60	1.026	0.99996
4152	3	1.86	3	112	822	0.004	37.33	0.14	1.000	0.99999
4154	1	3.25	1	195	1,209	0.001	195.00	0.16	1.000	0.99999
4222	1	0.58	1	35	1,044	0.001	35.00	0.03	1.000	0.99999
4302	1	3.60	11	2,379	651	0.017	216.27	3.65	1.000	0.99991
4341	1	0.80	48	2,344	1,783	0.027	48.83	1.31	1.000	0.99997
4361	1	0.65	1	39	797	0.001	39.00	0.05	1.000	0.99999
4362	1	0.57	55	1,903	828	0.066	34.60	2.30	1.000	0.99994
4363	1	0.72	21	903	1,662	0.013	43.00	0.54	1.000	0.99999
4371	1	0.60	1	36	1,543	0.001	36.00	0.02	1.000	0.99999
4373	1	1.03	48	3,012	776	0.062	62.75	3.88	1.000	0.99990
4385	1	1.07	1	64	1,122	0.001	64.00	0.06	1.000	0.99999
4386	2	4.47	289	42,868	1,653	0.175	148.33	25.93	1.003	0.99936
4431	1	0.98	1	59	1,386	0.001	59.00	0.04	1.000	0.99999
4602	3	2.63	193	10,353	948	0.204	53.64	10.92	1.000	0.99973
5601	1	2.27	3	410	1,164	0.003	136.67	0.35	1.000	0.99999
5602	1	2.67	3	480	681	0.004	160.00	0.70	1.000	0.99998
5603	4	6.38	20	866	1,288	0.016	43.30	0.67	1.000	0.99998
5904	1	1.35	41	3,349	1,223	0.034	81.68	2.74	1.000	0.99993
5905	3	3.12	3	187	1,875	0.002	62.33	0.10	1.000	0.99999
6021	2	2.10	6	319	1,275	0.005	53.17	0.25	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	95	144.12	4,755	382,978	164,879	0.029	80.54	2.32	1.013	0.99994

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 2/1/2017 to 2/28/2017
 EXCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1050	1	1.17	1	70	1,597	0.001	70.00	0.04	1.000	0.99999
1082	1	2.35	1	141	1,330	0.001	141.00	0.11	1.000	0.99999
1091	1	1.50	1	90	716	0.001	90.00	0.13	1.000	0.99999
1092	2	2.53	82	6,265	971	0.084	76.40	6.45	1.079	0.99984
1141	1	1.80	38	4,104	902	0.042	108.00	4.55	1.000	0.99989
1211	2	2.37	2	142	1,479	0.001	71.00	0.10	1.000	0.99999
1241	1	0.98	13	772	853	0.015	59.38	0.91	1.000	0.99998
1243	4	24.95	1,208	95,469	1,199	1.008	79.03	79.62	1.011	0.99803
1271	1	1.28	7	544	962	0.007	77.71	0.57	1.000	0.99999
1284	1	1.02	1	61	948	0.001	61.00	0.06	1.000	0.99999
1285	1	4.08	61	14,993	1,094	0.056	245.79	13.70	1.000	0.99966
1311	1	1.07	1	64	272	0.004	64.00	0.24	1.000	0.99999
1451	2	3.70	296	37,954	526	0.563	128.22	72.16	1.031	0.99821
1453	3	1.85	9	279	1,797	0.005	31.00	0.16	1.286	0.99999
2621	1	0.40	381	9,283	1,166	0.327	24.36	7.96	1.000	0.99980
2961	1	3.50	40	8,438	648	0.062	210.95	13.02	1.000	0.99968
3122	4	4.86	91	7,309	849	0.107	80.32	8.61	1.338	0.99979

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3221	2	3.80	1,242	94,407	1,241	1.001	76.01	76.07	1.001	0.99811
3302	2	1.73	2	104	899	0.002	52.00	0.12	1.000	0.99999
3303	1	0.93	4	225	979	0.004	56.25	0.23	1.000	0.99999
3472	1	0.50	33	998	1,579	0.021	30.24	0.63	1.000	0.99998
3553	2	2.45	2	147	1,041	0.002	73.50	0.14	1.000	0.99999
3592	2	2.83	9	441	1,741	0.005	49.00	0.25	1.125	0.99999
3663	2	1.90	61	3,758	795	0.077	61.61	4.73	1.017	0.99988
3693	1	1.28	26	2,014	186	0.140	77.46	10.83	1.000	0.99973
3751	1	0.62	1	37	881	0.001	37.00	0.04	1.000	0.99999
3872	1	2.65	1	159	1,067	0.001	159.00	0.15	1.000	0.99999
3891	1	2.00	1	120	454	0.002	120.00	0.26	1.000	0.99999
3893	1	1.93	1	116	1,111	0.001	116.00	0.10	1.000	0.99999
3901	1	0.87	1	52	877	0.001	52.00	0.06	1.000	0.99999
3914	1	1.52	84	7,674	373	0.225	91.36	20.57	1.000	0.99949
3951	2	2.87	25	1,832	928	0.027	73.28	1.97	1.042	0.99995
3971	1	0.95	8	463	665	0.012	57.88	0.70	1.000	0.99998
3981	1	0.53	1	32	1,503	0.001	32.00	0.02	1.000	0.99999
3982	3	1.00	113	2,713	1,765	0.064	24.01	1.54	1.009	0.99996
3991	1	1.05	1	63	726	0.001	63.00	0.09	1.000	0.99999
3992	1	1.22	22	1,621	166	0.133	73.68	9.77	1.000	0.99976
4031	1	3.40	1	204	704	0.001	204.00	0.29	1.000	0.99999
4102	2	2.17	93	7,838	903	0.103	84.28	8.68	1.000	0.99978

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4138	1	1.18	1	71	745	0.001	71.00	0.10	1.000	0.99999
4151	4	4.63	39	1,998	1,246	0.031	51.23	1.60	1.026	0.99996
4152	3	1.86	3	112	822	0.004	37.33	0.14	1.000	0.99999
4154	1	3.25	1	195	1,209	0.001	195.00	0.16	1.000	0.99999
4222	1	0.58	1	35	1,044	0.001	35.00	0.03	1.000	0.99999
4302	1	3.60	11	2,379	651	0.017	216.27	3.65	1.000	0.99991
4341	1	0.80	48	2,344	1,783	0.027	48.83	1.31	1.000	0.99997
4361	1	0.65	1	39	797	0.001	39.00	0.05	1.000	0.99999
4362	1	0.57	55	1,903	828	0.066	34.60	2.30	1.000	0.99994
4363	1	0.72	21	903	1,662	0.013	43.00	0.54	1.000	0.99999
4371	1	0.60	1	36	1,543	0.001	36.00	0.02	1.000	0.99999
4373	1	1.03	48	3,012	776	0.062	62.75	3.88	1.000	0.99990
4385	1	1.07	1	64	1,122	0.001	64.00	0.06	1.000	0.99999
4386	2	4.47	289	42,868	1,653	0.175	148.33	25.93	1.003	0.99936
4431	1	0.98	1	59	1,386	0.001	59.00	0.04	1.000	0.99999
4602	3	2.63	193	10,353	948	0.204	53.64	10.92	1.000	0.99973
5601	1	2.27	3	410	1,164	0.003	136.67	0.35	1.000	0.99999
5602	1	2.67	3	480	681	0.004	160.00	0.70	1.000	0.99998
5603	4	6.38	20	866	1,288	0.016	43.30	0.67	1.000	0.99998
5904	1	1.35	41	3,349	1,223	0.034	81.68	2.74	1.000	0.99993
5905	3	3.12	3	187	1,875	0.002	62.33	0.10	1.000	0.99999
6021	2	2.10	6	319	1,275	0.005	53.17	0.25	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	95	144.12	4,755	382,978	164,879	0.029	80.54	2.32	1.013	0.99994

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 3/1/2017 to 3/31/2017
 INCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1052	4	7.42	1,209	303,606	1,160	1.042	251.12	261.73	1.043	0.99414
1082	7	7.13	250	23,404	1,330	0.188	93.62	17.60	1.068	0.99961
1091	2	2.26	717	25,161	704	1.018	35.09	35.74	1.001	0.99920
1092	1	0.72	7	301	971	0.007	43.00	0.31	1.000	0.99999
1093	1	1.63	1	98	239	0.004	98.00	0.41	1.000	0.99999
1101	3	8.42	82	16,046	570	0.144	195.68	28.15	1.025	0.99937
1102	3	1.63	495	10,801	465	1.065	21.82	23.23	1.065	0.99948
1141	1	1.25	1	75	902	0.001	75.00	0.08	1.000	0.99999
1142	1	1.05	1	63	214	0.005	63.00	0.29	1.000	0.99999
1211	3	4.41	3	265	1,479	0.002	88.33	0.18	1.000	0.99999
1212	3	5.34	7	679	332	0.021	97.00	2.05	1.000	0.99995
1213	1	1.38	1	83	554	0.002	83.00	0.15	1.000	0.99999
1232	2	4.12	48	5,729	1,183	0.041	119.35	4.84	1.000	0.99989
1241	4	11.77	60	11,178	853	0.070	186.30	13.10	1.395	0.99971
1242	2	3.51	36	3,210	680	0.053	89.17	4.72	1.000	0.99989
1263	1	2.87	7	1,209	1,135	0.006	172.71	1.07	1.000	0.99998
1264	1	1.00	1	60	18	0.056	60.00	3.33	1.000	0.99993

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1282	1	7.00	1	420	864	0.001	420.00	0.49	1.000	0.99999
1283	1	0.78	1	47	370	0.003	47.00	0.13	1.000	0.99999
1284	1	0.83	1	50	948	0.001	50.00	0.05	1.000	0.99999
1285	1	4.93	180	53,376	1,094	0.165	296.53	48.79	1.000	0.99891
1311	5	4.11	5	247	272	0.018	49.40	0.91	1.000	0.99998
1453	1	0.68	43	1,763	1,797	0.024	41.00	0.98	1.000	0.99998
1521	1	1.20	1	72	361	0.003	72.00	0.20	1.000	0.99999
1522	1	2.97	1	178	102	0.010	178.00	1.75	1.000	0.99996
1523	6	19.70	14	1,916	723	0.019	136.86	2.65	1.000	0.99994
1841	1	0.83	1	50	650	0.002	50.00	0.08	1.000	0.99999
2051	2	2.48	2	149	165	0.012	74.50	0.90	1.000	0.99998
2172	1	3.18	1	191	224	0.004	191.00	0.85	1.000	0.99998
2211	2	2.25	743	40,340	723	1.028	54.29	55.80	1.028	0.99875
2212	3	6.00	1,288	19,571	1,295	0.995	15.19	15.11	1.002	0.99966
2492	1	1.25	29	2,191	29	1.000	75.55	75.55	1.000	0.99831
2511	2	2.30	619	39,596	618	1.002	63.97	64.07	1.002	0.99856
2621	3	5.42	25	2,463	1,166	0.021	98.52	2.11	1.000	0.99995
2622	2	5.40	14	2,280	113	0.124	162.86	20.18	1.000	0.99955
2921	1	1.57	375	35,468	375	1.000	94.58	94.58	1.000	0.99788
2951	2	3.17	14	1,346	1,395	0.010	96.14	0.96	1.000	0.99998
2961	2	2.92	653	72,849	648	1.008	111.56	112.42	1.014	0.99748
2962	1	1.70	257	26,419	257	1.000	102.80	102.80	1.000	0.99770

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3082	5	20.17	353	102,803	322	1.096	291.23	319.26	1.096	0.99285
3121	4	7.29	1,142	162,004	1,131	1.010	141.86	143.24	2.555	0.99679
3122	28	9.99	969	50,362	849	1.141	51.97	59.32	1.141	0.99867
3181	4	12.15	727	109,215	724	1.004	150.23	150.85	1.004	0.99662
3221	3	3.15	150	12,458	1,241	0.121	83.05	10.04	1.007	0.99978
3222	20	28.30	45	3,984	770	0.058	88.53	5.17	1.098	0.99988
3232	1	1.15	12	831	429	0.028	69.25	1.94	1.000	0.99996
3301	1	1.65	196	19,577	196	1.000	99.88	99.88	1.000	0.99776
3302	1	3.57	1	214	899	0.001	214.00	0.24	1.000	0.99999
3311	2	9.53	2	572	534	0.004	286.00	1.07	1.000	0.99998
3315	4	2.86	4	172	1,578	0.003	43.00	0.11	1.000	0.99999
3423	1	1.38	22	1,828	386	0.057	83.09	4.74	1.000	0.99989
3472	1	0.35	1	21	1,580	0.001	21.00	0.01	1.000	0.99999
3591	3	2.99	29	1,101	1,204	0.024	37.97	0.91	1.000	0.99998
3593	2	1.80	10	304	929	0.011	30.40	0.33	1.000	0.99999
3621	2	3.55	2	213	1,555	0.001	106.50	0.14	1.000	0.99999
3661	2	1.78	25	988	1,024	0.024	39.52	0.96	1.000	0.99998
3662	1	1.37	1	82	778	0.001	82.00	0.11	1.000	0.99999
3663	1	0.47	1	28	764	0.001	28.00	0.04	1.000	0.99999
3693	2	4.25	22	1,425	186	0.118	64.77	7.66	1.000	0.99983
3701	1	0.47	53	1,495	484	0.110	28.21	3.09	1.000	0.99993
3702	1	1.10	1	66	611	0.002	66.00	0.11	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3751	1	1.32	29	2,312	882	0.033	79.72	2.62	1.000	0.99994
3871	1	0.42	1	25	1,387	0.001	25.00	0.02	1.000	0.99999
3872	1	0.78	1	47	1,067	0.001	47.00	0.04	1.000	0.99999
3878	1	1.03	2	125	966	0.002	62.50	0.13	1.000	0.99999
3891	1	0.58	1	35	454	0.002	35.00	0.08	1.000	0.99999
3893	6	7.37	82	6,689	1,111	0.074	81.57	6.02	1.262	0.99987
3901	2	4.26	88	18,538	876	0.100	210.66	21.16	1.011	0.99953
3903	2	2.10	2	126	298	0.007	63.00	0.42	1.000	0.99999
3912	2	6.20	1,112	217,228	1,160	0.959	195.35	187.27	1.001	0.99580
3913	1	0.95	1	57	810	0.001	57.00	0.07	1.000	0.99999
3951	5	5.40	88	5,683	928	0.095	64.58	6.12	1.023	0.99986
3952	7	11.81	202	24,806	1,273	0.159	122.80	19.49	1.031	0.99956
3981	7	10.76	1,529	171,231	1,503	1.017	111.99	113.93	1.017	0.99745
3982	4	3.95	3,641	282,482	1,767	2.061	77.58	159.87	2.059	0.99642
3991	23	28.38	108	8,867	726	0.149	82.10	12.21	1.049	0.99973
4031	2	6.62	705	245,052	704	1.001	347.59	348.09	1.001	0.99220
406	1	1.12	1	67	71	0.014	67.00	0.94	1.000	0.99998
4091	2	5.31	34	6,077	1,148	0.030	178.74	5.29	1.000	0.99988
4092	1	3.93	1	236	434	0.002	236.00	0.54	1.000	0.99999
4101	2	4.77	84	16,324	588	0.143	194.33	27.76	1.012	0.99938
4102	2	3.56	2	214	903	0.002	107.00	0.24	1.000	0.99999
4137	1	0.58	1	35	794	0.001	35.00	0.04	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4138	1	0.47	11	313	745	0.015	28.45	0.42	1.000	0.99999
4142	1	1.50	12	1,083	597	0.020	90.25	1.81	1.000	0.99996
4153	1	0.62	13	483	1,284	0.010	37.15	0.38	1.000	0.99999
4154	3	4.24	84	8,927	1,209	0.069	106.27	7.38	1.000	0.99983
4155	1	0.65	9	354	2,133	0.004	39.33	0.17	1.000	0.99999
4172	2	1.19	17	820	1,725	0.010	48.24	0.48	1.063	0.99999
4173	1	0.73	1	44	634	0.002	44.00	0.07	1.000	0.99999
4181	1	1.58	11	1,049	558	0.020	95.36	1.88	1.000	0.99996
4182	2	1.64	24	1,056	957	0.025	44.00	1.10	1.000	0.99998
4211	2	3.55	645	4,199	707	0.912	6.51	5.94	1.002	0.99987
4212	3	2.17	106	6,008	818	0.130	56.68	7.34	1.000	0.99984
4222	3	5.57	3	334	1,044	0.003	111.33	0.32	1.000	0.99999
4303	1	1.85	1	111	982	0.001	111.00	0.11	1.000	0.99999
4311	2	6.72	791	136,697	814	0.972	172.82	167.93	2.585	0.99624
4313	2	4.76	180	25,805	428	0.421	143.36	60.29	1.000	0.99865
432	1	1.10	1	66	89	0.011	66.00	0.74	1.000	0.99998
4324	1	4.30	254	65,722	1,254	0.203	258.75	52.41	1.000	0.99883
4341	1	0.68	38	1,581	1,782	0.021	41.61	0.89	1.000	0.99998
4342	2	3.00	1,856	26,960	1,752	1.059	14.53	15.39	1.059	0.99966
4343	2	2.35	61	5,326	1,025	0.060	87.31	5.20	1.017	0.99988
4361	1	0.33	1	20	797	0.001	20.00	0.03	1.000	0.99999
4363	20	36.01	488	236,545	1,676	0.291	484.72	141.14	1.049	0.99684

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4371	5	7.89	56	4,834	1,543	0.036	86.32	3.13	1.000	0.99993
4373	5	8.12	784	101,229	776	1.010	129.12	130.45	1.009	0.99708
4431	3	4.28	39	2,697	1,386	0.028	69.15	1.95	1.000	0.99996
4432	2	2.63	2	158	462	0.004	79.00	0.34	1.000	0.99999
4476	1	1.57	1	94	32	0.031	94.00	2.94	1.000	0.99993
4511	3	2.89	1,220	127,229	1,132	1.078	104.29	112.39	1.078	0.99748
4513	2	15.83	682	84,483	682	1.000	123.88	123.88	1.006	0.99723
455	1	1.83	1	110	168	0.006	110.00	0.65	1.000	0.99999
4601	1	1.65	1	99	414	0.002	99.00	0.24	1.000	0.99999
4602	1	1.05	42	2,679	948	0.044	63.79	2.83	1.000	0.99994
5601	3	3.36	17	1,119	1,164	0.015	65.82	0.96	1.063	0.99998
5602	1	2.03	1	122	681	0.001	122.00	0.18	1.000	0.99999
5603	4	3.17	4	190	1,289	0.003	47.50	0.15	1.000	0.99999
5902	2	1.75	28	1,512	1,012	0.028	54.00	1.49	1.000	0.99997
5905	2	3.33	2	200	1,876	0.001	100.00	0.11	1.000	0.99999
6021	1	1.35	1	81	1,275	0.001	81.00	0.06	1.000	0.99999
6022	1	1.23	51	3,820	490	0.104	74.90	7.80	1.000	0.99983
6023	1	0.72	1	43	128	0.008	43.00	0.34	1.000	0.99999
6024	2	1.76	10	338	393	0.025	33.80	0.86	1.000	0.99998
6141	6	12.48	25	3,575	636	0.039	143.00	5.62	1.042	0.99987
6393	1	1.42	1	85	2	0.500	85.00	42.50	1.000	0.99905

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	348	542.45	26,253	3,037,149	164,503	0.160	115.69	18.46	1.149	0.99959

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 3/1/2017 to 3/31/2017
 EXCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1052	4	7.42	1,209	303,606	1,160	1.042	251.12	261.73	1.043	0.99414
1082	7	7.13	250	23,404	1,330	0.188	93.62	17.60	1.068	0.99961
1091	2	2.26	717	25,161	704	1.018	35.09	35.74	1.001	0.99920
1092	1	0.72	7	301	971	0.007	43.00	0.31	1.000	0.99999
1093	1	1.63	1	98	239	0.004	98.00	0.41	1.000	0.99999
1101	3	8.42	82	16,046	570	0.144	195.68	28.15	1.025	0.99937
1102	3	1.63	495	10,801	465	1.065	21.82	23.23	1.065	0.99948
1141	1	1.25	1	75	902	0.001	75.00	0.08	1.000	0.99999
1142	1	1.05	1	63	214	0.005	63.00	0.29	1.000	0.99999
1211	3	4.41	3	265	1,479	0.002	88.33	0.18	1.000	0.99999
1212	3	5.34	7	679	332	0.021	97.00	2.05	1.000	0.99995
1213	1	1.38	1	83	554	0.002	83.00	0.15	1.000	0.99999
1232	2	4.12	48	5,729	1,183	0.041	119.35	4.84	1.000	0.99989
1241	4	11.77	60	11,178	853	0.070	186.30	13.10	1.395	0.99971
1242	2	3.51	36	3,210	680	0.053	89.17	4.72	1.000	0.99989
1263	1	2.87	7	1,209	1,135	0.006	172.71	1.07	1.000	0.99998
1264	1	1.00	1	60	18	0.056	60.00	3.33	1.000	0.99993

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1282	1	7.00	1	420	864	0.001	420.00	0.49	1.000	0.99999
1283	1	0.78	1	47	370	0.003	47.00	0.13	1.000	0.99999
1284	1	0.83	1	50	948	0.001	50.00	0.05	1.000	0.99999
1285	1	4.93	180	53,376	1,094	0.165	296.53	48.79	1.000	0.99891
1311	5	4.11	5	247	272	0.018	49.40	0.91	1.000	0.99998
1453	1	0.68	43	1,763	1,797	0.024	41.00	0.98	1.000	0.99998
1521	1	1.20	1	72	361	0.003	72.00	0.20	1.000	0.99999
1522	1	2.97	1	178	102	0.010	178.00	1.75	1.000	0.99996
1523	6	19.70	14	1,916	723	0.019	136.86	2.65	1.000	0.99994
1841	1	0.83	1	50	650	0.002	50.00	0.08	1.000	0.99999
2051	2	2.48	2	149	165	0.012	74.50	0.90	1.000	0.99998
2172	1	3.18	1	191	224	0.004	191.00	0.85	1.000	0.99998
2211	2	2.25	743	40,340	723	1.028	54.29	55.80	1.028	0.99875
2212	3	6.00	1,288	19,571	1,295	0.995	15.19	15.11	1.002	0.99966
2492	1	1.25	29	2,191	29	1.000	75.55	75.55	1.000	0.99831
2511	2	2.30	619	39,596	618	1.002	63.97	64.07	1.002	0.99856
2621	3	5.42	25	2,463	1,166	0.021	98.52	2.11	1.000	0.99995
2622	2	5.40	14	2,280	113	0.124	162.86	20.18	1.000	0.99955
2921	1	1.57	375	35,468	375	1.000	94.58	94.58	1.000	0.99788
2951	2	3.17	14	1,346	1,395	0.010	96.14	0.96	1.000	0.99998
2961	2	2.92	653	72,849	648	1.008	111.56	112.42	1.014	0.99748
2962	1	1.70	257	26,419	257	1.000	102.80	102.80	1.000	0.99770

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3082	5	20.17	353	102,803	322	1.096	291.23	319.26	1.096	0.99285
3121	4	7.29	1,142	162,004	1,131	1.010	141.86	143.24	2.555	0.99679
3122	28	9.99	969	50,362	849	1.141	51.97	59.32	1.141	0.99867
3181	4	12.15	727	109,215	724	1.004	150.23	150.85	1.004	0.99662
3221	3	3.15	150	12,458	1,241	0.121	83.05	10.04	1.007	0.99978
3222	20	28.30	45	3,984	770	0.058	88.53	5.17	1.098	0.99988
3232	1	1.15	12	831	429	0.028	69.25	1.94	1.000	0.99996
3301	1	1.65	196	19,577	196	1.000	99.88	99.88	1.000	0.99776
3302	1	3.57	1	214	899	0.001	214.00	0.24	1.000	0.99999
3311	2	9.53	2	572	534	0.004	286.00	1.07	1.000	0.99998
3315	4	2.86	4	172	1,578	0.003	43.00	0.11	1.000	0.99999
3423	1	1.38	22	1,828	386	0.057	83.09	4.74	1.000	0.99989
3472	1	0.35	1	21	1,580	0.001	21.00	0.01	1.000	0.99999
3591	3	2.99	29	1,101	1,204	0.024	37.97	0.91	1.000	0.99998
3593	2	1.80	10	304	929	0.011	30.40	0.33	1.000	0.99999
3621	2	3.55	2	213	1,555	0.001	106.50	0.14	1.000	0.99999
3661	2	1.78	25	988	1,024	0.024	39.52	0.96	1.000	0.99998
3662	1	1.37	1	82	778	0.001	82.00	0.11	1.000	0.99999
3663	1	0.47	1	28	764	0.001	28.00	0.04	1.000	0.99999
3693	2	4.25	22	1,425	186	0.118	64.77	7.66	1.000	0.99983
3701	1	0.47	53	1,495	484	0.110	28.21	3.09	1.000	0.99993
3702	1	1.10	1	66	611	0.002	66.00	0.11	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3751	1	1.32	29	2,312	882	0.033	79.72	2.62	1.000	0.99994
3871	1	0.42	1	25	1,387	0.001	25.00	0.02	1.000	0.99999
3872	1	0.78	1	47	1,067	0.001	47.00	0.04	1.000	0.99999
3878	1	1.03	2	125	966	0.002	62.50	0.13	1.000	0.99999
3891	1	0.58	1	35	454	0.002	35.00	0.08	1.000	0.99999
3893	6	7.37	82	6,689	1,111	0.074	81.57	6.02	1.262	0.99987
3901	2	4.26	88	18,538	876	0.100	210.66	21.16	1.011	0.99953
3903	2	2.10	2	126	298	0.007	63.00	0.42	1.000	0.99999
3912	2	6.20	1,112	217,228	1,160	0.959	195.35	187.27	1.001	0.99580
3913	1	0.95	1	57	810	0.001	57.00	0.07	1.000	0.99999
3951	5	5.40	88	5,683	928	0.095	64.58	6.12	1.023	0.99986
3952	7	11.81	202	24,806	1,273	0.159	122.80	19.49	1.031	0.99956
3981	7	10.76	1,529	171,231	1,503	1.017	111.99	113.93	1.017	0.99745
3982	4	3.95	3,641	282,482	1,767	2.061	77.58	159.87	2.059	0.99642
3991	23	28.38	108	8,867	726	0.149	82.10	12.21	1.049	0.99973
4031	2	6.62	705	245,052	704	1.001	347.59	348.09	1.001	0.99220
406	1	1.12	1	67	71	0.014	67.00	0.94	1.000	0.99998
4091	2	5.31	34	6,077	1,148	0.030	178.74	5.29	1.000	0.99988
4092	1	3.93	1	236	434	0.002	236.00	0.54	1.000	0.99999
4101	2	4.77	84	16,324	588	0.143	194.33	27.76	1.012	0.99938
4102	2	3.56	2	214	903	0.002	107.00	0.24	1.000	0.99999
4137	1	0.58	1	35	794	0.001	35.00	0.04	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4138	1	0.47	11	313	745	0.015	28.45	0.42	1.000	0.99999
4142	1	1.50	12	1,083	597	0.020	90.25	1.81	1.000	0.99996
4153	1	0.62	13	483	1,284	0.010	37.15	0.38	1.000	0.99999
4154	3	4.24	84	8,927	1,209	0.069	106.27	7.38	1.000	0.99983
4155	1	0.65	9	354	2,133	0.004	39.33	0.17	1.000	0.99999
4172	2	1.19	17	820	1,725	0.010	48.24	0.48	1.063	0.99999
4173	1	0.73	1	44	634	0.002	44.00	0.07	1.000	0.99999
4181	1	1.58	11	1,049	558	0.020	95.36	1.88	1.000	0.99996
4182	2	1.64	24	1,056	957	0.025	44.00	1.10	1.000	0.99998
4211	2	3.55	645	4,199	707	0.912	6.51	5.94	1.002	0.99987
4212	3	2.17	106	6,008	818	0.130	56.68	7.34	1.000	0.99984
4222	3	5.57	3	334	1,044	0.003	111.33	0.32	1.000	0.99999
4303	1	1.85	1	111	982	0.001	111.00	0.11	1.000	0.99999
4311	2	6.72	791	136,697	814	0.972	172.82	167.93	2.585	0.99624
4313	2	4.76	180	25,805	428	0.421	143.36	60.29	1.000	0.99865
432	1	1.10	1	66	89	0.011	66.00	0.74	1.000	0.99998
4324	1	4.30	254	65,722	1,254	0.203	258.75	52.41	1.000	0.99883
4341	1	0.68	38	1,581	1,782	0.021	41.61	0.89	1.000	0.99998
4342	2	3.00	1,856	26,960	1,752	1.059	14.53	15.39	1.059	0.99966
4343	2	2.35	61	5,326	1,025	0.060	87.31	5.20	1.017	0.99988
4361	1	0.33	1	20	797	0.001	20.00	0.03	1.000	0.99999
4363	20	36.01	488	236,545	1,676	0.291	484.72	141.14	1.049	0.99684

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4371	5	7.89	56	4,834	1,543	0.036	86.32	3.13	1.000	0.99993
4373	5	8.12	784	101,229	776	1.010	129.12	130.45	1.009	0.99708
4431	3	4.28	39	2,697	1,386	0.028	69.15	1.95	1.000	0.99996
4432	2	2.63	2	158	462	0.004	79.00	0.34	1.000	0.99999
4476	1	1.57	1	94	32	0.031	94.00	2.94	1.000	0.99993
4511	3	2.89	1,220	127,229	1,132	1.078	104.29	112.39	1.078	0.99748
4513	2	15.83	682	84,483	682	1.000	123.88	123.88	1.006	0.99723
455	1	1.83	1	110	168	0.006	110.00	0.65	1.000	0.99999
4601	1	1.65	1	99	414	0.002	99.00	0.24	1.000	0.99999
4602	1	1.05	42	2,679	948	0.044	63.79	2.83	1.000	0.99994
5601	3	3.36	17	1,119	1,164	0.015	65.82	0.96	1.063	0.99998
5602	1	2.03	1	122	681	0.001	122.00	0.18	1.000	0.99999
5603	4	3.17	4	190	1,289	0.003	47.50	0.15	1.000	0.99999
5902	2	1.75	28	1,512	1,012	0.028	54.00	1.49	1.000	0.99997
5905	2	3.33	2	200	1,876	0.001	100.00	0.11	1.000	0.99999
6021	1	1.35	1	81	1,275	0.001	81.00	0.06	1.000	0.99999
6022	1	1.23	51	3,820	490	0.104	74.90	7.80	1.000	0.99983
6023	1	0.72	1	43	128	0.008	43.00	0.34	1.000	0.99999
6024	2	1.76	10	338	393	0.025	33.80	0.86	1.000	0.99998
6141	6	12.48	25	3,575	636	0.039	143.00	5.62	1.042	0.99987
6393	1	1.42	1	85	2	0.500	85.00	42.50	1.000	0.99905

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	348	542.45	26,253	3,037,149	164,503	0.160	115.69	18.46	1.149	0.99959

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 4/1/2017 to 4/30/2017
 INCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1050	4	6.31	13	1,462	1,597	0.008	112.46	0.92	1.000	0.99998
1082	6	14.01	22	3,006	1,330	0.017	136.64	2.26	1.100	0.99995
1092	7	14.93	977	35,848	971	1.006	36.69	36.92	1.006	0.99915
1093	1	0.52	28	880	239	0.117	31.43	3.68	1.000	0.99991
1141	2	4.82	2	289	902	0.002	144.50	0.32	1.000	0.99999
1142	1	1.22	1	73	214	0.005	73.00	0.34	1.000	0.99999
1211	5	5.65	5	339	1,479	0.003	67.80	0.23	1.250	0.99999
1212	1	0.87	3	156	332	0.009	52.00	0.47	1.000	0.99999
1213	4	7.61	61	15,817	554	0.110	259.30	28.55	1.000	0.99934
1230	2	4.45	49	11,231	1,177	0.042	229.20	9.54	1.021	0.99978
1233	1	0.62	640	23,840	640	1.000	37.25	37.25	1.000	0.99914
1241	1	1.00	1	60	853	0.001	60.00	0.07	1.000	0.99999
1242	1	0.52	1	31	680	0.001	31.00	0.05	1.000	0.99999
1243	2	2.26	6	304	1,199	0.005	50.67	0.25	1.000	0.99999
1261	1	1.53	1	92	397	0.003	92.00	0.23	1.000	0.99999
1265	1	3.10	124	23,088	1,282	0.097	186.19	18.01	1.000	0.99958
1271	4	3.85	13	792	962	0.014	60.92	0.82	1.000	0.99998

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1284	1	1.15	65	4,519	948	0.069	69.52	4.77	1.000	0.99989
1285	1	1.77	21	2,226	1,094	0.019	106.00	2.03	1.000	0.99995
1311	1	9.27	116	64,517	272	0.426	556.18	237.19	1.000	0.99451
1312	3	21.51	17	1,806	933	0.018	106.24	1.94	1.000	0.99996
1452	3	5.37	3	322	449	0.007	107.33	0.72	1.000	0.99998
1453	3	1.73	3	104	1,797	0.002	34.67	0.06	1.500	0.99999
1455	1	5.32	1	319	389	0.003	319.00	0.82	1.000	0.99998
1521	2	1.78	72	5,753	361	0.199	79.90	15.94	1.014	0.99963
1523	4	5.04	56	5,943	723	0.077	106.13	8.22	1.098	0.99981
1841	1	0.22	653	8,512	650	1.005	13.04	13.10	1.000	0.99970
1842	4	45.23	284	52,941	281	1.011	186.41	188.40	1.011	0.99564
1843	19	164.22	479	218,789	1,086	0.441	456.76	201.46	1.000	0.99534
2051	6	8.58	21	1,600	165	0.127	76.19	9.70	1.000	0.99978
2052	5	7.07	63	8,190	85	0.741	130.00	96.35	1.033	0.99777
2092	1	1.53	1	92	917	0.001	92.00	0.10	1.000	0.99999
2171	3	3.94	3	236	564	0.005	78.67	0.42	1.000	0.99999
2172	1	1.73	1	104	223	0.004	104.00	0.47	1.000	0.99999
2211	1	0.60	47	1,720	723	0.065	36.60	2.38	1.000	0.99994
2212	1	1.23	1	74	1,294	0.001	74.00	0.06	1.000	0.99999
2501	1	0.90	1	54	84	0.012	54.00	0.64	1.000	0.99999
2511	1	1.63	1	98	618	0.002	98.00	0.16	1.000	0.99999
2621	2	5.24	2	314	1,166	0.002	157.00	0.27	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
2921	1	0.78	1	47	375	0.003	47.00	0.13	1.000	0.99999
2951	7	18.84	56	9,145	1,395	0.040	163.30	6.56	1.120	0.99985
2952	2	2.43	2	146	154	0.013	73.00	0.95	1.000	0.99998
2961	8	69.18	1,323	210,268	648	2.042	158.93	324.49	2.054	0.99249
2962	2	34.95	258	94,005	257	1.004	364.36	365.78	1.004	0.99153
3041	1	0.70	46	1,935	80	0.575	42.07	24.19	1.000	0.99944
3081	1	1.37	1	82	573	0.002	82.00	0.14	1.000	0.99999
3122	6	13.51	39	7,015	849	0.046	179.87	8.26	1.054	0.99981
3123	2	6.47	16	3,332	1,050	0.015	208.25	3.17	1.000	0.99993
3181	2	2.12	2	127	724	0.003	63.50	0.18	1.000	0.99999
3221	8	14.65	3,764	178,545	1,241	3.033	47.43	143.87	3.033	0.99667
3222	4	17.73	1,544	203,536	771	2.003	131.82	263.99	2.003	0.99389
3232	1	1.97	13	1,545	427	0.030	118.85	3.62	1.000	0.99992
3303	2	2.25	58	4,055	979	0.059	69.91	4.14	1.018	0.99990
3311	5	21.58	46	12,861	534	0.086	279.59	24.08	2.000	0.99944
3314	2	1.30	21	452	222	0.095	21.52	2.04	1.050	0.99995
3315	10	30.03	3,385	1,623,948	1,579	2.144	479.75	1028.47	9.124	0.97619
3422	1	0.92	1	55	971	0.001	55.00	0.06	1.000	0.99999
3423	3	3.62	3	217	386	0.008	72.33	0.56	1.000	0.99999
3471	1	0.60	1	36	170	0.006	36.00	0.21	1.000	0.99999
3472	15	82.24	3,169	108,963	1,580	2.006	34.38	68.96	2.008	0.99840
3552	1	1.23	20	1,487	575	0.035	74.35	2.59	1.000	0.99994

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3553	3	4.85	3	291	1,045	0.003	97.00	0.28	1.000	0.99999
3591	2	8.07	26	6,310	1,202	0.022	242.69	5.25	2.000	0.99988
3592	3	5.76	8	867	1,747	0.005	108.38	0.50	1.000	0.99999
3594	5	5.67	21	1,300	680	0.031	61.90	1.91	1.050	0.99996
3621	7	14.61	65	3,164	1,552	0.042	48.68	2.04	1.016	0.99995
3661	2	3.47	9	383	1,022	0.009	42.56	0.37	1.000	0.99999
3662	3	1.97	3	118	779	0.004	39.33	0.15	1.000	0.99999
3663	3	4.08	20	2,227	734	0.027	111.35	3.03	1.111	0.99993
3664	2	1.03	2	62	549	0.004	31.00	0.11	1.000	0.99999
3673	1	4.63	1	278	267	0.004	278.00	1.04	1.000	0.99998
3691	1	2.95	5	885	1,163	0.004	177.00	0.76	1.000	0.99998
3751	8	110.71	46	46,505	882	0.052	1010.98	52.73	1.000	0.99878
3871	3	8.05	3	483	1,387	0.002	161.00	0.35	1.000	0.99999
3872	5	6.36	60	4,540	1,067	0.056	75.67	4.25	2.000	0.99990
3878	9	28.77	64	10,066	792	0.081	157.28	12.71	1.000	0.99971
3891	2	1.19	2	71	455	0.004	35.50	0.16	1.000	0.99999
3892	1	1.35	1	81	503	0.002	81.00	0.16	1.000	0.99999
3893	9	17.74	748	117,837	1,111	0.673	157.54	106.06	1.228	0.99754
3901	7	10.38	11	1,207	874	0.013	109.73	1.38	1.000	0.99997
3903	2	4.12	29	2,530	298	0.097	87.24	8.49	1.036	0.99980
3912	3	8.75	10	1,399	1,160	0.009	139.90	1.21	1.111	0.99997
3913	1	1.57	2	189	810	0.002	94.50	0.23	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3951	6	5.85	896	70,365	929	0.964	78.53	75.74	1.006	0.99825
3952	3	4.88	19	1,154	1,273	0.015	60.74	0.91	1.056	0.99998
3953	3	3.74	3	224	521	0.006	74.67	0.43	1.000	0.99999
3981	26	152.64	1,736	239,675	1,503	1.155	138.06	159.46	1.155	0.99631
3982	11	28.23	3,787	400,839	1,769	2.141	105.85	226.59	2.141	0.99475
3991	11	34.54	70	6,238	726	0.096	89.11	8.59	1.111	0.99980
4031	2	3.80	717	112,207	704	1.018	156.50	159.38	1.018	0.99631
4091	1	1.08	26	1,714	1,148	0.023	65.92	1.49	1.000	0.99997
4092	2	3.51	12	1,291	434	0.028	107.58	2.97	1.000	0.99993
4101	1	3.95	9	2,139	589	0.015	237.67	3.63	1.000	0.99992
4102	1	2.02	1	121	903	0.001	121.00	0.13	1.000	0.99999
4133	1	1.37	18	1,479	640	0.028	82.17	2.31	1.000	0.99995
4136	5	5.45	1,272	131,213	669	1.901	103.15	196.13	2.623	0.99546
4138	4	7.00	55	10,968	745	0.074	199.42	14.72	1.000	0.99966
4142	2	4.90	13	2,194	597	0.022	168.77	3.68	1.000	0.99991
4151	3	5.18	37	1,911	1,246	0.030	51.65	1.53	1.057	0.99996
4152	1	0.55	1	33	820	0.001	33.00	0.04	1.000	0.99999
4153	2	1.78	14	618	1,285	0.011	44.14	0.48	1.000	0.99999
4155	14	20.32	123	12,446	2,133	0.058	101.19	5.83	1.000	0.99986
4172	1	0.30	103	1,874	1,726	0.060	18.19	1.09	1.000	0.99997
4173	3	1.12	6	203	634	0.009	33.83	0.32	1.000	0.99999
4182	2	1.56	2	94	891	0.002	47.00	0.11	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4212	8	13.21	1,281	44,185	819	1.564	34.49	53.95	1.564	0.99875
4222	2	2.75	18	747	1,045	0.017	41.50	0.71	1.059	0.99998
4302	1	2.78	1	167	651	0.002	167.00	0.26	1.000	0.99999
4303	1	6.18	1	371	982	0.001	371.00	0.38	1.000	0.99999
4313	2	2.35	14	599	535	0.026	42.79	1.12	1.000	0.99997
4324	3	4.31	137	14,727	1,255	0.109	107.50	11.73	2.015	0.99973
4332	3	5.86	475	57,067	319	1.489	120.14	178.89	1.489	0.99586
4341	11	19.71	70	7,777	1,781	0.039	111.10	4.37	1.111	0.99990
4342	3	5.67	24	1,499	1,752	0.014	62.46	0.86	1.143	0.99998
4343	3	2.37	145	6,274	1,025	0.141	43.27	6.12	1.007	0.99986
4361	3	4.69	51	2,967	797	0.064	58.18	3.72	1.041	0.99991
4363	5	14.89	25	4,162	1,691	0.015	166.48	2.46	1.087	0.99994
4371	3	3.96	31	3,219	1,543	0.020	103.84	2.09	1.033	0.99995
4372	3	1.68	15	674	440	0.034	44.93	1.53	1.071	0.99996
4373	4	10.69	554	105,842	776	0.714	191.05	136.39	1.086	0.99684
4385	2	3.50	1,117	46,743	1,122	0.996	41.85	41.66	1.001	0.99904
4431	10	11.49	2,812	373,542	1,387	2.027	132.84	269.32	2.032	0.99377
4432	6	26.08	928	124,037	462	2.009	133.66	268.48	2.009	0.99379
4513	1	1.87	1	112	682	0.001	112.00	0.16	1.000	0.99999
4601	4	5.04	101	6,933	414	0.244	68.64	16.75	1.020	0.99961
4602	8	15.26	91	5,775	947	0.096	63.46	6.10	1.058	0.99986
4692	1	4.85	1	291	470	0.002	291.00	0.62	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4714	3	2.99	3	179	328	0.009	59.67	0.55	1.000	0.99999
5601	3	11.53	27	7,838	1,163	0.023	290.30	6.74	1.000	0.99984
5602	3	6.34	3	381	681	0.004	127.00	0.56	1.000	0.99999
5603	7	29.99	82	16,429	1,290	0.064	200.35	12.74	1.038	0.99971
5902	1	1.00	15	900	1,012	0.015	60.00	0.89	1.000	0.99998
5904	2	2.75	2	165	1,223	0.002	82.50	0.13	1.000	0.99999
5905	5	3.41	82	4,321	1,876	0.044	52.70	2.30	1.025	0.99995
6021	1	1.20	1	72	1,275	0.001	72.00	0.06	1.000	0.99999
6022	1	7.25	1	435	490	0.002	435.00	0.89	1.000	0.99998
6141	1	1.47	2	176	636	0.003	88.00	0.28	1.000	0.99999
6142	1	2.28	1	137	309	0.003	137.00	0.44	1.000	0.99999
6144	1	0.53	1	32	317	0.003	32.00	0.10	1.000	0.99999
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	497	1,486.58	35,799	4,995,911	164,936	0.217	139.55	30.29	1.673	0.99930

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 4/1/2017 to 4/30/2017
 EXCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1050	4	6.31	13	1,462	1,597	0.008	112.46	0.92	1.000	0.99998
1082	6	14.01	22	3,006	1,330	0.017	136.64	2.26	1.100	0.99994
1092	6	14.33	6	860	971	0.006	143.33	0.89	1.000	0.99998
1093	1	0.52	28	880	239	0.117	31.43	3.68	1.000	0.99991
1141	2	4.82	2	289	902	0.002	144.50	0.32	1.000	0.99999
1142	1	1.22	1	73	214	0.005	73.00	0.34	1.000	0.99999
1211	5	5.65	5	339	1,479	0.003	67.80	0.23	1.250	0.99999
1212	1	0.87	3	156	332	0.009	52.00	0.47	1.000	0.99999
1213	4	7.61	61	15,817	554	0.110	259.30	28.55	1.000	0.99929
1230	2	4.45	49	11,231	1,177	0.042	229.20	9.54	1.021	0.99976
1233	1	0.62	640	23,840	640	1.000	37.25	37.25	1.000	0.99908
1241	1	1.00	1	60	853	0.001	60.00	0.07	1.000	0.99999
1242	1	0.52	1	31	680	0.001	31.00	0.05	1.000	0.99999
1243	2	2.26	6	304	1,199	0.005	50.67	0.25	1.000	0.99999
1265	1	3.10	124	23,088	1,282	0.097	186.19	18.01	1.000	0.99955
1271	1	1.03	10	623	962	0.010	62.30	0.65	1.000	0.99998
1284	1	1.15	65	4,519	948	0.069	69.52	4.77	1.000	0.99988

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1285	1	1.77	21	2,226	1,094	0.019	106.00	2.03	1.000	0.99995
1312	2	1.78	16	622	933	0.017	38.88	0.67	1.000	0.99998
1452	3	5.37	3	322	449	0.007	107.33	0.72	1.000	0.99998
1453	3	1.73	3	104	1,797	0.002	34.67	0.06	1.500	0.99999
1455	1	5.32	1	319	389	0.003	319.00	0.82	1.000	0.99998
1521	2	1.78	72	5,753	361	0.199	79.90	15.94	1.014	0.99960
1523	2	2.83	54	5,810	723	0.075	107.59	8.04	1.102	0.99980
1842	3	42.25	3	2,535	281	0.011	845.00	9.02	1.000	0.99978
1843	19	164.22	479	218,789	1,086	0.441	456.76	201.46	1.000	0.99500
2051	2	1.75	10	622	165	0.061	62.20	3.77	1.000	0.99991
2052	4	5.65	33	5,614	85	0.388	170.12	66.05	1.031	0.99836
2092	1	1.53	1	92	917	0.001	92.00	0.10	1.000	0.99999
2171	3	3.94	3	236	564	0.005	78.67	0.42	1.000	0.99999
2172	1	1.73	1	104	223	0.004	104.00	0.47	1.000	0.99999
2211	1	0.60	47	1,720	723	0.065	36.60	2.38	1.000	0.99994
2212	1	1.23	1	74	1,294	0.001	74.00	0.06	1.000	0.99999
2501	1	0.90	1	54	84	0.012	54.00	0.64	1.000	0.99998
2511	1	1.63	1	98	618	0.002	98.00	0.16	1.000	0.99999
2621	2	5.24	2	314	1,166	0.002	157.00	0.27	1.000	0.99999
2921	1	0.78	1	47	375	0.003	47.00	0.13	1.000	0.99999
2951	7	18.84	56	9,145	1,395	0.040	163.30	6.56	1.120	0.99984
2952	2	2.43	2	146	154	0.013	73.00	0.95	1.000	0.99998

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
2961	5	61.89	35	13,470	648	0.054	384.86	20.79	1.094	0.99948
2962	1	28.97	1	1,738	257	0.004	1738.00	6.76	1.000	0.99983
3041	1	0.70	46	1,935	80	0.575	42.07	24.19	1.000	0.99940
3081	1	1.37	1	82	573	0.002	82.00	0.14	1.000	0.99999
3122	5	12.68	38	6,965	849	0.045	183.29	8.20	1.056	0.99980
3123	1	1.42	7	600	1,050	0.007	85.71	0.57	1.000	0.99999
3181	2	2.12	2	127	724	0.003	63.50	0.18	1.000	0.99999
3221	7	14.53	2,548	170,033	1,241	2.053	66.73	137.01	2.053	0.99660
3222	2	3.78	772	66,999	771	1.001	86.79	86.90	1.001	0.99784
3232	1	1.97	13	1,545	427	0.030	118.85	3.62	1.000	0.99991
3303	1	1.08	1	65	979	0.001	65.00	0.07	1.000	0.99999
3311	1	0.62	1	37	534	0.002	37.00	0.07	1.000	0.99999
3314	2	1.30	21	452	222	0.095	21.52	2.04	1.050	0.99995
3315	7	9.93	1,738	121,480	1,579	1.101	69.90	76.93	4.685	0.99809
3422	1	0.92	1	55	971	0.001	55.00	0.06	1.000	0.99999
3423	3	3.62	3	217	386	0.008	72.33	0.56	1.000	0.99999
3471	1	0.60	1	36	170	0.006	36.00	0.21	1.000	0.99999
3472	11	42.04	3,165	106,551	1,580	2.003	33.67	67.44	2.006	0.99833
3552	1	1.23	20	1,487	575	0.035	74.35	2.59	1.000	0.99994
3553	3	4.85	3	291	1,045	0.003	97.00	0.28	1.000	0.99999
3591	2	8.07	26	6,310	1,202	0.022	242.69	5.25	2.000	0.99987
3592	3	5.76	8	867	1,747	0.005	108.38	0.50	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3594	4	5.02	20	1,261	680	0.029	63.05	1.85	1.053	0.99995
3621	7	14.61	65	3,164	1,552	0.042	48.68	2.04	1.016	0.99995
3661	2	3.47	9	383	1,022	0.009	42.56	0.37	1.000	0.99999
3662	2	1.45	2	87	779	0.003	43.50	0.11	1.000	0.99999
3663	3	4.08	20	2,227	734	0.027	111.35	3.03	1.111	0.99992
3664	1	0.38	1	23	549	0.002	23.00	0.04	1.000	0.99999
3673	1	4.63	1	278	267	0.004	278.00	1.04	1.000	0.99997
3691	1	2.95	5	885	1,163	0.004	177.00	0.76	1.000	0.99998
3751	8	110.71	46	46,505	882	0.052	1010.98	52.73	1.000	0.99869
3871	1	0.83	1	50	1,387	0.001	50.00	0.04	1.000	0.99999
3872	4	5.01	58	4,378	1,067	0.054	75.48	4.10	2.071	0.99990
3878	2	2.82	41	3,475	792	0.052	84.76	4.39	1.000	0.99989
3891	2	1.19	2	71	455	0.004	35.50	0.16	1.000	0.99999
3892	1	1.35	1	81	503	0.002	81.00	0.16	1.000	0.99999
3893	8	15.67	731	115,716	1,111	0.658	158.30	104.15	1.229	0.99742
3901	1	0.40	1	24	874	0.001	24.00	0.03	1.000	0.99999
3903	1	1.40	28	2,367	298	0.094	84.54	7.94	1.000	0.99980
3913	1	1.57	2	189	810	0.002	94.50	0.23	1.000	0.99999
3951	6	5.85	896	70,365	929	0.964	78.53	75.74	1.006	0.99812
3952	2	2.01	18	982	1,273	0.014	54.56	0.77	1.059	0.99998
3953	3	3.74	3	224	521	0.006	74.67	0.43	1.000	0.99999
3981	9	45.03	65	14,551	1,503	0.043	223.86	9.68	1.083	0.99976

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3982	9	24.70	249	25,163	1,769	0.141	101.06	14.22	1.012	0.99965
3991	10	32.69	49	3,900	726	0.067	79.59	5.37	1.167	0.99987
4031	2	3.80	717	112,207	704	1.018	156.50	159.38	1.018	0.99605
4091	1	1.08	26	1,714	1,148	0.023	65.92	1.49	1.000	0.99996
4092	2	3.51	12	1,291	434	0.028	107.58	2.97	1.000	0.99993
4101	1	3.95	9	2,139	589	0.015	237.67	3.63	1.000	0.99991
4102	1	2.02	1	121	903	0.001	121.00	0.13	1.000	0.99999
4136	2	3.54	669	68,383	669	1.000	102.22	102.22	1.379	0.99746
4138	2	1.28	13	503	745	0.017	38.69	0.68	1.000	0.99998
4142	2	4.90	13	2,194	597	0.022	168.77	3.68	1.000	0.99991
4151	1	0.78	35	1,647	1,246	0.028	47.06	1.32	1.000	0.99997
4153	1	1.08	1	65	1,285	0.001	65.00	0.05	1.000	0.99999
4155	2	1.63	2	98	2,133	0.001	49.00	0.05	1.000	0.99999
4172	1	0.30	103	1,874	1,726	0.060	18.19	1.09	1.000	0.99997
4182	1	0.73	1	44	891	0.001	44.00	0.05	1.000	0.99999
4212	7	11.28	1,274	43,370	819	1.556	34.04	52.95	1.556	0.99869
4222	2	2.75	18	747	1,045	0.017	41.50	0.71	1.059	0.99998
4302	1	2.78	1	167	651	0.002	167.00	0.26	1.000	0.99999
4303	1	6.18	1	371	982	0.001	371.00	0.38	1.000	0.99999
4313	2	2.35	14	599	535	0.026	42.79	1.12	1.000	0.99997
4324	3	4.31	137	14,727	1,255	0.109	107.50	11.73	2.015	0.99971
4332	3	5.86	475	57,067	319	1.489	120.14	178.89	1.489	0.99556

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4341	11	19.71	70	7,777	1,781	0.039	111.10	4.37	1.111	0.99989
4342	1	0.92	21	1,155	1,752	0.012	55.00	0.66	1.000	0.99998
4343	3	2.37	145	6,274	1,025	0.141	43.27	6.12	1.007	0.99985
4361	1	0.92	49	2,741	797	0.061	55.94	3.44	1.000	0.99991
4363	3	6.57	3	394	1,691	0.002	131.33	0.23	1.000	0.99999
4371	3	3.96	31	3,219	1,543	0.020	103.84	2.09	1.033	0.99995
4372	3	1.68	15	674	440	0.034	44.93	1.53	1.071	0.99996
4373	4	10.69	554	105,842	776	0.714	191.05	136.39	1.086	0.99662
4385	1	0.68	1,116	46,574	1,122	0.995	41.73	41.51	1.000	0.99897
4431	5	7.25	1,424	124,347	1,387	1.027	87.32	89.65	1.029	0.99778
4432	4	20.78	465	40,893	462	1.006	87.94	88.51	1.006	0.99780
4513	1	1.87	1	112	682	0.001	112.00	0.16	1.000	0.99999
4601	4	5.04	101	6,933	414	0.244	68.64	16.75	1.020	0.99958
4602	8	15.26	91	5,775	947	0.096	63.46	6.10	1.058	0.99985
4692	1	4.85	1	291	470	0.002	291.00	0.62	1.000	0.99998
4714	2	1.22	2	73	328	0.006	36.50	0.22	1.000	0.99999
5601	3	11.53	27	7,838	1,163	0.023	290.30	6.74	1.000	0.99983
5602	3	6.34	3	381	681	0.004	127.00	0.56	1.000	0.99999
5603	7	29.99	82	16,429	1,290	0.064	200.35	12.74	1.038	0.99968
5902	1	1.00	15	900	1,012	0.015	60.00	0.89	1.000	0.99998
5905	5	3.41	82	4,321	1,876	0.044	52.70	2.30	1.025	0.99994
6021	1	1.20	1	72	1,275	0.001	72.00	0.06	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
6022	1	7.25	1	435	490	0.002	435.00	0.89	1.000	0.99998
6141	1	1.47	2	176	636	0.003	88.00	0.28	1.000	0.99999
6142	1	2.28	1	137	309	0.003	137.00	0.44	1.000	0.99999
6144	1	0.53	1	32	317	0.003	32.00	0.10	1.000	0.99999
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	371	1,076.66	20,439	1,832,138	164,936	0.124	89.64	11.11	1.353	0.99972

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 5/1/2017 to 5/31/2017
 INCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1050	8	13.90	115	9,919	1,597	0.072	86.25	6.21	1.045	0.99986
1051	2	5.65	2	339	1,067	0.002	169.50	0.32	1.000	0.99999
1082	9	16.65	141	18,668	1,330	0.106	132.40	14.04	1.294	0.99969
1092	5	7.58	62	3,478	971	0.064	56.10	3.58	1.192	0.99992
1094	5	6.70	73	5,344	1,237	0.059	73.21	4.32	1.000	0.99990
1141	1	1.05	902	57,637	902	1.000	63.90	63.90	1.000	0.99857
1142	2	6.85	229	18,814	214	1.070	82.16	87.92	1.070	0.99803
1211	3	3.11	29	1,645	1,479	0.020	56.72	1.11	1.000	0.99998
1212	2	1.82	3	165	332	0.009	55.00	0.50	1.000	0.99999
1213	3	2.55	12	735	554	0.022	61.25	1.33	1.091	0.99997
1230	2	2.87	19	2,336	1,177	0.016	122.95	1.98	1.000	0.99996
1232	6	10.67	1,254	52,337	1,183	1.060	41.74	44.24	1.060	0.99901
1233	2	2.07	2	124	640	0.003	62.00	0.19	1.000	0.99999
1241	3	5.79	15	3,561	853	0.018	237.40	4.17	1.000	0.99991
1263	4	5.55	362	35,742	1,138	0.318	98.73	31.41	1.000	0.99930
1265	2	3.50	172	17,819	1,282	0.134	103.60	13.90	1.000	0.99969
1271	5	7.28	17	1,813	962	0.018	106.65	1.88	1.308	0.99996

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1273	5	13.18	14	2,459	865	0.016	175.64	2.84	1.000	0.99994
1282	3	3.59	279	20,088	693	0.403	72.00	28.99	1.000	0.99935
1311	4	11.09	10	1,657	272	0.037	165.70	6.09	1.250	0.99986
1312	10	19.79	1,893	183,101	933	2.029	96.73	196.25	2.029	0.99560
1451	5	7.71	568	56,963	526	1.080	100.29	108.29	1.080	0.99757
1452	2	2.41	450	47,141	449	1.002	104.76	104.99	1.002	0.99765
1453	6	11.75	1,934	191,576	1,797	1.076	99.06	106.61	1.076	0.99761
1454	6	7.97	1,140	109,069	935	1.219	95.67	116.65	1.219	0.99739
1455	3	7.46	391	41,265	389	1.005	105.54	106.08	1.005	0.99762
1521	5	14.32	18	3,195	361	0.050	177.50	8.85	1.059	0.99980
1523	4	3.31	25	1,087	723	0.035	43.48	1.50	1.042	0.99997
1841	2	2.80	2	168	650	0.003	84.00	0.26	1.000	0.99999
1843	8	28.50	67	15,507	1,086	0.062	231.45	14.28	1.047	0.99968
2051	5	18.15	27	7,806	165	0.164	289.11	47.31	1.000	0.99894
2052	9	25.43	179	17,273	85	2.106	96.50	203.21	4.068	0.99545
2091	2	2.37	885	51,799	880	1.006	58.53	58.86	1.006	0.99868
2092	1	1.85	1	111	917	0.001	111.00	0.12	1.000	0.99999
2211	5	12.24	760	325,425	723	1.051	428.19	450.10	1.051	0.98992
2212	2	12.48	1,286	745,020	1,294	0.994	579.33	575.75	1.001	0.98710
2511	4	8.69	8	1,050	618	0.013	131.25	1.70	1.000	0.99996
2621	5	8.93	45	4,467	1,166	0.039	99.27	3.83	1.154	0.99991
2622	1	2.43	7	1,023	113	0.062	146.14	9.05	1.000	0.99980

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
2921	2	2.35	376	21,166	375	1.003	56.29	56.44	1.003	0.99874
2951	6	11.03	55	3,147	1,395	0.039	57.22	2.26	1.100	0.99995
2952	1	1.00	1	60	154	0.006	60.00	0.39	1.000	0.99999
2961	5	4.70	703	36,966	648	1.085	52.58	57.05	1.092	0.99872
2962	1	0.60	257	9,260	257	1.000	36.03	36.03	1.000	0.99919
3082	1	1.37	28	2,310	322	0.087	82.50	7.17	1.000	0.99984
3121	9	16.63	88	12,770	1,131	0.078	145.11	11.29	1.011	0.99975
3122	3	4.63	74	7,624	849	0.087	103.03	8.98	1.721	0.99980
3123	1	3.50	1	210	1,050	0.001	210.00	0.20	1.000	0.99999
3221	5	5.67	73	4,821	1,241	0.059	66.04	3.88	1.043	0.99991
3222	1	1.28	1	77	771	0.001	77.00	0.10	1.000	0.99999
3232	1	2.08	13	1,635	427	0.030	125.77	3.83	1.000	0.99991
3302	1	2.48	23	3,429	899	0.026	149.09	3.81	1.000	0.99991
3303	7	10.24	394	31,123	979	0.402	78.99	31.79	1.018	0.99929
3313	1	3.00	7	1,264	1,336	0.005	180.57	0.95	1.000	0.99998
3314	1	2.28	1	137	222	0.005	137.00	0.62	1.000	0.99999
3315	2	2.53	720	72,716	1,579	0.456	100.99	46.05	1.003	0.99897
3421	1	4.00	1	240	294	0.003	240.00	0.82	1.000	0.99998
3422	5	8.72	51	6,303	971	0.053	123.59	6.49	1.020	0.99985
3471	1	0.92	1	55	170	0.006	55.00	0.32	1.000	0.99999
3472	2	0.90	20	688	1,580	0.013	34.40	0.44	1.053	0.99999
3551	1	1.47	245	21,560	1,031	0.238	88.00	20.91	1.000	0.99953

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3552	3	129.08	50	183,819	575	0.087	3676.38	319.69	1.923	0.99284
3553	3	7.06	3	423	1,045	0.003	141.00	0.40	1.000	0.99999
3591	5	8.93	2,410	276,631	1,202	2.005	114.78	230.14	2.005	0.99484
3592	10	23.36	3,563	430,972	1,747	2.039	120.96	246.69	2.039	0.99447
3593	5	8.13	951	68,027	929	1.024	71.53	73.23	1.024	0.99836
3594	2	7.85	33	11,562	680	0.049	350.36	17.00	1.000	0.99962
3621	6	29.15	125	48,108	1,552	0.081	384.86	31.00	1.016	0.99931
3661	1	1.22	1	73	1,022	0.001	73.00	0.07	1.000	0.99999
3662	6	7.77	44	6,701	779	0.056	152.30	8.60	1.023	0.99981
3663	2	2.14	13	1,196	734	0.018	92.00	1.63	1.083	0.99996
3664	4	2.43	43	1,383	549	0.078	32.16	2.52	1.075	0.99994
3671	3	3.35	57	4,977	503	0.113	87.32	9.89	1.036	0.99978
3672	2	1.31	63	2,630	137	0.460	41.75	19.20	1.000	0.99957
3691	5	10.97	56	5,530	1,163	0.048	98.75	4.75	1.000	0.99989
3692	1	1.85	1	111	410	0.002	111.00	0.27	1.000	0.99999
3694	5	6.16	5	370	1,328	0.004	74.00	0.28	1.000	0.99999
3702	1	0.58	1	35	611	0.002	35.00	0.06	1.000	0.99999
3751	7	8.08	1,507	91,445	882	1.709	60.68	103.68	1.024	0.99768
3871	2	3.32	30	4,854	1,387	0.022	161.80	3.50	1.000	0.99992
3872	3	2.57	26	1,314	1,067	0.024	50.54	1.23	1.000	0.99997
3873	2	2.68	797	84,352	796	1.001	105.84	105.97	1.001	0.99763
3878	4	4.54	38	1,627	792	0.048	42.82	2.05	1.000	0.99995

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3891	4	6.83	16	1,159	455	0.035	72.44	2.55	1.000	0.99994
3893	8	20.68	127	18,693	1,111	0.114	147.19	16.83	1.050	0.99962
3894	1	1.95	116	13,670	116	1.000	117.84	117.84	1.000	0.99736
3901	8	11.97	141	13,484	874	0.161	95.63	15.43	1.060	0.99965
3902	2	3.00	2	180	87	0.023	90.00	2.07	1.000	0.99995
3903	3	8.13	3	488	298	0.010	162.67	1.64	1.000	0.99996
3912	2	4.21	920	48,907	1,160	0.793	53.16	42.16	1.001	0.99906
3913	1	0.53	1	32	810	0.001	32.00	0.04	1.000	0.99999
3914	1	7.15	1	429	373	0.003	429.00	1.15	1.000	0.99997
3951	8	16.52	133	16,005	929	0.143	120.34	17.23	1.039	0.99961
3952	10	17.46	109	12,108	1,273	0.086	111.08	9.51	1.019	0.99979
3953	2	2.56	58	4,003	521	0.111	69.02	7.68	1.018	0.99983
3971	2	3.79	125	13,183	665	0.188	105.46	19.82	1.689	0.99956
3981	17	34.19	236	15,762	1,503	0.157	66.79	10.49	2.314	0.99977
3982	12	21.39	2,111	119,536	1,769	1.193	56.63	67.57	1.193	0.99849
3991	6	11.66	52	5,263	726	0.072	101.21	7.25	1.061	0.99984
4031	2	3.10	3	275	704	0.004	91.67	0.39	1.000	0.99999
4091	3	5.72	65	7,453	1,148	0.057	114.66	6.49	1.000	0.99985
4092	2	3.63	487	64,166	434	1.122	131.76	147.85	1.002	0.99669
4101	8	16.72	143	35,320	589	0.243	246.99	59.97	1.036	0.99866
4132	1	5.05	11	3,341	565	0.019	303.73	5.91	1.000	0.99987
4133	1	0.77	1	46	640	0.002	46.00	0.07	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4134	5	5.42	5	326	835	0.006	65.20	0.39	1.000	0.99999
4136	3	7.79	33	4,283	669	0.049	129.79	6.40	1.065	0.99986
4138	1	1.57	1	94	745	0.001	94.00	0.13	1.000	0.99999
4141	1	1.02	1	61	82	0.012	61.00	0.74	1.000	0.99998
4142	4	3.48	89	6,338	597	0.149	71.21	10.62	1.023	0.99976
4151	4	3.27	172	10,723	1,246	0.138	62.34	8.61	1.012	0.99981
4152	3	6.10	19	1,534	820	0.023	80.74	1.87	1.000	0.99996
4153	6	6.10	88	5,393	1,285	0.068	61.28	4.20	1.000	0.99991
4154	2	1.78	2	107	1,209	0.002	53.50	0.09	1.000	0.99999
4155	3	4.64	51	4,473	2,133	0.024	87.71	2.10	1.085	0.99995
4172	5	2.42	1,745	12,946	1,726	1.011	7.42	7.50	1.012	0.99983
4173	5	7.59	130	13,118	634	0.205	100.91	20.69	1.057	0.99954
4181	1	1.55	9	842	625	0.014	93.56	1.35	1.000	0.99997
4182	4	3.28	56	2,582	891	0.063	46.11	2.90	1.333	0.99994
4211	1	5.78	1	347	707	0.001	347.00	0.49	1.000	0.99999
4212	2	5.97	9	764	819	0.011	84.89	0.93	1.000	0.99998
4222	1	0.28	1	17	1,045	0.001	17.00	0.02	1.000	0.99999
4223	1	1.02	3	183	828	0.004	61.00	0.22	1.000	0.99999
4302	1	1.20	101	7,302	651	0.155	72.30	11.22	1.000	0.99975
4303	3	12.87	586	168,753	982	0.597	287.97	171.85	1.003	0.99615
4311	1	1.42	15	1,288	838	0.018	85.87	1.54	1.000	0.99997
4312	2	0.80	25	640	844	0.030	25.60	0.76	1.000	0.99998

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4313	1	0.50	12	364	535	0.022	30.33	0.68	1.000	0.99998
4324	1	0.83	68	3,366	1,255	0.054	49.50	2.68	1.000	0.99994
4341	8	14.24	44	4,057	1,781	0.025	92.20	2.28	1.100	0.99995
4342	5	6.05	99	5,154	1,752	0.057	52.06	2.94	1.151	0.99993
4343	4	6.43	65	7,001	1,025	0.063	107.71	6.83	1.000	0.99985
4361	2	3.67	2	220	797	0.003	110.00	0.28	1.000	0.99999
4362	1	1.07	36	2,332	828	0.043	64.78	2.82	1.000	0.99994
4363	8	11.90	130	9,827	1,691	0.077	75.59	5.81	1.383	0.99987
4371	7	13.54	44	1,903	1,543	0.029	43.25	1.23	1.023	0.99997
4372	3	3.54	35	2,457	440	0.080	70.20	5.58	1.029	0.99987
4373	4	5.82	788	89,509	776	1.015	113.59	115.35	3.397	0.99742
4385	1	0.52	1	31	1,122	0.001	31.00	0.03	1.000	0.99999
4431	7	15.46	80	4,933	1,387	0.058	61.66	3.56	1.000	0.99992
4432	5	6.98	17	1,708	462	0.037	100.47	3.70	1.000	0.99992
4511	1	3.68	14	3,095	1,131	0.012	221.07	2.74	1.000	0.99994
4601	4	16.11	322	117,732	414	0.778	365.63	284.38	1.006	0.99363
4602	9	30.76	81	19,538	947	0.086	241.21	20.63	1.000	0.99954
4692	3	3.92	88	8,412	470	0.187	95.59	17.90	1.011	0.99960
4714	2	3.90	8	972	328	0.024	121.50	2.96	1.000	0.99993
5601	14	24.83	225	16,148	1,163	0.193	71.77	13.88	1.552	0.99969
5602	7	34.41	740	53,140	681	1.087	71.81	78.03	1.087	0.99825
5603	13	55.93	291	55,974	1,290	0.226	192.35	43.39	1.021	0.99903

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
5641	1	0.33	1	20	322	0.003	20.00	0.06	1.000	0.99999
5901	1	0.27	1	16	678	0.001	16.00	0.02	1.000	0.99999
5902	1	0.55	1	33	1,012	0.001	33.00	0.03	1.000	0.99999
5904	2	1.97	34	2,767	1,223	0.028	81.38	2.26	1.000	0.99995
5905	4	5.37	74	3,000	1,876	0.039	40.54	1.60	1.088	0.99996
6021	2	1.74	15	790	1,275	0.012	52.67	0.62	1.000	0.99999
6022	2	2.13	5	449	490	0.010	89.80	0.92	1.250	0.99998
6024	1	1.05	171	10,912	393	0.435	63.81	27.77	1.000	0.99938
6141	5	7.15	41	3,431	636	0.064	83.68	5.39	1.025	0.99988
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	593	1,270.96	37,884	4,586,335	164,936	0.230	121.06	27.81	1.194	0.99938

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 5/1/2017 to 5/31/2017
 EXCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1050	8	13.90	115	9,919	1,597	0.072	86.25	6.21	1.045	0.99986
1051	2	5.65	2	339	1,067	0.002	169.50	0.32	1.000	0.99999
1082	8	14.13	32	2,164	1,330	0.024	67.63	1.63	1.000	0.99996
1092	3	5.35	9	883	971	0.009	98.11	0.91	1.000	0.99998
1094	5	6.70	73	5,344	1,237	0.059	73.21	4.32	1.000	0.99990
1142	1	5.80	15	5,222	214	0.070	348.13	24.40	1.000	0.99944
1211	3	3.11	29	1,645	1,479	0.020	56.72	1.11	1.036	0.99997
1212	2	1.82	3	165	332	0.009	55.00	0.50	1.000	0.99999
1213	2	1.35	4	157	554	0.007	39.25	0.28	1.000	0.99999
1230	2	2.87	19	2,336	1,177	0.016	122.95	1.98	1.000	0.99995
1232	6	10.67	1,254	52,337	1,183	1.060	41.74	44.24	1.060	0.99898
1233	1	0.15	1	9	640	0.002	9.00	0.01	1.000	0.99999
1241	2	1.34	2	80	853	0.002	40.00	0.09	1.000	0.99999
1263	3	2.92	236	15,925	1,138	0.207	67.48	13.99	1.009	0.99968
1265	1	1.67	115	11,503	1,282	0.090	100.03	8.97	1.000	0.99979
1271	3	3.50	3	210	962	0.003	70.00	0.22	1.000	0.99999
1273	3	5.34	10	1,500	865	0.012	150.00	1.73	1.000	0.99996

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1282	3	3.59	279	20,088	693	0.403	72.00	28.99	1.000	0.99933
1311	2	6.75	8	1,397	272	0.029	174.63	5.14	1.143	0.99988
1312	9	19.29	1,892	183,071	933	2.028	96.76	196.22	2.028	0.99546
1451	5	7.71	568	56,963	526	1.080	100.29	108.29	1.080	0.99749
1452	2	2.41	450	47,141	449	1.002	104.76	104.99	1.002	0.99757
1453	6	11.75	1,934	191,576	1,797	1.076	99.06	106.61	1.076	0.99753
1454	6	7.97	1,140	109,069	935	1.219	95.67	116.65	1.219	0.99730
1455	3	7.46	391	41,265	389	1.005	105.54	106.08	1.005	0.99754
1521	2	3.02	9	846	361	0.025	94.00	2.34	1.125	0.99995
1523	4	3.31	25	1,087	723	0.035	43.48	1.50	1.042	0.99997
1841	2	2.80	2	168	650	0.003	84.00	0.26	1.000	0.99999
1843	7	23.78	66	15,224	1,086	0.061	230.67	14.02	1.031	0.99968
2051	3	4.75	10	813	165	0.061	81.30	4.93	1.000	0.99989
2052	7	12.45	177	16,494	85	2.082	93.19	194.05	4.023	0.99551
2091	1	0.97	880	51,377	880	1.000	58.38	58.38	1.000	0.99865
2092	1	1.85	1	111	917	0.001	111.00	0.12	1.000	0.99999
2211	3	3.30	3	198	723	0.004	66.00	0.27	1.000	0.99999
2511	4	8.69	8	1,050	618	0.013	131.25	1.70	1.000	0.99996
2621	5	8.93	45	4,467	1,166	0.039	99.27	3.83	1.154	0.99991
2622	1	2.43	7	1,023	113	0.062	146.14	9.05	1.000	0.99979
2921	2	2.35	376	21,166	375	1.003	56.29	56.44	1.003	0.99869
2951	5	8.01	54	2,966	1,395	0.039	54.93	2.13	1.080	0.99995

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
2952	1	1.00	1	60	154	0.006	60.00	0.39	1.000	0.99999
2961	5	4.70	703	36,966	648	1.085	52.58	57.05	1.092	0.99868
2962	1	0.60	257	9,260	257	1.000	36.03	36.03	1.000	0.99917
3121	8	13.61	87	12,589	1,131	0.077	144.70	11.13	1.012	0.99974
3122	3	4.63	74	7,624	849	0.087	103.03	8.98	1.721	0.99979
3123	1	3.50	1	210	1,050	0.001	210.00	0.20	1.000	0.99999
3221	4	4.19	72	4,732	1,241	0.058	65.72	3.81	1.029	0.99991
3222	1	1.28	1	77	771	0.001	77.00	0.10	1.000	0.99999
3232	1	2.08	13	1,635	427	0.030	125.77	3.83	1.000	0.99991
3302	1	2.48	23	3,429	899	0.026	149.09	3.81	1.000	0.99991
3303	6	6.96	361	24,611	979	0.369	68.17	25.14	1.014	0.99942
3313	1	3.00	7	1,264	1,336	0.005	180.57	0.95	1.000	0.99998
3314	1	2.28	1	137	222	0.005	137.00	0.62	1.000	0.99999
3315	1	0.85	2	103	1,579	0.001	51.50	0.07	1.000	0.99999
3421	1	4.00	1	240	294	0.003	240.00	0.82	1.000	0.99998
3422	2	3.10	26	2,682	971	0.027	103.15	2.76	1.040	0.99994
3471	1	0.92	1	55	170	0.006	55.00	0.32	1.000	0.99999
3472	2	0.90	20	688	1,580	0.013	34.40	0.44	1.053	0.99999
3551	1	1.47	245	21,560	1,031	0.238	88.00	20.91	1.000	0.99952
3552	3	129.08	50	183,819	575	0.087	3676.38	319.69	1.923	0.99260
3553	2	2.34	2	140	1,045	0.002	70.00	0.13	1.000	0.99999
3591	4	6.26	1,208	83,190	1,202	1.005	68.87	69.21	1.005	0.99840

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3592	6	7.01	1,807	124,691	1,747	1.034	69.00	71.37	1.034	0.99835
3593	5	8.13	951	68,027	929	1.024	71.53	73.23	1.024	0.99830
3594	1	0.62	7	259	680	0.010	37.00	0.38	1.000	0.99999
3621	4	8.77	25	1,501	1,552	0.016	60.04	0.97	1.136	0.99998
3661	1	1.22	1	73	1,022	0.001	73.00	0.07	1.000	0.99999
3662	4	3.33	8	553	779	0.010	69.13	0.71	1.000	0.99998
3663	2	2.14	13	1,196	734	0.018	92.00	1.63	1.083	0.99996
3664	4	2.43	43	1,383	549	0.078	32.16	2.52	1.075	0.99994
3671	2	2.35	56	4,917	503	0.111	87.80	9.78	1.018	0.99977
3672	2	1.31	63	2,630	137	0.460	41.75	19.20	1.000	0.99956
3691	5	10.97	56	5,530	1,163	0.048	98.75	4.75	1.000	0.99989
3692	1	1.85	1	111	410	0.002	111.00	0.27	1.000	0.99999
3694	3	4.71	3	283	1,328	0.002	94.33	0.21	1.000	0.99999
3702	1	0.58	1	35	611	0.002	35.00	0.06	1.000	0.99999
3751	7	8.08	1,507	91,445	882	1.709	60.68	103.68	1.024	0.99760
3871	2	3.32	30	4,854	1,387	0.022	161.80	3.50	1.000	0.99992
3872	3	2.57	26	1,314	1,067	0.024	50.54	1.23	1.000	0.99997
3873	2	2.68	797	84,352	796	1.001	105.84	105.97	1.001	0.99755
3878	4	4.54	38	1,627	792	0.048	42.82	2.05	1.000	0.99995
3891	4	6.83	16	1,159	455	0.035	72.44	2.55	1.000	0.99994
3893	7	19.61	112	17,722	1,111	0.101	158.23	15.95	1.037	0.99963
3901	6	9.31	139	13,324	874	0.159	95.86	15.24	1.061	0.99965

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3903	1	0.53	1	32	298	0.003	32.00	0.11	1.000	0.99999
3912	2	4.21	920	48,907	1,160	0.793	53.16	42.16	1.001	0.99902
3913	1	0.53	1	32	810	0.001	32.00	0.04	1.000	0.99999
3951	8	16.52	133	16,005	929	0.143	120.34	17.23	1.039	0.99960
3952	9	14.44	105	11,383	1,273	0.082	108.41	8.94	1.019	0.99979
3953	2	2.56	58	4,003	521	0.111	69.02	7.68	1.018	0.99982
3971	2	3.79	125	13,183	665	0.188	105.46	19.82	1.689	0.99954
3981	16	33.66	235	15,730	1,503	0.156	66.94	10.47	2.304	0.99976
3982	12	21.39	2,111	119,536	1,769	1.193	56.63	67.57	1.193	0.99844
3991	5	9.89	21	1,949	726	0.029	92.81	2.68	1.105	0.99994
4031	2	3.10	3	275	704	0.004	91.67	0.39	1.000	0.99999
4091	2	2.72	45	3,841	1,148	0.039	85.36	3.35	1.000	0.99992
4092	1	1.45	1	87	434	0.002	87.00	0.20	1.000	0.99999
4101	8	16.72	143	35,320	589	0.243	246.99	59.97	1.036	0.99861
4132	1	5.05	11	3,341	565	0.019	303.73	5.91	1.000	0.99986
4133	1	0.77	1	46	640	0.002	46.00	0.07	1.000	0.99999
4134	5	5.42	5	326	835	0.006	65.20	0.39	1.000	0.99999
4136	2	3.44	32	4,022	669	0.048	125.69	6.01	1.032	0.99986
4138	1	1.57	1	94	745	0.001	94.00	0.13	1.000	0.99999
4141	1	1.02	1	61	82	0.012	61.00	0.74	1.000	0.99998
4142	4	3.48	89	6,338	597	0.149	71.21	10.62	1.023	0.99975
4151	3	1.90	73	2,572	1,246	0.059	35.23	2.06	1.000	0.99995

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4152	3	6.10	19	1,534	820	0.023	80.74	1.87	1.000	0.99996
4153	5	5.05	75	4,571	1,285	0.058	60.95	3.56	1.000	0.99992
4154	1	0.78	1	47	1,209	0.001	47.00	0.04	1.000	0.99999
4155	3	4.64	51	4,473	2,133	0.024	87.71	2.10	1.085	0.99995
4172	5	2.42	1,745	12,946	1,726	1.011	7.42	7.50	1.012	0.99983
4173	5	7.59	130	13,118	634	0.205	100.91	20.69	1.057	0.99952
4182	4	3.28	56	2,582	891	0.063	46.11	2.90	1.333	0.99993
4212	2	5.97	9	764	819	0.011	84.89	0.93	1.000	0.99998
4222	1	0.28	1	17	1,045	0.001	17.00	0.02	1.000	0.99999
4223	1	1.02	3	183	828	0.004	61.00	0.22	1.000	0.99999
4302	1	1.20	101	7,302	651	0.155	72.30	11.22	1.000	0.99974
4303	3	12.87	586	168,753	982	0.597	287.97	171.85	1.003	0.99602
4311	1	1.42	15	1,288	838	0.018	85.87	1.54	1.000	0.99996
4312	2	0.80	25	640	844	0.030	25.60	0.76	1.000	0.99998
4313	1	0.50	12	364	535	0.022	30.33	0.68	1.000	0.99998
4324	1	0.83	68	3,366	1,255	0.054	49.50	2.68	1.000	0.99994
4341	7	10.54	43	3,835	1,781	0.024	89.19	2.15	1.103	0.99995
4342	5	6.05	99	5,154	1,752	0.057	52.06	2.94	1.151	0.99993
4343	4	6.43	65	7,001	1,025	0.063	107.71	6.83	1.000	0.99984
4361	2	3.67	2	220	797	0.003	110.00	0.28	1.000	0.99999
4362	1	1.07	36	2,332	828	0.043	64.78	2.82	1.000	0.99993
4363	8	11.90	130	9,827	1,691	0.077	75.59	5.81	1.383	0.99987

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4371	6	6.82	43	1,500	1,543	0.028	34.88	0.97	1.024	0.99998
4372	2	2.57	16	1,344	440	0.036	84.00	3.05	1.067	0.99993
4373	4	5.82	788	89,509	776	1.015	113.59	115.35	3.397	0.99733
4385	1	0.52	1	31	1,122	0.001	31.00	0.03	1.000	0.99999
4431	6	14.09	60	3,340	1,387	0.043	55.67	2.41	1.034	0.99994
4432	4	5.20	4	312	462	0.009	78.00	0.68	1.000	0.99998
4511	1	3.68	14	3,095	1,131	0.012	221.07	2.74	1.000	0.99994
4601	3	7.91	261	87,679	414	0.630	335.93	211.79	1.008	0.99510
4602	8	15.58	64	4,046	947	0.068	63.22	4.27	1.000	0.99990
4692	3	3.92	88	8,412	470	0.187	95.59	17.90	1.011	0.99959
4714	1	1.85	1	111	328	0.003	111.00	0.34	1.000	0.99999
5601	10	20.61	104	7,794	1,163	0.089	74.94	6.70	1.000	0.99984
5602	7	34.41	740	53,140	681	1.087	71.81	78.03	1.087	0.99819
5603	13	55.93	291	55,974	1,290	0.226	192.35	43.39	1.021	0.99900
5641	1	0.33	1	20	322	0.003	20.00	0.06	1.000	0.99999
5901	1	0.27	1	16	678	0.001	16.00	0.02	1.000	0.99999
5902	1	0.55	1	33	1,012	0.001	33.00	0.03	1.000	0.99999
5904	2	1.97	34	2,767	1,223	0.028	81.38	2.26	1.000	0.99995
5905	4	5.37	74	3,000	1,876	0.039	40.54	1.60	1.088	0.99996
6021	2	1.74	15	790	1,275	0.012	52.67	0.62	1.000	0.99999
6022	2	2.13	5	449	490	0.010	89.80	0.92	1.250	0.99998
6024	1	1.05	171	10,912	393	0.435	63.81	27.77	1.000	0.99936

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
6141	5	7.15	41	3,431	636	0.064	83.68	5.39	1.025	0.99988
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	508	999.47	29,308	2,574,460	164,936	0.178	87.84	15.61	1.116	0.99964

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 6/1/2017 to 6/30/2017
 INCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1050	2	4.22	50	2,507	1,597	0.031	50.14	1.57	1.000	0.99996
1051	4	7.54	4	452	1,067	0.004	113.00	0.42	1.000	0.99999
1052	2	2.33	2	140	1,159	0.002	70.00	0.12	1.000	0.99999
1082	7	7.14	7	428	1,330	0.005	61.14	0.32	1.000	0.99999
1084	2	1.95	2	117	5	0.400	58.50	23.40	2.000	0.99946
1091	2	2.33	60	6,200	692	0.087	103.33	8.96	1.017	0.99979
1092	5	6.30	261	17,730	971	0.269	67.93	18.26	1.088	0.99958
1093	1	2.82	1	169	239	0.004	169.00	0.71	1.000	0.99998
1094	4	4.52	41	1,676	1,237	0.033	40.88	1.35	1.000	0.99997
1103	3	2.55	3	153	979	0.003	51.00	0.16	1.000	0.99999
1141	2	1.18	2	71	902	0.002	35.50	0.08	1.000	0.99999
1211	5	6.39	27	1,492	1,479	0.018	55.26	1.01	1.174	0.99998
1213	5	7.90	33	2,959	554	0.060	89.67	5.34	1.100	0.99988
1232	2	2.84	174	19,449	1,183	0.147	111.78	16.44	1.000	0.99962
1241	1	1.85	1	111	853	0.001	111.00	0.13	1.000	0.99999
1243	1	1.15	1	69	1,199	0.001	69.00	0.06	1.000	0.99999
1261	1	3.60	1	216	397	0.003	216.00	0.54	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1263	1	0.60	34	1,251	1,138	0.030	36.79	1.10	1.000	0.99997
1271	4	4.35	16	849	962	0.017	53.06	0.88	1.143	0.99998
1273	2	2.04	2	122	865	0.002	61.00	0.14	1.000	0.99999
1282	4	2.95	272	10,718	693	0.392	39.40	15.47	1.004	0.99964
1284	1	0.90	1	54	948	0.001	54.00	0.06	1.000	0.99999
1285	2	6.63	231	56,498	1,094	0.211	244.58	51.64	1.000	0.99880
1451	1	1.73	4	419	526	0.008	104.75	0.80	1.000	0.99998
1452	1	1.12	1	67	449	0.002	67.00	0.15	1.000	0.99999
1453	2	2.23	27	2,183	1,797	0.015	80.85	1.21	1.000	0.99997
1455	1	3.00	1	180	389	0.003	180.00	0.46	1.000	0.99999
1523	4	6.56	728	65,171	723	1.007	89.52	90.14	1.806	0.99791
1842	1	1.60	1	96	281	0.004	96.00	0.34	1.000	0.99999
1843	4	4.34	15	881	1,086	0.014	58.73	0.81	1.000	0.99998
2052	2	1.78	2	107	85	0.024	53.50	1.26	1.000	0.99997
2092	1	1.23	1	74	917	0.001	74.00	0.08	1.000	0.99999
2171	1	0.67	1	40	564	0.002	40.00	0.07	1.000	0.99999
2211	3	3.16	56	3,216	723	0.077	57.43	4.45	1.018	0.99990
2212	5	7.48	58	4,785	1,294	0.045	82.50	3.70	1.018	0.99991
2621	3	5.94	269	24,891	1,166	0.231	92.53	21.35	1.007	0.99951
2952	1	0.72	26	1,108	154	0.169	42.62	7.19	1.000	0.99983
2961	1	6.82	103	42,157	648	0.159	409.29	65.06	1.000	0.99849
3082	1	1.88	1	113	322	0.003	113.00	0.35	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3122	3	5.37	6	706	849	0.007	117.67	0.83	1.000	0.99998
3123	2	4.70	2	282	1,050	0.002	141.00	0.27	1.000	0.99999
3181	1	1.37	1	82	724	0.001	82.00	0.11	1.000	0.99999
3221	7	11.49	149	13,999	1,241	0.120	93.95	11.28	6.478	0.99974
3222	2	3.71	11	1,408	771	0.014	128.00	1.83	1.000	0.99996
3231	1	1.97	1	118	202	0.005	118.00	0.58	1.000	0.99999
3232	2	2.45	10	609	427	0.023	60.90	1.43	1.111	0.99997
3301	1	1.13	13	892	196	0.066	68.62	4.55	1.000	0.99989
3302	1	1.07	3	194	899	0.003	64.67	0.22	1.000	0.99999
3303	3	3.11	45	2,529	979	0.046	56.20	2.58	1.023	0.99994
3311	1	0.73	533	23,700	534	0.998	44.47	44.38	1.000	0.99897
3312	1	1.02	399	24,718	399	1.000	61.95	61.95	1.000	0.99857
3313	3	2.78	1,353	84,787	1,336	1.013	62.67	63.46	1.013	0.99853
3314	2	1.37	220	9,620	222	0.991	43.73	43.33	1.005	0.99900
3315	3	6.14	1,590	71,937	1,579	1.007	45.24	45.56	1.007	0.99895
3421	1	1.38	1	83	294	0.003	83.00	0.28	1.000	0.99999
3422	4	9.25	35	3,773	971	0.036	107.80	3.89	1.029	0.99991
3423	2	4.20	25	2,690	386	0.065	107.60	6.97	1.042	0.99984
3472	3	2.02	7	221	1,580	0.004	31.57	0.14	1.000	0.99999
3551	3	2.70	86	5,552	1,031	0.083	64.56	5.39	1.012	0.99988
3552	1	0.53	1	32	575	0.002	32.00	0.06	1.000	0.99999
3553	3	3.60	18	1,804	1,045	0.017	100.22	1.73	1.000	0.99996

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3591	1	1.62	1	97	1,202	0.001	97.00	0.08	1.000	0.99999
3592	4	5.04	29	2,794	1,747	0.017	96.34	1.60	1.074	0.99996
3594	10	9.93	47	3,506	680	0.069	74.60	5.16	1.000	0.99988
3621	7	6.64	29	2,160	1,552	0.019	74.48	1.39	1.706	0.99997
3661	3	2.48	89	5,138	1,022	0.087	57.73	5.03	1.000	0.99988
3662	4	5.88	1,429	118,517	779	1.834	82.94	152.14	1.834	0.99648
3663	1	1.07	11	712	734	0.015	64.73	0.97	1.000	0.99998
3664	2	1.29	31	1,252	549	0.056	40.39	2.28	1.033	0.99995
3691	3	4.55	1,165	57,986	1,163	1.002	49.77	49.86	1.002	0.99885
3692	1	1.28	7	544	410	0.017	77.71	1.33	1.000	0.99997
3693	1	1.10	21	1,398	186	0.113	66.57	7.52	1.000	0.99983
3694	2	1.43	12	501	1,328	0.009	41.75	0.38	1.000	0.99999
3701	1	0.42	1	25	485	0.002	25.00	0.05	1.000	0.99999
3702	1	0.57	8	273	611	0.013	34.13	0.45	1.000	0.99999
3751	3	2.75	3	165	882	0.003	55.00	0.19	1.000	0.99999
3871	2	3.28	2	197	1,387	0.001	98.50	0.14	1.000	0.99999
3872	3	2.90	38	3,169	1,067	0.036	83.39	2.97	1.000	0.99993
3873	1	3.02	87	15,691	796	0.109	180.36	19.71	1.000	0.99954
3878	3	2.44	14	860	792	0.018	61.43	1.09	1.000	0.99997
3891	2	4.65	10	1,400	455	0.022	140.00	3.08	1.111	0.99993
3893	7	13.26	17	2,020	1,111	0.015	118.82	1.82	1.000	0.99996
3894	1	0.88	1	53	116	0.009	53.00	0.46	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3901	2	1.34	24	1,035	874	0.027	43.13	1.18	1.000	0.99997
3912	1	1.47	1,121	99,488	1,160	0.966	88.75	85.77	1.000	0.99801
3913	1	0.73	1	44	810	0.001	44.00	0.05	1.000	0.99999
3914	2	5.55	47	4,891	373	0.126	104.06	13.11	1.000	0.99970
3951	3	6.20	27	4,180	929	0.029	154.81	4.50	1.038	0.99990
3952	10	16.91	110	13,594	1,273	0.086	123.58	10.68	1.000	0.99975
3953	2	2.25	2	135	521	0.004	67.50	0.26	1.000	0.99999
3981	9	20.14	930	248,003	1,503	0.619	266.67	165.01	1.080	0.99618
3982	4	9.16	237	25,352	1,769	0.134	106.97	14.33	1.000	0.99967
3991	5	10.51	83	4,944	726	0.114	59.57	6.81	1.051	0.99984
3992	1	1.35	1	81	166	0.006	81.00	0.49	1.000	0.99999
402	1	0.75	1	45	107	0.009	45.00	0.42	1.000	0.99999
4031	4	5.19	65	4,802	704	0.092	73.88	6.82	1.048	0.99984
4091	4	7.10	1,228	123,543	1,148	1.070	100.61	107.62	2.981	0.99751
4092	2	2.87	12	958	434	0.028	79.83	2.21	1.091	0.99995
4102	4	5.05	906	76,131	903	1.003	84.03	84.31	1.003	0.99805
4133	1	0.88	29	1,557	640	0.045	53.69	2.43	1.000	0.99994
4134	1	1.05	73	4,637	835	0.087	63.52	5.55	1.000	0.99987
4137	5	3.93	5	236	794	0.006	47.20	0.30	1.000	0.99999
4138	5	3.15	20	854	745	0.027	42.70	1.15	1.000	0.99997
4151	3	5.08	38	1,884	1,246	0.030	49.58	1.51	1.000	0.99996
4152	2	2.17	3	177	820	0.004	59.00	0.22	1.500	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4153	5	9.03	19	1,402	1,285	0.015	73.79	1.09	1.000	0.99997
4172	1	1.45	4	349	1,726	0.002	87.25	0.20	1.000	0.99999
4173	2	2.73	46	3,877	634	0.073	84.28	6.12	1.000	0.99986
4181	1	0.92	20	1,115	625	0.032	55.75	1.78	1.000	0.99996
4212	1	1.27	30	2,285	819	0.037	76.17	2.79	1.000	0.99994
4223	1	0.60	1	36	828	0.001	36.00	0.04	1.000	0.99999
4303	2	1.67	33	1,141	982	0.034	34.58	1.16	1.031	0.99997
4313	1	1.62	1	97	535	0.002	97.00	0.18	1.000	0.99999
4324	1	1.10	17	1,136	1,255	0.014	66.82	0.91	1.000	0.99998
4332	1	1.48	1	89	319	0.003	89.00	0.28	1.000	0.99999
4333	1	0.47	683	19,124	683	1.000	28.00	28.00	1.000	0.99935
4341	10	12.68	162	10,257	1,781	0.091	63.31	5.76	1.237	0.99987
4342	5	7.03	127	10,555	1,752	0.072	83.11	6.02	1.067	0.99986
4343	2	1.42	5	295	1,025	0.005	59.00	0.29	1.250	0.99999
4363	2	2.45	2	147	1,691	0.001	73.50	0.09	1.000	0.99999
4371	3	3.65	40	2,697	1,543	0.026	67.43	1.75	1.026	0.99996
4372	1	0.63	1	38	440	0.002	38.00	0.09	1.000	0.99999
4373	5	15.04	1,025	118,504	776	1.321	115.61	152.71	1.319	0.99647
4381	1	0.68	1	41	332	0.003	41.00	0.12	1.000	0.99999
4385	2	0.97	2	58	1,122	0.002	29.00	0.05	1.000	0.99999
4431	3	4.49	3	270	1,387	0.002	90.00	0.19	1.000	0.99999
4432	2	3.62	12	1,191	462	0.026	99.25	2.58	1.000	0.99994

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4511	1	0.43	9	242	1,131	0.008	26.89	0.21	1.000	0.99999
455	2	2.77	2	166	168	0.012	83.00	0.99	1.000	0.99998
4602	5	5.61	221	24,008	947	0.233	108.63	25.35	1.052	0.99941
4692	1	30.47	1	1,828	470	0.002	1828.00	3.89	1.000	0.99991
4714	1	1.85	1	111	328	0.003	111.00	0.34	1.000	0.99999
5601	5	3.15	75	3,695	1,163	0.064	49.27	3.18	1.000	0.99993
5603	4	3.12	74	3,670	1,290	0.057	49.59	2.84	1.000	0.99993
5902	2	2.25	29	1,961	1,012	0.029	67.62	1.94	1.000	0.99996
5903	2	7.77	186	24,571	256	0.727	132.10	95.98	1.069	0.99778
5904	4	6.69	70	4,515	1,223	0.057	64.50	3.69	1.014	0.99991
5905	6	4.40	367	16,916	1,876	0.196	46.09	9.02	1.412	0.99979
6024	1	0.70	35	1,471	393	0.089	42.03	3.74	1.000	0.99991
6141	4	11.80	1,007	205,837	636	1.583	204.41	323.64	1.583	0.99251
6142	2	6.69	618	124,058	309	2.000	200.74	401.48	2.000	0.99071
6143	2	2.14	2	128	372	0.005	64.00	0.34	1.000	0.99999
6144	1	3.28	1	197	317	0.003	197.00	0.62	1.000	0.99999
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	376	563.86	19,977	1,941,762	164,936	0.121	97.20	11.77	1.185	0.99973

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 6/1/2017 to 6/30/2017
 EXCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1050	2	4.22	50	2,507	1,597	0.031	50.14	1.57	1.000	0.99996
1051	4	7.54	4	452	1,067	0.004	113.00	0.42	1.000	0.99999
1052	2	2.33	2	140	1,159	0.002	70.00	0.12	1.000	0.99999
1082	7	7.14	7	428	1,330	0.005	61.14	0.32	1.000	0.99999
1084	2	1.95	2	117	5	0.400	58.50	23.40	2.000	0.99946
1091	2	2.33	60	6,200	692	0.087	103.33	8.96	1.017	0.99979
1092	5	6.30	261	17,730	971	0.269	67.93	18.26	1.088	0.99958
1093	1	2.82	1	169	239	0.004	169.00	0.71	1.000	0.99998
1094	4	4.52	41	1,676	1,237	0.033	40.88	1.35	1.000	0.99997
1103	3	2.55	3	153	979	0.003	51.00	0.16	1.000	0.99999
1141	2	1.18	2	71	902	0.002	35.50	0.08	1.000	0.99999
1211	5	6.39	27	1,492	1,479	0.018	55.26	1.01	1.174	0.99998
1213	5	7.90	33	2,959	554	0.060	89.67	5.34	1.100	0.99988
1232	2	2.84	174	19,449	1,183	0.147	111.78	16.44	1.000	0.99962
1241	1	1.85	1	111	853	0.001	111.00	0.13	1.000	0.99999
1243	1	1.15	1	69	1,199	0.001	69.00	0.06	1.000	0.99999
1261	1	3.60	1	216	397	0.003	216.00	0.54	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1263	1	0.60	34	1,251	1,138	0.030	36.79	1.10	1.000	0.99997
1271	4	4.35	16	849	962	0.017	53.06	0.88	1.143	0.99998
1273	2	2.04	2	122	865	0.002	61.00	0.14	1.000	0.99999
1282	4	2.95	272	10,718	693	0.392	39.40	15.47	1.004	0.99964
1284	1	0.90	1	54	948	0.001	54.00	0.06	1.000	0.99999
1285	2	6.63	231	56,498	1,094	0.211	244.58	51.64	1.000	0.99880
1451	1	1.73	4	419	526	0.008	104.75	0.80	1.000	0.99998
1452	1	1.12	1	67	449	0.002	67.00	0.15	1.000	0.99999
1453	2	2.23	27	2,183	1,797	0.015	80.85	1.21	1.000	0.99997
1455	1	3.00	1	180	389	0.003	180.00	0.46	1.000	0.99999
1523	4	6.56	728	65,171	723	1.007	89.52	90.14	1.806	0.99791
1842	1	1.60	1	96	281	0.004	96.00	0.34	1.000	0.99999
1843	4	4.34	15	881	1,086	0.014	58.73	0.81	1.000	0.99998
2052	2	1.78	2	107	85	0.024	53.50	1.26	1.000	0.99997
2092	1	1.23	1	74	917	0.001	74.00	0.08	1.000	0.99999
2171	1	0.67	1	40	564	0.002	40.00	0.07	1.000	0.99999
2211	3	3.16	56	3,216	723	0.077	57.43	4.45	1.018	0.99990
2212	5	7.48	58	4,785	1,294	0.045	82.50	3.70	1.018	0.99991
2621	3	5.94	269	24,891	1,166	0.231	92.53	21.35	1.007	0.99951
2952	1	0.72	26	1,108	154	0.169	42.62	7.19	1.000	0.99983
2961	1	6.82	103	42,157	648	0.159	409.29	65.06	1.000	0.99849
3082	1	1.88	1	113	322	0.003	113.00	0.35	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3122	3	5.37	6	706	849	0.007	117.67	0.83	1.000	0.99998
3123	2	4.70	2	282	1,050	0.002	141.00	0.27	1.000	0.99999
3181	1	1.37	1	82	724	0.001	82.00	0.11	1.000	0.99999
3221	7	11.49	149	13,999	1,241	0.120	93.95	11.28	6.478	0.99974
3222	2	3.71	11	1,408	771	0.014	128.00	1.83	1.000	0.99996
3231	1	1.97	1	118	202	0.005	118.00	0.58	1.000	0.99999
3232	2	2.45	10	609	427	0.023	60.90	1.43	1.111	0.99997
3301	1	1.13	13	892	196	0.066	68.62	4.55	1.000	0.99989
3302	1	1.07	3	194	899	0.003	64.67	0.22	1.000	0.99999
3303	3	3.11	45	2,529	979	0.046	56.20	2.58	1.023	0.99994
3311	1	0.73	533	23,700	534	0.998	44.47	44.38	1.000	0.99897
3312	1	1.02	399	24,718	399	1.000	61.95	61.95	1.000	0.99857
3313	3	2.78	1,353	84,787	1,336	1.013	62.67	63.46	1.013	0.99853
3314	2	1.37	220	9,620	222	0.991	43.73	43.33	1.005	0.99900
3315	3	6.14	1,590	71,937	1,579	1.007	45.24	45.56	1.007	0.99895
3421	1	1.38	1	83	294	0.003	83.00	0.28	1.000	0.99999
3422	4	9.25	35	3,773	971	0.036	107.80	3.89	1.029	0.99991
3423	2	4.20	25	2,690	386	0.065	107.60	6.97	1.042	0.99984
3472	3	2.02	7	221	1,580	0.004	31.57	0.14	1.000	0.99999
3551	3	2.70	86	5,552	1,031	0.083	64.56	5.39	1.012	0.99988
3552	1	0.53	1	32	575	0.002	32.00	0.06	1.000	0.99999
3553	3	3.60	18	1,804	1,045	0.017	100.22	1.73	1.000	0.99996

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3591	1	1.62	1	97	1,202	0.001	97.00	0.08	1.000	0.99999
3592	4	5.04	29	2,794	1,747	0.017	96.34	1.60	1.074	0.99996
3594	10	9.93	47	3,506	680	0.069	74.60	5.16	1.000	0.99988
3621	7	6.64	29	2,160	1,552	0.019	74.48	1.39	1.706	0.99997
3661	3	2.48	89	5,138	1,022	0.087	57.73	5.03	1.000	0.99988
3662	4	5.88	1,429	118,517	779	1.834	82.94	152.14	1.834	0.99648
3663	1	1.07	11	712	734	0.015	64.73	0.97	1.000	0.99998
3664	2	1.29	31	1,252	549	0.056	40.39	2.28	1.033	0.99995
3691	3	4.55	1,165	57,986	1,163	1.002	49.77	49.86	1.002	0.99885
3692	1	1.28	7	544	410	0.017	77.71	1.33	1.000	0.99997
3693	1	1.10	21	1,398	186	0.113	66.57	7.52	1.000	0.99983
3694	2	1.43	12	501	1,328	0.009	41.75	0.38	1.000	0.99999
3701	1	0.42	1	25	485	0.002	25.00	0.05	1.000	0.99999
3702	1	0.57	8	273	611	0.013	34.13	0.45	1.000	0.99999
3751	3	2.75	3	165	882	0.003	55.00	0.19	1.000	0.99999
3871	2	3.28	2	197	1,387	0.001	98.50	0.14	1.000	0.99999
3872	3	2.90	38	3,169	1,067	0.036	83.39	2.97	1.000	0.99993
3873	1	3.02	87	15,691	796	0.109	180.36	19.71	1.000	0.99954
3878	3	2.44	14	860	792	0.018	61.43	1.09	1.000	0.99997
3891	2	4.65	10	1,400	455	0.022	140.00	3.08	1.111	0.99993
3893	7	13.26	17	2,020	1,111	0.015	118.82	1.82	1.000	0.99996
3894	1	0.88	1	53	116	0.009	53.00	0.46	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3901	2	1.34	24	1,035	874	0.027	43.13	1.18	1.000	0.99997
3912	1	1.47	1,121	99,488	1,160	0.966	88.75	85.77	1.000	0.99801
3913	1	0.73	1	44	810	0.001	44.00	0.05	1.000	0.99999
3914	2	5.55	47	4,891	373	0.126	104.06	13.11	1.000	0.99970
3951	3	6.20	27	4,180	929	0.029	154.81	4.50	1.038	0.99990
3952	10	16.91	110	13,594	1,273	0.086	123.58	10.68	1.000	0.99975
3953	2	2.25	2	135	521	0.004	67.50	0.26	1.000	0.99999
3981	9	20.14	930	248,003	1,503	0.619	266.67	165.01	1.080	0.99618
3982	4	9.16	237	25,352	1,769	0.134	106.97	14.33	1.000	0.99967
3991	5	10.51	83	4,944	726	0.114	59.57	6.81	1.051	0.99984
3992	1	1.35	1	81	166	0.006	81.00	0.49	1.000	0.99999
402	1	0.75	1	45	107	0.009	45.00	0.42	1.000	0.99999
4031	4	5.19	65	4,802	704	0.092	73.88	6.82	1.048	0.99984
4091	4	7.10	1,228	123,543	1,148	1.070	100.61	107.62	2.981	0.99751
4092	2	2.87	12	958	434	0.028	79.83	2.21	1.091	0.99995
4102	4	5.05	906	76,131	903	1.003	84.03	84.31	1.003	0.99805
4133	1	0.88	29	1,557	640	0.045	53.69	2.43	1.000	0.99994
4134	1	1.05	73	4,637	835	0.087	63.52	5.55	1.000	0.99987
4137	5	3.93	5	236	794	0.006	47.20	0.30	1.000	0.99999
4138	5	3.15	20	854	745	0.027	42.70	1.15	1.000	0.99997
4151	3	5.08	38	1,884	1,246	0.030	49.58	1.51	1.000	0.99996
4152	2	2.17	3	177	820	0.004	59.00	0.22	1.500	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4153	5	9.03	19	1,402	1,285	0.015	73.79	1.09	1.000	0.99997
4172	1	1.45	4	349	1,726	0.002	87.25	0.20	1.000	0.99999
4173	2	2.73	46	3,877	634	0.073	84.28	6.12	1.000	0.99986
4181	1	0.92	20	1,115	625	0.032	55.75	1.78	1.000	0.99996
4212	1	1.27	30	2,285	819	0.037	76.17	2.79	1.000	0.99994
4223	1	0.60	1	36	828	0.001	36.00	0.04	1.000	0.99999
4303	2	1.67	33	1,141	982	0.034	34.58	1.16	1.031	0.99997
4313	1	1.62	1	97	535	0.002	97.00	0.18	1.000	0.99999
4324	1	1.10	17	1,136	1,255	0.014	66.82	0.91	1.000	0.99998
4332	1	1.48	1	89	319	0.003	89.00	0.28	1.000	0.99999
4333	1	0.47	683	19,124	683	1.000	28.00	28.00	1.000	0.99935
4341	10	12.68	162	10,257	1,781	0.091	63.31	5.76	1.237	0.99987
4342	5	7.03	127	10,555	1,752	0.072	83.11	6.02	1.067	0.99986
4343	2	1.42	5	295	1,025	0.005	59.00	0.29	1.250	0.99999
4363	2	2.45	2	147	1,691	0.001	73.50	0.09	1.000	0.99999
4371	3	3.65	40	2,697	1,543	0.026	67.43	1.75	1.026	0.99996
4372	1	0.63	1	38	440	0.002	38.00	0.09	1.000	0.99999
4373	5	15.04	1,025	118,504	776	1.321	115.61	152.71	1.319	0.99647
4381	1	0.68	1	41	332	0.003	41.00	0.12	1.000	0.99999
4385	2	0.97	2	58	1,122	0.002	29.00	0.05	1.000	0.99999
4431	3	4.49	3	270	1,387	0.002	90.00	0.19	1.000	0.99999
4432	2	3.62	12	1,191	462	0.026	99.25	2.58	1.000	0.99994

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4511	1	0.43	9	242	1,131	0.008	26.89	0.21	1.000	0.99999
455	2	2.77	2	166	168	0.012	83.00	0.99	1.000	0.99998
4602	5	5.61	221	24,008	947	0.233	108.63	25.35	1.052	0.99941
4692	1	30.47	1	1,828	470	0.002	1828.00	3.89	1.000	0.99991
4714	1	1.85	1	111	328	0.003	111.00	0.34	1.000	0.99999
5601	5	3.15	75	3,695	1,163	0.064	49.27	3.18	1.000	0.99993
5603	4	3.12	74	3,670	1,290	0.057	49.59	2.84	1.000	0.99993
5902	2	2.25	29	1,961	1,012	0.029	67.62	1.94	1.000	0.99996
5903	2	7.77	186	24,571	256	0.727	132.10	95.98	1.069	0.99778
5904	4	6.69	70	4,515	1,223	0.057	64.50	3.69	1.014	0.99991
5905	6	4.40	367	16,916	1,876	0.196	46.09	9.02	1.412	0.99979
6024	1	0.70	35	1,471	393	0.089	42.03	3.74	1.000	0.99991
6141	4	11.80	1,007	205,837	636	1.583	204.41	323.64	1.583	0.99251
6142	2	6.69	618	124,058	309	2.000	200.74	401.48	2.000	0.99071
6143	2	2.14	2	128	372	0.005	64.00	0.34	1.000	0.99999
6144	1	3.28	1	197	317	0.003	197.00	0.62	1.000	0.99999
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	376	563.86	19,977	1,941,762	164,936	0.121	97.20	11.77	1.185	0.99973

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 7/1/2017 to 7/31/2017
 INCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1050	1	1.12	38	2,556	1,602	0.024	67.26	1.60	1.000	0.99996
1051	1	1.35	167	13,655	606	0.276	81.77	22.53	1.000	0.99950
1082	1	1.55	21	1,968	1,335	0.016	93.71	1.47	1.000	0.99997
1092	1	2.63	1	158	972	0.001	158.00	0.16	1.000	0.99999
1093	3	3.59	3	216	239	0.013	72.00	0.90	1.000	0.99998
1094	2	4.61	5	842	1,234	0.004	168.40	0.68	1.000	0.99998
1101	2	2.02	21	1,296	164	0.128	61.71	7.90	1.050	0.99982
1211	4	4.42	39	2,173	1,480	0.026	55.72	1.47	1.219	0.99997
1213	6	6.96	6	418	554	0.011	69.67	0.75	1.000	0.99998
1230	1	1.55	17	1,593	1,177	0.014	93.71	1.35	1.000	0.99997
1232	2	3.14	102	7,253	1,184	0.086	71.11	6.13	1.010	0.99986
1241	1	0.88	56	2,996	854	0.066	53.50	3.51	1.000	0.99992
1242	1	1.18	1	71	680	0.001	71.00	0.10	1.000	0.99999
1261	1	3.08	1	185	398	0.003	185.00	0.46	1.000	0.99999
1265	4	9.65	960	72,954	1,282	0.749	75.99	56.91	1.137	0.99873
1281	1	6.02	1	361	167	0.006	361.00	2.16	1.000	0.99995
1282	1	2.00	22	2,652	693	0.032	120.55	3.83	1.000	0.99991

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1283	1	0.58	1	35	370	0.003	35.00	0.09	1.000	0.99999
1311	1	1.43	1	86	272	0.004	86.00	0.32	1.000	0.99999
1312	2	2.19	273	29,673	936	0.292	108.69	31.70	1.038	0.99929
1451	12	18.29	3,093	259,155	527	5.869	83.79	491.76	2.051	0.98898
1452	1	0.52	1	31	449	0.002	31.00	0.07	1.000	0.99999
1453	3	3.68	179	19,582	1,797	0.100	109.40	10.90	1.047	0.99976
1455	3	3.32	31	2,701	390	0.079	87.13	6.93	1.292	0.99984
1523	2	2.69	2	161	727	0.003	80.50	0.22	1.000	0.99999
2051	1	0.92	1	55	165	0.006	55.00	0.33	1.000	0.99999
2052	1	1.65	1	99	85	0.012	99.00	1.16	1.000	0.99997
2092	1	1.03	6	372	918	0.007	62.00	0.41	1.000	0.99999
2171	2	2.90	2	174	564	0.004	87.00	0.31	1.000	0.99999
2172	1	1.60	5	484	223	0.022	96.80	2.17	1.000	0.99995
2211	6	5.22	20	1,237	723	0.028	61.85	1.71	1.053	0.99996
2212	4	6.55	27	2,286	1,294	0.021	84.67	1.77	1.080	0.99996
2511	5	7.08	24	1,517	618	0.039	63.21	2.45	1.000	0.99995
2621	1	1.70	1	102	1,168	0.001	102.00	0.09	1.000	0.99999
2951	3	4.20	115	4,012	1,398	0.082	34.89	2.87	1.055	0.99994
3082	1	0.98	1	59	322	0.003	59.00	0.18	1.000	0.99999
3121	2	1.87	143	8,378	1,132	0.126	58.59	7.40	1.000	0.99983
3122	1	5.48	12	3,954	850	0.014	329.50	4.65	1.000	0.99990
3123	1	0.98	12	715	1,052	0.011	59.58	0.68	1.000	0.99998

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3221	4	9.84	29	3,368	1,243	0.023	116.14	2.71	1.036	0.99994
3222	2	5.49	2	329	772	0.003	164.50	0.43	1.000	0.99999
3231	2	2.47	41	2,739	202	0.203	66.80	13.56	1.025	0.99970
3311	1	1.98	1	119	535	0.002	119.00	0.22	1.000	0.99999
3315	1	4.37	10	2,626	1,580	0.006	262.60	1.66	1.000	0.99996
3472	6	4.63	182	13,555	1,581	0.115	74.48	8.57	1.028	0.99981
3553	5	9.37	53	6,513	1,045	0.051	122.89	6.23	1.128	0.99986
3591	3	5.08	52	5,416	1,212	0.043	104.15	4.47	1.020	0.99990
3592	1	0.25	18	284	1,728	0.010	15.78	0.16	1.000	0.99999
3593	1	5.13	67	20,684	929	0.072	308.72	22.26	1.000	0.99950
3621	1	1.02	1	61	1,554	0.001	61.00	0.04	1.000	0.99999
3661	3	8.35	106	22,279	1,024	0.104	210.18	21.76	1.000	0.99951
3662	2	7.07	19	3,127	781	0.024	164.58	4.00	1.000	0.99991
3663	1	1.18	18	1,281	736	0.024	71.17	1.74	1.000	0.99996
3664	4	5.78	52	3,090	549	0.095	59.42	5.63	1.040	0.99987
3675	1	0.95	23	1,332	415	0.055	57.91	3.21	1.000	0.99993
3691	3	1.48	3	89	1,163	0.003	29.67	0.08	1.000	0.99999
3702	1	0.60	19	691	611	0.031	36.37	1.13	1.000	0.99997
3871	1	1.17	29	2,034	1,420	0.020	70.14	1.43	1.000	0.99997
3872	1	1.20	28	2,035	1,067	0.026	72.68	1.91	1.000	0.99996
3873	2	1.20	2	72	797	0.003	36.00	0.09	1.000	0.99999
3878	1	0.95	1	57	794	0.001	57.00	0.07	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3891	4	9.81	2,214	488,796	456	4.855	220.78	1071.92	2.002	0.97599
3892	2	1.00	172	5,608	1,389	0.124	32.60	4.04	1.000	0.99991
3893	6	7.90	105	8,358	1,113	0.094	79.60	7.51	1.050	0.99983
3894	1	1.12	1	67	116	0.009	67.00	0.58	1.000	0.99999
3901	7	8.84	1,805	70,214	876	2.061	38.90	80.15	2.056	0.99820
3902	2	3.70	2	222	88	0.023	111.00	2.52	1.000	0.99994
3913	1	1.95	53	6,217	814	0.065	117.30	7.64	1.000	0.99983
3914	1	1.00	11	661	374	0.029	60.09	1.77	1.000	0.99996
3951	4	4.93	27	2,425	930	0.029	89.81	2.61	1.080	0.99994
3952	1	1.10	1	66	1,273	0.001	66.00	0.05	1.000	0.99999
3953	1	1.33	1	80	522	0.002	80.00	0.15	1.000	0.99999
3981	2	1.32	9	485	1,503	0.006	53.89	0.32	1.125	0.99999
3991	5	5.68	14	1,039	728	0.019	74.21	1.43	1.000	0.99997
4101	5	5.47	56	4,454	590	0.095	79.54	7.55	1.000	0.99983
4102	1	4.53	72	19,651	904	0.080	272.93	21.74	1.000	0.99951
4131	1	3.52	1	211	200	0.005	211.00	1.06	1.000	0.99998
4136	2	3.74	10	936	632	0.016	93.60	1.48	1.111	0.99997
4138	3	2.12	47	2,216	745	0.063	47.15	2.97	1.000	0.99993
4141	2	1.60	2	96	82	0.024	48.00	1.17	1.000	0.99997
4142	1	3.40	68	13,928	598	0.114	204.82	23.29	1.000	0.99948
4151	4	4.57	129	8,582	1,246	0.104	66.53	6.89	1.008	0.99985
4153	2	7.00	203	26,282	1,291	0.157	129.47	20.36	1.173	0.99954

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4172	1	0.43	1	26	1,726	0.001	26.00	0.02	1.000	0.99999
4173	3	3.10	40	3,980	634	0.063	99.50	6.28	1.053	0.99986
4181	1	6.38	15	5,747	624	0.024	383.13	9.21	1.000	0.99979
4182	2	2.91	2	175	894	0.002	87.50	0.20	1.000	0.99999
4211	1	1.98	1	119	708	0.001	119.00	0.17	1.000	0.99999
4212	5	5.55	77	8,262	820	0.094	107.30	10.08	1.000	0.99977
4222	26	29.51	1,070	83,086	1,045	1.024	77.65	79.51	1.198	0.99822
4223	4	6.65	838	66,418	872	0.961	79.26	76.17	1.012	0.99829
4224	1	1.30	695	54,580	756	0.919	78.53	72.20	1.000	0.99838
4303	1	4.02	1	241	988	0.001	241.00	0.24	1.000	0.99999
4312	2	1.22	14	522	844	0.017	37.29	0.62	1.000	0.99999
4324	2	1.69	1,254	84,214	1,257	0.998	67.16	67.00	1.001	0.99850
4341	3	5.01	29	1,528	1,799	0.016	52.69	0.85	1.036	0.99998
4342	5	9.19	5	551	1,758	0.003	110.20	0.31	1.000	0.99999
4343	1	0.82	61	3,011	1,026	0.059	49.36	2.93	1.000	0.99993
4361	1	0.25	1	15	1,282	0.001	15.00	0.01	1.000	0.99999
4362	4	1.46	4	88	828	0.005	22.00	0.11	1.000	0.99999
4363	7	4.46	23	1,997	1,695	0.014	86.83	1.18	1.045	0.99997
4371	6	8.46	1,647	234,504	1,544	1.067	142.38	151.88	1.068	0.99660
4372	9	21.79	506	68,945	440	1.150	136.25	156.69	1.150	0.99649
4373	1	2.43	777	113,843	778	0.999	146.52	146.33	1.000	0.99672
4386	1	3.72	7	1,563	1,658	0.004	223.29	0.94	1.000	0.99998

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4431	4	4.96	5	342	1,387	0.004	68.40	0.25	1.000	0.99999
4432	1	0.38	1	23	462	0.002	23.00	0.05	1.000	0.99999
4511	3	5.50	93	9,526	1,132	0.082	102.43	8.42	1.000	0.99981
4512	1	1.82	1	109	1,016	0.001	109.00	0.11	1.000	0.99999
4601	1	1.62	7	682	416	0.017	97.43	1.64	1.000	0.99996
4692	3	6.77	13	2,182	470	0.028	167.85	4.64	1.083	0.99990
4714	2	8.84	26	10,939	328	0.079	420.73	33.35	1.040	0.99925
5601	9	12.91	120	29,088	1,168	0.103	242.40	24.90	1.008	0.99944
5602	2	1.83	2	110	681	0.003	55.00	0.16	1.000	0.99999
5603	4	3.67	132	4,915	1,290	0.102	37.23	3.81	1.650	0.99991
5901	3	5.37	1,487	214,517	680	2.187	144.26	315.47	2.193	0.99293
5902	5	7.62	2,107	205,602	1,012	2.082	97.58	203.16	2.082	0.99545
5903	3	5.46	529	69,215	256	2.066	130.84	270.37	2.066	0.99394
5904	3	4.17	2,447	233,448	1,223	2.001	95.40	190.88	2.001	0.99572
5905	7	6.52	3,826	355,747	1,876	2.039	92.98	189.63	2.039	0.99575
6141	1	3.02	1	181	634	0.002	181.00	0.29	1.000	0.99999
6143	2	2.78	76	3,077	372	0.204	40.49	8.27	1.013	0.99981
NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI	
Total:	334	501.37	29,112	3,071,708	164,392	0.177	105.51	18.69	1.492	0.99958

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 7/1/2017 to 7/31/2017
 EXCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1050	1	1.12	38	2,556	1,602	0.024	67.26	1.60	1.000	0.99996
1051	1	1.35	167	13,655	606	0.276	81.77	22.53	1.000	0.99950
1082	1	1.55	21	1,968	1,335	0.016	93.71	1.47	1.000	0.99997
1092	1	2.63	1	158	972	0.001	158.00	0.16	1.000	0.99999
1093	3	3.59	3	216	239	0.013	72.00	0.90	1.000	0.99998
1094	2	4.61	5	842	1,234	0.004	168.40	0.68	1.000	0.99998
1101	2	2.02	21	1,296	164	0.128	61.71	7.90	1.050	0.99982
1211	4	4.42	39	2,173	1,480	0.026	55.72	1.47	1.219	0.99997
1213	6	6.96	6	418	554	0.011	69.67	0.75	1.000	0.99998
1230	1	1.55	17	1,593	1,177	0.014	93.71	1.35	1.000	0.99997
1232	2	3.14	102	7,253	1,184	0.086	71.11	6.13	1.010	0.99986
1241	1	0.88	56	2,996	854	0.066	53.50	3.51	1.000	0.99992
1242	1	1.18	1	71	680	0.001	71.00	0.10	1.000	0.99999
1261	1	3.08	1	185	398	0.003	185.00	0.46	1.000	0.99999
1265	4	9.65	960	72,954	1,282	0.749	75.99	56.91	1.137	0.99873
1281	1	6.02	1	361	167	0.006	361.00	2.16	1.000	0.99995
1282	1	2.00	22	2,652	693	0.032	120.55	3.83	1.000	0.99991

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1283	1	0.58	1	35	370	0.003	35.00	0.09	1.000	0.99999
1311	1	1.43	1	86	272	0.004	86.00	0.32	1.000	0.99999
1312	2	2.19	273	29,673	936	0.292	108.69	31.70	1.038	0.99929
1451	12	18.29	3,093	259,155	527	5.869	83.79	491.76	2.051	0.98898
1452	1	0.52	1	31	449	0.002	31.00	0.07	1.000	0.99999
1453	3	3.68	179	19,582	1,797	0.100	109.40	10.90	1.047	0.99976
1455	3	3.32	31	2,701	390	0.079	87.13	6.93	1.292	0.99984
1523	2	2.69	2	161	727	0.003	80.50	0.22	1.000	0.99999
2051	1	0.92	1	55	165	0.006	55.00	0.33	1.000	0.99999
2052	1	1.65	1	99	85	0.012	99.00	1.16	1.000	0.99997
2092	1	1.03	6	372	918	0.007	62.00	0.41	1.000	0.99999
2171	2	2.90	2	174	564	0.004	87.00	0.31	1.000	0.99999
2172	1	1.60	5	484	223	0.022	96.80	2.17	1.000	0.99995
2211	6	5.22	20	1,237	723	0.028	61.85	1.71	1.053	0.99996
2212	4	6.55	27	2,286	1,294	0.021	84.67	1.77	1.080	0.99996
2511	5	7.08	24	1,517	618	0.039	63.21	2.45	1.000	0.99995
2621	1	1.70	1	102	1,168	0.001	102.00	0.09	1.000	0.99999
2951	3	4.20	115	4,012	1,398	0.082	34.89	2.87	1.055	0.99994
3082	1	0.98	1	59	322	0.003	59.00	0.18	1.000	0.99999
3121	2	1.87	143	8,378	1,132	0.126	58.59	7.40	1.000	0.99983
3122	1	5.48	12	3,954	850	0.014	329.50	4.65	1.000	0.99990
3123	1	0.98	12	715	1,052	0.011	59.58	0.68	1.000	0.99998

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3221	4	9.84	29	3,368	1,243	0.023	116.14	2.71	1.036	0.99994
3222	2	5.49	2	329	772	0.003	164.50	0.43	1.000	0.99999
3231	2	2.47	41	2,739	202	0.203	66.80	13.56	1.025	0.99970
3311	1	1.98	1	119	535	0.002	119.00	0.22	1.000	0.99999
3315	1	4.37	10	2,626	1,580	0.006	262.60	1.66	1.000	0.99996
3472	6	4.63	182	13,555	1,581	0.115	74.48	8.57	1.028	0.99981
3553	5	9.37	53	6,513	1,045	0.051	122.89	6.23	1.128	0.99986
3591	3	5.08	52	5,416	1,212	0.043	104.15	4.47	1.020	0.99990
3592	1	0.25	18	284	1,728	0.010	15.78	0.16	1.000	0.99999
3593	1	5.13	67	20,684	929	0.072	308.72	22.26	1.000	0.99950
3621	1	1.02	1	61	1,554	0.001	61.00	0.04	1.000	0.99999
3661	3	8.35	106	22,279	1,024	0.104	210.18	21.76	1.000	0.99951
3662	2	7.07	19	3,127	781	0.024	164.58	4.00	1.000	0.99991
3663	1	1.18	18	1,281	736	0.024	71.17	1.74	1.000	0.99996
3664	4	5.78	52	3,090	549	0.095	59.42	5.63	1.040	0.99987
3675	1	0.95	23	1,332	415	0.055	57.91	3.21	1.000	0.99993
3691	3	1.48	3	89	1,163	0.003	29.67	0.08	1.000	0.99999
3702	1	0.60	19	691	611	0.031	36.37	1.13	1.000	0.99997
3871	1	1.17	29	2,034	1,420	0.020	70.14	1.43	1.000	0.99997
3872	1	1.20	28	2,035	1,067	0.026	72.68	1.91	1.000	0.99996
3873	2	1.20	2	72	797	0.003	36.00	0.09	1.000	0.99999
3878	1	0.95	1	57	794	0.001	57.00	0.07	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3891	4	9.81	2,214	488,796	456	4.855	220.78	1071.92	2.002	0.97599
3892	2	1.00	172	5,608	1,389	0.124	32.60	4.04	1.000	0.99991
3893	6	7.90	105	8,358	1,113	0.094	79.60	7.51	1.050	0.99983
3894	1	1.12	1	67	116	0.009	67.00	0.58	1.000	0.99999
3901	7	8.84	1,805	70,214	876	2.061	38.90	80.15	2.056	0.99820
3902	2	3.70	2	222	88	0.023	111.00	2.52	1.000	0.99994
3913	1	1.95	53	6,217	814	0.065	117.30	7.64	1.000	0.99983
3914	1	1.00	11	661	374	0.029	60.09	1.77	1.000	0.99996
3951	4	4.93	27	2,425	930	0.029	89.81	2.61	1.080	0.99994
3952	1	1.10	1	66	1,273	0.001	66.00	0.05	1.000	0.99999
3953	1	1.33	1	80	522	0.002	80.00	0.15	1.000	0.99999
3981	2	1.32	9	485	1,503	0.006	53.89	0.32	1.125	0.99999
3991	5	5.68	14	1,039	728	0.019	74.21	1.43	1.000	0.99997
4101	5	5.47	56	4,454	590	0.095	79.54	7.55	1.000	0.99983
4102	1	4.53	72	19,651	904	0.080	272.93	21.74	1.000	0.99951
4131	1	3.52	1	211	200	0.005	211.00	1.06	1.000	0.99998
4136	2	3.74	10	936	632	0.016	93.60	1.48	1.111	0.99997
4138	3	2.12	47	2,216	745	0.063	47.15	2.97	1.000	0.99993
4141	2	1.60	2	96	82	0.024	48.00	1.17	1.000	0.99997
4142	1	3.40	68	13,928	598	0.114	204.82	23.29	1.000	0.99948
4151	4	4.57	129	8,582	1,246	0.104	66.53	6.89	1.008	0.99985
4153	2	7.00	203	26,282	1,291	0.157	129.47	20.36	1.173	0.99954

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4172	1	0.43	1	26	1,726	0.001	26.00	0.02	1.000	0.99999
4173	3	3.10	40	3,980	634	0.063	99.50	6.28	1.053	0.99986
4181	1	6.38	15	5,747	624	0.024	383.13	9.21	1.000	0.99979
4182	2	2.91	2	175	894	0.002	87.50	0.20	1.000	0.99999
4211	1	1.98	1	119	708	0.001	119.00	0.17	1.000	0.99999
4212	5	5.55	77	8,262	820	0.094	107.30	10.08	1.000	0.99977
4222	26	29.51	1,070	83,086	1,045	1.024	77.65	79.51	1.198	0.99822
4223	4	6.65	838	66,418	872	0.961	79.26	76.17	1.012	0.99829
4224	1	1.30	695	54,580	756	0.919	78.53	72.20	1.000	0.99838
4303	1	4.02	1	241	988	0.001	241.00	0.24	1.000	0.99999
4312	2	1.22	14	522	844	0.017	37.29	0.62	1.000	0.99999
4324	2	1.69	1,254	84,214	1,257	0.998	67.16	67.00	1.001	0.99850
4341	3	5.01	29	1,528	1,799	0.016	52.69	0.85	1.036	0.99998
4342	5	9.19	5	551	1,758	0.003	110.20	0.31	1.000	0.99999
4343	1	0.82	61	3,011	1,026	0.059	49.36	2.93	1.000	0.99993
4361	1	0.25	1	15	1,282	0.001	15.00	0.01	1.000	0.99999
4362	4	1.46	4	88	828	0.005	22.00	0.11	1.000	0.99999
4363	7	4.46	23	1,997	1,695	0.014	86.83	1.18	1.045	0.99997
4371	6	8.46	1,647	234,504	1,544	1.067	142.38	151.88	1.068	0.99660
4372	9	21.79	506	68,945	440	1.150	136.25	156.69	1.150	0.99649
4373	1	2.43	777	113,843	778	0.999	146.52	146.33	1.000	0.99672
4386	1	3.72	7	1,563	1,658	0.004	223.29	0.94	1.000	0.99998

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4431	4	4.96	5	342	1,387	0.004	68.40	0.25	1.000	0.99999
4432	1	0.38	1	23	462	0.002	23.00	0.05	1.000	0.99999
4511	3	5.50	93	9,526	1,132	0.082	102.43	8.42	1.000	0.99981
4512	1	1.82	1	109	1,016	0.001	109.00	0.11	1.000	0.99999
4601	1	1.62	7	682	416	0.017	97.43	1.64	1.000	0.99996
4692	3	6.77	13	2,182	470	0.028	167.85	4.64	1.083	0.99990
4714	2	8.84	26	10,939	328	0.079	420.73	33.35	1.040	0.99925
5601	9	12.91	120	29,088	1,168	0.103	242.40	24.90	1.008	0.99944
5602	2	1.83	2	110	681	0.003	55.00	0.16	1.000	0.99999
5603	4	3.67	132	4,915	1,290	0.102	37.23	3.81	1.650	0.99991
5901	3	5.37	1,487	214,517	680	2.187	144.26	315.47	2.193	0.99293
5902	5	7.62	2,107	205,602	1,012	2.082	97.58	203.16	2.082	0.99545
5903	3	5.46	529	69,215	256	2.066	130.84	270.37	2.066	0.99394
5904	3	4.17	2,447	233,448	1,223	2.001	95.40	190.88	2.001	0.99572
5905	7	6.52	3,826	355,747	1,876	2.039	92.98	189.63	2.039	0.99575
6141	1	3.02	1	181	634	0.002	181.00	0.29	1.000	0.99999
6143	2	2.78	76	3,077	372	0.204	40.49	8.27	1.013	0.99981
NUMBER OF OUTAGES		OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	334	501.37	29,112	3,071,708	164,392	0.177	105.51	18.69	1.492	0.99958

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 8/1/2017 to 8/31/2017
 INCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1082	6	9.44	13	1,659	1,340	0.010	127.62	1.24	1.300	0.99997
1084	1	0.80	1	48	5	0.200	48.00	9.60	1.000	0.99978
1091	3	3.10	3	186	694	0.004	62.00	0.27	1.000	0.99999
1092	3	5.65	3	339	972	0.003	113.00	0.35	1.000	0.99999
1094	5	3.75	12	512	1,232	0.010	42.67	0.42	1.000	0.99999
1102	2	1.70	2	102	470	0.004	51.00	0.22	1.000	0.99999
1142	2	1.47	5	254	214	0.023	50.80	1.19	1.250	0.99997
1211	3	5.53	83	5,286	1,480	0.056	63.69	3.57	1.012	0.99992
1232	1	1.12	5	339	1,184	0.004	67.80	0.29	1.000	0.99999
1263	1	1.83	1	110	1,141	0.001	110.00	0.10	1.000	0.99999
1271	1	2.17	2	260	964	0.002	130.00	0.27	1.000	0.99999
1284	1	0.88	9	484	949	0.009	53.78	0.51	1.000	0.99999
1453	4	4.00	451	10,051	1,798	0.251	22.29	5.59	1.119	0.99987
1454	2	1.88	2	113	935	0.002	56.50	0.12	1.000	0.99999
1521	2	1.92	8	352	365	0.022	44.00	0.96	1.000	0.99998
1843	2	2.65	2	159	1,079	0.002	79.50	0.15	1.000	0.99999
2052	1	0.88	1	53	85	0.012	53.00	0.62	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
2091	6	22.93	193	33,481	882	0.219	173.48	37.96	1.060	0.99915
2171	2	6.40	1,128	217,017	564	2.000	192.39	384.78	2.000	0.99138
2172	2	6.35	446	85,025	223	2.000	190.64	381.28	2.000	0.99146
2211	2	3.00	2	180	723	0.003	90.00	0.25	1.000	0.99999
2212	5	4.32	14	885	1,294	0.011	63.21	0.68	1.000	0.99998
2511	1	3.40	1	204	619	0.002	204.00	0.33	1.000	0.99999
2621	3	5.18	14	1,185	1,170	0.012	84.64	1.01	1.077	0.99998
2951	5	5.59	16	1,225	1,401	0.011	76.56	0.87	1.000	0.99998
2961	1	2.68	18	2,901	648	0.028	161.17	4.48	1.000	0.99990
3123	2	3.45	2	207	1,055	0.002	103.50	0.20	1.000	0.99999
3181	2	4.02	66	11,596	727	0.091	175.70	15.95	1.015	0.99964
3221	1	0.98	1	59	1,245	0.001	59.00	0.05	1.000	0.99999
3222	1	0.92	652	36,316	773	0.843	55.70	46.98	1.000	0.99895
3231	1	1.07	1	64	203	0.005	64.00	0.32	1.000	0.99999
3232	2	2.73	26	2,142	427	0.061	82.38	5.02	1.182	0.99989
3302	1	0.83	1	50	902	0.001	50.00	0.06	1.000	0.99999
3314	1	0.40	20	499	222	0.090	24.95	2.25	1.000	0.99995
3315	3	1.94	66	2,932	1,580	0.042	44.42	1.86	1.015	0.99996
3472	4	2.37	16	424	1,582	0.010	26.50	0.27	1.000	0.99999
3551	1	1.57	37	3,474	1,031	0.036	93.89	3.37	1.000	0.99992
3553	1	0.43	34	893	1,044	0.033	26.26	0.86	1.000	0.99998
3591	2	1.91	27	995	1,223	0.022	36.85	0.81	1.038	0.99998

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3592	2	3.37	53	5,141	1,708	0.031	97.00	3.01	1.000	0.99993
3621	3	2.93	4	259	1,555	0.003	64.75	0.17	1.000	0.99999
3661	3	2.00	57	2,585	1,028	0.055	45.35	2.51	1.000	0.99994
3662	1	0.50	8	242	783	0.010	30.25	0.31	1.000	0.99999
3663	1	0.63	2	76	737	0.003	38.00	0.10	1.000	0.99999
3664	2	1.13	2	68	549	0.004	34.00	0.12	1.000	0.99999
3673	1	1.37	1	82	268	0.004	82.00	0.31	1.000	0.99999
3692	2	2.13	32	2,937	410	0.078	91.78	7.16	1.000	0.99984
3751	5	11.20	890	183,394	885	1.006	206.06	207.22	1.013	0.99536
3871	1	0.43	1	26	1,453	0.001	26.00	0.02	1.000	0.99999
3872	2	2.82	37	2,863	1,067	0.035	77.38	2.68	1.000	0.99994
3873	5	9.74	821	64,745	798	1.029	78.86	81.13	1.271	0.99818
3878	1	1.73	13	1,357	796	0.016	104.38	1.70	1.000	0.99996
3892	3	7.35	780	80,094	2,275	0.343	102.68	35.21	1.223	0.99921
3893	5	7.87	7	697	1,115	0.006	99.57	0.63	1.167	0.99999
3901	2	1.15	84	2,867	878	0.096	34.13	3.27	1.000	0.99993
3913	1	1.28	112	8,708	819	0.137	77.75	10.63	1.000	0.99976
3951	4	9.33	54	6,871	930	0.058	127.24	7.39	1.000	0.99983
3952	2	2.10	1,288	73,503	1,273	1.012	57.07	57.74	1.011	0.99871
3953	2	2.16	4	292	524	0.008	73.00	0.56	1.000	0.99999
3981	4	4.25	4	255	1,503	0.003	63.75	0.17	1.000	0.99999
3991	1	1.60	1	96	730	0.001	96.00	0.13	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4031	4	5.16	28	1,711	706	0.040	61.11	2.42	1.037	0.99995
4091	3	4.87	89	6,955	1,148	0.078	78.15	6.06	1.011	0.99986
4092	1	0.58	1	35	433	0.002	35.00	0.08	1.000	0.99999
4102	1	2.08	72	9,034	904	0.080	125.47	9.99	1.000	0.99978
4136	1	0.75	1	45	594	0.002	45.00	0.08	1.000	0.99999
4137	10	37.04	30	7,596	797	0.038	253.20	9.53	1.000	0.99979
4138	1	0.67	11	440	745	0.015	40.00	0.59	1.000	0.99999
4142	1	0.80	1	48	598	0.002	48.00	0.08	1.000	0.99999
4151	1	1.17	42	2,920	1,247	0.034	69.52	2.34	1.000	0.99995
4153	2	2.15	47	3,243	1,297	0.036	69.00	2.50	1.000	0.99994
4155	5	5.02	2,228	107,426	2,151	1.036	48.22	49.94	1.304	0.99888
4171	2	1.25	39	778	678	0.058	19.95	1.15	1.000	0.99997
4173	4	12.04	627	69,503	635	0.987	110.85	109.45	1.507	0.99755
4181	2	3.24	41	3,628	622	0.066	88.49	5.83	1.000	0.99987
4182	1	2.42	1	145	896	0.001	145.00	0.16	1.000	0.99999
4212	4	13.74	30	14,328	820	0.037	477.60	17.47	1.000	0.99961
4224	1	1.08	83	5,458	757	0.110	65.76	7.21	1.000	0.99984
4302	1	2.77	5	830	651	0.008	166.00	1.27	1.000	0.99997
4303	2	9.74	12	4,923	995	0.012	410.25	4.95	1.091	0.99989
4311	2	2.37	64	4,581	860	0.074	71.58	5.33	2.000	0.99988
4313	1	0.32	1	19	535	0.002	19.00	0.04	1.000	0.99999
4324	1	0.47	16	457	1,259	0.013	28.56	0.36	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4331	1	2.48	313	46,720	313	1.000	149.27	149.27	1.000	0.99666
4341	5	7.51	79	6,860	1,817	0.043	86.84	3.78	1.026	0.99992
4342	3	2.32	49	2,526	1,763	0.028	51.55	1.43	1.021	0.99997
4361	1	1.03	1	62	1,768	0.001	62.00	0.04	1.000	0.99999
4362	1	1.77	6	638	827	0.007	106.33	0.77	1.000	0.99998
4363	2	1.56	24	1,233	1,699	0.014	51.38	0.73	1.000	0.99998
4371	5	23.17	123	45,166	1,545	0.080	367.20	29.23	1.025	0.99935
4372	2	2.44	20	1,801	440	0.045	90.05	4.09	1.053	0.99991
4373	2	2.67	2	160	778	0.003	80.00	0.21	1.000	0.99999
4385	1	1.03	5	310	1,119	0.004	62.00	0.28	1.000	0.99999
4431	3	2.60	39	1,398	1,387	0.028	35.85	1.01	1.000	0.99998
4432	1	0.93	1	56	463	0.002	56.00	0.12	1.000	0.99999
4511	1	0.55	38	1,275	1,134	0.034	33.55	1.12	1.000	0.99997
4602	1	1.80	41	4,430	948	0.043	108.05	4.67	1.000	0.99990
4714	4	6.51	62	7,857	328	0.189	126.73	23.95	1.107	0.99946
5601	1	1.07	1	64	1,173	0.001	64.00	0.05	1.000	0.99999
5602	2	4.32	20	3,150	681	0.029	157.50	4.63	1.053	0.99990
5603	3	5.37	51	7,163	1,290	0.040	140.45	5.55	1.020	0.99988
5902	3	2.99	73	4,624	978	0.075	63.34	4.73	1.014	0.99989
5904	3	3.12	69	4,330	1,223	0.056	62.75	3.54	1.500	0.99992
5905	5	7.68	113	13,166	1,876	0.060	116.51	7.02	1.027	0.99984
6021	1	1.52	1	91	1,298	0.001	91.00	0.07	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
6023	1	1.33	1	80	128	0.008	80.00	0.63	1.000	0.99999
6024	1	0.52	9	283	394	0.023	31.44	0.72	1.000	0.99998
6141	1	0.55	391	13,111	632	0.619	33.53	20.75	1.000	0.99954
6142	2	5.70	2	342	311	0.006	171.00	1.10	1.000	0.99998
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	249	410.58	12,642	1,270,218	165,550	0.076	100.48	7.67	1.185	0.99983

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 8/1/2017 to 8/31/2017
 EXCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1082	6	9.44	13	1,659	1,340	0.010	127.62	1.24	1.300	0.99997
1084	1	0.80	1	48	5	0.200	48.00	9.60	1.000	0.99978
1091	3	3.10	3	186	694	0.004	62.00	0.27	1.000	0.99999
1092	3	5.65	3	339	972	0.003	113.00	0.35	1.000	0.99999
1094	5	3.75	12	512	1,232	0.010	42.67	0.42	1.000	0.99999
1102	2	1.70	2	102	470	0.004	51.00	0.22	1.000	0.99999
1142	2	1.47	5	254	214	0.023	50.80	1.19	1.250	0.99997
1211	3	5.53	83	5,286	1,480	0.056	63.69	3.57	1.012	0.99992
1232	1	1.12	5	339	1,184	0.004	67.80	0.29	1.000	0.99999
1263	1	1.83	1	110	1,141	0.001	110.00	0.10	1.000	0.99999
1271	1	2.17	2	260	964	0.002	130.00	0.27	1.000	0.99999
1284	1	0.88	9	484	949	0.009	53.78	0.51	1.000	0.99999
1453	4	4.00	451	10,051	1,798	0.251	22.29	5.59	1.119	0.99987
1454	2	1.88	2	113	935	0.002	56.50	0.12	1.000	0.99999
1521	2	1.92	8	352	365	0.022	44.00	0.96	1.000	0.99998
1843	2	2.65	2	159	1,079	0.002	79.50	0.15	1.000	0.99999
2052	1	0.88	1	53	85	0.012	53.00	0.62	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
2091	6	22.93	193	33,481	882	0.219	173.48	37.96	1.060	0.99915
2171	2	6.40	1,128	217,017	564	2.000	192.39	384.78	2.000	0.99138
2172	2	6.35	446	85,025	223	2.000	190.64	381.28	2.000	0.99146
2211	2	3.00	2	180	723	0.003	90.00	0.25	1.000	0.99999
2212	5	4.32	14	885	1,294	0.011	63.21	0.68	1.000	0.99998
2511	1	3.40	1	204	619	0.002	204.00	0.33	1.000	0.99999
2621	3	5.18	14	1,185	1,170	0.012	84.64	1.01	1.077	0.99998
2951	5	5.59	16	1,225	1,401	0.011	76.56	0.87	1.000	0.99998
2961	1	2.68	18	2,901	648	0.028	161.17	4.48	1.000	0.99990
3123	2	3.45	2	207	1,055	0.002	103.50	0.20	1.000	0.99999
3181	2	4.02	66	11,596	727	0.091	175.70	15.95	1.015	0.99964
3221	1	0.98	1	59	1,245	0.001	59.00	0.05	1.000	0.99999
3222	1	0.92	652	36,316	773	0.843	55.70	46.98	1.000	0.99895
3231	1	1.07	1	64	203	0.005	64.00	0.32	1.000	0.99999
3232	2	2.73	26	2,142	427	0.061	82.38	5.02	1.182	0.99989
3302	1	0.83	1	50	902	0.001	50.00	0.06	1.000	0.99999
3314	1	0.40	20	499	222	0.090	24.95	2.25	1.000	0.99995
3315	3	1.94	66	2,932	1,580	0.042	44.42	1.86	1.015	0.99996
3472	4	2.37	16	424	1,582	0.010	26.50	0.27	1.000	0.99999
3551	1	1.57	37	3,474	1,031	0.036	93.89	3.37	1.000	0.99992
3553	1	0.43	34	893	1,044	0.033	26.26	0.86	1.000	0.99998
3591	2	1.91	27	995	1,223	0.022	36.85	0.81	1.038	0.99998

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3592	2	3.37	53	5,141	1,708	0.031	97.00	3.01	1.000	0.99993
3621	3	2.93	4	259	1,555	0.003	64.75	0.17	1.000	0.99999
3661	3	2.00	57	2,585	1,028	0.055	45.35	2.51	1.000	0.99994
3662	1	0.50	8	242	783	0.010	30.25	0.31	1.000	0.99999
3663	1	0.63	2	76	737	0.003	38.00	0.10	1.000	0.99999
3664	2	1.13	2	68	549	0.004	34.00	0.12	1.000	0.99999
3673	1	1.37	1	82	268	0.004	82.00	0.31	1.000	0.99999
3692	2	2.13	32	2,937	410	0.078	91.78	7.16	1.000	0.99984
3751	5	11.20	890	183,394	885	1.006	206.06	207.22	1.013	0.99536
3871	1	0.43	1	26	1,453	0.001	26.00	0.02	1.000	0.99999
3872	2	2.82	37	2,863	1,067	0.035	77.38	2.68	1.000	0.99994
3873	5	9.74	821	64,745	798	1.029	78.86	81.13	1.271	0.99818
3878	1	1.73	13	1,357	796	0.016	104.38	1.70	1.000	0.99996
3892	3	7.35	780	80,094	2,275	0.343	102.68	35.21	1.223	0.99921
3893	5	7.87	7	697	1,115	0.006	99.57	0.63	1.167	0.99999
3901	2	1.15	84	2,867	878	0.096	34.13	3.27	1.000	0.99993
3913	1	1.28	112	8,708	819	0.137	77.75	10.63	1.000	0.99976
3951	4	9.33	54	6,871	930	0.058	127.24	7.39	1.000	0.99983
3952	2	2.10	1,288	73,503	1,273	1.012	57.07	57.74	1.011	0.99871
3953	2	2.16	4	292	524	0.008	73.00	0.56	1.000	0.99999
3981	4	4.25	4	255	1,503	0.003	63.75	0.17	1.000	0.99999
3991	1	1.60	1	96	730	0.001	96.00	0.13	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4031	4	5.16	28	1,711	706	0.040	61.11	2.42	1.037	0.99995
4091	3	4.87	89	6,955	1,148	0.078	78.15	6.06	1.011	0.99986
4092	1	0.58	1	35	433	0.002	35.00	0.08	1.000	0.99999
4102	1	2.08	72	9,034	904	0.080	125.47	9.99	1.000	0.99978
4136	1	0.75	1	45	594	0.002	45.00	0.08	1.000	0.99999
4137	10	37.04	30	7,596	797	0.038	253.20	9.53	1.000	0.99979
4138	1	0.67	11	440	745	0.015	40.00	0.59	1.000	0.99999
4142	1	0.80	1	48	598	0.002	48.00	0.08	1.000	0.99999
4151	1	1.17	42	2,920	1,247	0.034	69.52	2.34	1.000	0.99995
4153	2	2.15	47	3,243	1,297	0.036	69.00	2.50	1.000	0.99994
4155	5	5.02	2,228	107,426	2,151	1.036	48.22	49.94	1.304	0.99888
4171	2	1.25	39	778	678	0.058	19.95	1.15	1.000	0.99997
4173	4	12.04	627	69,503	635	0.987	110.85	109.45	1.507	0.99755
4181	2	3.24	41	3,628	622	0.066	88.49	5.83	1.000	0.99987
4182	1	2.42	1	145	896	0.001	145.00	0.16	1.000	0.99999
4212	4	13.74	30	14,328	820	0.037	477.60	17.47	1.000	0.99961
4224	1	1.08	83	5,458	757	0.110	65.76	7.21	1.000	0.99984
4302	1	2.77	5	830	651	0.008	166.00	1.27	1.000	0.99997
4303	2	9.74	12	4,923	995	0.012	410.25	4.95	1.091	0.99989
4311	2	2.37	64	4,581	860	0.074	71.58	5.33	2.000	0.99988
4313	1	0.32	1	19	535	0.002	19.00	0.04	1.000	0.99999
4324	1	0.47	16	457	1,259	0.013	28.56	0.36	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4331	1	2.48	313	46,720	313	1.000	149.27	149.27	1.000	0.99666
4341	5	7.51	79	6,860	1,817	0.043	86.84	3.78	1.026	0.99992
4342	3	2.32	49	2,526	1,763	0.028	51.55	1.43	1.021	0.99997
4361	1	1.03	1	62	1,768	0.001	62.00	0.04	1.000	0.99999
4362	1	1.77	6	638	827	0.007	106.33	0.77	1.000	0.99998
4363	2	1.56	24	1,233	1,699	0.014	51.38	0.73	1.000	0.99998
4371	5	23.17	123	45,166	1,545	0.080	367.20	29.23	1.025	0.99935
4372	2	2.44	20	1,801	440	0.045	90.05	4.09	1.053	0.99991
4373	2	2.67	2	160	778	0.003	80.00	0.21	1.000	0.99999
4385	1	1.03	5	310	1,119	0.004	62.00	0.28	1.000	0.99999
4431	3	2.60	39	1,398	1,387	0.028	35.85	1.01	1.000	0.99998
4432	1	0.93	1	56	463	0.002	56.00	0.12	1.000	0.99999
4511	1	0.55	38	1,275	1,134	0.034	33.55	1.12	1.000	0.99997
4602	1	1.80	41	4,430	948	0.043	108.05	4.67	1.000	0.99990
4714	4	6.51	62	7,857	328	0.189	126.73	23.95	1.107	0.99946
5601	1	1.07	1	64	1,173	0.001	64.00	0.05	1.000	0.99999
5602	2	4.32	20	3,150	681	0.029	157.50	4.63	1.053	0.99990
5603	3	5.37	51	7,163	1,290	0.040	140.45	5.55	1.020	0.99988
5902	3	2.99	73	4,624	978	0.075	63.34	4.73	1.014	0.99989
5904	3	3.12	69	4,330	1,223	0.056	62.75	3.54	1.500	0.99992
5905	5	7.68	113	13,166	1,876	0.060	116.51	7.02	1.027	0.99984
6021	1	1.52	1	91	1,298	0.001	91.00	0.07	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
6023	1	1.33	1	80	128	0.008	80.00	0.63	1.000	0.99999
6024	1	0.52	9	283	394	0.023	31.44	0.72	1.000	0.99998
6141	1	0.55	391	13,111	632	0.619	33.53	20.75	1.000	0.99954
6142	2	5.70	2	342	311	0.006	171.00	1.10	1.000	0.99998
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	249	410.58	12,642	1,270,218	165,550	0.076	100.48	7.67	1.185	0.99983

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 9/1/2017 to 9/30/2017
 INCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1050	1	0.43	49	1,318	1,606	0.031	26.90	0.82	1.000	0.99998
1052	2	1.53	2	92	1,131	0.002	46.00	0.08	1.000	0.99999
1082	4	5.90	26	3,058	1,340	0.019	117.62	2.28	1.000	0.99995
1091	1	1.68	8	815	694	0.012	101.88	1.17	1.000	0.99997
1092	5	4.01	944	7,947	972	0.971	8.42	8.18	1.049	0.99981
1094	4	2.78	41	1,610	1,232	0.033	39.27	1.31	1.000	0.99997
1102	1	0.23	470	7,034	470	1.000	14.97	14.97	1.000	0.99965
1141	3	2.51	57	2,875	902	0.063	50.44	3.19	1.163	0.99993
1142	2	2.65	30	2,403	214	0.140	80.10	11.23	1.000	0.99974
1211	1	1.03	1	62	1,480	0.001	62.00	0.04	1.000	0.99999
1212	1	1.63	1	98	332	0.003	98.00	0.30	1.000	0.99999
1213	1	1.68	1	101	555	0.002	101.00	0.18	1.000	0.99999
1230	1	1.32	17	1,347	1,177	0.014	79.24	1.14	1.000	0.99997
1232	4	5.57	46	3,501	1,184	0.039	76.11	2.96	1.000	0.99993
1233	1	0.92	1	55	640	0.002	55.00	0.09	1.000	0.99999
1241	2	2.31	23	1,652	854	0.027	71.83	1.93	1.000	0.99996
1243	1	1.30	1	78	1,208	0.001	78.00	0.06	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1261	2	3.17	399	12,352	398	1.003	30.96	31.04	1.003	0.99928
1263	1	0.50	1,141	35,142	1,141	1.000	30.80	30.80	1.000	0.99929
1264	1	0.47	174	5,034	18	9.667	28.93	279.67	1.000	0.99353
1265	4	4.57	1,294	39,887	1,283	1.009	30.82	31.09	1.009	0.99928
1267	1	0.50	82	2,464	82	1.000	30.05	30.05	1.000	0.99930
1273	1	2.48	7	1,045	865	0.008	149.29	1.21	1.000	0.99997
1274	1	1.07	1	64	4	0.250	64.00	16.00	1.000	0.99963
1282	1	0.60	33	1,189	694	0.048	36.03	1.71	1.000	0.99996
1311	1	3.67	1	220	273	0.004	220.00	0.81	1.000	0.99998
1453	2	6.57	43	13,926	1,798	0.024	323.86	7.75	1.000	0.99982
1454	2	2.39	156	11,924	935	0.167	76.44	12.75	1.000	0.99970
1521	1	0.92	1	55	365	0.003	55.00	0.15	1.000	0.99999
1841	2	1.51	2	91	652	0.003	45.50	0.14	1.000	0.99999
1843	1	0.65	1	39	1,079	0.001	39.00	0.04	1.000	0.99999
2091	2	3.56	887	66,292	882	1.006	74.74	75.16	1.006	0.99826
2092	2	4.32	2	259	919	0.002	129.50	0.28	1.000	0.99999
2171	1	1.07	1	64	564	0.002	64.00	0.11	1.000	0.99999
2172	1	1.50	1	90	223	0.004	90.00	0.40	1.000	0.99999
2211	2	0.74	2	44	723	0.003	22.00	0.06	1.000	0.99999
2212	3	3.19	4	219	1,294	0.003	54.75	0.17	1.000	0.99999
2621	3	4.92	41	2,982	1,170	0.035	72.73	2.55	1.025	0.99994
2921	2	3.13	380	28,767	375	1.013	75.70	76.71	1.013	0.99822

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
2951	2	2.02	30	1,573	1,401	0.021	52.43	1.12	1.034	0.99997
2961	2	2.80	8	640	648	0.012	80.00	0.99	1.000	0.99998
3121	2	2.18	27	2,034	1,132	0.024	75.33	1.80	1.000	0.99996
3122	2	5.35	44	2,300	851	0.052	52.27	2.70	1.000	0.99994
3181	1	3.37	4	808	726	0.006	202.00	1.11	1.000	0.99997
3221	3	3.57	62	4,173	1,245	0.050	67.31	3.35	1.000	0.99992
3222	1	1.10	1	66	773	0.001	66.00	0.09	1.000	0.99999
3232	1	1.38	12	1,001	427	0.028	83.42	2.34	1.000	0.99995
3311	1	1.58	1	95	536	0.002	95.00	0.18	1.000	0.99999
3314	1	2.62	9	1,421	222	0.041	157.89	6.40	1.000	0.99985
3315	1	0.47	1	28	1,580	0.001	28.00	0.02	1.000	0.99999
3422	2	2.75	22	1,222	975	0.023	55.55	1.25	1.000	0.99997
3472	7	6.57	280	5,358	1,582	0.177	19.14	3.39	1.045	0.99992
3551	2	2.00	66	1,451	1,031	0.064	21.98	1.41	1.000	0.99997
3552	2	1.27	22	696	576	0.038	31.64	1.21	1.048	0.99997
3553	1	1.02	1	61	1,042	0.001	61.00	0.06	1.000	0.99999
3591	2	2.78	18	1,570	1,223	0.015	87.22	1.28	1.000	0.99997
3592	5	5.14	5	309	1,708	0.003	61.80	0.18	1.250	0.99999
3593	1	1.08	1	65	929	0.001	65.00	0.07	1.000	0.99999
3594	2	1.67	2	100	723	0.003	50.00	0.14	1.000	0.99999
3621	2	2.95	3,108	275,498	1,555	1.999	88.64	177.17	2.000	0.99590
3661	2	1.35	48	2,076	1,029	0.047	43.25	2.02	1.000	0.99995

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3662	3	1.37	3	82	783	0.004	27.33	0.10	1.000	0.99999
3664	1	1.20	1	72	549	0.002	72.00	0.13	1.000	0.99999
3671	1	3.85	1	231	503	0.002	231.00	0.46	1.000	0.99999
3673	1	0.12	61	457	268	0.228	7.49	1.71	1.000	0.99996
3692	1	1.50	1	90	410	0.002	90.00	0.22	1.000	0.99999
3694	3	3.77	7	409	1,330	0.005	58.43	0.31	1.167	0.99999
3701	2	1.20	5	162	493	0.010	32.40	0.33	1.000	0.99999
3702	1	0.95	1	57	611	0.002	57.00	0.09	1.000	0.99999
3751	1	1.08	1	65	885	0.001	65.00	0.07	1.000	0.99999
3871	3	2.54	31	1,699	1,453	0.021	54.81	1.17	1.000	0.99997
3872	1	0.80	26	1,263	1,067	0.024	48.58	1.18	1.000	0.99997
3878	3	2.60	799	11,848	796	1.004	14.83	14.88	1.013	0.99966
3891	2	1.58	2	95	457	0.004	47.50	0.21	1.000	0.99999
3892	2	1.84	544	50,407	1,390	0.391	92.66	36.26	1.006	0.99916
3893	2	2.45	4	339	1,115	0.004	84.75	0.30	1.000	0.99999
3901	2	2.05	10	832	878	0.011	83.20	0.95	1.000	0.99998
3903	3	3.89	56	4,312	299	0.187	77.00	14.42	1.000	0.99967
3912	2	12.27	18	6,629	1,164	0.015	368.28	5.70	1.125	0.99987
3951	7	13.83	95	7,706	930	0.102	81.12	8.29	1.011	0.99981
3952	4	3.86	71	5,790	1,273	0.056	81.55	4.55	1.014	0.99989
3971	2	2.95	18	1,436	665	0.027	79.78	2.16	1.059	0.99995
3981	2	1.26	6	241	1,503	0.004	40.17	0.16	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3991	2	1.87	50	2,711	730	0.068	54.22	3.71	1.000	0.99991
3992	1	1.32	22	1,742	166	0.133	79.18	10.49	1.000	0.99976
4031	2	5.85	78	5,097	706	0.110	65.35	7.22	1.013	0.99983
4101	3	5.88	72	9,512	592	0.122	132.11	16.07	1.014	0.99963
4102	5	8.28	77	9,789	904	0.085	127.13	10.83	1.041	0.99975
4133	1	1.55	26	2,435	642	0.040	93.65	3.79	1.000	0.99991
4134	3	3.38	3	203	836	0.004	67.67	0.24	1.000	0.99999
4137	8	6.60	40	2,136	797	0.050	53.40	2.68	1.000	0.99994
4138	1	0.50	11	340	745	0.015	30.91	0.46	1.000	0.99999
4142	1	0.85	37	1,895	598	0.062	51.22	3.17	1.000	0.99993
4151	4	3.18	140	5,835	710	0.197	41.68	8.22	1.772	0.99981
4153	2	1.83	68	3,774	1,297	0.052	55.50	2.91	1.000	0.99993
4154	1	1.62	14	1,369	1,218	0.011	97.79	1.12	1.000	0.99997
4155	11	18.64	130	13,080	2,151	0.060	100.62	6.08	1.226	0.99986
4171	4	3.16	41	523	678	0.060	12.76	0.77	1.000	0.99998
4172	4	3.19	83	5,348	1,725	0.048	64.43	3.10	1.092	0.99993
4181	1	1.02	1	61	622	0.002	61.00	0.10	1.000	0.99999
4182	2	7.52	27	2,637	896	0.030	97.67	2.94	1.000	0.99993
4212	3	10.33	11	916	820	0.013	83.27	1.12	1.000	0.99997
4302	2	2.45	2	147	651	0.003	73.50	0.23	1.000	0.99999
4303	1	4.72	6	1,701	995	0.006	283.50	1.71	1.000	0.99996
4311	2	1.28	861	51,245	858	1.003	59.52	59.73	1.001	0.99862

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4312	1	0.83	1	50	844	0.001	50.00	0.06	1.000	0.99999
4333	1	0.47	1	28	684	0.001	28.00	0.04	1.000	0.99999
4341	6	5.66	35	2,304	1,817	0.019	65.83	1.27	1.029	0.99997
4343	3	2.45	27	1,287	1,028	0.026	47.67	1.25	1.080	0.99997
4361	2	0.60	2	36	1,768	0.001	18.00	0.02	1.000	0.99999
4362	1	0.70	1	42	827	0.001	42.00	0.05	1.000	0.99999
4363	2	1.05	2	63	1,699	0.001	31.50	0.04	1.000	0.99999
4371	4	5.00	18	1,532	1,545	0.012	85.11	0.99	1.059	0.99998
4373	1	0.58	1	35	776	0.001	35.00	0.05	1.000	0.99999
4385	2	0.87	152	6,512	1,119	0.136	42.84	5.82	1.007	0.99987
4386	1	2.20	1	132	1,662	0.001	132.00	0.08	1.000	0.99999
4431	4	4.87	4	292	1,387	0.003	73.00	0.21	1.000	0.99999
4475	1	0.45	1	27	14	0.071	27.00	1.93	1.000	0.99996
4476	4	1.24	4	74	32	0.125	18.50	2.31	1.000	0.99995
4511	1	1.85	9	1,000	1,134	0.008	111.11	0.88	1.000	0.99998
455	1	1.00	1	60	168	0.006	60.00	0.36	1.000	0.99999
457	1	0.90	1	54	179	0.006	54.00	0.30	1.000	0.99999
4601	1	1.22	3	219	417	0.007	73.00	0.53	1.000	0.99999
4602	5	4.19	112	6,066	947	0.118	54.16	6.41	1.018	0.99985
4692	1	1.27	1	76	471	0.002	76.00	0.16	1.000	0.99999
4714	1	2.12	1	127	328	0.003	127.00	0.39	1.000	0.99999
5601	9	9.33	124	5,278	1,172	0.106	42.56	4.50	1.016	0.99990

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
5602	3	3.58	4	330	681	0.006	82.50	0.48	1.000	0.99999
5603	5	4.87	145	7,601	1,290	0.112	52.42	5.89	1.051	0.99986
5641	1	2.08	1	125	322	0.003	125.00	0.39	1.000	0.99999
5905	1	0.73	29	1,287	1,876	0.015	44.38	0.69	1.000	0.99998
6021	3	2.58	21	1,273	1,298	0.016	60.62	0.98	1.050	0.99998
6141	1	1.58	391	37,399	632	0.619	95.65	59.18	1.000	0.99863
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	297	370.25	14,797	848,767	164,060	0.090	57.36	5.17	1.136	0.99988

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI

9/1/2017 to 9/30/2017

EXCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1050	1	0.43	49	1,318	1,606	0.031	26.90	0.82	1.000	0.99998
1052	2	1.53	2	92	1,131	0.002	46.00	0.08	1.000	0.99999
1082	4	5.90	26	3,058	1,340	0.019	117.62	2.28	1.000	0.99995
1091	1	1.68	8	815	694	0.012	101.88	1.17	1.000	0.99997
1092	5	4.01	944	7,947	972	0.971	8.42	8.18	1.049	0.99981
1094	4	2.78	41	1,610	1,232	0.033	39.27	1.31	1.000	0.99997
1102	1	0.23	470	7,034	470	1.000	14.97	14.97	1.000	0.99965
1141	3	2.51	57	2,875	902	0.063	50.44	3.19	1.163	0.99993
1142	2	2.65	30	2,403	214	0.140	80.10	11.23	1.000	0.99974
1211	1	1.03	1	62	1,480	0.001	62.00	0.04	1.000	0.99999
1212	1	1.63	1	98	332	0.003	98.00	0.30	1.000	0.99999
1213	1	1.68	1	101	555	0.002	101.00	0.18	1.000	0.99999
1230	1	1.32	17	1,347	1,177	0.014	79.24	1.14	1.000	0.99997
1232	4	5.57	46	3,501	1,184	0.039	76.11	2.96	1.000	0.99993
1233	1	0.92	1	55	640	0.002	55.00	0.09	1.000	0.99999
1241	2	2.31	23	1,652	854	0.027	71.83	1.93	1.000	0.99996
1243	1	1.30	1	78	1,208	0.001	78.00	0.06	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1261	2	3.17	399	12,352	398	1.003	30.96	31.04	1.003	0.99928
1263	1	0.50	1,141	35,142	1,141	1.000	30.80	30.80	1.000	0.99929
1264	1	0.47	174	5,034	18	9.667	28.93	279.67	1.000	0.99353
1265	4	4.57	1,294	39,887	1,283	1.009	30.82	31.09	1.009	0.99928
1267	1	0.50	82	2,464	82	1.000	30.05	30.05	1.000	0.99930
1273	1	2.48	7	1,045	865	0.008	149.29	1.21	1.000	0.99997
1274	1	1.07	1	64	4	0.250	64.00	16.00	1.000	0.99963
1282	1	0.60	33	1,189	694	0.048	36.03	1.71	1.000	0.99996
1311	1	3.67	1	220	273	0.004	220.00	0.81	1.000	0.99998
1453	2	6.57	43	13,926	1,798	0.024	323.86	7.75	1.000	0.99982
1454	2	2.39	156	11,924	935	0.167	76.44	12.75	1.000	0.99970
1521	1	0.92	1	55	365	0.003	55.00	0.15	1.000	0.99999
1841	2	1.51	2	91	652	0.003	45.50	0.14	1.000	0.99999
1843	1	0.65	1	39	1,079	0.001	39.00	0.04	1.000	0.99999
2091	2	3.56	887	66,292	882	1.006	74.74	75.16	1.006	0.99826
2092	2	4.32	2	259	919	0.002	129.50	0.28	1.000	0.99999
2171	1	1.07	1	64	564	0.002	64.00	0.11	1.000	0.99999
2172	1	1.50	1	90	223	0.004	90.00	0.40	1.000	0.99999
2211	2	0.74	2	44	723	0.003	22.00	0.06	1.000	0.99999
2212	3	3.19	4	219	1,294	0.003	54.75	0.17	1.000	0.99999
2621	3	4.92	41	2,982	1,170	0.035	72.73	2.55	1.025	0.99994
2921	2	3.13	380	28,767	375	1.013	75.70	76.71	1.013	0.99822

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
2951	2	2.02	30	1,573	1,401	0.021	52.43	1.12	1.034	0.99997
2961	2	2.80	8	640	648	0.012	80.00	0.99	1.000	0.99998
3121	2	2.18	27	2,034	1,132	0.024	75.33	1.80	1.000	0.99996
3122	2	5.35	44	2,300	851	0.052	52.27	2.70	1.000	0.99994
3181	1	3.37	4	808	726	0.006	202.00	1.11	1.000	0.99997
3221	3	3.57	62	4,173	1,245	0.050	67.31	3.35	1.000	0.99992
3222	1	1.10	1	66	773	0.001	66.00	0.09	1.000	0.99999
3232	1	1.38	12	1,001	427	0.028	83.42	2.34	1.000	0.99995
3311	1	1.58	1	95	536	0.002	95.00	0.18	1.000	0.99999
3314	1	2.62	9	1,421	222	0.041	157.89	6.40	1.000	0.99985
3315	1	0.47	1	28	1,580	0.001	28.00	0.02	1.000	0.99999
3422	2	2.75	22	1,222	975	0.023	55.55	1.25	1.000	0.99997
3472	7	6.57	280	5,358	1,582	0.177	19.14	3.39	1.045	0.99992
3551	2	2.00	66	1,451	1,031	0.064	21.98	1.41	1.000	0.99997
3552	2	1.27	22	696	576	0.038	31.64	1.21	1.048	0.99997
3553	1	1.02	1	61	1,042	0.001	61.00	0.06	1.000	0.99999
3591	2	2.78	18	1,570	1,223	0.015	87.22	1.28	1.000	0.99997
3592	5	5.14	5	309	1,708	0.003	61.80	0.18	1.250	0.99999
3593	1	1.08	1	65	929	0.001	65.00	0.07	1.000	0.99999
3594	2	1.67	2	100	723	0.003	50.00	0.14	1.000	0.99999
3621	2	2.95	3,108	275,498	1,555	1.999	88.64	177.17	2.000	0.99590
3661	2	1.35	48	2,076	1,029	0.047	43.25	2.02	1.000	0.99995

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3662	3	1.37	3	82	783	0.004	27.33	0.10	1.000	0.99999
3664	1	1.20	1	72	549	0.002	72.00	0.13	1.000	0.99999
3671	1	3.85	1	231	503	0.002	231.00	0.46	1.000	0.99999
3673	1	0.12	61	457	268	0.228	7.49	1.71	1.000	0.99996
3692	1	1.50	1	90	410	0.002	90.00	0.22	1.000	0.99999
3694	3	3.77	7	409	1,330	0.005	58.43	0.31	1.167	0.99999
3701	2	1.20	5	162	493	0.010	32.40	0.33	1.000	0.99999
3702	1	0.95	1	57	611	0.002	57.00	0.09	1.000	0.99999
3751	1	1.08	1	65	885	0.001	65.00	0.07	1.000	0.99999
3871	3	2.54	31	1,699	1,453	0.021	54.81	1.17	1.000	0.99997
3872	1	0.80	26	1,263	1,067	0.024	48.58	1.18	1.000	0.99997
3878	3	2.60	799	11,848	796	1.004	14.83	14.88	1.013	0.99966
3891	2	1.58	2	95	457	0.004	47.50	0.21	1.000	0.99999
3892	2	1.84	544	50,407	1,390	0.391	92.66	36.26	1.006	0.99916
3893	2	2.45	4	339	1,115	0.004	84.75	0.30	1.000	0.99999
3901	2	2.05	10	832	878	0.011	83.20	0.95	1.000	0.99998
3903	3	3.89	56	4,312	299	0.187	77.00	14.42	1.000	0.99967
3912	2	12.27	18	6,629	1,164	0.015	368.28	5.70	1.125	0.99987
3951	7	13.83	95	7,706	930	0.102	81.12	8.29	1.011	0.99981
3952	4	3.86	71	5,790	1,273	0.056	81.55	4.55	1.014	0.99989
3971	2	2.95	18	1,436	665	0.027	79.78	2.16	1.059	0.99995
3981	2	1.26	6	241	1,503	0.004	40.17	0.16	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3991	2	1.87	50	2,711	730	0.068	54.22	3.71	1.000	0.99991
3992	1	1.32	22	1,742	166	0.133	79.18	10.49	1.000	0.99976
4031	2	5.85	78	5,097	706	0.110	65.35	7.22	1.013	0.99983
4101	3	5.88	72	9,512	592	0.122	132.11	16.07	1.014	0.99963
4102	5	8.28	77	9,789	904	0.085	127.13	10.83	1.041	0.99975
4133	1	1.55	26	2,435	642	0.040	93.65	3.79	1.000	0.99991
4134	3	3.38	3	203	836	0.004	67.67	0.24	1.000	0.99999
4137	8	6.60	40	2,136	797	0.050	53.40	2.68	1.000	0.99994
4138	1	0.50	11	340	745	0.015	30.91	0.46	1.000	0.99999
4142	1	0.85	37	1,895	598	0.062	51.22	3.17	1.000	0.99993
4151	4	3.18	140	5,835	710	0.197	41.68	8.22	1.772	0.99981
4153	2	1.83	68	3,774	1,297	0.052	55.50	2.91	1.000	0.99993
4154	1	1.62	14	1,369	1,218	0.011	97.79	1.12	1.000	0.99997
4155	11	18.64	130	13,080	2,151	0.060	100.62	6.08	1.226	0.99986
4171	4	3.16	41	523	678	0.060	12.76	0.77	1.000	0.99998
4172	4	3.19	83	5,348	1,725	0.048	64.43	3.10	1.092	0.99993
4181	1	1.02	1	61	622	0.002	61.00	0.10	1.000	0.99999
4182	2	7.52	27	2,637	896	0.030	97.67	2.94	1.000	0.99993
4212	3	10.33	11	916	820	0.013	83.27	1.12	1.000	0.99997
4302	2	2.45	2	147	651	0.003	73.50	0.23	1.000	0.99999
4303	1	4.72	6	1,701	995	0.006	283.50	1.71	1.000	0.99996
4311	2	1.28	861	51,245	858	1.003	59.52	59.73	1.001	0.99862

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4312	1	0.83	1	50	844	0.001	50.00	0.06	1.000	0.99999
4333	1	0.47	1	28	684	0.001	28.00	0.04	1.000	0.99999
4341	6	5.66	35	2,304	1,817	0.019	65.83	1.27	1.029	0.99997
4343	3	2.45	27	1,287	1,028	0.026	47.67	1.25	1.080	0.99997
4361	2	0.60	2	36	1,768	0.001	18.00	0.02	1.000	0.99999
4362	1	0.70	1	42	827	0.001	42.00	0.05	1.000	0.99999
4363	2	1.05	2	63	1,699	0.001	31.50	0.04	1.000	0.99999
4371	4	5.00	18	1,532	1,545	0.012	85.11	0.99	1.059	0.99998
4373	1	0.58	1	35	776	0.001	35.00	0.05	1.000	0.99999
4385	2	0.87	152	6,512	1,119	0.136	42.84	5.82	1.007	0.99987
4386	1	2.20	1	132	1,662	0.001	132.00	0.08	1.000	0.99999
4431	4	4.87	4	292	1,387	0.003	73.00	0.21	1.000	0.99999
4475	1	0.45	1	27	14	0.071	27.00	1.93	1.000	0.99996
4476	4	1.24	4	74	32	0.125	18.50	2.31	1.000	0.99995
4511	1	1.85	9	1,000	1,134	0.008	111.11	0.88	1.000	0.99998
455	1	1.00	1	60	168	0.006	60.00	0.36	1.000	0.99999
457	1	0.90	1	54	179	0.006	54.00	0.30	1.000	0.99999
4601	1	1.22	3	219	417	0.007	73.00	0.53	1.000	0.99999
4602	5	4.19	112	6,066	947	0.118	54.16	6.41	1.018	0.99985
4692	1	1.27	1	76	471	0.002	76.00	0.16	1.000	0.99999
4714	1	2.12	1	127	328	0.003	127.00	0.39	1.000	0.99999
5601	9	9.33	124	5,278	1,172	0.106	42.56	4.50	1.016	0.99990

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
5602	3	3.58	4	330	681	0.006	82.50	0.48	1.000	0.99999
5603	5	4.87	145	7,601	1,290	0.112	52.42	5.89	1.051	0.99986
5641	1	2.08	1	125	322	0.003	125.00	0.39	1.000	0.99999
5905	1	0.73	29	1,287	1,876	0.015	44.38	0.69	1.000	0.99998
6021	3	2.58	21	1,273	1,298	0.016	60.62	0.98	1.050	0.99998
6141	1	1.58	391	37,399	632	0.619	95.65	59.18	1.000	0.99863
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	297	370.25	14,797	848,767	164,060	0.090	57.36	5.17	1.136	0.99988

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 10/1/2017 to 10/31/2017
 INCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1052	2	1.13	43	923	1,131	0.038	21.47	0.82	1.024	0.99998
1082	2	7.83	2	470	1,340	0.001	235.00	0.35	1.000	0.99999
1084	1	0.77	1	46	5	0.200	46.00	9.20	1.000	0.99979
1091	1	7.02	692	291,770	693	0.999	421.63	421.02	1.000	0.99057
1092	7	85.95	520	537,893	972	0.535	1034.41	553.39	1.268	0.98760
1093	4	10.28	47	12,090	239	0.197	257.23	50.59	1.044	0.99887
1094	4	8.48	386	53,466	1,232	0.313	138.51	43.40	1.122	0.99903
1211	3	3.30	3	198	1,480	0.002	66.00	0.13	1.000	0.99999
1212	1	2.08	1	125	332	0.003	125.00	0.38	1.000	0.99999
1213	4	4.90	4	294	555	0.007	73.50	0.53	1.000	0.99999
1230	2	2.43	71	3,494	1,177	0.060	49.21	2.97	1.000	0.99993
1232	3	4.80	45	1,565	1,184	0.038	34.78	1.32	1.023	0.99997
1241	1	1.88	1	113	854	0.001	113.00	0.13	1.000	0.99999
1243	2	3.23	2	194	1,208	0.002	97.00	0.16	1.000	0.99999
1265	2	2.04	10	490	1,283	0.008	49.00	0.38	1.000	0.99999
1273	1	1.67	1	100	865	0.001	100.00	0.12	1.000	0.99999
1282	3	2.62	74	3,961	694	0.107	53.53	5.71	1.000	0.99987

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1283	2	1.25	2	75	357	0.006	37.50	0.21	1.000	0.99999
1284	6	7.26	103	9,051	949	0.109	87.87	9.54	1.170	0.99979
1285	1	1.72	41	4,194	1,093	0.038	102.29	3.84	1.000	0.99991
1286	1	1.28	1	77	58	0.017	77.00	1.33	1.000	0.99997
1312	1	4.43	47	12,353	939	0.050	262.83	13.16	1.000	0.99971
1452	1	0.80	4	194	449	0.009	48.50	0.43	1.000	0.99999
1453	2	1.67	51	3,636	1,798	0.028	71.29	2.02	1.000	0.99995
1454	1	0.97	1	58	935	0.001	58.00	0.06	1.000	0.99999
1455	2	2.21	44	2,938	392	0.112	66.77	7.49	1.000	0.99983
1523	2	1.60	2	96	733	0.003	48.00	0.13	1.000	0.99999
2091	1	0.53	11	352	882	0.012	32.00	0.40	1.000	0.99999
2092	1	1.13	7	477	919	0.008	68.14	0.52	1.000	0.99999
2171	1	1.37	59	4,864	564	0.105	82.44	8.62	1.000	0.99981
2211	2	1.50	18	678	723	0.025	37.67	0.94	1.000	0.99998
2621	1	1.08	1	65	1,170	0.001	65.00	0.06	1.000	0.99999
2951	3	7.13	17	4,975	1,401	0.012	292.65	3.55	1.133	0.99992
2961	7	10.88	156	15,651	648	0.241	100.33	24.15	1.182	0.99946
3121	2	3.88	1,133	136,707	1,132	1.001	120.66	120.77	1.001	0.99729
3122	1	1.88	31	3,527	851	0.036	113.77	4.14	1.000	0.99991
3181	1	3.58	726	156,392	726	1.000	215.42	215.42	1.000	0.99517
3221	3	6.40	57	6,840	1,245	0.046	120.00	5.49	1.036	0.99988
3222	3	1.94	15	568	773	0.019	37.87	0.73	1.071	0.99998

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3232	1	4.72	427	121,083	427	1.000	283.57	283.57	1.000	0.99365
3301	1	1.33	17	1,366	740	0.023	80.35	1.85	1.000	0.99996
3303	2	1.32	36	1,487	972	0.037	41.31	1.53	1.000	0.99997
3311	1	0.27	30	504	536	0.056	16.80	0.94	1.000	0.99998
3313	3	4.33	21	1,547	1,344	0.016	73.67	1.15	1.000	0.99997
3314	1	1.87	1	112	222	0.005	112.00	0.50	1.000	0.99999
3315	4	4.43	55	1,496	1,580	0.035	27.20	0.95	1.078	0.99998
3421	2	4.00	295	22,191	294	1.003	75.22	75.48	1.003	0.99831
3422	3	4.40	986	87,459	975	1.011	88.70	89.70	1.022	0.99799
3423	1	1.25	387	29,057	387	1.000	75.08	75.08	1.000	0.99832
3472	4	3.55	53	5,496	1,582	0.034	103.70	3.47	1.104	0.99992
3551	1	1.43	1,031	89,616	1,031	1.000	86.92	86.92	1.000	0.99805
3553	1	1.48	1	89	1,040	0.001	89.00	0.09	1.000	0.99999
3591	2	1.27	9	337	1,223	0.007	37.44	0.28	1.000	0.99999
3592	9	7.00	93	4,112	1,708	0.054	44.22	2.41	1.011	0.99995
3621	3	8.43	71	14,369	1,555	0.046	202.38	9.24	1.000	0.99979
3663	3	2.18	31	1,332	737	0.042	42.97	1.81	1.033	0.99996
3664	2	0.75	2	45	549	0.004	22.50	0.08	1.000	0.99999
3691	2	2.11	44	2,808	1,163	0.038	63.82	2.41	1.100	0.99995
3693	1	0.93	9	509	187	0.048	56.56	2.72	1.000	0.99994
3701	1	0.63	1	38	493	0.002	38.00	0.08	1.000	0.99999
3751	1	0.68	8	332	885	0.009	41.50	0.38	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3871	1	0.63	1	38	1,404	0.001	38.00	0.03	1.000	0.99999
3873	1	0.92	1	55	798	0.001	55.00	0.07	1.000	0.99999
3891	3	5.30	13	948	457	0.028	72.92	2.07	1.000	0.99995
3893	2	3.69	8	539	1,115	0.007	67.38	0.48	1.143	0.99999
3901	2	5.53	16	1,215	878	0.018	75.94	1.38	1.000	0.99997
3903	1	0.98	1	59	299	0.003	59.00	0.20	1.000	0.99999
3913	1	0.70	53	2,256	819	0.065	42.57	2.75	1.000	0.99994
3914	1	0.83	1	50	375	0.003	50.00	0.13	1.000	0.99999
3951	5	8.70	55	5,522	930	0.059	100.40	5.94	1.222	0.99987
3952	2	1.75	3	152	1,273	0.002	50.67	0.12	1.000	0.99999
3953	2	2.27	2	136	524	0.004	68.00	0.26	2.000	0.99999
3971	1	0.57	50	1,711	665	0.075	34.22	2.57	1.000	0.99994
3981	7	9.62	156	17,267	1,503	0.104	110.69	11.49	1.000	0.99974
3982	5	3.38	169	5,981	1,771	0.095	35.39	3.38	1.000	0.99992
3991	4	4.27	80	5,267	730	0.110	65.84	7.22	1.013	0.99984
401	3	5.98	324	39,032	108	3.000	120.47	361.41	3.000	0.99190
402	3	5.03	3	302	107	0.028	100.67	2.82	1.000	0.99994
403	2	3.56	268	30,454	267	1.004	113.63	114.06	1.004	0.99744
4031	1	0.77	1	46	706	0.001	46.00	0.07	1.000	0.99999
404	1	1.87	169	19,040	169	1.000	112.66	112.66	1.000	0.99748
406	1	1.85	71	7,912	71	1.000	111.44	111.44	1.000	0.99750
407	1	1.52	1	91	103	0.010	91.00	0.88	1.000	0.99998

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4091	1	1.43	1,148	99,818	1,148	1.000	86.95	86.95	1.000	0.99805
4092	2	1.94	444	37,189	433	1.025	83.76	85.89	1.025	0.99808
4131	1	1.57	1	94	200	0.005	94.00	0.47	1.000	0.99999
4138	2	0.86	750	19,612	745	1.007	26.15	26.32	1.007	0.99941
4142	1	1.33	1	80	598	0.002	80.00	0.13	1.000	0.99999
4153	2	3.70	403	47,994	1,297	0.311	119.09	37.00	1.002	0.99917
4154	1	1.23	1	74	1,218	0.001	74.00	0.06	1.000	0.99999
4171	5	3.28	72	3,156	678	0.106	43.83	4.65	1.263	0.99990
4172	3	3.88	29	1,475	1,725	0.017	50.86	0.86	1.074	0.99998
4181	4	7.43	59	7,570	622	0.095	128.31	12.17	1.017	0.99973
4182	1	0.98	23	1,373	896	0.026	59.70	1.53	1.000	0.99997
4211	4	7.09	18	3,263	710	0.025	181.28	4.60	1.125	0.99990
4212	2	3.04	36	3,736	820	0.044	103.78	4.56	1.000	0.99990
4222	1	0.73	1	44	1,045	0.001	44.00	0.04	1.000	0.99999
4224	1	1.03	1	62	757	0.001	62.00	0.08	1.000	0.99999
4302	1	2.78	651	108,847	651	1.000	167.20	167.20	1.000	0.99625
4303	1	4.78	1	287	995	0.001	287.00	0.29	1.000	0.99999
432	1	1.38	1	83	89	0.011	83.00	0.93	1.000	0.99998
4331	1	1.55	1	93	313	0.003	93.00	0.30	1.000	0.99999
4341	1	1.45	1	87	1,817	0.001	87.00	0.05	1.000	0.99999
4362	1	0.70	24	1,004	827	0.029	41.83	1.21	1.000	0.99997
4363	4	5.13	35	2,616	1,699	0.021	74.74	1.54	1.061	0.99997

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4371	3	1.87	23	736	1,544	0.015	32.00	0.48	1.045	0.99999
4372	4	4.62	26	1,470	440	0.059	56.54	3.34	1.083	0.99993
4386	2	6.05	2	363	1,662	0.001	181.50	0.22	1.000	0.99999
4431	8	23.03	1,576	174,462	1,387	1.136	110.70	125.78	1.259	0.99718
4601	1	1.85	1	111	417	0.002	111.00	0.27	1.000	0.99999
4602	2	1.86	75	5,093	947	0.079	67.91	5.38	1.000	0.99988
4692	1	1.28	1	77	471	0.002	77.00	0.16	1.000	0.99999
4714	1	2.18	1	131	328	0.003	131.00	0.40	1.000	0.99999
5601	7	6.43	294	17,929	1,172	0.251	60.98	15.30	1.885	0.99966
5904	1	0.83	45	2,263	1,223	0.037	50.29	1.85	1.000	0.99996
5905	2	2.12	92	5,468	1,876	0.049	59.43	2.91	1.000	0.99993
6021	2	1.93	67	4,756	1,298	0.052	70.99	3.66	1.000	0.99992
6022	1	1.10	23	1,519	489	0.047	66.04	3.11	1.000	0.99993
6024	1	0.80	9	435	394	0.023	48.33	1.10	1.000	0.99998
6143	1	2.18	1	131	373	0.003	131.00	0.35	1.000	0.99999
6144	1	1.42	1	85	322	0.003	85.00	0.26	1.000	0.99999
6393	1	1.93	1	116	2	0.500	116.00	58.00	1.000	0.99870
NUMBER OF OUTAGES		OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	267	461.75	15,423	2,348,120	165,477	0.093	152.25	14.19	1.066	0.99968

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 10/1/2017 to 10/31/2017
 EXCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1052	2	1.13	43	923	1,131	0.038	21.47	0.82	1.024	0.99998
1082	2	7.83	2	470	1,340	0.001	235.00	0.35	1.000	0.99999
1084	1	0.77	1	46	5	0.200	46.00	9.20	1.000	0.99979
1091	1	7.02	692	291,770	693	0.999	421.63	421.02	1.000	0.99057
1092	7	85.95	520	537,893	972	0.535	1034.41	553.39	1.268	0.98760
1093	4	10.28	47	12,090	239	0.197	257.23	50.59	1.044	0.99887
1094	4	8.48	386	53,466	1,232	0.313	138.51	43.40	1.122	0.99903
1211	3	3.30	3	198	1,480	0.002	66.00	0.13	1.000	0.99999
1212	1	2.08	1	125	332	0.003	125.00	0.38	1.000	0.99999
1213	4	4.90	4	294	555	0.007	73.50	0.53	1.000	0.99999
1230	2	2.43	71	3,494	1,177	0.060	49.21	2.97	1.000	0.99993
1232	3	4.80	45	1,565	1,184	0.038	34.78	1.32	1.023	0.99997
1241	1	1.88	1	113	854	0.001	113.00	0.13	1.000	0.99999
1243	2	3.23	2	194	1,208	0.002	97.00	0.16	1.000	0.99999
1265	2	2.04	10	490	1,283	0.008	49.00	0.38	1.000	0.99999
1273	1	1.67	1	100	865	0.001	100.00	0.12	1.000	0.99999
1282	3	2.62	74	3,961	694	0.107	53.53	5.71	1.000	0.99987

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1283	2	1.25	2	75	357	0.006	37.50	0.21	1.000	0.99999
1284	6	7.26	103	9,051	949	0.109	87.87	9.54	1.170	0.99979
1285	1	1.72	41	4,194	1,093	0.038	102.29	3.84	1.000	0.99991
1286	1	1.28	1	77	58	0.017	77.00	1.33	1.000	0.99997
1312	1	4.43	47	12,353	939	0.050	262.83	13.16	1.000	0.99971
1452	1	0.80	4	194	449	0.009	48.50	0.43	1.000	0.99999
1453	2	1.67	51	3,636	1,798	0.028	71.29	2.02	1.000	0.99995
1454	1	0.97	1	58	935	0.001	58.00	0.06	1.000	0.99999
1455	2	2.21	44	2,938	392	0.112	66.77	7.49	1.000	0.99983
1523	2	1.60	2	96	733	0.003	48.00	0.13	1.000	0.99999
2091	1	0.53	11	352	882	0.012	32.00	0.40	1.000	0.99999
2092	1	1.13	7	477	919	0.008	68.14	0.52	1.000	0.99999
2171	1	1.37	59	4,864	564	0.105	82.44	8.62	1.000	0.99981
2211	2	1.50	18	678	723	0.025	37.67	0.94	1.000	0.99998
2621	1	1.08	1	65	1,170	0.001	65.00	0.06	1.000	0.99999
2951	3	7.13	17	4,975	1,401	0.012	292.65	3.55	1.133	0.99992
2961	7	10.88	156	15,651	648	0.241	100.33	24.15	1.182	0.99946
3121	2	3.88	1,133	136,707	1,132	1.001	120.66	120.77	1.001	0.99729
3122	1	1.88	31	3,527	851	0.036	113.77	4.14	1.000	0.99991
3181	1	3.58	726	156,392	726	1.000	215.42	215.42	1.000	0.99517
3221	3	6.40	57	6,840	1,245	0.046	120.00	5.49	1.036	0.99988
3222	3	1.94	15	568	773	0.019	37.87	0.73	1.071	0.99998

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3232	1	4.72	427	121,083	427	1.000	283.57	283.57	1.000	0.99365
3301	1	1.33	17	1,366	740	0.023	80.35	1.85	1.000	0.99996
3303	2	1.32	36	1,487	972	0.037	41.31	1.53	1.000	0.99997
3311	1	0.27	30	504	536	0.056	16.80	0.94	1.000	0.99998
3313	3	4.33	21	1,547	1,344	0.016	73.67	1.15	1.000	0.99997
3314	1	1.87	1	112	222	0.005	112.00	0.50	1.000	0.99999
3315	4	4.43	55	1,496	1,580	0.035	27.20	0.95	1.078	0.99998
3421	2	4.00	295	22,191	294	1.003	75.22	75.48	1.003	0.99831
3422	3	4.40	986	87,459	975	1.011	88.70	89.70	1.022	0.99799
3423	1	1.25	387	29,057	387	1.000	75.08	75.08	1.000	0.99832
3472	4	3.55	53	5,496	1,582	0.034	103.70	3.47	1.104	0.99992
3551	1	1.43	1,031	89,616	1,031	1.000	86.92	86.92	1.000	0.99805
3553	1	1.48	1	89	1,040	0.001	89.00	0.09	1.000	0.99999
3591	2	1.27	9	337	1,223	0.007	37.44	0.28	1.000	0.99999
3592	9	7.00	93	4,112	1,708	0.054	44.22	2.41	1.011	0.99995
3621	3	8.43	71	14,369	1,555	0.046	202.38	9.24	1.000	0.99979
3663	3	2.18	31	1,332	737	0.042	42.97	1.81	1.033	0.99996
3664	2	0.75	2	45	549	0.004	22.50	0.08	1.000	0.99999
3691	2	2.11	44	2,808	1,163	0.038	63.82	2.41	1.100	0.99995
3693	1	0.93	9	509	187	0.048	56.56	2.72	1.000	0.99994
3701	1	0.63	1	38	493	0.002	38.00	0.08	1.000	0.99999
3751	1	0.68	8	332	885	0.009	41.50	0.38	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3871	1	0.63	1	38	1,404	0.001	38.00	0.03	1.000	0.99999
3873	1	0.92	1	55	798	0.001	55.00	0.07	1.000	0.99999
3891	3	5.30	13	948	457	0.028	72.92	2.07	1.000	0.99995
3893	2	3.69	8	539	1,115	0.007	67.38	0.48	1.143	0.99999
3901	2	5.53	16	1,215	878	0.018	75.94	1.38	1.000	0.99997
3903	1	0.98	1	59	299	0.003	59.00	0.20	1.000	0.99999
3913	1	0.70	53	2,256	819	0.065	42.57	2.75	1.000	0.99994
3914	1	0.83	1	50	375	0.003	50.00	0.13	1.000	0.99999
3951	5	8.70	55	5,522	930	0.059	100.40	5.94	1.222	0.99987
3952	2	1.75	3	152	1,273	0.002	50.67	0.12	1.000	0.99999
3953	2	2.27	2	136	524	0.004	68.00	0.26	2.000	0.99999
3971	1	0.57	50	1,711	665	0.075	34.22	2.57	1.000	0.99994
3981	7	9.62	156	17,267	1,503	0.104	110.69	11.49	1.000	0.99974
3982	5	3.38	169	5,981	1,771	0.095	35.39	3.38	1.000	0.99992
3991	4	4.27	80	5,267	730	0.110	65.84	7.22	1.013	0.99984
401	3	5.98	324	39,032	108	3.000	120.47	361.41	3.000	0.99190
402	3	5.03	3	302	107	0.028	100.67	2.82	1.000	0.99994
403	2	3.56	268	30,454	267	1.004	113.63	114.06	1.004	0.99744
4031	1	0.77	1	46	706	0.001	46.00	0.07	1.000	0.99999
404	1	1.87	169	19,040	169	1.000	112.66	112.66	1.000	0.99748
406	1	1.85	71	7,912	71	1.000	111.44	111.44	1.000	0.99750
407	1	1.52	1	91	103	0.010	91.00	0.88	1.000	0.99998

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4091	1	1.43	1,148	99,818	1,148	1.000	86.95	86.95	1.000	0.99805
4092	2	1.94	444	37,189	433	1.025	83.76	85.89	1.025	0.99808
4131	1	1.57	1	94	200	0.005	94.00	0.47	1.000	0.99999
4138	2	0.86	750	19,612	745	1.007	26.15	26.32	1.007	0.99941
4142	1	1.33	1	80	598	0.002	80.00	0.13	1.000	0.99999
4153	2	3.70	403	47,994	1,297	0.311	119.09	37.00	1.002	0.99917
4154	1	1.23	1	74	1,218	0.001	74.00	0.06	1.000	0.99999
4171	5	3.28	72	3,156	678	0.106	43.83	4.65	1.263	0.99990
4172	3	3.88	29	1,475	1,725	0.017	50.86	0.86	1.074	0.99998
4181	4	7.43	59	7,570	622	0.095	128.31	12.17	1.017	0.99973
4182	1	0.98	23	1,373	896	0.026	59.70	1.53	1.000	0.99997
4211	4	7.09	18	3,263	710	0.025	181.28	4.60	1.125	0.99990
4212	2	3.04	36	3,736	820	0.044	103.78	4.56	1.000	0.99990
4222	1	0.73	1	44	1,045	0.001	44.00	0.04	1.000	0.99999
4224	1	1.03	1	62	757	0.001	62.00	0.08	1.000	0.99999
4302	1	2.78	651	108,847	651	1.000	167.20	167.20	1.000	0.99625
4303	1	4.78	1	287	995	0.001	287.00	0.29	1.000	0.99999
432	1	1.38	1	83	89	0.011	83.00	0.93	1.000	0.99998
4331	1	1.55	1	93	313	0.003	93.00	0.30	1.000	0.99999
4341	1	1.45	1	87	1,817	0.001	87.00	0.05	1.000	0.99999
4362	1	0.70	24	1,004	827	0.029	41.83	1.21	1.000	0.99997
4363	4	5.13	35	2,616	1,699	0.021	74.74	1.54	1.061	0.99997

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4371	3	1.87	23	736	1,544	0.015	32.00	0.48	1.045	0.99999
4372	4	4.62	26	1,470	440	0.059	56.54	3.34	1.083	0.99993
4386	2	6.05	2	363	1,662	0.001	181.50	0.22	1.000	0.99999
4431	8	23.03	1,576	174,462	1,387	1.136	110.70	125.78	1.259	0.99718
4601	1	1.85	1	111	417	0.002	111.00	0.27	1.000	0.99999
4602	2	1.86	75	5,093	947	0.079	67.91	5.38	1.000	0.99988
4692	1	1.28	1	77	471	0.002	77.00	0.16	1.000	0.99999
4714	1	2.18	1	131	328	0.003	131.00	0.40	1.000	0.99999
5601	7	6.43	294	17,929	1,172	0.251	60.98	15.30	1.885	0.99966
5904	1	0.83	45	2,263	1,223	0.037	50.29	1.85	1.000	0.99996
5905	2	2.12	92	5,468	1,876	0.049	59.43	2.91	1.000	0.99993
6021	2	1.93	67	4,756	1,298	0.052	70.99	3.66	1.000	0.99992
6022	1	1.10	23	1,519	489	0.047	66.04	3.11	1.000	0.99993
6024	1	0.80	9	435	394	0.023	48.33	1.10	1.000	0.99998
6143	1	2.18	1	131	373	0.003	131.00	0.35	1.000	0.99999
6144	1	1.42	1	85	322	0.003	85.00	0.26	1.000	0.99999
6393	1	1.93	1	116	2	0.500	116.00	58.00	1.000	0.99870
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	267	461.75	15,423	2,348,120	165,477	0.093	152.25	14.19	1.066	0.99968

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 11/1/2017 to 11/30/2017
 INCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1050	2	2.03	122	8,621	1,606	0.076	70.66	5.37	1.000	0.99988
1082	10	4.66	10	280	1,340	0.007	28.00	0.21	1.000	0.99999
1092	4	5.13	84	5,704	972	0.086	67.90	5.87	1.077	0.99986
1094	4	4.70	27	1,582	1,232	0.022	58.59	1.28	1.000	0.99997
1101	2	3.42	145	9,454	164	0.884	65.20	57.65	1.028	0.99867
1102	1	1.12	12	806	470	0.026	67.17	1.71	1.000	0.99996
1211	3	3.81	64	4,121	1,480	0.043	64.39	2.78	1.032	0.99994
1212	3	1.16	6	142	332	0.018	23.67	0.43	1.000	0.99999
1213	1	0.75	555	24,975	555	1.000	45.00	45.00	1.000	0.99896
1230	1	0.57	1	34	1,177	0.001	34.00	0.03	1.000	0.99999
1232	2	2.27	24	1,602	1,184	0.020	66.75	1.35	1.000	0.99997
1241	1	0.48	6	177	854	0.007	29.50	0.21	1.000	0.99999
1242	1	1.25	1	75	679	0.001	75.00	0.11	1.000	0.99999
1243	5	3.80	45	3,419	1,208	0.037	75.98	2.83	1.023	0.99993
1263	2	5.58	47	1,776	1,141	0.041	37.79	1.56	1.000	0.99996
1265	3	2.98	89	3,663	1,283	0.069	41.16	2.86	1.000	0.99993
1271	1	1.58	13	1,236	965	0.013	95.08	1.28	1.000	0.99997

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1273	1	0.50	103	3,187	865	0.119	30.94	3.68	1.000	0.99991
1282	2	2.05	2	123	694	0.003	61.50	0.18	1.000	0.99999
1284	11	15.63	59	4,544	949	0.062	77.02	4.79	1.017	0.99989
1285	2	5.35	26	4,178	1,093	0.024	160.69	3.82	1.000	0.99991
1312	2	1.29	70	2,740	939	0.075	39.14	2.92	1.000	0.99993
1453	2	1.52	114	5,406	1,798	0.063	47.42	3.01	1.000	0.99993
1521	2	3.85	2	231	365	0.005	115.50	0.63	1.000	0.99999
1523	6	9.23	84	6,296	733	0.115	74.95	8.59	1.012	0.99980
1843	2	2.61	27	2,200	1,079	0.025	81.48	2.04	1.000	0.99995
2091	1	1.23	1	74	882	0.001	74.00	0.08	1.000	0.99999
2092	2	2.55	29	3,127	919	0.032	107.83	3.40	1.000	0.99992
2172	1	0.37	223	5,088	223	1.000	22.82	22.82	1.000	0.99947
2211	3	2.68	3	161	723	0.004	53.67	0.22	1.000	0.99999
2621	1	1.10	12	798	1,170	0.010	66.50	0.68	1.000	0.99998
2951	2	1.87	17	1,250	1,401	0.012	73.53	0.89	1.000	0.99998
2961	1	0.42	20	514	648	0.031	25.70	0.79	1.000	0.99998
2962	1	0.92	1	55	257	0.004	55.00	0.21	1.000	0.99999
3081	1	1.17	1	70	574	0.002	70.00	0.12	1.000	0.99999
3181	1	1.08	1	65	726	0.001	65.00	0.09	1.000	0.99999
3222	2	1.61	8	420	773	0.010	52.50	0.54	1.143	0.99999
3231	2	2.20	2	132	203	0.010	66.00	0.65	1.000	0.99998
3232	1	1.38	12	1,000	427	0.028	83.33	2.34	1.000	0.99995

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3302	1	1.08	18	1,170	902	0.020	65.00	1.30	1.000	0.99997
3303	3	2.67	173	8,850	972	0.178	51.16	9.10	1.000	0.99979
3304	2	1.80	100	8,925	1,075	0.093	89.25	8.30	1.010	0.99981
3311	2	2.02	2	121	536	0.004	60.50	0.23	1.000	0.99999
3313	1	1.33	5	403	1,344	0.004	80.60	0.30	1.000	0.99999
3315	4	4.52	90	6,622	1,580	0.057	73.58	4.19	1.023	0.99990
3422	2	3.20	29	2,635	975	0.030	90.86	2.70	1.000	0.99994
3472	6	7.84	108	11,649	1,582	0.068	107.86	7.36	1.000	0.99983
3551	1	0.72	65	2,822	1,031	0.063	43.42	2.74	1.000	0.99994
3552	2	6.18	20	6,170	576	0.035	308.50	10.71	1.053	0.99975
3591	1	0.48	30	877	1,223	0.025	29.23	0.72	1.000	0.99998
3594	1	1.35	1	81	723	0.001	81.00	0.11	1.000	0.99999
3621	1	0.93	1	56	1,555	0.001	56.00	0.04	1.000	0.99999
3661	3	17.70	1,041	35,448	1,029	1.012	34.05	34.45	1.015	0.99920
3662	2	2.39	2	143	783	0.003	71.50	0.18	1.000	0.99999
3664	2	2.22	2	133	549	0.004	66.50	0.24	1.000	0.99999
3692	2	2.33	32	1,763	410	0.078	55.09	4.30	1.000	0.99990
3694	1	1.43	1,330	114,402	1,330	1.000	86.02	86.02	1.000	0.99801
3701	1	1.98	16	1,904	493	0.032	119.00	3.86	1.000	0.99991
3751	8	12.27	1,008	147,437	885	1.139	146.27	166.60	1.147	0.99614
3871	2	1.73	30	1,434	1,354	0.022	47.80	1.06	1.000	0.99998
3891	1	1.80	60	6,512	457	0.131	108.53	14.25	1.000	0.99967

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3893	3	2.32	3	139	1,115	0.003	46.33	0.12	1.000	0.99999
3901	2	2.09	18	1,114	878	0.021	61.89	1.27	1.000	0.99997
3902	1	0.88	1	53	88	0.011	53.00	0.60	1.000	0.99999
3952	4	7.34	84	5,704	1,273	0.066	67.90	4.48	1.000	0.99990
3971	3	4.17	3	250	665	0.005	83.33	0.38	1.500	0.99999
3981	5	5.67	31	2,258	1,503	0.021	72.84	1.50	1.069	0.99997
3982	3	3.87	36	1,948	1,771	0.020	54.11	1.10	1.000	0.99997
3991	3	1.21	39	1,267	730	0.053	32.49	1.74	1.000	0.99996
4031	1	0.88	12	645	706	0.017	53.75	0.91	1.000	0.99998
4091	1	1.78	17	1,757	1,148	0.015	103.35	1.53	1.000	0.99996
4137	1	0.55	1	33	797	0.001	33.00	0.04	1.000	0.99999
4142	2	2.88	11	1,172	598	0.018	106.55	1.96	1.100	0.99995
4153	1	0.90	1	54	1,297	0.001	54.00	0.04	1.000	0.99999
4155	6	6.98	75	5,486	2,151	0.035	73.15	2.55	1.103	0.99994
4171	3	2.99	101	4,250	678	0.149	42.08	6.27	1.010	0.99985
4182	2	4.07	6	812	896	0.007	135.33	0.91	1.000	0.99998
4211	4	7.15	60	6,459	710	0.085	107.65	9.10	1.071	0.99979
4212	1	1.20	1	72	820	0.001	72.00	0.09	1.000	0.99999
4222	2	2.60	7	530	1,045	0.007	75.71	0.51	1.167	0.99999
4224	10	58.34	780	170,484	757	1.030	218.57	225.21	1.121	0.99479
4303	2	7.23	13	2,841	995	0.013	218.54	2.86	1.000	0.99993
4311	2	1.58	20	959	857	0.023	47.95	1.12	1.053	0.99997

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4313	1	1.07	2	129	535	0.004	64.50	0.24	1.000	0.99999
4324	1	1.90	1	114	1,259	0.001	114.00	0.09	1.000	0.99999
433	1	1.45	1	87	81	0.012	87.00	1.07	1.000	0.99998
4341	1	1.67	1	100	1,817	0.001	100.00	0.06	1.000	0.99999
4342	2	1.16	1,764	15,546	1,763	1.001	8.81	8.82	1.001	0.99980
4361	2	1.47	125	7,464	1,766	0.071	59.71	4.23	1.008	0.99990
4371	1	0.52	21	663	1,544	0.014	31.57	0.43	1.000	0.99999
4373	3	6.07	42	3,762	776	0.054	89.57	4.85	1.167	0.99989
4431	15	17.40	1,554	129,375	1,387	1.120	83.25	93.28	1.414	0.99784
4432	1	1.03	6	377	463	0.013	62.83	0.81	1.000	0.99998
4601	1	0.80	1	48	417	0.002	48.00	0.12	1.000	0.99999
4692	2	1.25	2	75	471	0.004	37.50	0.16	1.000	0.99999
4714	2	3.34	2	200	328	0.006	100.00	0.61	2.000	0.99999
5601	2	0.97	31	921	1,172	0.026	29.71	0.79	1.000	0.99998
5603	8	6.93	157	6,247	1,290	0.122	39.79	4.84	1.026	0.99989
5902	1	1.58	9	862	944	0.010	95.78	0.91	1.000	0.99998
5905	1	0.53	1	32	1,876	0.001	32.00	0.02	1.000	0.99999
6142	1	5.83	13	4,559	311	0.042	350.69	14.66	1.000	0.99966
NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI	
Total:	252	365.52	11,284	847,731	165,474	0.068	75.13	5.12	1.054	0.99988

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 12/1/2017 to 12/31/2017
 INCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1050	1	1.40	38	3,224	1,606	0.024	84.84	2.01	1.000	0.99996
1051	1	1.38	1	83	144	0.007	83.00	0.58	1.000	0.99999
1052	2	2.70	6	720	1,131	0.005	120.00	0.64	1.000	0.99999
1082	4	5.22	6	446	1,340	0.004	74.33	0.33	1.000	0.99999
1092	6	7.28	15	1,516	972	0.015	101.07	1.56	1.071	0.99997
1094	4	3.32	73	3,746	1,232	0.059	51.32	3.04	1.000	0.99993
1102	1	0.47	62	1,781	470	0.132	28.73	3.79	1.000	0.99992
1103	1	1.77	1	106	977	0.001	106.00	0.11	1.000	0.99999
1142	1	1.33	13	1,052	214	0.061	80.92	4.92	1.000	0.99989
1213	2	4.90	2	294	555	0.004	147.00	0.53	1.000	0.99999
1230	2	2.10	18	1,637	1,177	0.015	90.94	1.39	1.000	0.99997
1232	1	1.93	1	116	1,184	0.001	116.00	0.10	1.000	0.99999
1241	1	1.10	82	5,458	854	0.096	66.56	6.39	1.000	0.99986
1243	1	0.52	15	475	1,208	0.012	31.67	0.39	1.000	0.99999
1271	1	1.03	1	62	965	0.001	62.00	0.06	1.000	0.99999
1274	1	2.52	1	151	4	0.250	151.00	37.75	1.000	0.99915
1282	2	2.15	174	11,595	694	0.251	66.64	16.71	1.000	0.99963

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1284	1	0.37	1	22	949	0.001	22.00	0.02	1.000	0.99999
1311	1	1.87	116	13,090	273	0.425	112.84	47.95	1.000	0.99893
1312	2	5.19	17	4,064	939	0.018	239.06	4.33	1.063	0.99990
1454	1	1.98	1	119	935	0.001	119.00	0.13	1.000	0.99999
1521	1	0.82	1	49	365	0.003	49.00	0.13	1.000	0.99999
1523	1	1.45	8	700	733	0.011	87.50	0.95	1.000	0.99998
1843	4	6.27	6	732	1,079	0.006	122.00	0.68	1.000	0.99998
2091	1	2.12	1	127	882	0.001	127.00	0.14	1.000	0.99999
2212	1	1.17	1	70	1,294	0.001	70.00	0.05	1.000	0.99999
2621	1	1.00	1	60	1,170	0.001	60.00	0.05	1.000	0.99999
2951	5	3.97	169	7,762	1,401	0.121	45.93	5.54	1.006	0.99988
2961	4	1.84	671	17,536	648	1.035	26.13	27.06	1.042	0.99939
2962	1	0.22	257	3,516	257	1.000	13.68	13.68	1.000	0.99969
3123	1	2.60	1	156	1,055	0.001	156.00	0.15	1.000	0.99999
3221	2	2.67	2	160	1,245	0.002	80.00	0.13	1.000	0.99999
3222	2	2.30	774	49,418	773	1.001	63.85	63.93	1.001	0.99857
3303	1	0.28	82	1,455	972	0.084	17.74	1.50	1.000	0.99997
3304	2	3.48	3	308	1,075	0.003	102.67	0.29	1.000	0.99999
3313	1	0.57	1	34	1,344	0.001	34.00	0.03	1.000	0.99999
3422	3	4.12	3	247	975	0.003	82.33	0.25	1.000	0.99999
3472	2	1.20	2	72	1,582	0.001	36.00	0.05	1.000	0.99999
3551	1	0.38	1	23	1,031	0.001	23.00	0.02	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3592	3	2.75	4	219	1,708	0.002	54.75	0.13	1.000	0.99999
3621	4	5.13	4	308	1,555	0.003	77.00	0.20	1.000	0.99999
3661	2	1.10	104	4,302	1,029	0.101	41.37	4.18	1.000	0.99991
3662	1	0.45	7	189	783	0.009	27.00	0.24	1.000	0.99999
3663	2	2.05	266	15,976	737	0.361	60.06	21.68	1.004	0.99951
3664	1	1.02	1	61	549	0.002	61.00	0.11	1.000	0.99999
3672	1	0.22	137	1,781	137	1.000	13.00	13.00	1.000	0.99971
3692	1	6.25	7	2,630	410	0.017	375.71	6.41	1.000	0.99986
3694	3	6.19	14	2,021	1,330	0.011	144.36	1.52	1.000	0.99997
3701	2	1.20	508	23,490	493	1.030	46.24	47.65	1.030	0.99893
3751	2	1.25	10	539	885	0.011	53.90	0.61	1.000	0.99999
3871	3	4.45	5	450	1,354	0.004	90.00	0.33	1.000	0.99999
3873	1	1.70	2	204	798	0.003	102.00	0.26	1.000	0.99999
3878	1	1.07	17	1,100	796	0.021	64.71	1.38	1.000	0.99997
3891	2	2.30	20	1,795	457	0.044	89.75	3.93	1.000	0.99991
3893	4	3.78	22	1,444	1,115	0.020	65.64	1.30	1.000	0.99997
3894	1	1.47	1	88	117	0.009	88.00	0.75	1.000	0.99998
3901	1	0.43	50	1,349	878	0.057	26.98	1.54	1.000	0.99997
3903	2	3.07	12	1,108	299	0.040	92.33	3.71	1.000	0.99992
3914	3	3.43	157	10,938	375	0.419	69.67	29.17	1.040	0.99935
3951	17	16.60	45	2,557	930	0.048	56.82	2.75	1.098	0.99994
3952	3	7.14	67	16,626	1,273	0.053	248.15	13.06	1.000	0.99971

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3981	7	6.34	7	380	1,503	0.005	54.29	0.25	1.167	0.99999
3982	3	5.25	30	2,883	1,771	0.017	96.10	1.63	1.000	0.99996
4134	1	0.75	48	2,164	836	0.057	45.08	2.59	1.000	0.99994
4155	1	0.90	5	274	2,151	0.002	54.80	0.13	1.000	0.99999
4171	5	4.27	1,182	73,383	678	1.743	62.08	108.23	1.029	0.99758
4172	14	23.96	211	27,174	1,725	0.122	128.79	15.75	1.060	0.99965
4173	1	2.27	3	408	635	0.005	136.00	0.64	1.000	0.99999
4181	1	0.88	1	53	622	0.002	53.00	0.09	1.000	0.99999
4182	3	4.95	3	297	896	0.003	99.00	0.33	1.000	0.99999
4211	1	0.70	1	42	710	0.001	42.00	0.06	1.000	0.99999
4222	2	2.14	7	452	1,045	0.007	64.57	0.43	1.167	0.99999
4224	3	4.99	111	10,111	757	0.147	91.09	13.36	1.088	0.99970
4303	2	3.27	1,006	106,677	995	1.011	106.04	107.21	1.011	0.99760
4321	1	3.35	4	804	4	1.000	201.00	201.00	1.000	0.99550
4322	1	3.22	100	19,300	100	1.000	193.00	193.00	1.000	0.99568
4324	2	2.03	1,274	113,935	1,259	1.012	89.43	90.50	1.014	0.99797
433	1	1.40	1	84	81	0.012	84.00	1.04	1.000	0.99998
4341	5	5.25	100	4,601	1,817	0.055	46.01	2.53	1.020	0.99994
4343	1	1.33	1	80	1,028	0.001	80.00	0.08	1.000	0.99999
4361	4	7.03	10	976	1,764	0.006	97.60	0.55	1.000	0.99999
4362	1	0.82	45	2,225	827	0.054	49.44	2.69	1.000	0.99994
4363	1	0.65	1	39	1,699	0.001	39.00	0.02	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4371	2	1.35	24	1,054	1,544	0.016	43.92	0.68	1.000	0.99998
4386	1	0.87	1	52	1,662	0.001	52.00	0.03	1.000	0.99999
4431	4	3.24	43	1,858	1,387	0.031	43.21	1.34	1.049	0.99997
4601	1	0.98	2	118	417	0.005	59.00	0.28	1.000	0.99999
4692	1	1.58	1	95	471	0.002	95.00	0.20	1.000	0.99999
4714	1	1.42	1	85	328	0.003	85.00	0.26	1.000	0.99999
5601	3	3.81	3	229	1,172	0.003	76.33	0.20	1.000	0.99999
5603	4	3.75	131	6,289	1,290	0.102	48.01	4.88	1.000	0.99989
5902	2	2.46	44	2,868	944	0.047	65.18	3.04	1.000	0.99993
6021	2	2.75	2	165	1,298	0.002	82.50	0.13	1.000	0.99999
6141	1	1.92	1	115	632	0.002	115.00	0.18	1.000	0.99999
6142	1	1.58	1	95	311	0.003	95.00	0.31	1.000	0.99999
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	215	271.50	8,493	600,722	165,472	0.051	70.73	3.63	1.012	0.99992

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 12/1/2017 to 12/31/2017
 EXCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1050	1	1.40	38	3,224	1,606	0.024	84.84	2.01	1.000	0.99996
1051	1	1.38	1	83	144	0.007	83.00	0.58	1.000	0.99999
1052	2	2.70	6	720	1,131	0.005	120.00	0.64	1.000	0.99999
1082	4	5.22	6	446	1,340	0.004	74.33	0.33	1.000	0.99999
1092	6	7.28	15	1,516	972	0.015	101.07	1.56	1.071	0.99997
1094	4	3.32	73	3,746	1,232	0.059	51.32	3.04	1.000	0.99993
1102	1	0.47	62	1,781	470	0.132	28.73	3.79	1.000	0.99992
1103	1	1.77	1	106	977	0.001	106.00	0.11	1.000	0.99999
1142	1	1.33	13	1,052	214	0.061	80.92	4.92	1.000	0.99989
1213	2	4.90	2	294	555	0.004	147.00	0.53	1.000	0.99999
1230	2	2.10	18	1,637	1,177	0.015	90.94	1.39	1.000	0.99997
1232	1	1.93	1	116	1,184	0.001	116.00	0.10	1.000	0.99999
1241	1	1.10	82	5,458	854	0.096	66.56	6.39	1.000	0.99986
1243	1	0.52	15	475	1,208	0.012	31.67	0.39	1.000	0.99999
1271	1	1.03	1	62	965	0.001	62.00	0.06	1.000	0.99999
1274	1	2.52	1	151	4	0.250	151.00	37.75	1.000	0.99915
1282	2	2.15	174	11,595	694	0.251	66.64	16.71	1.000	0.99963

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1284	1	0.37	1	22	949	0.001	22.00	0.02	1.000	0.99999
1311	1	1.87	116	13,090	273	0.425	112.84	47.95	1.000	0.99893
1312	2	5.19	17	4,064	939	0.018	239.06	4.33	1.063	0.99990
1454	1	1.98	1	119	935	0.001	119.00	0.13	1.000	0.99999
1521	1	0.82	1	49	365	0.003	49.00	0.13	1.000	0.99999
1523	1	1.45	8	700	733	0.011	87.50	0.95	1.000	0.99998
1843	4	6.27	6	732	1,079	0.006	122.00	0.68	1.000	0.99998
2091	1	2.12	1	127	882	0.001	127.00	0.14	1.000	0.99999
2212	1	1.17	1	70	1,294	0.001	70.00	0.05	1.000	0.99999
2621	1	1.00	1	60	1,170	0.001	60.00	0.05	1.000	0.99999
2951	5	3.97	169	7,762	1,401	0.121	45.93	5.54	1.006	0.99988
2961	4	1.84	671	17,536	648	1.035	26.13	27.06	1.042	0.99939
2962	1	0.22	257	3,516	257	1.000	13.68	13.68	1.000	0.99969
3123	1	2.60	1	156	1,055	0.001	156.00	0.15	1.000	0.99999
3221	2	2.67	2	160	1,245	0.002	80.00	0.13	1.000	0.99999
3222	2	2.30	774	49,418	773	1.001	63.85	63.93	1.001	0.99857
3303	1	0.28	82	1,455	972	0.084	17.74	1.50	1.000	0.99997
3304	2	3.48	3	308	1,075	0.003	102.67	0.29	1.000	0.99999
3313	1	0.57	1	34	1,344	0.001	34.00	0.03	1.000	0.99999
3422	3	4.12	3	247	975	0.003	82.33	0.25	1.000	0.99999
3472	2	1.20	2	72	1,582	0.001	36.00	0.05	1.000	0.99999
3551	1	0.38	1	23	1,031	0.001	23.00	0.02	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3592	3	2.75	4	219	1,708	0.002	54.75	0.13	1.000	0.99999
3621	4	5.13	4	308	1,555	0.003	77.00	0.20	1.000	0.99999
3661	2	1.10	104	4,302	1,029	0.101	41.37	4.18	1.000	0.99991
3662	1	0.45	7	189	783	0.009	27.00	0.24	1.000	0.99999
3663	2	2.05	266	15,976	737	0.361	60.06	21.68	1.004	0.99951
3664	1	1.02	1	61	549	0.002	61.00	0.11	1.000	0.99999
3672	1	0.22	137	1,781	137	1.000	13.00	13.00	1.000	0.99971
3692	1	6.25	7	2,630	410	0.017	375.71	6.41	1.000	0.99986
3694	3	6.19	14	2,021	1,330	0.011	144.36	1.52	1.000	0.99997
3701	2	1.20	508	23,490	493	1.030	46.24	47.65	1.030	0.99893
3751	2	1.25	10	539	885	0.011	53.90	0.61	1.000	0.99999
3871	3	4.45	5	450	1,354	0.004	90.00	0.33	1.000	0.99999
3873	1	1.70	2	204	798	0.003	102.00	0.26	1.000	0.99999
3878	1	1.07	17	1,100	796	0.021	64.71	1.38	1.000	0.99997
3891	2	2.30	20	1,795	457	0.044	89.75	3.93	1.000	0.99991
3893	4	3.78	22	1,444	1,115	0.020	65.64	1.30	1.000	0.99997
3894	1	1.47	1	88	117	0.009	88.00	0.75	1.000	0.99998
3901	1	0.43	50	1,349	878	0.057	26.98	1.54	1.000	0.99997
3903	2	3.07	12	1,108	299	0.040	92.33	3.71	1.000	0.99992
3914	3	3.43	157	10,938	375	0.419	69.67	29.17	1.040	0.99935
3951	17	16.60	45	2,557	930	0.048	56.82	2.75	1.098	0.99994
3952	3	7.14	67	16,626	1,273	0.053	248.15	13.06	1.000	0.99971

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3981	7	6.34	7	380	1,503	0.005	54.29	0.25	1.167	0.99999
3982	3	5.25	30	2,883	1,771	0.017	96.10	1.63	1.000	0.99996
4134	1	0.75	48	2,164	836	0.057	45.08	2.59	1.000	0.99994
4155	1	0.90	5	274	2,151	0.002	54.80	0.13	1.000	0.99999
4171	5	4.27	1,182	73,383	678	1.743	62.08	108.23	1.029	0.99758
4172	14	23.96	211	27,174	1,725	0.122	128.79	15.75	1.060	0.99965
4173	1	2.27	3	408	635	0.005	136.00	0.64	1.000	0.99999
4181	1	0.88	1	53	622	0.002	53.00	0.09	1.000	0.99999
4182	3	4.95	3	297	896	0.003	99.00	0.33	1.000	0.99999
4211	1	0.70	1	42	710	0.001	42.00	0.06	1.000	0.99999
4222	2	2.14	7	452	1,045	0.007	64.57	0.43	1.167	0.99999
4224	3	4.99	111	10,111	757	0.147	91.09	13.36	1.088	0.99970
4303	2	3.27	1,006	106,677	995	1.011	106.04	107.21	1.011	0.99760
4321	1	3.35	4	804	4	1.000	201.00	201.00	1.000	0.99550
4322	1	3.22	100	19,300	100	1.000	193.00	193.00	1.000	0.99568
4324	2	2.03	1,274	113,935	1,259	1.012	89.43	90.50	1.014	0.99797
433	1	1.40	1	84	81	0.012	84.00	1.04	1.000	0.99998
4341	5	5.25	100	4,601	1,817	0.055	46.01	2.53	1.020	0.99994
4343	1	1.33	1	80	1,028	0.001	80.00	0.08	1.000	0.99999
4361	4	7.03	10	976	1,764	0.006	97.60	0.55	1.000	0.99999
4362	1	0.82	45	2,225	827	0.054	49.44	2.69	1.000	0.99994
4363	1	0.65	1	39	1,699	0.001	39.00	0.02	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4371	2	1.35	24	1,054	1,544	0.016	43.92	0.68	1.000	0.99998
4386	1	0.87	1	52	1,662	0.001	52.00	0.03	1.000	0.99999
4431	4	3.24	43	1,858	1,387	0.031	43.21	1.34	1.049	0.99997
4601	1	0.98	2	118	417	0.005	59.00	0.28	1.000	0.99999
4692	1	1.58	1	95	471	0.002	95.00	0.20	1.000	0.99999
4714	1	1.42	1	85	328	0.003	85.00	0.26	1.000	0.99999
5601	3	3.81	3	229	1,172	0.003	76.33	0.20	1.000	0.99999
5603	4	3.75	131	6,289	1,290	0.102	48.01	4.88	1.000	0.99989
5902	2	2.46	44	2,868	944	0.047	65.18	3.04	1.000	0.99993
6021	2	2.75	2	165	1,298	0.002	82.50	0.13	1.000	0.99999
6141	1	1.92	1	115	632	0.002	115.00	0.18	1.000	0.99999
6142	1	1.58	1	95	311	0.003	95.00	0.31	1.000	0.99999
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	215	271.50	8,493	600,722	165,472	0.051	70.73	3.63	1.012	0.99992