



Liberty
602 S Joplin Ave
Joplin, MO 64801
T 417-625-6526
Libertyutilities.com

April 29, 2021

Brad Fortson
Energy Department
Missouri Public Service Commission
200 Madison Street, PO Box 360
Jefferson City, MO 65102-0360

RE: Reliability Performance Report

The Empire District Electric Company ("Liberty") respectfully submits its annual reliability report for calendar year 2020. Commission Rule 20 CSR 4240-23.010(2-8) requires the production of an annual reliability performance report including performance metrics for both including and excluding major event days, a list of the company's worst performing circuit program and activities to improve performance, and a list of the company's multi-year worst performing circuits and activities to improve performance. Additional reporting requirements are being included in the report as outlined in Case No. ER-2019-0374 which indicates the Company is to include a 6-year historical benchmark analysis for the years 2021 and 2022.

Pursuant to Rule 23.010(2-8), Liberty's annual Reliability Performance Report discusses the 2020 performance and planned 2021 reliability activities to maintain or improve service reliability for Liberty's electric customers. Please note that this is a working document, and the planned activities are subject to change.

Respectfully submitted,

Sam McGarrah
Director of System Performance



Table of Contents

Section 1:

Introduction.....	pg. 3
Definitions	pg. 3

Section 2:

Monthly Actual Reliability Indices.....	pg. 4
Monthly Adjusted Reliability Indices.....	pg. 4
2020 Cumulative SAIFI Graph.....	pg. 5
2020 Cumulative SAIDI Graph.....	pg. 5
2020 CAIDI Graph.....	pg. 6

Section 3:

2020 Worst Performing Circuits	pg. 7
2020 Multi-Year Worst Performing Circuits.....	pg. 14

Section 4:

Industry Benchmark.....	pg. 19
-------------------------	--------

Section 5:

2020 Monthly Actual Circuit Reliability Indices.....	pg. 24
2020 Monthly Adjusted Circuit Reliability Indices	pg. 95



Section 1:

Introduction

This report details The Empire District Electric Company (“Liberty” or “Company”) annual reliability metrics and worst performing circuits for calendar year 2020 as required by Missouri Public Service Commission Rule 20 CSR 4240-23.010, 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, 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 Liberty system places it among the 5% of circuits with the highest SAIFI values in the Liberty system.



Section 2:

Liberty serves electric customers in sixteen counties of the southwest corner of Missouri. The region is comprised of rural communities, small towns, and medium cities.

2020 Missouri Reliability Indices including Major Event Days

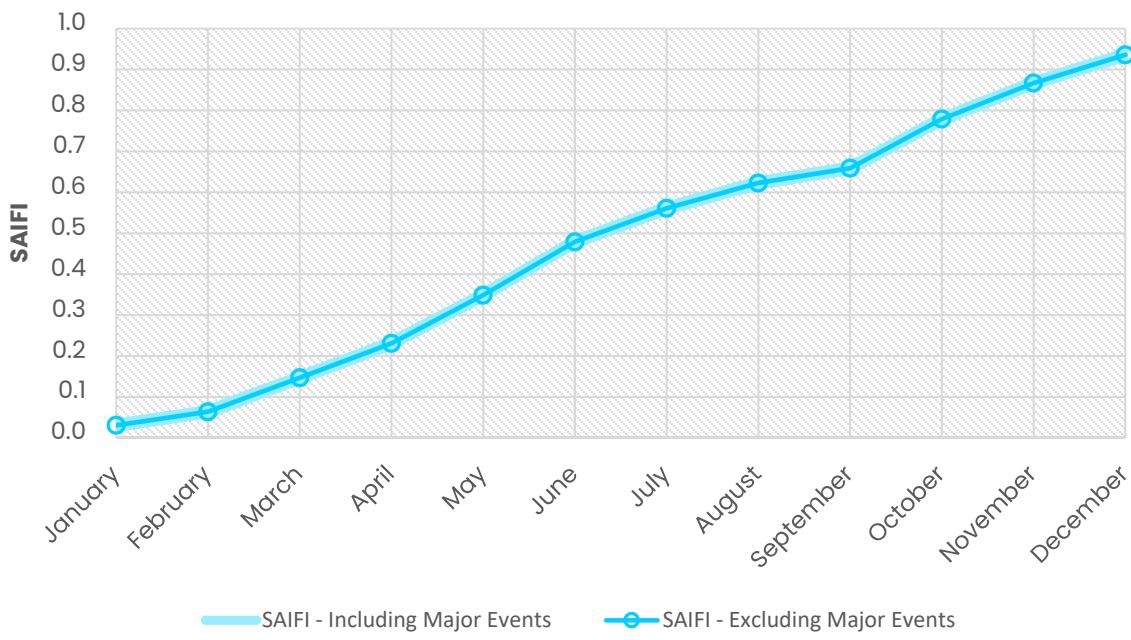
Month	SAIDI	SAIFI	CAIDI
January	2.72	0.031	88.68
February	2.23	0.033	68.52
March	7.27	0.083	87.39
April	7.80	0.084	92.94
May	14.10	0.118	119.82
June	13.82	0.130	106.67
July	11.44	0.082	138.88
August	7.12	0.062	115.54
September	4.96	0.036	137.42
October	13.19	0.120	109.49
November	10.38	0.088	117.49
December	8.36	0.069	121.86

2020 Missouri Reliability Indices excluding Major Event Days

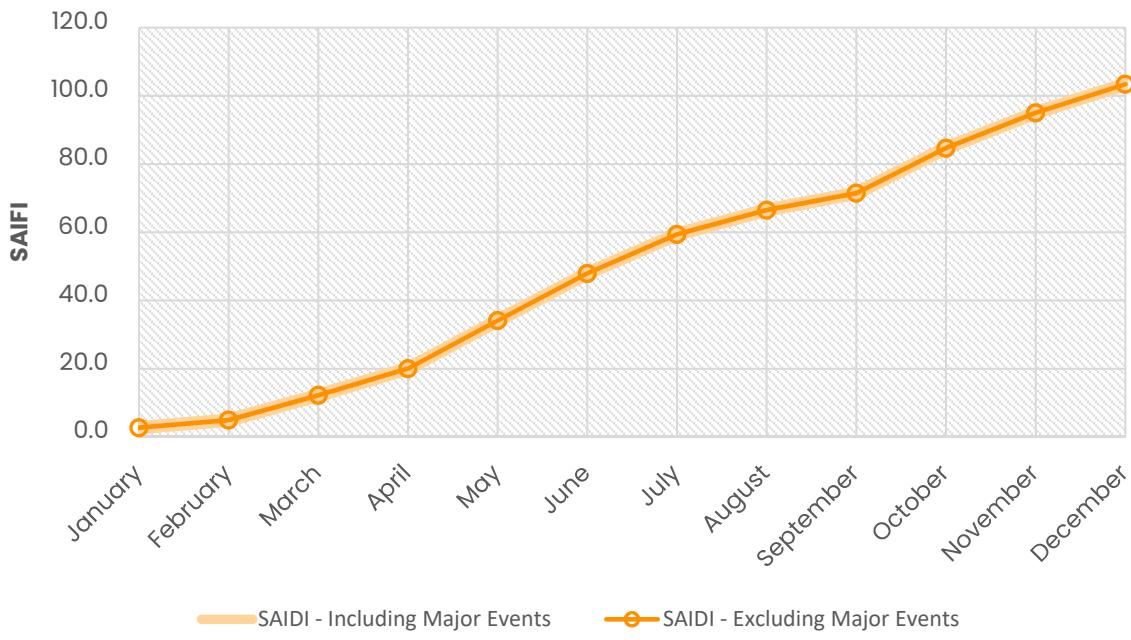
Month	SAIDI	SAIFI	CAIDI
January	2.72	0.031	88.68
February	2.23	0.033	68.52
March	7.27	0.083	87.39
April	7.80	0.084	92.94
May	14.10	0.118	119.82
June	13.82	0.130	106.67
July	11.44	0.082	138.88
August	7.12	0.062	115.54
September	4.96	0.036	137.42
October	13.19	0.120	109.49
November	10.38	0.088	117.49
December	8.36	0.069	121.86



2020 Cumulative SAIFI

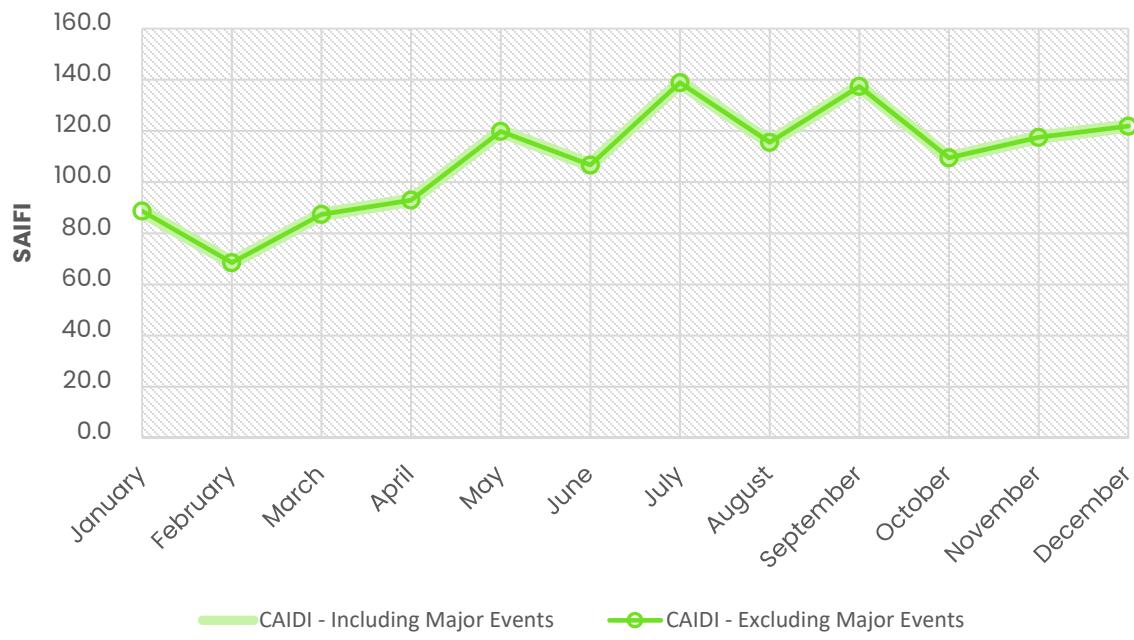


2020 Cumulative SAIDI





2020 CAIDI





Section 3:

Worst Performing Circuit Analysis/Improvement Program

Liberty's top 5% worst performing circuits for 2020 are provided in the table below.

2020 Worst Performing Circuits

Circuit Number	Location	Customer Outage Minutes	Customers Affected	Total Customers on Affected Circuits	SAIFI	SAIDI
5602	Neosho – West	482,634	3,549	696	5.099	693.44
4363	Webb City – Cardinal	313,459	6,234	691	4.910	277.12
4361	Webb City – Cardinal	538,349	8,086	1,751	4.726	312.83
3122	Ozark Dam – Powersite	164,909	3,595	873	4.127	189.18
6024	Bolivar Plant	121,557	1,334	395	3.377	307.74
4031	Jasper – West	245,348	2,363	713	3.314	344.11
2511	Golden City	314,091	2,024	622	3.254	504.97
4134	Branson – Southwest	299,525	3,845	1,262	3.047	237.34
4343	Ozark – Southeast	311,748	4,261	1,669	2.553	186.79
6141	Greenfield	441,990	1,544	642	2.405	688.46
1523	Monett – H.T.	142,635	1,788	750	2.384	190.18
3873	Hollister – East	159,489	1,889	807	2.341	197.63
3221	Anderson – Southwest	303,908	2,912	1,268	2.297	239.68
3751	Seneca – East	253,701	2,067	913	2.264	277.88

Worst Performing Circuit Assessment

Circuit 5602

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

Vegetation midcycle clearing was performed in 2020 and is scheduled for maintenance clearing in 2023.

This circuit received a comprehensive intrusive inspection in 2019 and an infrared inspection in 2017. This circuit is scheduled for a visual inspection in 2021.



Circuit 4363

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

Vegetation midcycle clearing was performed in 2020 and is scheduled for maintenance clearing in 2022.

This circuit received a comprehensive intrusive inspection in 2010 and a visual inspection in 2013. This circuit was originally scheduled for an infrared inspection in 2017, but due to administrative over site the visual inspection did not occur and is now scheduled for a visual inspection in 2021.

Circuit 4364 was created in late 2020 with the addition of a new 12 kV breaker at substation 436 – Cardinal. The entirety of this circuit was previously associated with circuit 4363. The addition of this new circuit will reduce the overall exposure of both circuits and improve reliability. Circuit 4364 is now independently managed and will receive a visual inspection in 2021.

Circuit 4361

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

Vegetation maintenance clearing was performed in 2020 and is scheduled for midcycle clearing in 2022.

This circuit received a comprehensive intrusive inspection in 2020 and a visual inspection in 2017. This circuit is scheduled for an infrared inspection in 2021.

Circuit 4361 was temporarily reconfigured in 2020 to allow for system upgrades at the #421 – Purcell substation. The temporary reconfiguration significantly increased exposure and subsequently experienced less reliability. Once construction concluded at #421, circuit 4361 was set to its original configuration and the circuit experienced improvements in reliability for the remainder of the year.



Circuit 3122

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

Vegetation maintenance clearing was performed in 2019 and is scheduled for midcycle clearing in 2022.

This circuit received a comprehensive intrusive inspection in 2011 and an infrared inspection in 2015. This circuit is scheduled to have a visual inspection in 2021.

Circuit 3122 was temporarily reconfigured in 2020 to allow for the construction of the new #487 – Hollister South substation. The temporary reconfiguration increased exposure and subsequently experienced less reliability. Liberty is continuing to evaluate if additional improvements to the circuit are necessary.

Circuit 6024

A coordination study and sectionalizing corrective action program is scheduled for construction in 2021.

Vegetation maintenance clearing was performed in 2020 and is scheduled for midcycle clearing in 2023.

This circuit received a comprehensive intrusive inspection in 2019 and an infrared inspection in 2020.

Circuit 4031

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

Vegetation midcycle clearing was performed in 2020 and is scheduled for maintenance clearing in 2023.

This circuit received a comprehensive intrusive inspection in 2016 and a visual inspection in 2020.



Circuit 2511

A coordination study and sectionalizing corrective action program is scheduled for construction in 2021.

Vegetation maintenance clearing was performed in 2019 and is scheduled for midcycle clearing in 2022.

This circuit received a comprehensive intrusive inspection in 2012 and a visual inspection in 2019.

Circuit 4134

A coordination study and sectionalizing corrective action program was completed in 2017.

Vegetation maintenance clearing was performed in 2019 and is scheduled for midcycle clearing in 2023.

This circuit received a comprehensive intrusive inspection in 2017 and a visual inspection in 2020.

Circuit 4343

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

Vegetation midcycle clearing was performed in 2020 and is scheduled for maintenance clearing in 2023.

This circuit received a comprehensive intrusive inspection in 2016 and a visual inspection in 2017.



Circuit 6141

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

Vegetation maintenance clearing was performed in 2020 and is scheduled for midcycle clearing in 2022.

This circuit received a comprehensive intrusive inspection in 2020 and an infrared inspection in 2015. This circuit is scheduled for a patrol inspection in 2021.

Circuit 1523

A coordination study and sectionalizing corrective action program is scheduled for construction in 2023.

Vegetation maintenance clearing was performed in 2019 and is scheduled for midcycle clearing in 2021.

This circuit received a comprehensive intrusive inspection in 2011 and an infrared inspection in 2020.

Circuit 3873

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

Vegetation midcycle clearing was performed in 2019 and is scheduled for maintenance clearing in 2023.

This circuit received a comprehensive intrusive inspection in 2016 and an infrared inspection in 2019.



Circuit 3221

A coordination study and sectionalizing corrective action program was performed in 2014. While the distribution sectionalization initially helped to improve overall reliability, the circuit has recently experienced a significant number of transmission interruptions and vehicles colliding with distribution poles within the circuit trunk line.

Vegetation midcycle clearing was performed in 2019 and is scheduled for maintenance clearing in 2021.

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

Substation #322 – Anderson Southwest, which serves circuit 3221, is scheduled to receive upgrades to improve the transmission reliability in 2021. The substation is to receive new transmission breakers which will provide greater transmission sectionalization. The substation will also receive new distribution breakers and add SCADA to provide remote monitoring and enhanced fault diagnostics.

Furthermore, circuit 3221 has been evaluated for alternate transfer paths and the ability to automate fault isolation and restoration utilizing distribution automation. A project to implement distribution automation on the circuit is scheduled for 2021 construction.



Circuit 3751

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

Vegetation midcycle clearing was performed in 2020 and is scheduled for maintenance clearing in 2022.

This circuit received a comprehensive intrusive inspection in 2014 and an infrared inspection in 2019. This circuit is scheduled for a visual inspection in 2025.

Substation 375 – Seneca East is served radially via a 69 kV transmission line tap near Racine, Missouri (commonly known as Racine Junction). In 2015, to harden the five miles of radial line, the existing wood poles were replaced with steel poles designed to withstand increased loads.

The Racine Junction tap is located between two substations, 56 – Neosho West and 389 – Joplin Southwest, and is exposed to almost 19 miles of 69 kV transmission line. Both substation 56 – Neosho West and 389 – Joplin Southwest have 69 kV line breakers to isolate the transmission line in the event of a fault, however this configuration subjected Racine Junction to faults in the transmission line.

The Racine Junction tap was upgraded in 2020 to switching substation 481 – Racine Junction and incorporated a 69 kV auto-transfer switching scheme. This upgrade will allow transmission faults to be automatically isolated and restored via the un-faulted line portion. This solution minimized the impact of the transmission exposure and is expected to improve service reliability for the 375 – Seneca East customers, including those served by circuit 3751.



Multi-Year Worst Performing Circuits

Liberty has identified four multi-year worst performing circuits in accordance with Rule 20 CSR 4240-23.010(8). To improve the performance of the circuits, Liberty adopted a corrective action plan that includes the following activities:

- Liberty 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 2020 SAIFI value. A more detailed list of each circuit’s corrective action will follow.

2020 Multi-Year Worst Performing Circuits

Location	Circuit Number	SAIFI		
		2018	2019	2020
Ozark Dam - Powersite	3122	0.206	4.921	4.127
Anderson - Southwest	3221	0.895	4.125	2.297
Seneca - East	3751	3.797	0.328	2.264
Neosho - East	3981	4.986	4.374	1.559
Tipton Ford	2921	3.120	3.588	0.064



Circuit 3122

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

Vegetation maintenance clearing was performed in 2019 and is scheduled for midcycle clearing in 2022.

This circuit received a comprehensive intrusive inspection in 2011 and an infrared inspection in 2015. This circuit is scheduled to have a visual inspection in 2021.

Circuit 3122 was temporarily reconfigured in 2020 to allow for the construction of the new #487 – Hollister South substation. The temporary reconfiguration increased exposure and subsequently experienced less reliability. Liberty is continuing to evaluate if additional improvements to the circuit are necessary.

Circuit 3221

A coordination study and sectionalizing corrective action program was performed in 2014. While the distribution sectionalization initially helped to improve overall reliability, the circuit has recently experienced a significant number of transmission interruptions and vehicles colliding with distribution poles within the circuit trunk line.

Vegetation midcycle clearing was performed in 2019 and is scheduled for maintenance clearing in 2021.

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

Substation #322 – Anderson Southwest, which serves circuit 3221, is scheduled to receive upgrades to improve the transmission reliability in 2021. The substation is to receive new transmission breakers which will provide greater transmission sectionalization. The substation will also receive new distribution breakers and add SCADA to provide remote monitoring and enhanced fault diagnostics.



Circuit 3221 has also been evaluated for alternate transfer paths and the ability to automate fault isolation and restoration utilizing distribution automation. A project to implement distribution automation on the circuit is scheduled for 2021 construction.

Circuit 3751

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

Vegetation midcycle clearing was performed in 2020 and is scheduled for maintenance clearing in 2022.

This circuit received a comprehensive intrusive inspection in 2014 and an infrared inspection in 2019. This circuit is scheduled for a visual inspection in 2025.

Substation 375 – Seneca East is served radially via a 69 kV transmission line tap near Racine, Missouri (commonly known as Racine Junction). In 2015, to harden the five miles of radial line, the existing wood poles were replaced with steel poles designed to withstand increased loads.

The Racine Junction tap is located between two substations, 56 – Neosho West and 389 – Joplin Southwest, and is exposed to almost 19 miles of 69 kV transmission line. Both substation 56 – Neosho West and 389 – Joplin Southwest have 69 kV line breakers to isolate the transmission line in the event of a fault, however this configuration subjected Racine Junction to faults in the transmission line.

The Racine Junction tap was upgraded in 2020 to switching substation 481 – Racine Junction and incorporated a 69 kV auto-transfer switching scheme. This upgrade will allow transmission faults to be automatically isolated and restored via the un-faulted line portion. This solution minimized the impact of the transmission exposure and is expected to improve service reliability for the 375 – Seneca East customers, including those served by circuit 3751.

Circuit 3981

A coordination study and sectionalizing corrective action program was performed in 2011. While the distribution sectionalization initially helped to improve overall reliability, the circuit has recently experienced a significant number of transmission interruptions and vehicles colliding with distribution poles within the circuit trunk line.



Routine scheduled vegetation clearing was performed in 2019 and is scheduled for clearing in 2022.

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

In 2019 substation #398 – Neosho East, which serves circuit 3981, was upgraded with a new transmission auto-transfer switching scheme to improve transmission sectionalization and new distribution breakers were installed with SCADA to provide remote monitoring and enhanced fault diagnostics. Liberty has scheduled multiple distribution line improvements to circuit 3981 in 2020 and 2021.

The circuit was evaluated for alternate distribution transfer paths and the ability to automate fault isolation and restoration, but no acceptable options were identified. Liberty continues to evaluate additional projects which may improve reliability for circuit 3981.

Circuit 2921

Circuit 2921's performance significantly increased in 2020 to a SAIFI of 0.064.

A coordination study and sectionalizing corrective action program was performed in 2010. While the distribution sectionalization initially helped to improve overall reliability, the circuit has recently experienced a significant number of transmission interruptions.

Routine scheduled vegetation clearing was performed in 2019 and is scheduled for clearing in 2023.

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

Substation #292 – Tipton Ford, which serves circuit 2921, was upgraded with a new transmission breaker in 2019. The original transmission breaker was diagnosed with a mechanical issue which prevented it from closing properly. After the breaker's replacement, additional transmission



faults revealed a miscoordination issue with an adjacent substation's protection equipment. Liberty is in the process of evaluating possible corrective actions to address the issue and provide more robust protection at the site.



Section 4:

Industry Benchmark

Liberty provides the following utility benchmarks per the Global Stipulation and Agreement in Case No. ER-2019-0374 regarding reliable service. The values for each utility are as provided in the Department of Energy's U.S. Energy Information Administration Form 861. Missing values are the result of omissions in the reporting utility's data. Liberty reports values for Missouri under the "Empire District Electric Co".

Liberty continues to focus its capital investments on its infrastructure to ensure its infrastructure continues to operate safely and reliably. It should be noted that while the latest publication of the Energy Information Administration's Form 861 used to populate and benchmark only includes 2019 performance values, Liberty is able to report it experienced a significant reliability improvement in 2020.

Utility Name	State	Ownership	Standard					
			2014	2015	2016	2017	2018	2019
Barton County Elec Coop, Inc	MO	Cooperative	N/A	N/A	N/A	N/A	Other	Other
Sac-Osage Electric Coop Inc	MO	Cooperative	N/A	N/A	N/A	N/A	Other	Other
Ozark Electric Coop	MO	Cooperative	N/A	N/A	N/A	N/A	N/A	N/A
Barry Electric Coop	MO	Cooperative	N/A	N/A	N/A	N/A	N/A	N/A
New-Mac Electric Coop	MO	Cooperative	N/A	N/A	N/A	N/A	N/A	N/A
Southwest Electric Coop, Inc	MO	Cooperative	N/A	N/A	N/A	IEEE	IEEE	IEEE
Webster Electric Coop	MO	Cooperative	N/A	N/A	Other	Other	Other	Other
White River Valley Electric Coop	MO	Cooperative	N/A	N/A	N/A	N/A	N/A	N/A
Laclede Electric Coop, Inc	MO	Cooperative	Other	Other	Other	Other	Other	IEEE
Se-MA-NO Electric Coop	MO	Cooperative	N/A	N/A	N/A	N/A	N/A	N/A
City Utilities of Springfield - (MO)	MO	Municipal	IEEE	IEEE	IEEE	IEEE	IEEE	IEEE
Empire District Electric Co	MO	Investor Owned	IEEE	IEEE	IEEE	IEEE	IEEE	IEEE
Evergy Missouri West	MO	Investor Owned	IEEE	IEEE	IEEE	IEEE	IEEE	IEEE
Evergy Metro	MO	Investor Owned	IEEE	IEEE	IEEE	IEEE	IEEE	IEEE
Union Electric Co - (MO)	MO	Investor Owned	IEEE	IEEE	IEEE	IEEE	IEEE	IEEE
Empire District Electric Co	KS	Investor Owned	IEEE	IEEE	IEEE	IEEE	IEEE	IEEE
Evergy Metro	KS	Investor Owned	IEEE	IEEE	IEEE	IEEE	IEEE	IEEE
Evergy Kansas South, Inc	KS	Investor Owned	IEEE	IEEE	IEEE	IEEE	IEEE	IEEE
Evergy Kansas Central, Inc	KS	Investor Owned	IEEE	IEEE	IEEE	IEEE	IEEE	IEEE
Empire District Electric Co	OK	Investor Owned	IEEE	IEEE	IEEE	IEEE	IEEE	IEEE
Oklahoma Gas & Electric Co	OK	Investor Owned	Other	Other	Other	Other	Other	Other
Public Service Co of Oklahoma	OK	Investor Owned	IEEE	IEEE	IEEE	IEEE	IEEE	IEEE
Entergy Arkansas LLC	AR	Investor Owned	IEEE	IEEE	IEEE	IEEE	IEEE	IEEE
Empire District Electric Co	AR	Investor Owned	IEEE	IEEE	IEEE	IEEE	IEEE	IEEE
Oklahoma Gas & Electric Co	AR	Investor Owned	Other	Other	Other	Other	Other	Other
Southwestern Electric Power Co	AR	Investor Owned	IEEE	IEEE	IEEE	IEEE	IEEE	IEEE



Utility Name	State	Type	SAIDI Excluding Major Events							
			2014	2015	2016	2017	2018	2019	Avg	Rank
Barton County Elec Coop, Inc	MO	Coop					144.9	155.2	150.05	16
Sac-Osage Electric Coop Inc	MO	Coop					455.2	204.7	329.95	20
Ozark Electric Coop	MO	Coop								
Barry Electric Coop	MO	Coop								
New-Mac Electric Coop	MO	Coop								
Southwest Electric Coop, Inc	MO	Coop				108.83	100.65	139.5	116.33	11
Webster Electric Coop	MO	Coop			97	96.57	90.10	20	75.92	3
White River Valley Electric Coop	MO	Coop								
Laclede Electric Coop, Inc	MO	Coop	120	138	123	208.2	112.8	123.25	137.54	15
Se-MA-NO Electric Coop	MO	Coop								
City Utilities of Springfield - (MO)	MO	Muni								
Empire District Electric Co	MO	IOU	127.92	115.72	96.68	116.59	102.55	138.16	116.27	10
Evergy Missouri West	MO	IOU	143.11	108.56	65.98	77.13	89.8	125.16	101.62	6
Evergy Metro	MO	IOU	96.95	74.14	62.19	90.8	92	91.38	84.58	4
Union Electric Co - (MO)	MO	IOU	89	96	91	85	86	106	92.17	5
Empire District Electric Co	KS	IOU	170.77	91.63	158.16	106.26	87.05	115.14	121.50	12
Evergy Metro	KS	IOU	75.33	86.47	71.01	55.91	52.34	61.51	67.10	2
Evergy Kansas South, Inc	KS	IOU	99.52	109.71	153.42	88.77	101.05	122.7	112.53	9
Evergy Kansas Central, Inc	KS	IOU	114.36	136.37	116.26	101.92	92.46	99.847	110.20	8
Empire District Electric Co	OK	IOU	259.43	168	185.25	122.57	156.72	160.34	175.39	18
Oklahoma Gas & Electric Co	OK	IOU	103	137.2	158.4	143.9	130.9	135.39	134.80	14
Public Service Co of Oklahoma	OK	IOU	84.2	112.1	100.4	102.5	101.2	125.1	104.25	7
Entergy Arkansas LLC	AR	IOU	260.7	283.4	288.2	218.5	297.2	308.8	276.13	19
Empire District Electric Co	AR	IOU	40	62.54	80.74	26.92	25.49	28.15	43.97	1
Oklahoma Gas & Electric Co	AR	IOU	160	178.8	134.9	161.5	145.2	123.05	150.58	17
Southwestern Electric Power Co	AR	IOU	104.6	123.5	117.3	131	135.4	170.3	130.35	13



Utility Name	State	Type	SAIDI							
			2014	2015	2016	2017	2018	2019	Avg	Rank
Barton County Elec Coop, Inc	MO	Coop					144.9	405.1	275.00	16
Sac-Osage Electric Coop Inc	MO	Coop					483.4	208.3	345.85	17
Ozark Electric Coop	MO	Coop								
Barry Electric Coop	MO	Coop								
New-Mac Electric Coop	MO	Coop								
Southwest Electric Coop, Inc	MO	Coop				170.19	148.02	231.41	183.21	6
Webster Electric Coop	MO	Coop			97	96.567	102	110	101.39	2
White River Valley Electric Coop	MO	Coop								
Laclede Electric Coop, Inc	MO	Coop	480	175.8	141.6	414.6	112.8	258.96	263.96	14
Se-MA-NO Electric Coop	MO	Coop								
City Utilities of Springfield - (MO)	MO	Muni	32.12	59.59	38.08	143.98	100.70	112.32	81.13	1
Empire District Electric Co	MO	IOU	150.76	115.72	96.68	147.72	141.75	214.19	144.47	3
Evergy Missouri West	MO	IOU	179.87	204.37	121.97	265.6	181.71	333.4	214.49	11
Evergy Metro	MO	IOU	156.12	452.82	123.91	552.91	199.14	658.97	357.31	18
Union Electric Co - (MO)	MO	IOU	133	114	294	244	140	181	184.33	7
Empire District Electric Co	KS	IOU	407.66	208.88	264.81	154.15	109.87	140.08	214.24	10
Evergy Metro	KS	IOU	113.06	138.69	117.28	473.93	114.67	395.3	225.49	12
Evergy Kansas South, Inc	KS	IOU	105.72	296.86	164.9	100.59	105.93	179.23	158.87	4
Evergy Kansas Central, Inc	KS	IOU	158.93	235.32	146.22	146.05	153.43	178.61	169.76	5
Empire District Electric Co	OK	IOU	662.98	168	185.25	173.77	156.72	285.22	271.99	15
Oklahoma Gas & Electric Co	OK	IOU	108	964.3	281.9	264.7	180.5	515.58	385.83	19
Public Service Co of Oklahoma	OK	IOU	97	399.1	292.3	180.2	126.9	161.3	209.47	9
Entergy Arkansas LLC	AR	IOU		408.5	570	504.4	448.5	529.6	492.20	21
Empire District Electric Co	AR	IOU	179.48	269.07	80.74	98.93	97.32	456.68	197.04	8
Oklahoma Gas & Electric Co	AR	IOU	361	209.6	651	382.5	278.4	483.21	394.29	20
Southwestern Electric Power Co	AR	IOU	307.9	290.6	128.9	209.8	146.7	337.9	236.97	13



Utility Name	State	Type	SAIFI Excluding Major Events							
			2014	2015	2016	2017	2018	2019	Avg	Rank
Barton County Elec Coop, Inc	MO	Coop								
Sac-Osage Electric Coop Inc	MO	Coop								
Ozark Electric Coop	MO	Coop								
Barry Electric Coop	MO	Coop								
New-Mac Electric Coop	MO	Coop								
Southwest Electric Coop, Inc	MO	Coop				1.183	0.990	1.024	1.066	8
Webster Electric Coop	MO	Coop			1.931	1.037	1.020	1.027	1.254	14
White River Valley Electric Coop	MO	Coop								
Laclede Electric Coop, Inc	MO	Coop	1.690	1.750	1.680	2.390	1.400	1.810	1.787	17
Se-MA-NO Electric Coop	MO	Coop								
City Utilities of Springfield - (MO)	MO	Muni								
Empire District Electric Co	MO	IOU	1.366	1.338	1.035	1.220	1.120	1.193	1.212	13
Evergy Missouri West	MO	IOU	1.397	1.199	0.786	0.755	0.948	1.189	1.046	7
Evergy Metro	MO	IOU	0.945	1.030	0.715	0.896	0.981	0.977	0.924	5
Union Electric Co - (MO)	MO	IOU	0.810	0.770	0.730	0.680	0.720	0.900	0.768	3
Empire District Electric Co	KS	IOU	2.619	1.303	2.397	1.205	1.150	1.285	1.660	15
Evergy Metro	KS	IOU	0.721	0.770	0.701	0.523	0.584	0.663	0.660	2
Evergy Kansas South, Inc	KS	IOU	1.101	1.260	1.330	0.940	1.050	1.114	1.133	9
Evergy Kansas Central, Inc	KS	IOU	1.299	1.430	1.240	1.080	0.910	1.019	1.163	11
Empire District Electric Co	OK	IOU	2.485	2.502	2.169	1.264	1.411	1.682	1.919	18
Oklahoma Gas & Electric Co	OK	IOU	0.876	0.900	1.000	0.900	0.900	0.780	0.893	4
Public Service Co of Oklahoma	OK	IOU	0.945	1.171	1.144	1.083	1.167	1.322	1.139	10
Entergy Arkansas LLC	AR	IOU	1.717	1.989	1.960	1.558	1.740	1.720	1.781	16
Empire District Electric Co	AR	IOU	0.572	0.556	0.723	0.314	0.538	0.422	0.521	1
Oklahoma Gas & Electric Co	AR	IOU	1.170	1.100	0.900	0.900	1.200	0.850	1.020	6
Southwestern Electric Power Co	AR	IOU	0.852	1.063	1.281	1.254	1.326	1.463	1.207	12



Utility Name	State	Type	SAIFI							
			2014	2015	2016	2017	2018	2019	Avg	Rank
Barton County Elec Coop, Inc	MO	Coop								
Sac-Osage Electric Coop Inc	MO	Coop								
Ozark Electric Coop	MO	Coop								
Barry Electric Coop	MO	Coop								
New-Mac Electric Coop	MO	Coop								
Southwest Electric Coop, Inc	MO	Coop				1.380	1.220	1.280	1.293	9
Webster Electric Coop	MO	Coop			1.931	1.037	1.030	1.038	1.259	5
White River Valley Electric Coop	MO	Coop								
Laclede Electric Coop, Inc	MO	Coop	1.880	1.930	1.760	2.970	1.400	2.520	2.077	16
Se-MA-NO Electric Coop	MO	Coop								
City Utilities of Springfield - (MO)	MO	Muni	0.257	0.412	0.354	0.755	0.592	0.645	0.503	1
Empire District Electric Co	MO	IOU	1.413	1.338	1.035	1.365	1.253	1.328	1.289	8
Evergy Missouri West	MO	IOU	1.566	1.550	1.020	1.208	1.230	1.641	1.369	12
Evergy Metro	MO	IOU	1.158	1.230	0.935	1.676	1.235	1.562	1.299	10
Union Electric Co - (MO)	MO	IOU	0.970	0.820	1.130	1.040	0.850	1.130	0.990	3
Empire District Electric Co	KS	IOU	3.469	2.163	2.810	1.436	1.289	1.337	2.084	17
Evergy Metro	KS	IOU	0.857	0.887	0.887	1.061	0.772	1.107	0.929	2
Evergy Kansas South, Inc	KS	IOU	1.140	1.690	1.400	1.010	1.100	1.345	1.281	6
Evergy Kansas Central, Inc	KS	IOU	1.494	1.720	1.410	1.230	1.160	1.308	1.387	13
Empire District Electric Co	OK	IOU	3.214	2.502	2.169	1.512	1.411	1.940	2.125	18
Oklahoma Gas & Electric Co	OK	IOU	0.888	1.500	1.200	1.100	1.000	1.250	1.156	4
Public Service Co of Oklahoma	OK	IOU	0.963	1.577	1.422	1.335	1.342	1.458	1.350	11
Entergy Arkansas LLC	AR	IOU		2.246	2.360	2.195	1.927	2.075	2.161	19
Empire District Electric Co	AR	IOU	1.048	1.978	0.723	0.905	1.398	1.639	1.282	7
Oklahoma Gas & Electric Co	AR	IOU	1.590	1.200	1.300	1.500	1.800	1.640	1.505	15
Southwestern Electric Power Co	AR	IOU	1.368	1.220	1.357	1.501	1.351	1.803	1.433	14

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 1/1/2020 to 1/31/2020
 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	4	4.41	19	790	1,363	0.014	41.58	0.58	1.000	0.99999
1092	1	0.73	921	41,337	927	0.994	44.88	44.59	1.000	0.99900
1103	1	0.73	1	44	991	0.001	44.00	0.04	1.000	0.99999
1141	2	7.70	44	10,187	907	0.049	231.52	11.23	1.023	0.99975
1211	2	2.20	2	132	1,490	0.001	66.00	0.09	1.000	0.99999
1232	1	3.80	9	2,054	1,190	0.008	228.22	1.73	1.000	0.99996
1233	1	1.17	98	6,861	641	0.153	70.01	10.70	1.000	0.99976
1243	2	3.15	42	4,261	1,221	0.034	101.45	3.49	1.000	0.99992
1263	1	1.80	12	1,296	1,175	0.010	108.00	1.10	1.000	0.99998
1265	1	1.07	1	64	1,294	0.001	64.00	0.05	1.000	0.99999
1273	1	1.27	1	76	869	0.001	76.00	0.09	1.000	0.99999
1452	2	1.15	14	342	454	0.031	24.43	0.75	1.077	0.99998
1454	2	7.81	49	7,516	936	0.052	153.39	8.03	1.021	0.99982
1521	1	1.48	1	89	376	0.003	89.00	0.24	1.000	0.99999
1523	1	2.35	1	141	743	0.001	141.00	0.19	1.000	0.99999
1842	1	4.03	1	242	284	0.004	242.00	0.85	1.000	0.99998
2051	1	1.68	5	505	167	0.030	101.00	3.02	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
2171	2	7.46	106	26,888	578	0.183	253.66	46.52	1.010	0.99896
2621	1	1.70	1	102	1,185	0.001	102.00	0.09	1.000	0.99999
2961	1	0.82	1	49	648	0.002	49.00	0.08	1.000	0.99999
3081	1	1.48	1	89	582	0.002	89.00	0.15	1.000	0.99999
3082	1	0.93	1	56	323	0.003	56.00	0.17	1.000	0.99999
3121	1	1.05	28	1,786	1,139	0.025	63.79	1.57	1.000	0.99996
3222	1	0.67	1	40	782	0.001	40.00	0.05	1.000	0.99999
3302	2	4.62	2	277	946	0.002	138.50	0.29	1.000	0.99999
3303	1	1.67	4	402	1,748	0.002	100.50	0.23	1.000	0.99999
3315	1	5.97	1	358	1,594	0.001	358.00	0.22	1.000	0.99999
3421	1	0.50	1	30	298	0.003	30.00	0.10	1.000	0.99999
3471	1	0.80	1	48	475	0.002	48.00	0.10	1.000	0.99999
3472	2	1.12	21	875	1,294	0.016	41.67	0.68	1.050	0.99998
3621	4	8.98	39	3,037	1,564	0.025	77.87	1.94	1.000	0.99996
3671	1	1.10	7	465	510	0.014	66.43	0.91	1.000	0.99998
3691	1	2.20	1	132	1,174	0.001	132.00	0.11	1.000	0.99999
3694	1	0.65	45	1,775	1,402	0.032	39.44	1.27	1.000	0.99997
3701	5	4.25	524	51,418	511	1.025	98.13	100.62	1.025	0.99775
3702	6	27.28	120	73,236	650	0.185	610.30	112.67	1.304	0.99748
3871	1	0.43	1	26	1,365	0.001	26.00	0.02	1.000	0.99999
3872	1	1.37	72	5,849	1,083	0.066	81.24	5.40	1.000	0.99988
3892	1	3.72	1	223	523	0.002	223.00	0.43	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
3894	2	2.18	9	586	155	0.058	65.11	3.78	1.000	0.99992
3901	1	1.43	17	1,464	887	0.019	86.12	1.65	1.000	0.99996
3903	1	1.42	1	85	301	0.003	85.00	0.28	1.000	0.99999
3912	3	3.02	1,387	34,060	1,228	1.129	24.56	27.74	1.163	0.99938
3951	1	0.65	18	711	940	0.019	39.50	0.76	1.000	0.99998
3952	1	1.47	1	88	1,317	0.001	88.00	0.07	1.000	0.99999
3953	2	5.31	116	18,543	532	0.218	159.85	34.86	1.018	0.99922
3982	1	1.13	1	68	1,779	0.001	68.00	0.04	1.000	0.99999
4101	5	7.07	58	2,798	970	0.060	48.24	2.88	1.000	0.99994
4138	1	2.93	1	176	760	0.001	176.00	0.23	1.000	0.99999
4142	1	5.45	14	4,587	609	0.023	327.64	7.53	1.000	0.99983
4153	1	1.07	1	64	984	0.001	64.00	0.07	1.000	0.99999
4171	1	1.28	1	77	685	0.001	77.00	0.11	1.000	0.99999
4182	1	4.12	1	247	769	0.001	247.00	0.32	1.000	0.99999
4211	1	1.05	1	63	910	0.001	63.00	0.07	1.000	0.99999
4212	3	7.10	33	5,191	830	0.040	157.30	6.25	1.031	0.99986
4222	2	3.30	2	198	1,046	0.002	99.00	0.19	1.000	0.99999
4223	1	0.37	1	22	1,023	0.001	22.00	0.02	1.000	0.99999
4302	1	1.33	1	80	656	0.002	80.00	0.12	1.000	0.99999
4303	3	4.06	84	10,153	1,116	0.075	120.87	9.10	1.012	0.99980
4324	1	1.27	1	76	649	0.002	76.00	0.12	1.000	0.99999
4334	1	1.95	1	117	298	0.003	117.00	0.39	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	0.80	65	3,156	1,777	0.037	48.55	1.78	1.000	0.99996
4343	2	1.93	99	8,283	1,651	0.060	83.67	5.02	1.010	0.99989
4362	1	1.65	84	8,327	832	0.101	99.13	10.01	1.000	0.99978
4371	5	8.98	87	4,048	1,541	0.056	46.53	2.63	1.048	0.99994
4373	4	3.72	51	2,212	793	0.064	43.37	2.79	1.063	0.99994
4431	1	0.82	5	247	1,396	0.004	49.40	0.18	1.000	0.99999
4432	1	2.13	13	1,674	468	0.028	128.77	3.58	1.000	0.99992
4601	3	5.22	96	10,235	431	0.223	106.61	23.75	1.021	0.99947
4602	2	0.51	8	187	953	0.008	23.38	0.20	1.143	0.99999
4714	1	0.63	4	154	333	0.012	38.50	0.46	1.000	0.99999
5601	4	7.02	142	31,587	1,354	0.105	222.44	23.33	1.014	0.99948
5602	1	1.68	5	507	676	0.007	101.40	0.75	1.000	0.99998
5905	1	1.70	1	102	1,918	0.001	102.00	0.05	1.000	0.99999
6024	2	3.27	569	65,847	397	1.433	115.72	165.86	1.433	0.99628
6141	2	4.43	2	266	636	0.003	133.00	0.42	1.000	0.99999
6142	1	2.92	1	175	314	0.003	175.00	0.56	1.000	0.99999
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	129	231.67	5,182	459,559	168,708	0.031	88.68	2.72	1.086	0.99994

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 2/1/2020 to 2/29/2020
 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	1,670	0.001	70.00	0.04	1.000	0.99999
1082	2	3.26	2	196	1,369	0.001	98.00	0.14	1.000	0.99999
1094	2	1.50	20	968	1,244	0.016	48.40	0.78	1.053	0.99998
1103	1	3.58	13	2,654	995	0.013	204.15	2.67	1.000	0.99994
1211	1	0.40	1	24	1,492	0.001	24.00	0.02	1.000	0.99999
1212	2	1.58	2	95	338	0.006	47.50	0.28	1.000	0.99999
1243	2	7.90	29	9,534	1,227	0.024	328.76	7.77	1.000	0.99981
1273	1	0.92	1	55	870	0.001	55.00	0.06	1.000	0.99999
1282	1	1.75	1	105	694	0.001	105.00	0.15	1.000	0.99999
1312	2	4.35	2	261	958	0.002	130.50	0.27	1.000	0.99999
1452	1	0.83	1	50	455	0.002	50.00	0.11	1.000	0.99999
1453	1	2.08	1	125	1,810	0.001	125.00	0.07	1.000	0.99999
1523	2	2.20	37	2,545	746	0.050	68.78	3.41	1.000	0.99992
1842	1	1.55	284	26,506	287	0.990	93.33	92.36	1.000	0.99779
2921	1	1.80	1	108	384	0.003	108.00	0.28	1.000	0.99999
2961	2	1.65	41	316	649	0.063	7.71	0.49	1.000	0.99999
3303	1	0.32	1	19	1,768	0.001	19.00	0.01	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
3315	3	3.42	7	504	1,595	0.004	72.00	0.32	1.000	0.99999
3551	1	1.15	6	419	1,035	0.006	69.83	0.40	1.000	0.99999
3593	1	1.47	1	88	943	0.001	88.00	0.09	1.000	0.99999
3621	4	1.51	26	1,417	1,570	0.017	54.50	0.90	1.130	0.99998
3664	3	4.58	45	5,169	569	0.079	114.87	9.08	1.023	0.99978
3671	1	0.13	25	209	513	0.049	8.36	0.41	1.000	0.99999
3673	1	0.25	201	2,995	272	0.739	14.90	11.01	1.000	0.99974
3691	1	0.33	1	20	773	0.001	20.00	0.03	1.000	0.99999
3694	1	0.72	52	2,264	962	0.054	43.54	2.35	1.000	0.99994
3751	1	2.85	1	171	910	0.001	171.00	0.19	1.000	0.99999
3871	1	1.27	68	5,168	1,370	0.050	76.00	3.77	1.000	0.99991
3872	2	3.79	43	5,168	1,085	0.040	120.19	4.76	1.000	0.99989
3873	1	0.67	1	40	806	0.001	40.00	0.05	1.000	0.99999
3892	15	9.37	179	9,684	530	0.338	54.10	18.27	1.059	0.99956
3971	1	0.35	3	65	681	0.004	21.67	0.10	1.000	0.99999
3981	2	7.17	2	430	1,534	0.001	215.00	0.28	1.000	0.99999
3991	1	2.08	7	876	748	0.009	125.14	1.17	1.000	0.99997
4031	1	2.25	1	135	712	0.001	135.00	0.19	1.000	0.99999
4091	1	0.40	13	305	1,166	0.011	23.46	0.26	1.000	0.99999
4102	1	0.98	72	4,272	542	0.133	59.33	7.88	1.000	0.99981
4131	1	1.17	37	2,588	204	0.181	69.95	12.69	1.000	0.99970
4155	1	0.82	18	884	1,599	0.011	49.11	0.55	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
4171	1	1.48	1	89	926	0.001	89.00	0.10	1.000	0.99999
4172	6	8.04	1,987	165,203	1,776	1.119	83.14	93.02	1.119	0.99777
4173	1	1.47	1	88	668	0.001	88.00	0.13	1.000	0.99999
4222	1	0.63	1	38	1,053	0.001	38.00	0.04	1.000	0.99999
4223	1	0.73	2	88	1,041	0.002	44.00	0.08	1.000	0.99999
432	1	3.02	89	16,181	90	0.989	181.81	179.79	1.000	0.99569
433	1	1.30	1	78	84	0.012	78.00	0.93	1.000	0.99998
4341	1	1.72	39	4,030	1,790	0.022	103.33	2.25	1.000	0.99995
4343	3	3.73	1,712	64,578	1,661	1.031	37.72	38.88	1.037	0.99907
4361	1	1.35	12	952	1,619	0.007	79.33	0.59	1.000	0.99999
4362	1	0.68	1	41	833	0.001	41.00	0.05	1.000	0.99999
4363	2	6.80	2	408	1,481	0.001	204.00	0.28	1.000	0.99999
4385	1	0.95	1	57	1,142	0.001	57.00	0.05	1.000	0.99999
4431	1	4.25	1	255	1,400	0.001	255.00	0.18	1.000	0.99999
457	1	1.10	1	66	179	0.006	66.00	0.37	1.000	0.99999
4602	1	1.73	1	104	958	0.001	104.00	0.11	1.000	0.99999
4692	2	4.10	2	246	482	0.004	123.00	0.51	2.000	0.99999
4714	3	2.30	63	1,274	336	0.188	20.22	3.79	1.033	0.99991
5602	1	2.32	72	10,078	676	0.107	139.97	14.91	1.000	0.99964
5603	1	0.65	1	39	1,318	0.001	39.00	0.03	1.000	0.99999
5902	1	0.50	1	30	962	0.001	30.00	0.03	1.000	0.99999
5903	1	0.57	1	34	276	0.004	34.00	0.12	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
5905	3	3.93	74	9,288	1,924	0.038	125.51	4.83	1.072	0.99988
6021	3	3.51	3	210	1,344	0.002	70.00	0.16	1.000	0.99999
6022	1	1.47	5	443	512	0.010	88.60	0.87	1.000	0.99998
6024	1	1.55	172	15,998	395	0.435	93.01	40.50	1.000	0.99903
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	110	143.45	5,493	376,398	168,578	0.033	68.52	2.23	1.054	0.99995

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 3/1/2020 to 3/31/2020
 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	3.44	95	5,873	1,735	0.055	61.82	3.39	1.000	0.99992
1051	3	6.28	11	1,415	771	0.014	128.64	1.84	1.222	0.99996
1082	4	4.47	4	268	1,375	0.003	67.00	0.19	1.000	0.99999
1091	1	0.72	53	2,303	702	0.075	43.45	3.28	1.000	0.99993
1093	1	1.37	26	2,154	238	0.109	82.85	9.05	1.000	0.99980
1094	1	0.48	1	29	1,246	0.001	29.00	0.02	1.000	0.99999
1102	2	1.65	2	99	1,012	0.002	49.50	0.10	1.000	0.99999
1103	1	6.07	1	364	999	0.001	364.00	0.36	1.000	0.99999
1141	1	0.33	20	407	909	0.022	20.35	0.45	1.000	0.99999
1142	7	7.16	25	1,636	218	0.115	65.44	7.50	1.042	0.99983
1211	2	2.94	2	176	1,494	0.001	88.00	0.12	1.000	0.99999
1232	1	2.70	1,198	194,834	1,198	1.000	162.63	162.63	1.000	0.99636
1242	1	0.57	20	693	857	0.023	34.65	0.81	1.000	0.99998
1243	2	1.78	17	646	1,233	0.014	38.00	0.52	1.063	0.99999
1263	1	0.88	1	53	1,209	0.001	53.00	0.04	1.000	0.99999
1264	2	2.05	2	123	20	0.100	61.50	6.15	1.000	0.99986
1271	2	2.80	49	3,961	976	0.050	80.84	4.06	1.021	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
1273	2	1.92	10	575	870	0.011	57.50	0.66	1.000	0.99999
1312	2	7.47	13	1,117	964	0.013	85.92	1.16	1.083	0.99997
1451	2	2.12	36	1,937	544	0.066	53.81	3.56	1.000	0.99992
1452	1	0.82	4	198	456	0.009	49.50	0.43	1.000	0.99999
1453	4	5.15	14	801	1,814	0.008	57.21	0.44	1.077	0.99999
1454	1	2.12	1	127	941	0.001	127.00	0.13	1.000	0.99999
1521	3	3.10	27	1,817	382	0.071	67.30	4.76	1.038	0.99989
1523	1	1.25	1	75	750	0.001	75.00	0.10	1.000	0.99999
1843	2	2.70	12	681	1,096	0.011	56.75	0.62	1.000	0.99999
2211	1	1.03	39	2,407	736	0.053	61.72	3.27	1.000	0.99993
2212	1	1.67	1	100	1,338	0.001	100.00	0.07	1.000	0.99999
2511	1	0.10	623	4,101	623	1.000	6.58	6.58	1.000	0.99985
2621	3	11.09	34	8,775	1,195	0.028	258.09	7.34	1.063	0.99984
2622	1	1.13	1	68	115	0.009	68.00	0.59	1.000	0.99999
2921	1	1.23	1	74	388	0.003	74.00	0.19	1.000	0.99999
2951	1	2.35	1	141	1,230	0.001	141.00	0.11	1.000	0.99999
3121	1	0.60	1	36	1,144	0.001	36.00	0.03	1.000	0.99999
3122	3	4.13	1,023	47,383	870	1.176	46.32	54.46	1.179	0.99878
3123	1	0.95	22	1,258	1,107	0.020	57.18	1.14	1.000	0.99997
3222	5	7.33	793	170,517	789	1.005	215.03	216.12	1.005	0.99516
3231	1	1.73	1	104	210	0.005	104.00	0.50	1.000	0.99999
3301	1	0.45	1	27	766	0.001	27.00	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
3302	3	6.19	3	371	968	0.003	123.67	0.38	1.000	0.99999
3303	1	1.45	1	87	1,789	0.001	87.00	0.05	1.000	0.99999
3304	2	2.68	1,110	82,522	1,109	1.001	74.34	74.41	1.001	0.99833
3311	2	2.70	113	7,176	536	0.211	63.50	13.39	1.009	0.99970
3312	1	0.75	418	18,921	418	1.000	45.27	45.27	1.000	0.99899
3313	2	1.45	1,397	67,419	1,404	0.995	48.26	48.02	1.001	0.99892
3315	1	0.92	30	1,653	1,596	0.019	55.10	1.04	1.000	0.99998
3422	3	1.19	12	305	989	0.012	25.42	0.31	1.000	0.99999
3471	1	1.45	1	87	482	0.002	87.00	0.18	1.000	0.99999
3472	2	4.15	23	2,668	1,304	0.018	116.00	2.05	1.000	0.99995
3553	2	2.62	227	21,394	883	0.257	94.25	24.23	1.164	0.99946
3592	1	1.02	13	803	1,741	0.007	61.77	0.46	1.000	0.99999
3594	1	1.58	9	855	774	0.012	95.00	1.10	1.000	0.99998
3621	2	2.07	2	124	1,577	0.001	62.00	0.08	1.000	0.99999
3662	1	0.88	1	53	828	0.001	53.00	0.06	1.000	0.99999
3664	1	1.17	1	70	572	0.002	70.00	0.12	1.000	0.99999
3673	1	1.82	1	109	272	0.004	109.00	0.40	1.000	0.99999
3871	1	2.05	4	492	1,375	0.003	123.00	0.36	1.000	0.99999
3872	3	7.27	364	51,280	1,087	0.335	140.88	47.18	2.000	0.99894
3873	1	2.03	56	6,796	807	0.069	121.36	8.42	1.000	0.99981
3893	1	6.30	1	378	1,155	0.001	378.00	0.33	1.000	0.99999
3894	2	5.58	2	335	157	0.013	167.50	2.13	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
3901	1	0.68	1	41	888	0.001	41.00	0.05	1.000	0.99999
3912	1	0.38	1	23	1,245	0.001	23.00	0.02	1.000	0.99999
3913	4	5.11	11	804	820	0.013	73.09	0.98	1.000	0.99998
3951	1	0.68	1	41	941	0.001	41.00	0.04	1.000	0.99999
3981	3	3.43	1,541	82,130	1,539	1.001	53.30	53.37	1.001	0.99880
3982	2	1.99	8	491	1,808	0.004	61.38	0.27	1.000	0.99999
3991	1	1.10	1	66	752	0.001	66.00	0.09	1.000	0.99999
402	1	2.08	1	125	109	0.009	125.00	1.15	1.000	0.99997
4031	1	1.65	13	1,295	713	0.018	99.62	1.82	1.000	0.99996
4092	1	0.95	1	57	450	0.002	57.00	0.13	1.000	0.99999
4101	3	5.17	36	4,644	971	0.037	129.00	4.78	1.000	0.99989
4152	1	3.82	121	27,737	1,285	0.094	229.23	21.59	1.000	0.99952
4153	2	3.38	991	148,602	991	1.000	149.95	149.95	1.001	0.99664
4154	2	2.77	1,282	115,472	1,282	1.000	90.07	90.07	1.001	0.99798
4155	1	1.72	1	103	1,615	0.001	103.00	0.06	1.000	0.99999
4172	1	0.38	1	23	1,791	0.001	23.00	0.01	1.000	0.99999
4173	1	0.60	40	1,466	675	0.059	36.65	2.17	1.000	0.99995
4182	1	2.23	1	134	773	0.001	134.00	0.17	1.000	0.99999
4211	1	0.85	1	51	927	0.001	51.00	0.06	1.000	0.99999
4222	1	0.90	1	54	1,060	0.001	54.00	0.05	1.000	0.99999
4224	1	0.83	29	1,476	768	0.038	50.90	1.92	1.000	0.99996
4313	1	1.58	21	1,979	547	0.038	94.24	3.62	1.000	0.99992

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4341	2	2.29	28	1,277	1,802	0.016	45.61	0.71	1.037	0.99998
4342	1	0.65	21	826	516	0.041	39.33	1.60	1.000	0.99996
4343	4	4.19	54	5,101	1,671	0.032	94.46	3.05	1.286	0.99993
4361	3	2.47	1,479	57,884	1,628	0.908	39.14	35.56	1.001	0.99920
4362	1	1.60	1	96	834	0.001	96.00	0.12	1.000	0.99999
4363	2	2.83	2	170	1,497	0.001	85.00	0.11	1.000	0.99999
4371	2	1.69	25	1,660	1,550	0.016	66.40	1.07	1.000	0.99998
4373	2	5.10	3	535	781	0.004	178.33	0.69	1.000	0.99998
4431	1	4.33	166	43,190	1,403	0.118	260.18	30.78	1.000	0.99931
4432	1	1.87	1	112	475	0.002	112.00	0.24	1.000	0.99999
457	1	0.75	1	45	179	0.006	45.00	0.25	1.000	0.99999
4602	2	2.53	2	152	963	0.002	76.00	0.16	1.000	0.99999
4714	1	0.98	39	2,318	339	0.115	59.44	6.84	1.000	0.99985
4791	1	1.03	1	62	624	0.002	62.00	0.10	1.000	0.99999
5601	1	2.27	20	2,737	1,397	0.014	136.85	1.96	1.000	0.99996
5602	1	2.33	1	140	676	0.001	140.00	0.21	1.000	0.99999
5603	4	4.28	32	3,912	1,327	0.024	122.25	2.95	1.067	0.99993
5902	1	0.43	12	316	964	0.012	26.33	0.33	1.000	0.99999
6021	2	3.32	59	3,143	1,345	0.044	53.27	2.34	1.000	0.99995
6024	2	1.65	160	8,006	393	0.407	50.04	20.37	1.212	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
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	176	252.32	14,186	1,239,747	170,618	0.083	87.39	7.27	1.031	0.99984

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 4/1/2020 to 4/30/2020
 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	7.05	5	1,153	1,744	0.003	230.60	0.66	1.000	0.99998
1051	3	4.10	29	2,280	772	0.038	78.62	2.95	1.000	0.99993
1052	1	1.25	43	3,265	1,160	0.037	75.93	2.81	1.000	0.99993
1082	5	8.17	5	490	1,376	0.004	98.00	0.36	1.000	0.99999
1091	1	0.60	9	328	703	0.013	36.44	0.47	1.000	0.99999
1092	3	13.53	3	812	939	0.003	270.67	0.86	1.000	0.99998
1093	1	3.47	3	626	238	0.013	208.67	2.63	1.000	0.99994
1094	4	15.08	15	1,377	1,244	0.012	91.80	1.11	1.000	0.99997
1103	2	2.88	15	2,344	1,000	0.015	156.27	2.34	1.000	0.99995
1211	5	6.41	18	1,489	1,494	0.012	82.72	1.00	1.000	0.99998
1212	2	1.58	4	211	340	0.012	52.75	0.62	1.000	0.99999
1213	8	11.08	30	2,685	564	0.053	89.50	4.76	1.034	0.99989
1230	1	2.70	1	162	1,212	0.001	162.00	0.13	1.000	0.99999
1233	1	0.52	1	31	646	0.002	31.00	0.05	1.000	0.99999
1241	5	16.49	895	19,325	878	1.019	21.59	22.01	1.019	0.99949
1243	3	8.90	39	2,555	1,234	0.032	65.51	2.07	1.026	0.99995
1261	1	0.60	1	36	403	0.002	36.00	0.09	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
1262	1	6.32	1	379	167	0.006	379.00	2.27	1.000	0.99995
1265	1	0.68	112	4,597	1,307	0.086	41.04	3.52	1.000	0.99992
1282	6	16.33	258	43,649	696	0.371	169.18	62.71	1.008	0.99855
1311	5	17.28	9	1,758	280	0.032	195.33	6.28	1.000	0.99985
1451	2	6.70	546	43,994	544	1.004	80.58	80.87	1.004	0.99813
1452	1	1.48	1	89	456	0.002	89.00	0.20	1.000	0.99999
1453	7	25.35	50	11,464	1,814	0.028	229.28	6.32	1.064	0.99985
1454	1	1.47	9	800	942	0.010	88.89	0.85	1.000	0.99998
1455	3	4.52	823	42,734	413	1.993	51.92	103.47	2.002	0.99760
1521	6	9.73	62	5,612	382	0.162	90.52	14.69	1.127	0.99966
1523	7	10.23	70	4,529	750	0.093	64.70	6.04	1.061	0.99986
1843	3	6.91	12	1,130	1,098	0.011	94.17	1.03	1.000	0.99998
2092	1	1.52	1	91	943	0.001	91.00	0.10	1.000	0.99999
2172	1	1.57	1	94	242	0.004	94.00	0.39	1.000	0.99999
2211	1	0.58	5	175	736	0.007	35.00	0.24	1.000	0.99999
2212	3	2.93	3	176	1,338	0.002	58.67	0.13	1.000	0.99999
2492	1	1.40	1	84	29	0.034	84.00	2.90	1.000	0.99993
2511	3	9.55	76	20,638	622	0.122	271.55	33.18	1.027	0.99923
2621	6	28.13	66	11,697	1,196	0.055	177.23	9.78	1.031	0.99977
2951	2	3.17	1,231	48,633	1,230	1.001	39.51	39.54	1.001	0.99908
2952	1	0.65	370	14,516	370	1.000	39.23	39.23	1.000	0.99909
3121	1	0.35	231	4,966	1,144	0.202	21.50	4.34	1.000	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
3221	1	0.52	1,266	39,288	1,266	1.000	31.03	31.03	1.000	0.99928
3222	5	7.89	31	1,890	790	0.039	60.97	2.39	1.033	0.99994
3303	3	5.38	22	2,902	1,789	0.012	131.91	1.62	1.000	0.99996
3304	1	11.05	42	27,861	1,109	0.038	663.36	25.12	1.000	0.99942
3311	2	1.63	34	1,434	536	0.063	42.18	2.68	1.000	0.99994
3315	3	2.60	13	841	1,596	0.008	64.69	0.53	1.083	0.99999
3471	1	1.42	1	85	484	0.002	85.00	0.18	1.000	0.99999
3472	1	0.88	1	53	1,304	0.001	53.00	0.04	1.000	0.99999
3552	1	3.43	3	618	579	0.005	206.00	1.07	1.000	0.99998
3553	5	51.01	160	25,216	876	0.183	157.60	28.79	1.103	0.99933
3591	1	2.13	1	128	1,419	0.001	128.00	0.09	1.000	0.99999
3592	4	6.00	70	4,634	1,741	0.040	66.20	2.66	1.014	0.99994
3621	3	3.09	25	1,010	1,578	0.016	40.40	0.64	1.087	0.99999
3661	2	6.48	19	1,959	1,058	0.018	103.11	1.85	1.056	0.99996
3662	2	2.93	21	1,078	836	0.025	51.33	1.29	1.000	0.99997
3663	1	1.45	23	2,001	308	0.075	87.00	6.50	1.000	0.99985
3664	1	1.07	1	64	574	0.002	64.00	0.11	1.000	0.99999
3675	1	1.13	1	68	418	0.002	68.00	0.16	1.000	0.99999
3693	3	3.36	3	202	181	0.017	67.33	1.12	1.500	0.99997
3751	1	2.22	912	121,326	912	1.000	133.03	133.03	1.000	0.99692
3872	1	2.07	1	124	1,088	0.001	124.00	0.11	1.000	0.99999
3873	1	2.58	53	8,247	807	0.066	155.60	10.22	1.000	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
3893	2	1.35	6	253	1,157	0.005	42.17	0.22	1.000	0.99999
3894	1	1.00	11	618	157	0.070	56.18	3.94	1.000	0.99991
3901	3	5.75	72	5,904	888	0.081	82.00	6.65	1.014	0.99985
3903	1	2.58	7	1,090	302	0.023	155.71	3.61	1.000	0.99992
3913	1	0.40	1	24	820	0.001	24.00	0.03	1.000	0.99999
3951	3	3.61	945	101,953	942	1.003	107.89	108.23	1.003	0.99749
3952	2	3.07	64	4,181	1,342	0.048	65.33	3.12	1.016	0.99993
3953	5	6.39	248	16,850	534	0.464	67.94	31.55	1.102	0.99927
3981	4	5.16	4	310	1,539	0.003	77.50	0.20	1.000	0.99999
3982	1	4.90	1	294	1,812	0.001	294.00	0.16	1.000	0.99999
3991	2	4.29	13	2,650	752	0.017	203.85	3.52	1.083	0.99992
4031	4	10.37	771	95,668	713	1.081	124.08	134.18	1.081	0.99689
4091	3	3.22	16	653	1,178	0.014	40.81	0.55	1.000	0.99999
4092	2	2.63	6	385	450	0.013	64.17	0.86	1.000	0.99998
4101	2	1.99	2	119	971	0.002	59.50	0.12	1.000	0.99999
4102	1	2.22	117	15,615	542	0.216	133.46	28.81	1.000	0.99933
4137	7	8.80	54	2,296	801	0.067	42.52	2.87	1.000	0.99993
4141	1	4.75	1	285	83	0.012	285.00	3.43	1.000	0.99992
4142	2	6.80	26	5,851	614	0.042	225.04	9.53	1.182	0.99978
4152	1	2.93	12	2,118	1,286	0.009	176.50	1.65	1.000	0.99996
4154	1	1.72	86	8,911	1,308	0.066	103.62	6.81	1.000	0.99984
4172	2	1.56	2	94	1,792	0.001	47.00	0.05	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
4222	6	8.00	1,225	109,605	1,062	1.153	89.47	103.21	1.153	0.99761
4223	2	5.36	117	21,983	1,073	0.109	187.89	20.49	1.009	0.99953
4224	1	2.27	1	136	766	0.001	136.00	0.18	1.000	0.99999
4303	3	14.82	40	6,648	1,210	0.033	166.20	5.49	1.000	0.99987
4311	1	1.95	31	3,637	874	0.035	117.32	4.16	1.000	0.99990
4341	4	5.08	23	1,781	1,802	0.013	77.43	0.99	1.045	0.99998
4343	1	1.08	40	2,635	1,672	0.024	65.88	1.58	1.000	0.99996
4361	5	4.77	187	9,307	1,751	0.107	49.77	5.32	1.000	0.99988
4362	1	5.28	1	317	834	0.001	317.00	0.38	1.000	0.99999
4363	2	4.50	35	4,935	1,501	0.023	141.00	3.29	1.000	0.99992
4371	3	12.22	1,547	295,457	1,550	0.998	190.99	190.62	1.001	0.99559
4372	1	1.22	1	73	430	0.002	73.00	0.17	1.000	0.99999
4431	1	2.47	9	1,335	1,404	0.006	148.33	0.95	1.000	0.99998
4602	2	2.86	24	2,077	964	0.025	86.54	2.15	1.200	0.99995
4692	1	1.15	29	2,012	486	0.060	69.38	4.14	1.000	0.99990
5601	2	8.26	2	496	1,402	0.001	248.00	0.35	1.000	0.99999
5602	4	2.14	680	30,245	676	1.006	44.48	44.74	1.006	0.99896
5603	1	1.62	31	3,033	1,328	0.023	97.84	2.28	1.000	0.99995
5904	2	9.29	2	557	1,275	0.002	278.50	0.44	1.000	0.99999
5905	4	21.67	48	24,070	1,931	0.025	501.46	12.47	1.000	0.99971
6021	4	8.45	42	4,217	1,346	0.031	100.40	3.13	1.000	0.99993
6022	1	0.42	1	25	533	0.002	25.00	0.05	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
6142	1	0.48	1	29	327	0.003	29.00	0.09	1.000	0.99999
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	260	592.42	14,339	1,332,735	170,835	0.084	92.94	7.80	1.053	0.99982

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 5/1/2020 to 5/31/2020
 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	5.82	93	6,288	1,755	0.053	67.61	3.58	1.057	0.99992
1051	3	3.28	148	10,244	772	0.192	69.22	13.27	1.000	0.99970
1081	5	41.68	1,398	207,265	681	2.053	148.26	304.35	2.053	0.99318
1082	5	14.14	99	15,554	1,378	0.072	157.11	11.29	1.000	0.99975
1092	4	5.21	47	4,291	940	0.050	91.30	4.56	1.044	0.99990
1103	2	1.87	22	1,023	1,002	0.022	46.50	1.02	1.048	0.99998
1211	1	0.63	1	38	1,494	0.001	38.00	0.03	1.000	0.99999
1213	1	0.52	9	281	564	0.016	31.22	0.50	1.000	0.99999
1230	3	4.54	72	4,404	1,213	0.059	61.17	3.63	1.000	0.99992
1233	1	1.47	18	1,599	647	0.028	88.83	2.47	1.000	0.99994
1241	4	4.22	118	8,980	880	0.134	76.10	10.20	1.093	0.99977
1242	1	1.68	1	101	858	0.001	101.00	0.12	1.000	0.99999
1262	1	1.57	167	15,698	167	1.000	94.00	94.00	1.000	0.99789
1271	4	8.04	6	577	977	0.006	96.17	0.59	1.500	0.99999
1282	2	2.08	169	16,135	696	0.243	95.47	23.18	1.000	0.99948
1284	1	3.60	1	216	966	0.001	216.00	0.22	1.000	0.99999
1312	5	7.04	2,162	80,395	963	2.245	37.19	83.48	2.245	0.99813

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1451	4	6.88	20	1,484	545	0.037	74.20	2.72	1.000	0.99994
1452	1	1.43	20	1,729	456	0.044	86.45	3.79	1.000	0.99992
1454	1	1.10	1	66	942	0.001	66.00	0.07	1.000	0.99999
1521	1	3.45	9	1,864	382	0.024	207.11	4.88	1.000	0.99989
1523	2	1.82	750	38,718	750	1.000	51.62	51.62	1.001	0.99884
1841	1	4.22	1	253	550	0.002	253.00	0.46	1.000	0.99999
1843	4	7.43	17	1,539	1,099	0.015	90.53	1.40	1.133	0.99997
2052	1	0.78	2	95	85	0.024	47.50	1.12	1.000	0.99997
2091	2	7.71	2	463	897	0.002	231.50	0.52	1.000	0.99999
2171	1	2.12	1	127	582	0.002	127.00	0.22	1.000	0.99999
2211	1	1.25	1	75	736	0.001	75.00	0.10	1.000	0.99999
2212	1	0.40	16	389	1,337	0.012	24.31	0.29	1.000	0.99999
2511	2	2.44	2	146	621	0.003	73.00	0.24	1.000	0.99999
2621	8	17.61	167	28,045	1,196	0.140	167.93	23.45	1.000	0.99947
2951	1	1.05	1	63	1,232	0.001	63.00	0.05	1.000	0.99999
2952	1	0.78	1	47	370	0.003	47.00	0.13	1.000	0.99999
2961	1	4.53	70	19,049	650	0.108	272.13	29.31	1.000	0.99934
3081	6	71.82	181	240,349	585	0.309	1327.90	410.85	1.058	0.99080
3082	3	5.14	328	41,920	327	1.003	127.80	128.20	1.003	0.99713
3121	1	3.18	3	574	1,145	0.003	191.33	0.50	1.000	0.99999
3122	4	4.48	886	18,827	871	1.017	20.64	21.00	1.017	0.99953
3123	6	6.80	14	1,424	1,106	0.013	101.71	1.29	1.167	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
3181	2	5.57	33	2,997	754	0.044	90.82	3.97	1.031	0.99991
3221	4	4.71	12	641	1,268	0.009	53.42	0.51	1.091	0.99999
3222	1	1.45	1	87	790	0.001	87.00	0.11	1.000	0.99999
3231	1	2.47	1	148	211	0.005	148.00	0.70	1.000	0.99998
3302	1	2.48	1	149	968	0.001	149.00	0.15	1.000	0.99999
3303	3	2.89	46	2,418	1,789	0.026	52.57	1.35	1.022	0.99997
3313	3	4.72	38	3,153	1,404	0.027	82.97	2.25	1.056	0.99995
3315	2	4.33	65	13,072	1,596	0.041	201.11	8.19	1.016	0.99982
3422	5	28.70	418	260,023	989	0.423	622.06	262.92	1.048	0.99411
3423	3	2.69	3	161	396	0.008	53.67	0.41	1.500	0.99999
3471	2	1.41	3	141	485	0.006	47.00	0.29	1.000	0.99999
3472	3	5.53	5	606	1,304	0.004	121.20	0.46	1.000	0.99999
3551	2	13.19	30	7,712	1,047	0.029	257.07	7.37	1.000	0.99983
3552	1	1.55	7	651	579	0.012	93.00	1.12	1.000	0.99997
3553	4	9.23	47	2,352	873	0.054	50.04	2.69	1.068	0.99994
3591	3	3.25	23	941	1,419	0.016	40.91	0.66	1.000	0.99999
3592	2	4.70	31	4,935	1,741	0.018	159.19	2.83	1.000	0.99994
3621	9	15.02	300	35,659	1,578	0.190	118.86	22.60	1.042	0.99949
3661	5	4.25	105	5,784	1,061	0.099	55.09	5.45	1.019	0.99988
3662	4	5.60	25	1,615	845	0.030	64.60	1.91	1.042	0.99996
3663	1	2.72	1	163	307	0.003	163.00	0.53	1.000	0.99999
3664	4	1.97	23	911	575	0.040	39.61	1.58	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
3671	1	0.60	26	943	516	0.050	36.27	1.83	1.000	0.99996
3691	1	0.32	1	19	373	0.003	19.00	0.05	1.000	0.99999
3694	1	1.13	54	3,681	522	0.103	68.17	7.05	1.000	0.99984
3702	1	0.35	16	350	656	0.024	21.88	0.53	1.000	0.99999
3751	1	0.95	32	1,854	912	0.035	57.94	2.03	1.000	0.99995
3871	3	3.42	31	1,781	1,376	0.023	57.45	1.29	1.033	0.99997
3873	2	4.50	649	73,400	807	0.804	113.10	90.95	1.405	0.99796
3892	3	17.59	40	28,592	536	0.075	714.80	53.34	1.053	0.99881
3901	5	6.69	125	10,653	888	0.141	85.22	12.00	1.008	0.99973
3903	1	5.40	45	14,601	302	0.149	324.47	48.35	1.000	0.99892
3913	1	0.55	1	33	821	0.001	33.00	0.04	1.000	0.99999
3914	1	0.57	17	581	392	0.043	34.18	1.48	1.000	0.99997
3951	5	10.87	18	2,357	943	0.019	130.94	2.50	1.000	0.99994
3952	4	5.59	313	28,971	1,347	0.232	92.56	21.51	1.164	0.99952
3953	5	7.76	22	2,288	535	0.041	104.00	4.28	1.000	0.99990
3971	2	1.30	2	78	685	0.003	39.00	0.11	1.000	0.99999
3981	5	13.07	725	118,356	1,539	0.471	163.25	76.90	1.000	0.99828
3982	3	7.60	3,765	419,194	1,816	2.073	111.34	230.83	2.073	0.99483
3991	3	6.05	17	1,195	752	0.023	70.29	1.59	1.000	0.99996
4031	2	2.96	23	1,936	713	0.032	84.17	2.72	1.045	0.99994
4091	2	0.98	20	859	1,178	0.017	42.95	0.73	1.000	0.99998
4092	4	50.47	20	4,916	450	0.044	245.80	10.92	1.000	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
4101	7	13.25	71	9,610	971	0.073	135.35	9.90	1.000	0.99978
4102	3	10.47	19	5,533	542	0.035	291.21	10.21	1.000	0.99977
4134	2	4.30	30	4,030	1,258	0.024	134.33	3.20	1.034	0.99993
4136	1	1.57	10	949	672	0.015	94.90	1.41	1.000	0.99997
4141	1	2.12	1	127	83	0.012	127.00	1.53	1.000	0.99997
4142	2	2.27	50	3,883	614	0.081	77.66	6.32	1.020	0.99986
4153	4	8.05	11	969	1,003	0.011	88.09	0.97	1.100	0.99998
4171	2	2.30	67	4,990	1,174	0.057	74.48	4.25	1.000	0.99990
4172	2	4.30	13	1,882	1,792	0.007	144.77	1.05	1.000	0.99998
4173	1	0.88	50	2,665	684	0.073	53.30	3.90	1.000	0.99991
4182	2	3.25	24	1,535	773	0.031	63.96	1.99	1.000	0.99996
4222	6	13.98	252	45,872	1,063	0.237	182.03	43.15	1.086	0.99903
4223	2	2.17	45	2,987	1,087	0.041	66.38	2.75	1.000	0.99994
4224	2	6.54	20	3,819	765	0.026	190.95	4.99	1.053	0.99989
4302	2	6.05	79	16,213	660	0.120	205.23	24.57	1.013	0.99945
4332	1	1.23	1	74	330	0.003	74.00	0.22	1.000	0.99999
4341	4	3.00	68	2,948	1,806	0.038	43.35	1.63	1.015	0.99996
4342	1	0.22	1	13	516	0.002	13.00	0.03	1.000	0.99999
4343	4	4.74	82	6,172	1,672	0.049	75.27	3.69	1.079	0.99992
4361	6	9.82	1,889	79,777	1,751	1.079	42.23	45.56	1.079	0.99898
4362	1	2.87	1	172	834	0.001	172.00	0.21	1.000	0.99999
4363	3	10.13	28	10,508	1,505	0.019	375.29	6.98	1.000	0.99984

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4371	10	18.18	123	21,942	1,550	0.079	178.39	14.16	1.000	0.99968
4373	6	9.39	23	2,559	763	0.030	111.26	3.35	1.095	0.99992
4431	1	1.75	1	105	1,404	0.001	105.00	0.07	1.000	0.99999
4511	1	2.17	55	7,192	1,127	0.049	130.76	6.38	1.000	0.99986
4601	4	4.44	7	423	400	0.018	60.43	1.06	1.000	0.99998
4602	3	3.48	43	2,931	965	0.045	68.16	3.04	1.024	0.99993
4791	2	3.55	22	3,140	624	0.035	142.73	5.03	1.000	0.99989
4793	1	1.83	1	110	690	0.001	110.00	0.16	1.000	0.99999
4794	1	0.50	1	30	397	0.003	30.00	0.08	1.000	0.99999
5601	8	15.46	221	31,887	1,406	0.157	144.29	22.68	1.014	0.99949
5602	3	9.85	1,354	180,701	694	2.000	133.46	266.91	2.000	0.99402
5641	2	2.70	2	162	332	0.006	81.00	0.49	1.000	0.99999
5902	1	2.95	1	177	965	0.001	177.00	0.18	1.000	0.99999
5905	3	3.87	34	2,239	1,933	0.018	65.85	1.16	1.000	0.99997
6023	1	1.42	1	85	129	0.008	85.00	0.66	1.000	0.99999
6141	2	3.42	14	969	643	0.022	69.21	1.51	1.077	0.99997
6142	2	2.80	2	168	327	0.006	84.00	0.51	1.000	0.99999
NUMBER OF OUTAGES		OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	334	746.65	20,141	2,413,352	171,123	0.118	119.82	14.10	1.365	0.99968

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 6/1/2020 to 6/30/2020
 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	0.88	45	2,427	1,756	0.026	53.93	1.38	1.000	0.99997
1051	12	15.63	289	25,697	772	0.374	88.92	33.29	1.028	0.99923
1081	5	5.03	76	4,726	287	0.265	62.18	16.47	1.027	0.99962
1082	13	19.37	44	3,868	1,378	0.032	87.91	2.81	1.189	0.99994
1091	3	2.07	11	331	704	0.016	30.09	0.47	1.000	0.99999
1092	2	4.40	2	264	940	0.002	132.00	0.28	1.000	0.99999
1094	3	2.23	16	743	1,243	0.013	46.44	0.60	1.000	0.99999
1102	1	0.98	1	59	1,026	0.001	59.00	0.06	1.000	0.99999
1103	1	1.15	1	69	1,002	0.001	69.00	0.07	1.000	0.99999
1141	3	8.15	3	489	911	0.003	163.00	0.54	1.000	0.99999
1142	4	6.51	22	3,827	218	0.101	173.95	17.56	1.158	0.99959
1211	3	6.84	103	13,940	1,495	0.069	135.34	9.32	1.020	0.99978
1213	6	9.63	32	2,164	564	0.057	67.63	3.84	1.000	0.99991
1230	1	0.73	26	1,137	1,213	0.021	43.73	0.94	1.000	0.99998
1241	2	8.70	9	2,043	880	0.010	227.00	2.32	1.000	0.99995
1242	4	17.91	34	4,264	858	0.040	125.41	4.97	1.030	0.99988
1243	5	13.79	356	50,156	1,234	0.288	140.89	40.65	1.063	0.99906

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1263	5	11.47	100	12,899	1,216	0.082	128.99	10.61	1.000	0.99975
1265	2	4.93	68	15,782	1,308	0.052	232.09	12.07	1.000	0.99972
1271	4	5.64	8	731	977	0.008	91.38	0.75	1.000	0.99998
1273	2	8.32	16	1,299	870	0.018	81.19	1.49	1.000	0.99997
1282	7	53.06	69	14,044	695	0.099	203.54	20.21	1.000	0.99953
1312	1	0.53	7	226	963	0.007	32.29	0.23	1.000	0.99999
1451	4	9.76	58	3,246	545	0.106	55.97	5.96	1.000	0.99986
1452	3	4.53	4	306	456	0.009	76.50	0.67	1.333	0.99998
1453	2	1.90	31	1,997	1,814	0.017	64.42	1.10	1.033	0.99997
1454	2	2.80	50	2,441	942	0.053	48.82	2.59	1.020	0.99994
1521	1	2.15	1	129	382	0.003	129.00	0.34	1.000	0.99999
1523	1	2.20	1	132	751	0.001	132.00	0.18	1.000	0.99999
1843	2	2.07	2	124	1,099	0.002	62.00	0.11	1.000	0.99999
2051	1	1.30	1	78	207	0.005	78.00	0.38	1.000	0.99999
2091	7	21.74	705	146,308	897	0.786	207.53	163.11	1.031	0.99622
2092	3	3.25	64	4,219	945	0.068	65.92	4.46	1.000	0.99990
2171	1	1.53	1	92	582	0.002	92.00	0.16	1.000	0.99999
2172	1	1.15	9	624	242	0.037	69.33	2.58	1.000	0.99994
2211	3	3.98	17	715	736	0.023	42.06	0.97	1.000	0.99998
2212	1	1.00	1	60	1,337	0.001	60.00	0.04	1.000	0.99999
2621	5	26.88	75	31,435	1,196	0.063	419.13	26.28	1.389	0.99939
2951	5	8.85	536	75,598	1,234	0.434	141.04	61.26	1.081	0.99858

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3081	1	7.02	3	1,264	585	0.005	421.33	2.16	1.000	0.99995
3082	1	1.63	29	2,861	327	0.089	98.66	8.75	1.000	0.99980
3121	2	4.75	29	2,730	1,146	0.025	94.14	2.38	1.000	0.99994
3122	2	1.83	73	5,689	873	0.084	77.93	6.52	1.000	0.99985
3123	1	1.10	1	66	1,106	0.001	66.00	0.06	1.000	0.99999
3181	1	2.53	32	4,885	754	0.042	152.66	6.48	1.000	0.99985
3221	5	12.64	66	5,446	1,268	0.052	82.52	4.29	1.065	0.99990
3222	3	5.84	3	350	791	0.004	116.67	0.44	1.000	0.99999
3231	4	3.81	25	2,264	211	0.118	90.56	10.73	1.136	0.99975
3301	4	7.07	767	100,007	766	1.001	130.39	130.56	1.001	0.99698
3302	5	28.92	262	139,730	970	0.270	533.32	144.05	1.101	0.99667
3303	10	63.96	1,846	247,265	1,789	1.032	133.95	138.21	1.032	0.99680
3304	5	13.33	191	51,942	1,112	0.172	271.95	46.71	1.005	0.99892
3313	2	2.66	2	160	1,405	0.001	80.00	0.11	1.000	0.99999
3314	1	1.98	1	119	226	0.004	119.00	0.53	1.000	0.99999
3315	2	1.55	2	93	1,597	0.001	46.50	0.06	1.000	0.99999
3421	1	1.53	1	92	299	0.003	92.00	0.31	1.000	0.99999
3422	4	9.72	18	3,901	989	0.018	216.72	3.94	1.000	0.99991
3471	2	1.87	2	112	485	0.004	56.00	0.23	1.000	0.99999
3472	1	0.80	1	48	1,305	0.001	48.00	0.04	1.000	0.99999
3551	5	19.42	28	1,894	1,042	0.027	67.64	1.82	1.000	0.99996
3552	3	11.96	3	718	579	0.005	239.33	1.24	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
3553	6	21.98	96	16,090	877	0.109	167.60	18.35	1.103	0.99958
3591	3	4.56	25	1,533	1,419	0.018	61.32	1.08	1.000	0.99997
3592	4	12.50	22	8,217	1,741	0.013	373.50	4.72	1.000	0.99989
3621	2	1.82	78	3,935	1,578	0.049	50.45	2.49	1.000	0.99994
3661	7	8.92	72	5,115	1,061	0.068	71.04	4.82	1.043	0.99989
3662	3	6.83	49	5,500	845	0.058	112.24	6.51	1.000	0.99985
3663	1	0.73	2	89	307	0.007	44.50	0.29	1.000	0.99999
3664	2	2.58	2	155	575	0.003	77.50	0.27	1.000	0.99999
3672	1	1.42	1	85	137	0.007	85.00	0.62	1.000	0.99999
3693	2	1.17	22	624	181	0.122	28.36	3.45	1.000	0.99992
3694	1	1.67	1	100	522	0.002	100.00	0.19	1.000	0.99999
3702	2	2.68	23	2,500	656	0.035	108.70	3.81	1.000	0.99991
3751	2	6.43	69	13,478	913	0.076	195.33	14.76	1.015	0.99966
3872	3	9.80	6	2,071	1,088	0.006	345.17	1.90	1.000	0.99996
3873	1	1.82	31	3,395	807	0.038	109.52	4.21	1.000	0.99990
3891	1	0.27	1	16	446	0.002	16.00	0.04	1.000	0.99999
3892	2	4.70	2	282	536	0.004	141.00	0.53	1.000	0.99999
3893	4	4.81	37	3,937	1,160	0.032	106.41	3.39	1.088	0.99992
3901	2	1.86	46	3,256	888	0.052	70.78	3.67	1.000	0.99992
3903	1	2.07	1	124	301	0.003	124.00	0.41	1.000	0.99999
3914	1	0.75	11	495	392	0.028	45.00	1.26	1.000	0.99997
3951	6	6.98	8	559	943	0.008	69.88	0.59	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
3952	4	4.77	12	624	1,347	0.009	52.00	0.46	1.000	0.99999
3953	1	0.93	1	56	535	0.002	56.00	0.10	1.000	0.99999
3981	3	4.83	48	5,250	1,539	0.031	109.38	3.41	1.000	0.99992
3991	3	4.38	12	1,257	752	0.016	104.75	1.67	1.000	0.99996
3992	2	4.40	23	1,402	172	0.134	60.96	8.15	1.000	0.99981
4031	2	3.88	8	900	713	0.011	112.50	1.26	1.143	0.99997
4091	3	1.92	78	3,185	1,178	0.066	40.83	2.70	1.013	0.99994
4101	3	2.72	64	4,249	971	0.066	66.39	4.38	1.016	0.99990
4131	1	0.75	1	45	205	0.005	45.00	0.22	1.000	0.99999
4132	3	2.07	3	124	567	0.005	41.33	0.22	1.000	0.99999
4134	3	1.97	2,508	140,321	1,262	1.987	55.95	111.19	2.000	0.99743
4137	10	3.10	208	4,597	801	0.260	22.10	5.74	1.189	0.99987
4141	2	2.35	2	141	83	0.024	70.50	1.70	1.000	0.99996
4152	2	9.77	36	16,022	1,286	0.028	445.06	12.46	1.029	0.99971
4153	1	6.78	4	1,628	1,014	0.004	407.00	1.61	1.000	0.99996
4155	2	6.80	79	17,924	1,648	0.048	226.89	10.88	1.000	0.99975
4171	3	3.43	48	2,771	1,174	0.041	57.73	2.36	1.021	0.99995
4172	2	3.15	15	2,284	1,793	0.008	152.27	1.27	1.071	0.99997
4173	1	9.35	1	561	685	0.001	561.00	0.82	1.000	0.99998
4181	2	2.87	11	991	777	0.014	90.09	1.28	1.000	0.99997
4182	2	2.55	49	3,694	773	0.063	75.39	4.78	1.000	0.99989
4211	2	5.64	16	3,238	62	0.258	202.38	52.23	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
4223	5	12.56	61	9,771	1,087	0.056	160.18	8.99	1.017	0.99979
4224	1	2.02	19	2,307	765	0.025	121.42	3.02	1.000	0.99993
4301	1	0.73	30	1,340	110	0.273	44.67	12.18	1.000	0.99972
4303	1	0.45	20	544	1,220	0.016	27.20	0.45	1.000	0.99999
4311	1	0.77	31	1,443	875	0.035	46.55	1.65	1.000	0.99996
4312	1	0.92	14	778	884	0.016	55.57	0.88	1.000	0.99998
4324	1	1.40	22	1,852	653	0.034	84.18	2.84	1.000	0.99993
4331	1	0.20	1	12	327	0.003	12.00	0.04	1.000	0.99999
4341	16	32.96	167	18,165	1,810	0.092	108.77	10.04	1.144	0.99977
4343	10	62.62	286	88,000	1,672	0.171	307.69	52.63	1.409	0.99878
4361	13	24.58	4,057	363,778	1,751	2.328	89.78	209.00	2.328	0.99516
4362	3	2.35	899	17,349	834	1.078	19.30	20.80	1.078	0.99952
4363	6	4.96	3,248	110,195	1,505	2.158	33.93	73.22	2.160	0.99831
4371	4	23.27	85	25,209	1,550	0.055	296.58	16.26	1.024	0.99962
4372	1	1.48	1	89	430	0.002	89.00	0.21	1.000	0.99999
4373	5	24.13	201	19,213	763	0.263	95.59	25.18	1.092	0.99942
4431	5	6.10	316	24,841	1,404	0.225	78.61	17.69	1.064	0.99959
4511	1	0.78	38	1,789	1,127	0.034	47.08	1.59	1.000	0.99996
4602	2	3.19	67	4,168	965	0.069	62.21	4.32	1.015	0.99990
4712	1	3.62	1	217	125	0.008	217.00	1.74	1.000	0.99996
4714	2	3.31	2	199	340	0.006	99.50	0.59	1.000	0.99999
4791	2	2.94	44	3,882	624	0.071	88.23	6.22	1.100	0.99986

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
5601	6	6.78	106	7,210	1,407	0.075	68.02	5.12	1.000	0.99988
5602	1	1.00	712	43,408	712	1.000	60.97	60.97	1.000	0.99859
5603	3	6.00	232	24,092	1,295	0.179	103.84	18.60	1.000	0.99957
5901	1	0.93	9	505	811	0.011	56.11	0.62	1.000	0.99999
5902	6	17.41	152	36,141	965	0.158	237.77	37.45	1.000	0.99913
5904	4	3.16	128	6,346	1,277	0.100	49.58	4.97	1.000	0.99988
5905	1	0.37	15	335	1,933	0.008	22.33	0.17	1.000	0.99999
6021	1	0.77	10	463	1,348	0.007	46.30	0.34	1.000	0.99999
6023	1	3.03	1	182	129	0.008	182.00	1.41	1.000	0.99997
6024	1	0.72	35	1,506	395	0.089	43.03	3.81	1.000	0.99991
6141	5	32.78	643	245,046	643	1.000	381.10	381.10	2.624	0.99118
6142	2	11.08	11	2,853	327	0.034	259.36	8.72	1.000	0.99980
6143	5	13.49	404	16,646	376	1.074	41.20	44.27	1.074	0.99898
6144	2	10.13	9	3,881	327	0.028	431.22	11.87	1.000	0.99973
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	433	1,026.71	22,188	2,366,900	171,213	0.130	106.67	13.82	1.439	0.99968

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 7/1/2020 to 7/31/2020
 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	6.39	119	7,049	1,756	0.068	59.24	4.01	1.000	0.99991
1051	1	1.13	1	68	773	0.001	68.00	0.09	1.000	0.99999
1081	2	2.30	40	2,932	287	0.139	73.30	10.22	1.000	0.99977
1082	2	6.37	18	4,513	1,378	0.013	250.72	3.28	1.000	0.99993
1084	1	1.12	5	337	5	1.000	67.40	67.40	1.000	0.99849
1093	1	1.83	62	6,876	238	0.261	110.90	28.89	1.000	0.99935
1094	5	4.28	52	2,613	1,243	0.042	50.25	2.10	1.000	0.99995
1102	2	3.99	35	3,855	1,026	0.034	110.14	3.76	1.000	0.99992
1103	2	6.85	9	1,951	1,002	0.009	216.78	1.95	1.000	0.99996
1141	1	0.62	1	37	911	0.001	37.00	0.04	1.000	0.99999
1142	4	3.85	10	561	218	0.046	56.10	2.57	1.000	0.99994
1211	3	5.65	3	339	1,496	0.002	113.00	0.23	1.000	0.99999
1213	2	1.82	9	596	564	0.016	66.22	1.06	1.125	0.99998
1233	1	1.08	110	7,151	647	0.170	65.01	11.05	1.000	0.99975
1241	2	3.10	14	1,544	880	0.016	110.29	1.75	1.077	0.99996
1242	1	1.43	21	1,817	857	0.025	86.52	2.12	1.000	0.99995
1261	1	3.02	1	181	403	0.002	181.00	0.45	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	1.78	34	3,644	1,216	0.028	107.18	3.00	1.000	0.99993
1265	4	11.46	61	14,411	1,308	0.047	236.25	11.02	1.034	0.99975
1271	6	15.02	290	45,369	978	0.297	156.44	46.39	1.098	0.99896
1273	1	1.47	1	88	870	0.001	88.00	0.10	1.000	0.99999
1282	3	5.65	80	11,668	695	0.115	145.85	16.79	1.000	0.99962
1283	1	3.18	229	43,686	349	0.656	190.77	125.17	1.000	0.99720
1284	1	3.18	1	191	966	0.001	191.00	0.20	1.000	0.99999
1285	5	60.95	1,171	350,673	1,120	1.046	299.46	313.10	1.046	0.99299
1452	1	3.92	1	235	456	0.002	235.00	0.52	1.000	0.99999
1453	6	10.97	47	4,948	1,814	0.026	105.28	2.73	1.044	0.99994
1454	2	2.31	943	69,945	942	1.001	74.17	74.25	1.001	0.99834
1521	3	4.03	41	3,869	382	0.107	94.37	10.13	1.025	0.99977
1523	3	5.84	36	2,150	751	0.048	59.72	2.86	1.059	0.99994
1841	1	7.80	1	468	552	0.002	468.00	0.85	1.000	0.99998
2091	2	3.78	2	227	897	0.002	113.50	0.25	1.000	0.99999
2092	1	1.80	1	108	944	0.001	108.00	0.11	1.000	0.99999
2171	5	5.05	35	2,562	582	0.060	73.20	4.40	1.029	0.99990
2212	5	6.05	34	2,831	1,339	0.025	83.26	2.11	1.030	0.99995
2511	2	3.28	27	3,433	621	0.043	127.15	5.53	1.000	0.99988
2621	6	14.11	1,276	133,113	1,196	1.067	104.32	111.30	1.196	0.99751
2921	1	5.82	1	349	388	0.003	349.00	0.90	1.000	0.99998
2961	2	9.37	42	13,117	651	0.065	312.31	20.15	1.000	0.99955

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3082	1	1.80	1	108	327	0.003	108.00	0.33	1.000	0.99999
3121	5	5.30	72	4,991	1,146	0.063	69.32	4.36	1.000	0.99990
3122	2	2.24	7	304	873	0.008	43.43	0.35	1.000	0.99999
3123	1	2.33	1	140	1,106	0.001	140.00	0.13	1.000	0.99999
3221	1	3.03	1,267	231,417	1,268	0.999	182.65	182.51	1.000	0.99591
3222	1	3.87	1	232	791	0.001	232.00	0.29	1.000	0.99999
3231	1	1.00	1	60	210	0.005	60.00	0.29	1.000	0.99999
3301	1	0.47	1	28	766	0.001	28.00	0.04	1.000	0.99999
3302	1	1.90	1	114	970	0.001	114.00	0.12	1.000	0.99999
3303	1	0.42	1	25	1,789	0.001	25.00	0.01	1.000	0.99999
3304	1	0.88	1	53	1,112	0.001	53.00	0.05	1.000	0.99999
3314	3	1.87	27	1,683	226	0.119	62.33	7.45	1.000	0.99983
3315	1	0.73	24	1,069	1,597	0.015	44.54	0.67	1.000	0.99999
3421	3	4.35	301	15,598	299	1.007	51.82	52.17	1.007	0.99883
3422	3	2.59	8	586	989	0.008	73.25	0.59	1.000	0.99999
3423	2	1.15	25	1,206	396	0.063	48.24	3.05	1.042	0.99993
3471	1	3.10	1	186	486	0.002	186.00	0.38	1.000	0.99999
3472	5	6.10	61	5,790	1,305	0.047	94.92	4.44	1.052	0.99990
3551	1	2.12	9	1,151	1,042	0.009	127.89	1.10	1.000	0.99998
3552	1	1.00	106	6,448	579	0.183	60.83	11.14	1.000	0.99975
3553	1	2.70	1	162	877	0.001	162.00	0.18	1.000	0.99999
3591	1	5.07	1	304	1,426	0.001	304.00	0.21	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
3593	1	1.05	42	2,671	943	0.045	63.60	2.83	1.000	0.99994
3594	3	7.80	798	68,642	774	1.031	86.02	88.68	1.031	0.99801
3661	6	7.15	240	17,536	1,062	0.226	73.07	16.51	1.013	0.99963
3662	1	1.37	1	82	856	0.001	82.00	0.10	1.000	0.99999
3664	2	2.65	2	159	575	0.003	79.50	0.28	2.000	0.99999
3673	1	0.43	1	26	273	0.004	26.00	0.10	1.000	0.99999
3692	1	1.10	1	66	415	0.002	66.00	0.16	1.000	0.99999
3751	2	3.80	36	5,861	913	0.039	162.81	6.42	1.029	0.99986
3873	2	8.03	143	14,535	807	0.177	101.64	18.01	1.007	0.99960
3878	1	0.60	24	880	817	0.029	36.67	1.08	1.000	0.99998
3891	2	3.16	2	190	446	0.004	95.00	0.43	1.000	0.99999
3892	1	1.42	1	85	536	0.002	85.00	0.16	1.000	0.99999
3893	3	6.72	38	4,042	1,160	0.033	106.37	3.48	1.027	0.99992
3901	3	3.69	9	865	888	0.010	96.11	0.97	1.125	0.99998
3912	6	11.99	368	36,123	1,278	0.288	98.16	28.27	1.086	0.99937
3913	1	0.75	1	45	822	0.001	45.00	0.05	1.000	0.99999
3914	1	3.35	1	201	392	0.003	201.00	0.51	1.000	0.99999
3951	5	5.40	48	4,265	944	0.051	88.85	4.52	1.000	0.99990
3952	3	3.63	20	812	1,347	0.015	40.60	0.60	1.000	0.99999
3971	3	2.46	688	24,956	686	1.003	36.27	36.38	1.003	0.99919
3981	4	7.22	4	433	1,540	0.003	108.25	0.28	1.333	0.99999
3991	4	7.34	50	5,148	752	0.066	102.96	6.85	1.042	0.99985

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3992	1	1.12	1	67	172	0.006	67.00	0.39	1.000	0.99999
4031	2	3.33	12	714	713	0.017	59.50	1.00	1.000	0.99998
4091	1	0.72	6	262	1,178	0.005	43.67	0.22	1.000	0.99999
4101	5	15.43	21	4,308	972	0.022	205.14	4.43	1.050	0.99990
4132	1	2.15	1	129	567	0.002	129.00	0.23	1.000	0.99999
4134	6	6.83	6	409	1,262	0.005	68.17	0.32	1.000	0.99999
4141	1	0.88	1	53	83	0.012	53.00	0.64	1.000	0.99999
4142	3	3.37	43	3,111	614	0.070	72.35	5.07	1.024	0.99989
4152	3	7.10	51	6,147	1,286	0.040	120.53	4.78	1.000	0.99989
4153	2	2.65	59	3,020	1,014	0.058	51.19	2.98	1.035	0.99993
4154	1	2.43	1	146	1,341	0.001	146.00	0.11	1.000	0.99999
4171	5	5.32	338	27,512	1,178	0.287	81.40	23.35	1.076	0.99948
4172	3	11.26	41	13,156	1,798	0.023	320.88	7.32	1.000	0.99984
4182	3	5.45	3	327	773	0.004	109.00	0.42	1.000	0.99999
4211	1	1.25	1	75	62	0.016	75.00	1.21	1.000	0.99997
4222	3	13.08	165	11,798	1,064	0.155	71.50	11.09	1.006	0.99975
4223	2	2.00	27	614	1,094	0.025	22.74	0.56	1.000	0.99999
4224	4	14.20	23	4,303	765	0.030	187.09	5.62	1.045	0.99987
4301	1	0.80	6	291	110	0.055	48.50	2.65	1.000	0.99994
4303	1	1.93	1	116	1,223	0.001	116.00	0.09	1.000	0.99999
4331	2	1.53	3	179	327	0.009	59.67	0.55	1.000	0.99999
4332	1	0.95	1	57	330	0.003	57.00	0.17	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	2	4.30	92	9,577	1,810	0.051	104.10	5.29	1.000	0.99988
4342	1	0.37	1	22	516	0.002	22.00	0.04	1.000	0.99999
4343	3	2.14	32	1,802	1,672	0.019	56.31	1.08	1.032	0.99998
4361	5	5.27	50	2,317	1,309	0.038	46.34	1.77	1.042	0.99996
4362	4	6.25	27	2,145	834	0.032	79.44	2.57	1.000	0.99994
4363	5	10.60	404	42,258	1,505	0.268	104.60	28.08	1.028	0.99937
4372	5	4.40	5	264	424	0.012	52.80	0.62	2.500	0.99999
4373	3	7.92	3	475	763	0.004	158.33	0.62	1.000	0.99999
4385	3	7.60	76	10,806	1,152	0.066	142.18	9.38	1.854	0.99979
4512	1	0.92	1	55	1,082	0.001	55.00	0.05	1.000	0.99999
4601	1	2.47	400	59,566	400	1.000	148.92	148.92	1.000	0.99666
4602	1	2.50	965	145,409	965	1.000	150.68	150.68	1.000	0.99662
4692	4	6.36	489	56,156	486	1.006	114.84	115.55	1.006	0.99741
4693	1	1.85	164	18,204	164	1.000	111.00	111.00	1.000	0.99751
4714	2	1.70	11	566	340	0.032	51.45	1.66	1.000	0.99996
4791	1	0.83	1	50	624	0.002	50.00	0.08	1.000	0.99999
5601	12	19.04	51	3,635	1,407	0.036	71.27	2.58	1.000	0.99994
5602	2	9.73	713	216,574	712	1.001	303.75	304.18	1.001	0.99319
5603	2	13.84	59	24,269	1,295	0.046	411.34	18.74	1.000	0.99958
5901	1	2.37	9	1,190	811	0.011	132.22	1.47	1.000	0.99997
5902	2	9.14	15	4,377	965	0.016	291.80	4.54	1.000	0.99990
5904	1	0.87	1	52	1,278	0.001	52.00	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
5905	4	8.97	63	8,252	1,933	0.033	130.98	4.27	1.068	0.99990
6021	1	0.97	3	176	1,350	0.002	58.67	0.13	1.000	0.99999
6024	2	3.15	179	14,938	396	0.452	83.45	37.72	1.041	0.99915
6141	1	4.78	173	49,650	643	0.269	286.99	77.22	1.000	0.99827
6142	3	7.20	16	2,032	326	0.049	127.00	6.23	1.000	0.99986
6144	2	1.03	2	62	327	0.006	31.00	0.19	1.000	0.99999
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	318	637.12	14,116	1,960,456	171,305	0.082	138.88	11.44	1.054	0.99974

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
8/1/2020 to 8/31/2020
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
1051	2	3.30	12	1,216	774	0.016	101.33	1.57	1.000	0.99996
1052	1	0.40	1	24	1,172	0.001	24.00	0.02	1.000	0.99999
1081	1	2.48	76	11,327	287	0.265	149.04	39.47	1.000	0.99912
1082	7	9.98	37	4,445	1,378	0.027	120.14	3.23	1.000	0.99993
1091	6	12.60	75	4,789	705	0.106	63.85	6.79	1.014	0.99985
1092	2	2.85	956	105,559	940	1.017	110.42	112.30	1.031	0.99748
1101	2	1.25	28	1,058	166	0.169	37.79	6.37	1.000	0.99986
1102	1	0.83	15	725	1,026	0.015	48.33	0.71	1.000	0.99998
1103	1	0.82	1	49	1,002	0.001	49.00	0.05	1.000	0.99999
1142	1	5.52	1	331	218	0.005	331.00	1.52	1.000	0.99997
1211	1	0.77	15	703	1,496	0.010	46.87	0.47	1.000	0.99999
1212	2	2.41	2	145	340	0.006	72.50	0.43	1.000	0.99999
1213	1	0.42	564	14,147	564	1.000	25.08	25.08	1.000	0.99944
1233	3	3.03	3	182	647	0.005	60.67	0.28	1.000	0.99999
1242	5	6.47	62	5,101	856	0.072	82.27	5.96	1.000	0.99987
1263	1	2.75	1	165	1,217	0.001	165.00	0.14	1.000	0.99999
1265	1	1.73	1	104	1,308	0.001	104.00	0.08	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
1271	27	10.49	445	11,138	978	0.455	25.03	11.39	1.040	0.99974
1282	2	2.51	12	1,006	695	0.017	83.83	1.45	1.000	0.99997
1285	1	0.78	1	47	1,121	0.001	47.00	0.04	1.000	0.99999
1312	2	2.50	5	290	964	0.005	58.00	0.30	1.000	0.99999
1451	2	2.33	30	2,343	545	0.055	78.10	4.30	1.034	0.99990
1453	4	5.82	69	4,344	1,814	0.038	62.96	2.39	1.000	0.99995
1454	2	1.50	50	2,238	942	0.053	44.76	2.38	1.020	0.99995
1455	1	1.32	25	1,978	412	0.061	79.12	4.80	1.000	0.99989
1521	1	0.67	25	1,008	382	0.065	40.32	2.64	1.000	0.99994
1522	1	1.22	1	73	105	0.010	73.00	0.70	1.000	0.99998
1523	1	0.90	1	54	751	0.001	54.00	0.07	1.000	0.99999
1843	2	3.53	6	657	1,099	0.005	109.50	0.60	1.000	0.99999
2091	1	0.97	1	58	897	0.001	58.00	0.06	1.000	0.99999
2092	1	5.12	1	307	944	0.001	307.00	0.33	1.000	0.99999
2171	2	2.73	66	5,427	582	0.113	82.23	9.32	1.000	0.99979
2212	5	7.29	27	2,924	1,341	0.020	108.30	2.18	1.038	0.99995
2511	3	10.31	623	82,800	621	1.003	132.91	133.33	1.003	0.99701
2621	1	1.48	1	89	1,196	0.001	89.00	0.07	1.000	0.99999
2951	1	0.87	12	627	1,234	0.010	52.25	0.51	1.000	0.99999
2961	1	1.50	70	6,336	651	0.108	90.51	9.73	1.000	0.99978
3081	1	4.40	1	264	585	0.002	264.00	0.45	1.000	0.99999
3082	1	1.08	1	65	327	0.003	65.00	0.20	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
3123	2	2.71	8	481	1,106	0.007	60.13	0.43	1.000	0.99999
3221	1	1.42	47	4,002	1,268	0.037	85.15	3.16	1.000	0.99993
3231	1	1.18	14	999	210	0.067	71.36	4.76	1.000	0.99989
3301	1	0.92	1	55	766	0.001	55.00	0.07	1.000	0.99999
3303	1	1.55	68	6,324	1,789	0.038	93.00	3.53	1.000	0.99992
3314	2	1.55	31	1,260	226	0.137	40.65	5.58	1.000	0.99988
3315	1	1.02	14	855	1,597	0.009	61.07	0.54	1.000	0.99999
3422	2	2.53	2	152	989	0.002	76.00	0.15	1.000	0.99999
3471	1	1.10	1	66	486	0.002	66.00	0.14	1.000	0.99999
3472	3	6.77	31	5,822	1,305	0.024	187.81	4.46	1.069	0.99990
3552	2	2.93	9	1,170	579	0.016	130.00	2.02	1.125	0.99995
3553	1	1.57	64	6,050	877	0.073	94.53	6.90	1.000	0.99985
3591	3	11.14	9	1,104	1,434	0.006	122.67	0.77	1.000	0.99998
3592	2	3.17	53	5,107	1,742	0.030	96.36	2.93	1.000	0.99993
3594	2	10.50	24	5,642	774	0.031	235.08	7.29	1.000	0.99984
3621	3	8.92	244	78,392	1,579	0.155	321.28	49.65	1.034	0.99889
3661	3	3.02	14	860	1,064	0.013	61.43	0.81	1.167	0.99998
3662	2	1.98	2	119	867	0.002	59.50	0.14	1.000	0.99999
3663	1	1.23	1	74	308	0.003	74.00	0.24	1.000	0.99999
3664	3	8.89	10	1,031	575	0.017	103.10	1.79	1.000	0.99996
3691	1	0.48	1	29	373	0.003	29.00	0.08	1.000	0.99999
3701	1	2.85	1	171	526	0.002	171.00	0.33	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	2	4.10	914	98,332	913	1.001	107.58	107.70	1.001	0.99759
3871	1	1.27	21	1,615	1,378	0.015	76.90	1.17	1.000	0.99997
3873	6	7.96	134	13,611	807	0.166	101.57	16.87	1.031	0.99962
3893	1	2.47	1	148	1,160	0.001	148.00	0.13	1.000	0.99999
3901	3	2.02	109	5,841	888	0.123	53.59	6.58	1.079	0.99985
3912	3	2.21	28	1,686	1,278	0.022	60.21	1.32	1.077	0.99997
3913	3	8.55	14	4,606	822	0.017	329.00	5.60	1.000	0.99987
3914	1	1.27	2	153	392	0.005	76.50	0.39	1.000	0.99999
3952	1	28.48	11	18,801	1,347	0.008	1709.18	13.96	1.000	0.99969
3953	1	3.33	1	200	537	0.002	200.00	0.37	1.000	0.99999
3981	4	11.83	15	2,872	1,541	0.010	191.47	1.86	1.000	0.99996
3991	1	0.53	1	32	752	0.001	32.00	0.04	1.000	0.99999
4031	3	7.64	713	37,943	713	1.000	53.22	53.22	1.055	0.99881
4091	2	8.54	80	6,943	1,178	0.068	86.79	5.89	1.013	0.99987
4092	1	5.53	1	332	450	0.002	332.00	0.74	1.000	0.99998
4101	3	9.82	83	19,456	972	0.085	234.41	20.02	1.012	0.99955
4102	2	4.01	9	697	542	0.017	77.44	1.29	1.125	0.99997
4137	7	5.71	865	22,041	801	1.080	25.48	27.52	1.080	0.99938
4142	1	1.25	6	451	613	0.010	75.17	0.74	1.000	0.99998
4153	1	0.92	1	55	1,014	0.001	55.00	0.05	1.000	0.99999
4171	2	1.62	13	568	1,181	0.011	43.69	0.48	1.083	0.99999
4172	1	0.82	1	49	1,804	0.001	49.00	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
4182	1	3.27	1	196	773	0.001	196.00	0.25	1.000	0.99999
4211	2	2.52	6	495	62	0.097	82.50	7.98	1.000	0.99982
4222	5	5.58	13	898	1,064	0.012	69.08	0.84	1.083	0.99998
4224	3	4.00	95	7,097	765	0.124	74.71	9.28	1.033	0.99979
4302	1	0.75	1	45	660	0.002	45.00	0.07	1.000	0.99999
4303	2	3.34	58	8,674	1,226	0.047	149.55	7.08	1.000	0.99984
4313	1	1.15	1	69	549	0.002	69.00	0.13	1.000	0.99999
4341	4	5.86	76	6,915	1,810	0.042	90.99	3.82	1.027	0.99991
4343	2	1.70	107	7,597	1,672	0.064	71.00	4.54	1.000	0.99990
4363	2	2.72	5	499	1,505	0.003	99.80	0.33	1.000	0.99999
4372	1	1.87	1	112	419	0.002	112.00	0.27	1.000	0.99999
4373	4	7.35	570	77,889	763	0.747	136.65	102.08	1.004	0.99771
4431	1	1.22	1	73	1,404	0.001	73.00	0.05	1.000	0.99999
457	1	6.10	1	366	179	0.006	366.00	2.04	1.000	0.99995
4601	1	1.63	29	2,866	400	0.073	98.83	7.17	1.000	0.99984
4602	2	6.35	2	381	965	0.002	190.50	0.39	1.000	0.99999
4692	7	14.39	54	4,458	486	0.111	82.56	9.17	1.038	0.99979
4714	3	4.93	3	296	340	0.009	98.67	0.87	1.500	0.99998
4791	4	5.54	4	333	624	0.006	83.25	0.53	1.000	0.99999
4794	1	0.72	24	1,054	398	0.060	43.92	2.65	1.000	0.99994
5601	3	7.87	16	1,795	1,407	0.011	112.19	1.28	1.000	0.99997
5602	3	3.15	3	189	711	0.004	63.00	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
5603	3	7.77	1,296	176,702	1,295	1.001	136.34	136.45	1.118	0.99694
5641	1	0.93	1	56	341	0.003	56.00	0.16	1.000	0.99999
5901	3	2.20	3	132	811	0.004	44.00	0.16	1.000	0.99999
5904	1	0.67	20	814	1,278	0.016	40.70	0.64	1.000	0.99999
5905	1	1.47	1	88	1,933	0.001	88.00	0.05	1.000	0.99999
6021	1	2.20	6	796	1,353	0.004	132.67	0.59	1.000	0.99999
6022	1	1.20	1	72	538	0.002	72.00	0.13	1.000	0.99999
6141	7	22.36	659	141,098	643	1.025	214.11	219.44	1.025	0.99508
6142	3	20.27	135	74,148	326	0.414	549.24	227.45	1.007	0.99490
6143	1	3.27	375	73,862	375	1.000	196.97	196.97	1.000	0.99559
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	266	478.59	10,563	1,220,405	171,395	0.062	115.54	7.12	1.069	0.99984

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 9/1/2020 to 9/30/2020
 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	5	7.74	77	8,010	1,756	0.044	104.03	4.56	1.000	0.99989
1052	1	0.93	1	56	1,172	0.001	56.00	0.05	1.000	0.99999
1081	1	0.85	1	51	287	0.003	51.00	0.18	1.000	0.99999
1082	7	11.74	22	2,088	1,378	0.016	94.91	1.52	1.100	0.99996
1091	3	4.62	51	2,468	708	0.072	48.39	3.49	1.020	0.99992
1094	1	0.67	2	81	1,244	0.002	40.50	0.07	1.000	0.99999
1101	1	3.83	8	1,842	166	0.048	230.25	11.10	1.000	0.99974
1102	1	0.63	30	1,150	1,028	0.029	38.33	1.12	1.000	0.99997
1103	2	2.33	26	1,968	1,002	0.026	75.69	1.96	1.040	0.99995
1141	1	2.13	44	5,667	911	0.048	128.80	6.22	1.000	0.99986
1142	2	1.94	2	116	218	0.009	58.00	0.53	1.000	0.99999
1211	2	1.85	12	686	1,496	0.008	57.17	0.46	1.000	0.99999
1230	1	3.40	44	9,010	1,214	0.036	204.77	7.42	1.000	0.99983
1233	1	0.82	52	2,548	647	0.080	49.00	3.94	1.000	0.99991
1241	1	1.57	104	9,810	880	0.118	94.33	11.15	1.000	0.99974
1242	1	0.40	14	349	856	0.016	24.93	0.41	1.000	0.99999
1262	1	4.45	9	2,403	167	0.054	267.00	14.39	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
1271	7	7.10	66	4,549	978	0.067	68.92	4.65	1.000	0.99989
1273	1	0.90	1	54	870	0.001	54.00	0.06	1.000	0.99999
1281	1	0.80	1	48	169	0.006	48.00	0.28	1.000	0.99999
1283	1	0.93	1	56	349	0.003	56.00	0.16	1.000	0.99999
1312	1	1.20	1	72	963	0.001	72.00	0.07	1.000	0.99999
1452	3	2.36	36	1,501	458	0.079	41.69	3.28	1.029	0.99992
1453	1	0.45	11	299	1,814	0.006	27.18	0.16	1.000	0.99999
1521	2	1.92	26	1,672	382	0.068	64.31	4.38	1.000	0.99990
1523	3	3.54	806	77,665	752	1.072	96.36	103.28	1.073	0.99761
1841	1	0.53	1	32	552	0.002	32.00	0.06	1.000	0.99999
2211	1	1.17	31	2,178	736	0.042	70.26	2.96	1.000	0.99993
2212	7	6.85	192	10,105	1,341	0.143	52.63	7.54	1.085	0.99983
2921	2	2.51	4	312	388	0.010	78.00	0.80	1.000	0.99998
2951	3	3.47	29	2,377	1,234	0.024	81.97	1.93	1.036	0.99996
2952	1	5.53	41	13,644	371	0.111	332.78	36.78	1.000	0.99915
2961	3	14.95	80	36,649	651	0.123	458.11	56.30	1.000	0.99870
3121	4	4.15	141	10,083	1,146	0.123	71.51	8.80	1.029	0.99980
3122	1	1.55	18	1,677	873	0.021	93.17	1.92	1.000	0.99996
3221	2	4.19	12	1,614	1,268	0.009	134.50	1.27	1.000	0.99997
3222	1	0.80	1	48	791	0.001	48.00	0.06	1.000	0.99999
3232	1	4.05	4	974	441	0.009	243.50	2.21	1.000	0.99995
3303	2	4.02	9	1,114	1,788	0.005	123.78	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
3304	2	2.07	39	2,713	1,112	0.035	69.56	2.44	1.054	0.99994
3314	1	0.87	2	105	226	0.009	52.50	0.46	1.000	0.99999
3315	3	3.57	16	672	1,598	0.010	42.00	0.42	1.067	0.99999
3422	6	7.99	61	5,429	990	0.062	89.00	5.48	1.173	0.99987
3471	1	4.43	1	266	486	0.002	266.00	0.55	1.000	0.99999
3552	1	0.93	1	56	580	0.002	56.00	0.10	1.000	0.99999
3591	2	2.27	42	2,915	1,432	0.029	69.40	2.04	1.000	0.99995
3592	1	0.78	1	47	1,742	0.001	47.00	0.03	1.000	0.99999
3593	2	2.36	187	15,362	943	0.198	82.15	16.29	1.000	0.99962
3594	1	1.18	11	789	776	0.014	71.73	1.02	1.000	0.99998
3621	1	0.97	7	409	1,579	0.004	58.43	0.26	1.000	0.99999
3661	1	0.63	1	38	1,064	0.001	38.00	0.04	1.000	0.99999
3664	2	2.53	2	152	576	0.003	76.00	0.26	1.000	0.99999
3675	1	1.85	1	111	420	0.002	111.00	0.26	1.000	0.99999
3694	1	1.20	1	72	522	0.002	72.00	0.14	1.000	0.99999
3702	1	0.92	1	55	656	0.002	55.00	0.08	1.000	0.99999
3871	1	1.35	1	81	1,378	0.001	81.00	0.06	1.000	0.99999
3872	4	9.76	51	3,327	1,088	0.047	65.24	3.06	1.000	0.99993
3892	2	12.00	538	276,822	536	1.004	514.54	516.46	1.004	0.98804
3893	5	11.31	33	5,215	1,160	0.028	158.03	4.50	1.065	0.99990
3901	1	1.15	1	69	888	0.001	69.00	0.08	1.000	0.99999
3912	3	1.88	3	113	1,289	0.002	37.67	0.09	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
3913	1	7.57	23	10,450	822	0.028	454.35	12.71	1.000	0.99971
3914	1	0.52	33	1,038	392	0.084	31.45	2.65	1.000	0.99994
3951	3	5.03	100	10,399	944	0.106	103.99	11.02	1.010	0.99975
3952	5	5.72	57	3,899	1,348	0.042	68.40	2.89	1.018	0.99993
3953	1	4.78	3	862	538	0.006	287.33	1.60	1.000	0.99996
3981	1	0.73	26	1,166	1,542	0.017	44.85	0.76	1.000	0.99998
4031	1	3.07	1	184	713	0.001	184.00	0.26	1.000	0.99999
4102	1	0.32	1	19	540	0.002	19.00	0.04	1.000	0.99999
4133	1	2.53	1	152	278	0.004	152.00	0.55	1.000	0.99999
4134	1	0.98	1	59	1,263	0.001	59.00	0.05	1.000	0.99999
4137	1	1.00	4	241	801	0.005	60.25	0.30	1.000	0.99999
4142	1	3.02	613	111,044	613	1.000	181.15	181.15	1.000	0.99581
4151	1	1.48	10	892	172	0.058	89.20	5.19	1.000	0.99988
4152	1	1.00	16	963	1,286	0.012	60.19	0.75	1.000	0.99998
4153	1	2.07	34	4,234	1,014	0.034	124.53	4.18	1.000	0.99990
4154	1	0.95	17	977	1,341	0.013	57.47	0.73	1.000	0.99998
4171	4	4.94	81	6,422	1,182	0.069	79.28	5.43	1.013	0.99987
4211	3	3.62	3	217	700	0.019	68.98	1.31	1.000	0.99997
4212	3	2.75	7	394	824	0.008	56.29	0.48	1.000	0.99999
4222	3	3.58	1,068	72,771	1,066	1.002	68.14	68.27	1.008	0.99842
4224	1	0.55	61	2,024	765	0.080	33.18	2.65	1.000	0.99994
4303	1	1.78	1	107	1,240	0.001	107.00	0.09	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
4311	2	0.64	214	7,377	881	0.243	34.47	8.37	1.005	0.99981
4332	1	1.22	330	24,095	330	1.000	73.02	73.02	1.000	0.99831
4341	3	3.70	16	863	1,811	0.009	53.94	0.48	1.143	0.99999
4342	1	0.55	1	33	676	0.001	33.00	0.05	1.000	0.99999
4343	2	4.53	79	17,640	1,672	0.047	223.29	10.55	1.013	0.99976
4362	2	4.13	2	248	834	0.002	124.00	0.30	1.000	0.99999
4363	1	0.67	18	731	1,506	0.012	40.61	0.49	1.000	0.99999
4372	1	1.42	1	85	419	0.002	85.00	0.20	1.000	0.99999
4373	1	0.60	1	36	763	0.001	36.00	0.05	1.000	0.99999
4431	3	6.60	3	396	1,404	0.002	132.00	0.28	1.500	0.99999
4432	1	3.17	1	190	475	0.002	190.00	0.40	1.000	0.99999
4475	2	5.82	2	349	14	0.143	174.50	24.93	1.000	0.99942
4602	1	0.82	13	637	965	0.013	49.00	0.66	1.000	0.99998
4712	2	10.23	22	6,770	125	0.176	307.73	54.16	1.100	0.99875
4714	1	0.48	1	29	341	0.003	29.00	0.09	1.000	0.99999
4793	1	1.28	35	2,698	730	0.048	77.09	3.70	1.000	0.99991
4794	1	1.53	66	6,086	398	0.166	92.21	15.29	1.000	0.99965
5601	6	12.98	138	20,174	1,407	0.098	146.19	14.34	1.000	0.99967
5902	1	1.92	1	115	965	0.001	115.00	0.12	1.000	0.99999
5904	1	0.83	36	1,802	1,278	0.028	50.06	1.41	1.000	0.99997
5905	7	8.10	20	1,364	1,934	0.010	68.20	0.71	1.053	0.99998
6021	3	3.32	21	1,100	1,354	0.016	52.38	0.81	1.105	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
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	205	327.40	6,194	851,176	171,483	0.036	137.42	4.96	1.016	0.99989

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 10/1/2020 to 10/31/2020
 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	1.33	45	3,622	1,756	0.026	80.49	2.06	1.000	0.99995
1051	1	0.92	1	55	775	0.001	55.00	0.07	1.000	0.99999
1052	1	0.98	103	6,080	1,173	0.088	59.03	5.18	1.000	0.99988
1082	4	5.11	4	307	1,378	0.003	76.75	0.22	1.333	0.99999
1091	1	2.03	19	2,334	711	0.027	122.84	3.28	1.000	0.99993
1092	4	10.66	4	640	940	0.004	160.00	0.68	1.000	0.99998
1094	3	9.55	44	5,257	1,244	0.035	119.48	4.23	1.000	0.99991
1101	1	0.72	1	43	166	0.006	43.00	0.26	1.000	0.99999
1102	3	2.82	1,155	44,134	1,146	1.008	38.21	38.51	1.008	0.99914
1103	3	4.86	181	16,018	1,002	0.181	88.50	15.99	1.006	0.99964
1211	4	3.68	28	1,473	1,496	0.019	52.61	0.98	1.000	0.99998
1212	1	4.37	75	19,655	340	0.221	262.07	57.81	1.000	0.99870
1232	2	3.37	11	1,263	1,203	0.009	114.82	1.05	1.100	0.99998
1233	1	3.78	1	227	647	0.002	227.00	0.35	1.000	0.99999
1241	1	1.35	10	811	880	0.011	81.10	0.92	1.000	0.99998
1242	1	1.32	1	79	856	0.001	79.00	0.09	1.000	0.99999
1243	2	1.52	211	10,256	1,235	0.171	48.61	8.30	1.029	0.99981

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	1.17	27	1,897	1,217	0.022	70.26	1.56	1.000	0.99997
1271	11	18.75	74	9,899	979	0.076	133.77	10.11	1.028	0.99977
1273	4	4.13	16	781	870	0.018	48.81	0.90	2.286	0.99998
1282	1	0.90	111	6,053	696	0.159	54.53	8.70	1.000	0.99981
1284	3	2.57	147	7,162	966	0.152	48.72	7.41	1.007	0.99983
1311	2	1.04	2	62	281	0.007	31.00	0.22	1.000	0.99999
1312	7	7.06	26	3,742	962	0.027	143.92	3.89	1.000	0.99991
1451	2	2.30	8	556	546	0.015	69.50	1.02	1.000	0.99998
1453	3	3.70	67	4,908	1,815	0.037	73.25	2.70	1.015	0.99994
1454	1	0.87	49	2,590	943	0.052	52.86	2.75	1.000	0.99994
1455	1	1.35	25	2,036	413	0.061	81.44	4.93	1.000	0.99989
1521	3	5.89	174	24,928	382	0.455	143.26	65.26	1.055	0.99854
1523	1	1.60	1	96	752	0.001	96.00	0.13	1.000	0.99999
1843	3	2.71	3	163	1,101	0.003	54.33	0.15	1.000	0.99999
2051	1	1.13	1	68	207	0.005	68.00	0.33	1.000	0.99999
2091	1	1.40	1	84	898	0.001	84.00	0.09	1.000	0.99999
2171	1	1.73	12	1,254	582	0.021	104.50	2.15	1.000	0.99995
2172	1	2.00	1	120	243	0.004	120.00	0.49	1.000	0.99999
2211	2	2.50	2	150	736	0.003	75.00	0.20	1.000	0.99999
2212	2	2.97	1,342	109,634	1,341	1.001	81.69	81.76	1.001	0.99817
2621	3	8.26	24	4,041	1,197	0.020	168.38	3.38	1.000	0.99992
2921	2	1.73	2	104	389	0.005	52.00	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
2951	3	5.07	52	6,213	1,234	0.042	119.48	5.03	1.020	0.99989
2961	2	5.73	25	6,545	651	0.038	261.80	10.05	1.000	0.99977
2962	1	2.38	1	143	262	0.004	143.00	0.55	1.000	0.99999
3081	1	0.77	585	27,221	585	1.000	46.53	46.53	1.000	0.99896
3121	3	3.24	4	264	1,146	0.003	66.00	0.23	1.000	0.99999
3122	1	0.77	167	7,837	873	0.191	46.93	8.98	1.000	0.99980
3181	1	1.43	1	86	755	0.001	86.00	0.11	1.000	0.99999
3221	4	5.76	107	9,010	1,268	0.084	84.21	7.11	1.019	0.99984
3222	1	0.22	1	13	791	0.001	13.00	0.02	1.000	0.99999
3303	5	4.34	72	3,320	1,787	0.040	46.11	1.86	1.059	0.99996
3304	2	2.38	35	2,846	1,112	0.031	81.31	2.56	1.000	0.99994
3315	3	5.98	54	2,036	1,598	0.034	37.70	1.27	1.038	0.99997
3471	3	1.55	3	93	486	0.006	31.00	0.19	1.000	0.99999
3472	12	7.46	31	908	1,305	0.024	29.29	0.70	1.069	0.99998
3551	1	0.65	1	39	1,042	0.001	39.00	0.04	1.000	0.99999
3553	2	3.85	35	3,267	877	0.040	93.34	3.73	1.000	0.99992
3591	3	5.30	17	3,050	1,431	0.012	179.41	2.13	1.063	0.99995
3592	5	5.67	129	9,256	1,742	0.074	71.75	5.31	1.000	0.99988
3593	3	13.42	699	91,821	943	0.741	131.36	97.37	1.087	0.99782
3594	2	2.58	12	637	777	0.015	53.08	0.82	1.000	0.99998
3621	3	11.09	1,581	830,062	1,579	1.001	525.02	525.69	1.001	0.98822
3661	4	8.12	30	8,995	1,065	0.028	299.83	8.45	1.000	0.99981

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3662	5	10.42	36	4,424	873	0.041	122.89	5.07	1.029	0.99989
3663	1	0.72	12	518	308	0.039	43.17	1.68	1.000	0.99996
3675	1	0.75	4	182	420	0.010	45.50	0.43	1.000	0.99999
3691	1	3.63	7	1,526	373	0.019	218.00	4.09	1.000	0.99991
3693	1	0.53	1	32	181	0.006	32.00	0.18	1.000	0.99999
3702	2	2.97	2	178	656	0.003	89.00	0.27	1.000	0.99999
3871	1	1.15	1	69	1,377	0.001	69.00	0.05	1.000	0.99999
3872	2	2.20	2	132	1,088	0.002	66.00	0.12	1.000	0.99999
3873	1	0.15	1	9	807	0.001	9.00	0.01	1.000	0.99999
3878	2	4.98	25	5,892	825	0.030	235.68	7.14	1.000	0.99984
3891	4	9.58	429	28,416	447	0.960	66.24	63.57	1.388	0.99858
3893	1	1.15	2	138	1,161	0.002	69.00	0.12	1.000	0.99999
3894	1	2.02	8	974	158	0.051	121.75	6.16	1.000	0.99986
3901	1	0.55	19	628	887	0.021	33.05	0.71	1.000	0.99998
3903	3	5.26	321	36,233	301	1.066	112.88	120.38	1.066	0.99730
3912	1	0.48	11	317	1,300	0.008	28.82	0.24	1.000	0.99999
3913	2	1.34	2	80	823	0.002	40.00	0.10	1.000	0.99999
3914	5	11.29	65	7,570	393	0.165	116.46	19.26	1.354	0.99957
3951	7	6.45	93	4,402	944	0.099	47.33	4.66	1.033	0.99990
3952	10	14.82	155	23,325	1,349	0.115	150.48	17.29	1.013	0.99961
3971	1	1.15	1	69	687	0.001	69.00	0.10	1.000	0.99999
404	1	2.33	19	2,660	171	0.111	140.00	15.56	1.000	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
4091	2	2.17	158	10,352	1,179	0.134	65.52	8.78	1.013	0.99980
4101	4	6.14	180	14,581	976	0.184	81.01	14.94	1.011	0.99967
4134	1	1.73	1	104	1,263	0.001	104.00	0.08	1.000	0.99999
4138	1	0.40	617	14,869	759	0.813	24.10	19.59	1.000	0.99956
4152	1	4.67	9	2,526	1,286	0.007	280.67	1.96	1.000	0.99996
4153	3	7.44	3	447	1,013	0.003	149.00	0.44	1.000	0.99999
4172	2	3.12	13	1,923	1,809	0.007	147.92	1.06	1.000	0.99998
4181	1	2.33	1	140	777	0.001	140.00	0.18	1.000	0.99999
4182	3	5.11	228	14,424	773	0.295	63.26	18.66	1.081	0.99958
4212	3	7.95	23	4,021	1,075	0.021	174.83	3.74	1.000	0.99992
4222	9	13.85	57	3,307	1,069	0.053	58.02	3.09	1.018	0.99993
4303	1	1.37	1	82	1,253	0.001	82.00	0.07	1.000	0.99999
4312	1	3.35	17	3,427	889	0.019	201.59	3.85	1.000	0.99991
4324	1	0.88	1	53	653	0.002	53.00	0.08	1.000	0.99999
4341	2	1.88	1,821	109,204	1,812	1.005	59.97	60.27	1.005	0.99865
4342	1	1.00	836	50,160	836	1.000	60.00	60.00	1.000	0.99866
4343	2	1.87	1,673	100,372	1,672	1.001	60.00	60.03	1.001	0.99866
4361	17	19.62	410	24,119	1,662	0.247	58.83	14.51	1.096	0.99967
4362	2	2.03	835	49,852	834	1.001	59.70	59.77	1.001	0.99866
4363	18	20.16	1,743	164,907	1,507	1.157	94.61	109.43	1.157	0.99755
4371	5	4.94	51	2,546	1,550	0.033	49.92	1.64	1.020	0.99996
4372	1	1.12	1	67	419	0.002	67.00	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
4373	5	12.24	571	124,041	763	0.748	217.23	162.57	1.005	0.99636
4385	2	1.77	2	106	1,152	0.002	53.00	0.09	2.000	0.99999
4431	1	0.70	1	42	1,404	0.001	42.00	0.03	1.000	0.99999
4511	3	6.01	39	2,035	1,128	0.035	52.18	1.80	1.026	0.99996
455	2	1.35	2	81	168	0.012	40.50	0.48	2.000	0.99999
4601	2	1.45	2	87	400	0.005	43.50	0.22	1.000	0.99999
4692	1	1.02	11	680	486	0.023	61.82	1.40	1.000	0.99997
4712	1	0.98	19	1,138	125	0.152	59.89	9.10	1.000	0.99980
4791	4	4.70	278	25,359	624	0.446	91.22	40.64	1.004	0.99909
4793	1	1.07	1	64	730	0.001	64.00	0.09	1.000	0.99999
5601	10	15.05	242	19,015	1,407	0.172	78.57	13.51	1.000	0.99970
5603	5	7.37	41	2,539	1,296	0.032	61.93	1.96	2.050	0.99996
5641	1	1.17	21	1,488	341	0.062	70.86	4.36	1.000	0.99990
5901	1	1.72	1	103	819	0.001	103.00	0.13	1.000	0.99999
5904	4	4.93	154	15,265	1,279	0.120	99.12	11.94	1.000	0.99973
5905	2	10.73	2	644	1,934	0.001	322.00	0.33	1.000	0.99999
6021	2	1.30	90	3,560	1,355	0.066	39.56	2.63	1.000	0.99994
6023	1	1.15	6	416	129	0.047	69.33	3.22	1.000	0.99993
6024	2	2.20	219	15,262	396	0.553	69.69	38.54	1.000	0.99914
6141	3	3.94	25	1,637	643	0.039	65.48	2.55	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
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	343	509.77	20,663	2,262,474	171,581	0.120	109.49	13.19	1.022	0.99970

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 11/1/2020 to 11/30/2020
 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	1.58	45	4,291	1,756	0.026	95.36	2.44	1.000	0.99994
1051	2	1.58	84	4,037	775	0.108	48.06	5.21	1.012	0.99988
1082	6	25.24	64	14,225	1,378	0.046	222.27	10.32	1.085	0.99976
1084	1	0.67	1	40	5	0.200	40.00	8.00	1.000	0.99981
1091	4	6.10	106	12,797	711	0.149	120.73	18.00	1.000	0.99958
1093	1	1.25	26	1,963	238	0.109	75.50	8.25	1.000	0.99981
1102	3	3.50	33	2,566	1,030	0.032	77.76	2.49	1.000	0.99994
1211	2	3.20	64	6,431	1,496	0.043	100.48	4.30	1.067	0.99990
1213	1	1.05	17	1,075	565	0.030	63.24	1.90	1.000	0.99996
1241	3	3.06	5	281	880	0.006	56.20	0.32	1.000	0.99999
1242	1	1.08	1	65	856	0.001	65.00	0.08	1.000	0.99999
1243	2	2.14	5	420	1,235	0.004	84.00	0.34	1.000	0.99999
1261	1	0.85	16	817	403	0.040	51.06	2.03	1.000	0.99995
1263	4	5.33	111	7,693	1,217	0.091	69.31	6.32	1.000	0.99985
1265	1	0.30	1	18	1,309	0.001	18.00	0.01	1.000	0.99999
1271	16	33.10	138	19,004	979	0.141	137.71	19.41	1.000	0.99955

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	2.12	9	1,149	870	0.010	127.67	1.32	1.000	0.99997
1282	2	2.03	75	6,964	696	0.108	92.85	10.01	1.014	0.99977
1284	1	1.78	1	107	966	0.001	107.00	0.11	1.000	0.99999
1311	1	1.75	20	2,107	281	0.071	105.35	7.50	1.000	0.99983
1312	3	5.19	54	3,860	962	0.056	71.48	4.01	1.038	0.99991
1452	1	0.43	1	26	458	0.002	26.00	0.06	1.000	0.99999
1453	3	3.89	132	9,421	1,815	0.073	71.37	5.19	1.008	0.99988
1454	1	0.38	6	138	943	0.006	23.00	0.15	1.000	0.99999
1521	1	0.82	25	1,227	382	0.065	49.08	3.21	1.000	0.99993
1523	1	2.30	1	138	752	0.001	138.00	0.18	1.000	0.99999
1841	1	0.45	1	27	552	0.002	27.00	0.05	1.000	0.99999
1843	2	1.75	33	1,818	1,101	0.030	55.09	1.65	1.065	0.99996
2091	4	22.10	505	97,559	898	0.562	193.19	108.64	1.006	0.99749
2092	2	1.90	945	70,572	944	1.001	74.68	74.76	1.001	0.99827
2171	2	8.99	27	4,412	582	0.046	163.41	7.58	1.000	0.99982
2211	1	2.05	3	370	736	0.004	123.33	0.50	1.000	0.99999
2212	1	0.97	24	1,401	1,341	0.018	58.38	1.04	1.000	0.99998
2511	2	7.80	673	202,973	621	1.084	301.59	326.85	1.084	0.99243
2621	1	1.92	1	115	1,197	0.001	115.00	0.10	1.000	0.99999
2622	1	1.52	1	91	116	0.009	91.00	0.78	1.000	0.99998
2921	1	4.13	15	3,725	389	0.039	248.33	9.58	1.000	0.99978
2951	4	11.86	61	5,566	1,234	0.049	91.25	4.51	1.052	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
2961	2	8.80	125	30,020	651	0.192	240.16	46.11	1.000	0.99893
3121	2	1.27	2	76	1,146	0.002	38.00	0.07	1.000	0.99999
3122	1	0.63	445	17,147	873	0.510	38.53	19.64	1.000	0.99955
3123	3	3.90	1,717	112,292	1,107	1.551	65.40	101.44	1.551	0.99765
3181	3	1.48	760	50,309	755	1.007	66.20	66.63	1.007	0.99846
3221	3	5.60	133	12,333	1,268	0.105	92.73	9.73	1.015	0.99977
3222	2	4.07	2	244	791	0.003	122.00	0.31	1.000	0.99999
3231	1	0.80	12	584	210	0.057	48.67	2.78	1.000	0.99994
3301	1	0.80	1	48	767	0.001	48.00	0.06	1.000	0.99999
3303	2	2.35	9	987	1,787	0.005	109.67	0.55	1.000	0.99999
3311	1	0.43	1	26	539	0.002	26.00	0.05	1.000	0.99999
3422	2	2.84	43	3,656	991	0.043	85.02	3.69	1.000	0.99991
3423	3	2.68	37	2,299	397	0.093	62.14	5.79	1.121	0.99987
3472	7	12.05	141	15,518	1,305	0.108	110.06	11.89	1.000	0.99972
3551	3	2.96	26	1,140	1,042	0.025	43.85	1.09	1.000	0.99997
3552	3	4.08	23	1,442	580	0.040	62.70	2.49	1.095	0.99994
3553	3	4.07	34	2,642	877	0.039	77.71	3.01	1.000	0.99993
3592	4	3.72	32	1,062	1,742	0.018	33.19	0.61	1.000	0.99999
3593	1	3.23	3	584	943	0.003	194.67	0.62	1.000	0.99999
3594	2	3.15	263	28,915	777	0.338	109.94	37.21	1.008	0.99914
3621	3	5.97	3	358	1,579	0.002	119.33	0.23	1.000	0.99999
3661	4	4.42	100	6,642	1,065	0.094	66.42	6.24	1.010	0.99986

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3662	9	12.25	106	9,840	873	0.121	92.83	11.27	1.104	0.99974
3675	2	1.37	128	5,285	420	0.305	41.29	12.58	1.016	0.99971
3691	1	1.02	1	61	373	0.003	61.00	0.16	1.000	0.99999
3702	3	2.12	8	421	656	0.012	52.63	0.64	1.000	0.99999
3751	3	5.95	102	12,597	913	0.112	123.50	13.80	1.020	0.99968
3871	2	2.45	2	147	1,377	0.001	73.50	0.11	1.000	0.99999
3873	3	4.15	821	39,456	807	1.017	48.06	48.89	1.089	0.99887
3878	3	2.29	872	29,443	825	1.057	33.76	35.69	1.066	0.99917
3891	2	4.32	2	259	447	0.004	129.50	0.58	1.000	0.99999
3893	5	5.58	40	2,619	1,161	0.034	65.48	2.26	1.000	0.99995
3912	1	0.63	1	38	1,300	0.001	38.00	0.03	1.000	0.99999
3913	1	1.70	49	5,019	823	0.060	102.43	6.10	1.000	0.99986
3914	1	0.37	1	22	393	0.003	22.00	0.06	1.000	0.99999
3951	2	2.15	2	129	944	0.002	64.50	0.14	1.000	0.99999
3952	5	20.45	1,346	443,308	1,349	0.998	329.35	328.62	1.000	0.99239
3953	3	4.30	119	10,738	538	0.221	90.24	19.96	1.017	0.99954
3981	5	6.01	31	2,104	1,542	0.020	67.87	1.36	1.033	0.99997
4031	5	11.51	759	104,832	713	1.065	138.12	147.03	1.065	0.99660
407	1	0.32	1	19	105	0.010	19.00	0.18	1.000	0.99999
4131	1	0.52	1	31	205	0.005	31.00	0.15	1.000	0.99999
4132	1	2.00	1	120	567	0.002	120.00	0.21	1.000	0.99999
4133	1	1.22	26	1,909	278	0.094	73.42	6.87	1.000	0.99984

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4134	2	3.10	8	675	1,263	0.006	84.38	0.53	1.000	0.99999
4137	1	1.17	33	2,338	801	0.041	70.85	2.92	1.000	0.99993
4141	1	1.55	1	93	83	0.012	93.00	1.12	1.000	0.99997
4152	2	2.20	17	1,109	1,286	0.013	65.24	0.86	1.063	0.99998
4155	3	8.90	1,658	123,160	1,648	1.006	74.28	74.73	1.006	0.99827
4171	1	0.83	31	1,560	1,182	0.026	50.32	1.32	1.000	0.99997
4172	1	6.82	12	4,918	1,809	0.007	409.83	2.72	1.000	0.99994
4173	1	1.20	50	3,618	688	0.073	72.36	5.26	1.000	0.99988
4182	4	8.03	26	3,534	773	0.034	135.92	4.57	1.000	0.99989
4211	2	1.35	23	981	700	0.033	42.65	1.40	1.000	0.99997
4212	1	12.68	1	761	1,075	0.001	761.00	0.71	1.000	0.99998
4303	3	5.13	152	17,205	1,253	0.121	113.19	13.73	1.013	0.99968
4311	4	2.18	10	205	881	0.011	20.50	0.23	1.000	0.99999
4322	1	1.30	1	78	104	0.010	78.00	0.75	1.000	0.99998
4331	1	0.65	1	39	327	0.003	39.00	0.12	1.000	0.99999
4341	2	1.32	51	1,537	1,812	0.028	30.14	0.85	1.000	0.99998
4361	1	1.90	1	114	1,662	0.001	114.00	0.07	1.000	0.99999
4363	2	3.50	41	4,327	1,507	0.027	105.54	2.87	1.000	0.99993
4371	2	8.56	2	514	1,550	0.001	257.00	0.33	1.000	0.99999
4372	3	4.77	27	1,528	419	0.064	56.59	3.65	1.080	0.99992
4373	2	3.52	2	211	763	0.003	105.50	0.28	1.000	0.99999
4385	1	2.43	1	146	1,152	0.001	146.00	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
4431	1	2.57	1	154	1,404	0.001	154.00	0.11	1.000	0.99999
4432	2	1.52	2	91	475	0.004	45.50	0.19	1.000	0.99999
4511	1	6.25	20	7,501	1,128	0.018	375.05	6.65	1.000	0.99985
4512	2	8.57	276	75,179	1,096	0.252	272.39	68.59	1.000	0.99841
4692	1	2.22	1	133	486	0.002	133.00	0.27	1.000	0.99999
4714	2	1.28	2	77	342	0.006	38.50	0.23	1.000	0.99999
4791	2	3.58	2	215	624	0.003	107.50	0.34	1.000	0.99999
5601	14	19.91	448	40,161	1,407	0.318	89.65	28.54	1.191	0.99934
5602	6	8.65	6	519	711	0.008	86.50	0.73	1.000	0.99998
5603	3	4.70	171	13,270	1,296	0.132	77.60	10.24	1.000	0.99976
5901	1	1.32	6	474	819	0.007	79.00	0.58	1.000	0.99999
5902	4	5.52	77	7,180	965	0.080	93.25	7.44	1.000	0.99983
5904	3	2.82	222	12,641	1,279	0.174	56.94	9.88	1.009	0.99977
5905	1	1.38	1	83	1,934	0.001	83.00	0.04	1.000	0.99999
6021	3	2.53	80	4,593	1,355	0.059	57.41	3.39	1.000	0.99992
6022	1	0.72	1	43	562	0.002	43.00	0.08	1.000	0.99999
6141	2	3.90	28	3,324	643	0.044	118.71	5.17	1.037	0.99988
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	292	508.67	15,154	1,780,499	171,581	0.088	117.49	10.38	1.000	0.99976

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 12/1/2020 to 12/31/2020
 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	1.33	95	3,545	1,754	0.054	37.32	2.02	1.000	0.99995
1051	1	1.13	50	3,405	776	0.064	68.10	4.39	1.000	0.99990
1082	1	1.07	1	64	1,378	0.001	64.00	0.05	1.000	0.99999
1092	3	2.42	3	145	941	0.003	48.33	0.15	1.000	0.99999
1094	1	1.20	4	289	1,260	0.003	72.25	0.23	1.000	0.99999
1102	2	1.85	67	3,765	1,046	0.064	56.19	3.60	1.000	0.99992
1103	1	0.98	1	59	1,002	0.001	59.00	0.06	1.000	0.99999
1211	1	0.25	1	15	1,498	0.001	15.00	0.01	1.000	0.99999
1212	1	1.10	1	66	340	0.003	66.00	0.19	1.000	0.99999
1232	2	3.70	2	222	1,203	0.002	111.00	0.18	1.000	0.99999
1241	1	0.48	35	1,043	880	0.040	29.80	1.19	1.000	0.99997
1265	1	1.68	67	6,832	1,309	0.051	101.97	5.22	1.000	0.99988
1271	2	2.58	26	2,034	980	0.027	78.23	2.08	1.000	0.99995
1273	3	2.73	97	5,208	870	0.111	53.69	5.99	1.000	0.99987
1312	1	2.00	1	120	962	0.001	120.00	0.12	1.000	0.99999
1453	6	11.20	1,827	305,729	1,816	1.006	167.34	168.35	1.006	0.99623
1454	1	0.88	1	53	944	0.001	53.00	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
1455	1	1.12	1	67	413	0.002	67.00	0.16	1.000	0.99999
1521	1	1.08	3	195	382	0.008	65.00	0.51	1.000	0.99999
1523	2	4.86	82	14,971	752	0.109	182.57	19.91	1.000	0.99955
1842	1	0.98	1	59	292	0.003	59.00	0.20	1.000	0.99999
2171	1	0.60	5	184	582	0.009	36.80	0.32	1.000	0.99999
2211	1	0.77	20	930	736	0.027	46.50	1.26	1.000	0.99997
2212	2	2.49	2	149	1,341	0.001	74.50	0.11	1.000	0.99999
2621	6	16.79	113	48,219	1,198	0.094	426.72	40.25	1.046	0.99910
2921	1	0.42	1	25	391	0.003	25.00	0.06	1.000	0.99999
2951	4	8.78	506	60,883	1,235	0.410	120.32	49.30	1.026	0.99890
3121	1	0.90	1,146	62,819	1,146	1.000	54.82	54.82	1.000	0.99877
3122	5	5.90	976	66,585	874	1.118	68.22	76.27	2.280	0.99829
3181	1	0.28	756	13,406	756	1.000	17.73	17.73	1.000	0.99960
3221	2	2.62	2	157	1,272	0.002	78.50	0.12	1.000	0.99999
3222	1	0.67	1	40	791	0.001	40.00	0.05	1.000	0.99999
3301	2	2.72	2	163	768	0.003	81.50	0.21	1.000	0.99999
3303	1	0.62	1	37	1,787	0.001	37.00	0.02	1.000	0.99999
3304	1	0.42	1	25	1,112	0.001	25.00	0.02	1.000	0.99999
3313	2	2.24	17	1,244	1,414	0.012	73.18	0.88	1.000	0.99998
3315	2	1.93	62	3,647	1,598	0.039	58.82	2.28	1.000	0.99995
3422	4	3.41	93	4,078	992	0.094	43.85	4.11	1.000	0.99991
3423	2	2.20	4	223	398	0.010	55.75	0.56	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
3471	1	0.37	1	22	487	0.002	22.00	0.05	1.000	0.99999
3591	2	1.48	48	2,112	1,434	0.033	44.00	1.47	1.000	0.99997
3592	7	9.37	1,825	449,665	1,742	1.048	246.39	258.13	1.048	0.99422
3593	2	3.97	68	3,683	943	0.072	54.16	3.91	1.000	0.99991
3594	2	8.55	43	12,303	778	0.055	286.12	15.81	1.000	0.99965
3621	3	3.89	14	892	1,584	0.009	63.71	0.56	1.000	0.99999
3662	1	0.85	4	204	873	0.005	51.00	0.23	1.000	0.99999
3664	2	1.70	2	102	576	0.003	51.00	0.18	1.000	0.99999
3691	1	0.32	60	1,197	374	0.160	19.95	3.20	1.000	0.99993
3701	1	0.85	15	773	526	0.029	51.53	1.47	1.000	0.99997
3751	1	1.37	1	82	914	0.001	82.00	0.09	1.000	0.99999
3878	1	0.75	1	45	824	0.001	45.00	0.05	1.000	0.99999
3893	2	4.91	49	7,106	1,162	0.042	145.02	6.12	1.000	0.99986
3903	1	1.98	45	5,367	302	0.149	119.27	17.77	1.000	0.99960
3912	1	0.42	1	25	1,302	0.001	25.00	0.02	1.000	0.99999
3913	1	1.83	1	110	823	0.001	110.00	0.13	1.000	0.99999
3914	1	0.63	11	425	393	0.028	38.64	1.08	1.000	0.99998
3952	1	5.98	1	359	1,350	0.001	359.00	0.27	1.000	0.99999
3981	4	3.99	5	305	1,543	0.003	61.00	0.20	1.000	0.99999
3991	8	12.32	8	739	754	0.011	92.38	0.98	1.000	0.99998
4031	1	0.47	62	1,741	711	0.087	28.08	2.45	1.000	0.99995
4101	2	1.64	10	282	976	0.010	28.20	0.29	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	4	8.19	1,291	153,927	1,264	1.021	119.23	121.78	1.021	0.99727
4138	1	0.90	1	54	759	0.001	54.00	0.07	1.000	0.99999
4142	1	1.13	10	689	612	0.016	68.90	1.13	1.000	0.99997
4171	2	1.38	39	2,058	1,182	0.033	52.77	1.74	1.026	0.99996
4212	4	28.83	38	3,302	1,075	0.035	86.89	3.07	1.000	0.99993
4222	2	1.62	159	8,117	1,069	0.149	51.05	7.59	1.006	0.99983
4223	1	1.58	1	95	1,108	0.001	95.00	0.09	1.000	0.99999
4303	2	2.55	1,409	127,543	1,260	1.118	90.52	101.22	1.118	0.99773
4313	2	3.11	14	1,191	550	0.025	85.07	2.17	1.077	0.99995
4324	1	1.03	1	62	653	0.002	62.00	0.09	1.000	0.99999
4343	2	2.48	97	9,568	1,672	0.058	98.64	5.72	1.000	0.99987
4361	1	1.68	1	101	1,662	0.001	101.00	0.06	1.000	0.99999
4363	1	0.60	14	510	1,099	0.013	36.43	0.46	1.000	0.99999
4371	1	0.58	28	999	1,550	0.018	35.68	0.64	1.000	0.99999
4385	2	1.17	24	702	1,152	0.021	29.25	0.61	1.043	0.99999
4386	1	0.18	1	11	1,667	0.001	11.00	0.01	1.000	0.99999
4431	1	1.03	1	62	1,406	0.001	62.00	0.04	1.000	0.99999
4432	3	2.78	3	167	476	0.006	55.67	0.35	1.000	0.99999
4602	1	1.38	11	922	966	0.011	83.82	0.95	1.000	0.99998
4692	2	2.61	6	360	486	0.012	60.00	0.74	1.000	0.99998
4712	1	1.20	19	1,374	126	0.151	72.32	10.90	1.000	0.99976
4783	1	1.18	1	71	240	0.004	71.00	0.30	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
4791	1	1.50	14	1,261	624	0.022	90.07	2.02	1.000	0.99995
5601	3	11.80	5	1,434	1,409	0.004	286.80	1.02	1.000	0.99998
5602	3	4.55	3	273	711	0.004	91.00	0.38	1.000	0.99999
5603	3	2.97	19	1,212	1,296	0.015	63.79	0.94	1.000	0.99998
5902	2	1.30	106	4,196	965	0.110	39.58	4.35	1.019	0.99990
5905	1	2.60	90	14,098	1,934	0.047	156.64	7.29	1.000	0.99984
6022	1	0.35	1	21	562	0.002	21.00	0.04	1.000	0.99999
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	171	258.29	11,756	1,432,619	171,320	0.069	121.86	8.36	1.186	0.99981

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 1/1/2020 to 1/31/2020
 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	4	4.41	19	790	1,363	0.014	41.58	0.58	1.000	0.99999
1092	1	0.73	921	41,337	927	0.994	44.88	44.59	1.000	0.99900
1103	1	0.73	1	44	991	0.001	44.00	0.04	1.000	0.99999
1141	2	7.70	44	10,187	907	0.049	231.52	11.23	1.023	0.99975
1211	2	2.20	2	132	1,490	0.001	66.00	0.09	1.000	0.99999
1232	1	3.80	9	2,054	1,190	0.008	228.22	1.73	1.000	0.99996
1233	1	1.17	98	6,861	641	0.153	70.01	10.70	1.000	0.99976
1243	2	3.15	42	4,261	1,221	0.034	101.45	3.49	1.000	0.99992
1263	1	1.80	12	1,296	1,175	0.010	108.00	1.10	1.000	0.99998
1265	1	1.07	1	64	1,294	0.001	64.00	0.05	1.000	0.99999
1273	1	1.27	1	76	869	0.001	76.00	0.09	1.000	0.99999
1452	2	1.15	14	342	454	0.031	24.43	0.75	1.077	0.99998
1454	2	7.81	49	7,516	936	0.052	153.39	8.03	1.021	0.99982
1521	1	1.48	1	89	376	0.003	89.00	0.24	1.000	0.99999
1523	1	2.35	1	141	743	0.001	141.00	0.19	1.000	0.99999
1842	1	4.03	1	242	284	0.004	242.00	0.85	1.000	0.99998
2051	1	1.68	5	505	167	0.030	101.00	3.02	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
2171	2	7.46	106	26,888	578	0.183	253.66	46.52	1.010	0.99896
2621	1	1.70	1	102	1,185	0.001	102.00	0.09	1.000	0.99999
2961	1	0.82	1	49	648	0.002	49.00	0.08	1.000	0.99999
3081	1	1.48	1	89	582	0.002	89.00	0.15	1.000	0.99999
3082	1	0.93	1	56	323	0.003	56.00	0.17	1.000	0.99999
3121	1	1.05	28	1,786	1,139	0.025	63.79	1.57	1.000	0.99996
3222	1	0.67	1	40	782	0.001	40.00	0.05	1.000	0.99999
3302	2	4.62	2	277	946	0.002	138.50	0.29	1.000	0.99999
3303	1	1.67	4	402	1,748	0.002	100.50	0.23	1.000	0.99999
3315	1	5.97	1	358	1,594	0.001	358.00	0.22	1.000	0.99999
3421	1	0.50	1	30	298	0.003	30.00	0.10	1.000	0.99999
3471	1	0.80	1	48	475	0.002	48.00	0.10	1.000	0.99999
3472	2	1.12	21	875	1,294	0.016	41.67	0.68	1.050	0.99998
3621	4	8.98	39	3,037	1,564	0.025	77.87	1.94	1.000	0.99996
3671	1	1.10	7	465	510	0.014	66.43	0.91	1.000	0.99998
3691	1	2.20	1	132	1,174	0.001	132.00	0.11	1.000	0.99999
3694	1	0.65	45	1,775	1,402	0.032	39.44	1.27	1.000	0.99997
3701	5	4.25	524	51,418	511	1.025	98.13	100.62	1.025	0.99775
3702	6	27.28	120	73,236	650	0.185	610.30	112.67	1.304	0.99748
3871	1	0.43	1	26	1,365	0.001	26.00	0.02	1.000	0.99999
3872	1	1.37	72	5,849	1,083	0.066	81.24	5.40	1.000	0.99988
3892	1	3.72	1	223	523	0.002	223.00	0.43	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
3894	2	2.18	9	586	155	0.058	65.11	3.78	1.000	0.99992
3901	1	1.43	17	1,464	887	0.019	86.12	1.65	1.000	0.99996
3903	1	1.42	1	85	301	0.003	85.00	0.28	1.000	0.99999
3912	3	3.02	1,387	34,060	1,228	1.129	24.56	27.74	1.163	0.99938
3951	1	0.65	18	711	940	0.019	39.50	0.76	1.000	0.99998
3952	1	1.47	1	88	1,317	0.001	88.00	0.07	1.000	0.99999
3953	2	5.31	116	18,543	532	0.218	159.85	34.86	1.018	0.99922
3982	1	1.13	1	68	1,779	0.001	68.00	0.04	1.000	0.99999
4101	5	7.07	58	2,798	970	0.060	48.24	2.88	1.000	0.99994
4138	1	2.93	1	176	760	0.001	176.00	0.23	1.000	0.99999
4142	1	5.45	14	4,587	609	0.023	327.64	7.53	1.000	0.99983
4153	1	1.07	1	64	984	0.001	64.00	0.07	1.000	0.99999
4171	1	1.28	1	77	685	0.001	77.00	0.11	1.000	0.99999
4182	1	4.12	1	247	769	0.001	247.00	0.32	1.000	0.99999
4211	1	1.05	1	63	910	0.001	63.00	0.07	1.000	0.99999
4212	3	7.10	33	5,191	830	0.040	157.30	6.25	1.031	0.99986
4222	2	3.30	2	198	1,046	0.002	99.00	0.19	1.000	0.99999
4223	1	0.37	1	22	1,023	0.001	22.00	0.02	1.000	0.99999
4302	1	1.33	1	80	656	0.002	80.00	0.12	1.000	0.99999
4303	3	4.06	84	10,153	1,116	0.075	120.87	9.10	1.012	0.99980
4324	1	1.27	1	76	649	0.002	76.00	0.12	1.000	0.99999
4334	1	1.95	1	117	298	0.003	117.00	0.39	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	0.80	65	3,156	1,777	0.037	48.55	1.78	1.000	0.99996
4343	2	1.93	99	8,283	1,651	0.060	83.67	5.02	1.010	0.99989
4362	1	1.65	84	8,327	832	0.101	99.13	10.01	1.000	0.99978
4371	5	8.98	87	4,048	1,541	0.056	46.53	2.63	1.048	0.99994
4373	4	3.72	51	2,212	793	0.064	43.37	2.79	1.063	0.99994
4431	1	0.82	5	247	1,396	0.004	49.40	0.18	1.000	0.99999
4432	1	2.13	13	1,674	468	0.028	128.77	3.58	1.000	0.99992
4601	3	5.22	96	10,235	431	0.223	106.61	23.75	1.021	0.99947
4602	2	0.51	8	187	953	0.008	23.38	0.20	1.143	0.99999
4714	1	0.63	4	154	333	0.012	38.50	0.46	1.000	0.99999
5601	4	7.02	142	31,587	1,354	0.105	222.44	23.33	1.014	0.99948
5602	1	1.68	5	507	676	0.007	101.40	0.75	1.000	0.99998
5905	1	1.70	1	102	1,918	0.001	102.00	0.05	1.000	0.99999
6024	2	3.27	569	65,847	397	1.433	115.72	165.86	1.433	0.99628
6141	2	4.43	2	266	636	0.003	133.00	0.42	1.000	0.99999
6142	1	2.92	1	175	314	0.003	175.00	0.56	1.000	0.99999
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	129	231.67	5,182	459,559	168,708	0.031	88.68	2.72	1.086	0.99994

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 2/1/2020 to 2/29/2020
 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	1,670	0.001	70.00	0.04	1.000	0.99999
1082	2	3.26	2	196	1,369	0.001	98.00	0.14	1.000	0.99999
1094	2	1.50	20	968	1,244	0.016	48.40	0.78	1.053	0.99998
1103	1	3.58	13	2,654	995	0.013	204.15	2.67	1.000	0.99994
1211	1	0.40	1	24	1,492	0.001	24.00	0.02	1.000	0.99999
1212	2	1.58	2	95	338	0.006	47.50	0.28	1.000	0.99999
1243	2	7.90	29	9,534	1,227	0.024	328.76	7.77	1.000	0.99981
1273	1	0.92	1	55	870	0.001	55.00	0.06	1.000	0.99999
1282	1	1.75	1	105	694	0.001	105.00	0.15	1.000	0.99999
1312	2	4.35	2	261	958	0.002	130.50	0.27	1.000	0.99999
1452	1	0.83	1	50	455	0.002	50.00	0.11	1.000	0.99999
1453	1	2.08	1	125	1,810	0.001	125.00	0.07	1.000	0.99999
1523	2	2.20	37	2,545	746	0.050	68.78	3.41	1.000	0.99992
1842	1	1.55	284	26,506	287	0.990	93.33	92.36	1.000	0.99779
2921	1	1.80	1	108	384	0.003	108.00	0.28	1.000	0.99999
2961	2	1.65	41	316	649	0.063	7.71	0.49	1.000	0.99999
3303	1	0.32	1	19	1,768	0.001	19.00	0.01	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
3315	3	3.42	7	504	1,595	0.004	72.00	0.32	1.000	0.99999
3551	1	1.15	6	419	1,035	0.006	69.83	0.40	1.000	0.99999
3593	1	1.47	1	88	943	0.001	88.00	0.09	1.000	0.99999
3621	4	1.51	26	1,417	1,570	0.017	54.50	0.90	1.130	0.99998
3664	3	4.58	45	5,169	569	0.079	114.87	9.08	1.023	0.99978
3671	1	0.13	25	209	513	0.049	8.36	0.41	1.000	0.99999
3673	1	0.25	201	2,995	272	0.739	14.90	11.01	1.000	0.99974
3691	1	0.33	1	20	773	0.001	20.00	0.03	1.000	0.99999
3694	1	0.72	52	2,264	962	0.054	43.54	2.35	1.000	0.99994
3751	1	2.85	1	171	910	0.001	171.00	0.19	1.000	0.99999
3871	1	1.27	68	5,168	1,370	0.050	76.00	3.77	1.000	0.99991
3872	2	3.79	43	5,168	1,085	0.040	120.19	4.76	1.000	0.99989
3873	1	0.67	1	40	806	0.001	40.00	0.05	1.000	0.99999
3892	15	9.37	179	9,684	530	0.338	54.10	18.27	1.059	0.99956
3971	1	0.35	3	65	681	0.004	21.67	0.10	1.000	0.99999
3981	2	7.17	2	430	1,534	0.001	215.00	0.28	1.000	0.99999
3991	1	2.08	7	876	748	0.009	125.14	1.17	1.000	0.99997
4031	1	2.25	1	135	712	0.001	135.00	0.19	1.000	0.99999
4091	1	0.40	13	305	1,166	0.011	23.46	0.26	1.000	0.99999
4102	1	0.98	72	4,272	542	0.133	59.33	7.88	1.000	0.99981
4131	1	1.17	37	2,588	204	0.181	69.95	12.69	1.000	0.99970
4155	1	0.82	18	884	1,599	0.011	49.11	0.55	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
4171	1	1.48	1	89	926	0.001	89.00	0.10	1.000	0.99999
4172	6	8.04	1,987	165,203	1,776	1.119	83.14	93.02	1.119	0.99777
4173	1	1.47	1	88	668	0.001	88.00	0.13	1.000	0.99999
4222	1	0.63	1	38	1,053	0.001	38.00	0.04	1.000	0.99999
4223	1	0.73	2	88	1,041	0.002	44.00	0.08	1.000	0.99999
432	1	3.02	89	16,181	90	0.989	181.81	179.79	1.000	0.99569
433	1	1.30	1	78	84	0.012	78.00	0.93	1.000	0.99998
4341	1	1.72	39	4,030	1,790	0.022	103.33	2.25	1.000	0.99995
4343	3	3.73	1,712	64,578	1,661	1.031	37.72	38.88	1.037	0.99907
4361	1	1.35	12	952	1,619	0.007	79.33	0.59	1.000	0.99999
4362	1	0.68	1	41	833	0.001	41.00	0.05	1.000	0.99999
4363	2	6.80	2	408	1,481	0.001	204.00	0.28	1.000	0.99999
4385	1	0.95	1	57	1,142	0.001	57.00	0.05	1.000	0.99999
4431	1	4.25	1	255	1,400	0.001	255.00	0.18	1.000	0.99999
457	1	1.10	1	66	179	0.006	66.00	0.37	1.000	0.99999
4602	1	1.73	1	104	958	0.001	104.00	0.11	1.000	0.99999
4692	2	4.10	2	246	482	0.004	123.00	0.51	2.000	0.99999
4714	3	2.30	63	1,274	336	0.188	20.22	3.79	1.033	0.99991
5602	1	2.32	72	10,078	676	0.107	139.97	14.91	1.000	0.99964
5603	1	0.65	1	39	1,318	0.001	39.00	0.03	1.000	0.99999
5902	1	0.50	1	30	962	0.001	30.00	0.03	1.000	0.99999
5903	1	0.57	1	34	276	0.004	34.00	0.12	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
5905	3	3.93	74	9,288	1,924	0.038	125.51	4.83	1.072	0.99988
6021	3	3.51	3	210	1,344	0.002	70.00	0.16	1.000	0.99999
6022	1	1.47	5	443	512	0.010	88.60	0.87	1.000	0.99998
6024	1	1.55	172	15,998	395	0.435	93.01	40.50	1.000	0.99903
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	110	143.45	5,493	376,398	168,578	0.033	68.52	2.23	1.054	0.99995

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 3/1/2020 to 3/31/2020
 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	3.44	95	5,873	1,735	0.055	61.82	3.39	1.000	0.99992
1051	3	6.28	11	1,415	771	0.014	128.64	1.84	1.222	0.99996
1082	4	4.47	4	268	1,375	0.003	67.00	0.19	1.000	0.99999
1091	1	0.72	53	2,303	702	0.075	43.45	3.28	1.000	0.99993
1093	1	1.37	26	2,154	238	0.109	82.85	9.05	1.000	0.99980
1094	1	0.48	1	29	1,246	0.001	29.00	0.02	1.000	0.99999
1102	2	1.65	2	99	1,012	0.002	49.50	0.10	1.000	0.99999
1103	1	6.07	1	364	999	0.001	364.00	0.36	1.000	0.99999
1141	1	0.33	20	407	909	0.022	20.35	0.45	1.000	0.99999
1142	7	7.16	25	1,636	218	0.115	65.44	7.50	1.042	0.99983
1211	2	2.94	2	176	1,494	0.001	88.00	0.12	1.000	0.99999
1232	1	2.70	1,198	194,834	1,198	1.000	162.63	162.63	1.000	0.99636
1242	1	0.57	20	693	857	0.023	34.65	0.81	1.000	0.99998
1243	2	1.78	17	646	1,233	0.014	38.00	0.52	1.063	0.99999
1263	1	0.88	1	53	1,209	0.001	53.00	0.04	1.000	0.99999
1264	2	2.05	2	123	20	0.100	61.50	6.15	1.000	0.99986
1271	2	2.80	49	3,961	976	0.050	80.84	4.06	1.021	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
1273	2	1.92	10	575	870	0.011	57.50	0.66	1.000	0.99999
1312	2	7.47	13	1,117	964	0.013	85.92	1.16	1.083	0.99997
1451	2	2.12	36	1,937	544	0.066	53.81	3.56	1.000	0.99992
1452	1	0.82	4	198	456	0.009	49.50	0.43	1.000	0.99999
1453	4	5.15	14	801	1,814	0.008	57.21	0.44	1.077	0.99999
1454	1	2.12	1	127	941	0.001	127.00	0.13	1.000	0.99999
1521	3	3.10	27	1,817	382	0.071	67.30	4.76	1.038	0.99989
1523	1	1.25	1	75	750	0.001	75.00	0.10	1.000	0.99999
1843	2	2.70	12	681	1,096	0.011	56.75	0.62	1.000	0.99999
2211	1	1.03	39	2,407	736	0.053	61.72	3.27	1.000	0.99993
2212	1	1.67	1	100	1,338	0.001	100.00	0.07	1.000	0.99999
2511	1	0.10	623	4,101	623	1.000	6.58	6.58	1.000	0.99985
2621	3	11.09	34	8,775	1,195	0.028	258.09	7.34	1.063	0.99984
2622	1	1.13	1	68	115	0.009	68.00	0.59	1.000	0.99999
2921	1	1.23	1	74	388	0.003	74.00	0.19	1.000	0.99999
2951	1	2.35	1	141	1,230	0.001	141.00	0.11	1.000	0.99999
3121	1	0.60	1	36	1,144	0.001	36.00	0.03	1.000	0.99999
3122	3	4.13	1,023	47,383	870	1.176	46.32	54.46	1.179	0.99878
3123	1	0.95	22	1,258	1,107	0.020	57.18	1.14	1.000	0.99997
3222	5	7.33	793	170,517	789	1.005	215.03	216.12	1.005	0.99516
3231	1	1.73	1	104	210	0.005	104.00	0.50	1.000	0.99999
3301	1	0.45	1	27	766	0.001	27.00	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
3302	3	6.19	3	371	968	0.003	123.67	0.38	1.000	0.99999
3303	1	1.45	1	87	1,789	0.001	87.00	0.05	1.000	0.99999
3304	2	2.68	1,110	82,522	1,109	1.001	74.34	74.41	1.001	0.99833
3311	2	2.70	113	7,176	536	0.211	63.50	13.39	1.009	0.99970
3312	1	0.75	418	18,921	418	1.000	45.27	45.27	1.000	0.99899
3313	2	1.45	1,397	67,419	1,404	0.995	48.26	48.02	1.001	0.99892
3315	1	0.92	30	1,653	1,596	0.019	55.10	1.04	1.000	0.99998
3422	3	1.19	12	305	989	0.012	25.42	0.31	1.000	0.99999
3471	1	1.45	1	87	482	0.002	87.00	0.18	1.000	0.99999
3472	2	4.15	23	2,668	1,304	0.018	116.00	2.05	1.000	0.99995
3553	2	2.62	227	21,394	883	0.257	94.25	24.23	1.164	0.99946
3592	1	1.02	13	803	1,741	0.007	61.77	0.46	1.000	0.99999
3594	1	1.58	9	855	774	0.012	95.00	1.10	1.000	0.99998
3621	2	2.07	2	124	1,577	0.001	62.00	0.08	1.000	0.99999
3662	1	0.88	1	53	828	0.001	53.00	0.06	1.000	0.99999
3664	1	1.17	1	70	572	0.002	70.00	0.12	1.000	0.99999
3673	1	1.82	1	109	272	0.004	109.00	0.40	1.000	0.99999
3871	1	2.05	4	492	1,375	0.003	123.00	0.36	1.000	0.99999
3872	3	7.27	364	51,280	1,087	0.335	140.88	47.18	2.000	0.99894
3873	1	2.03	56	6,796	807	0.069	121.36	8.42	1.000	0.99981
3893	1	6.30	1	378	1,155	0.001	378.00	0.33	1.000	0.99999
3894	2	5.58	2	335	157	0.013	167.50	2.13	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
3901	1	0.68	1	41	888	0.001	41.00	0.05	1.000	0.99999
3912	1	0.38	1	23	1,245	0.001	23.00	0.02	1.000	0.99999
3913	4	5.11	11	804	820	0.013	73.09	0.98	1.000	0.99998
3951	1	0.68	1	41	941	0.001	41.00	0.04	1.000	0.99999
3981	3	3.43	1,541	82,130	1,539	1.001	53.30	53.37	1.001	0.99880
3982	2	1.99	8	491	1,808	0.004	61.38	0.27	1.000	0.99999
3991	1	1.10	1	66	752	0.001	66.00	0.09	1.000	0.99999
402	1	2.08	1	125	109	0.009	125.00	1.15	1.000	0.99997
4031	1	1.65	13	1,295	713	0.018	99.62	1.82	1.000	0.99996
4092	1	0.95	1	57	450	0.002	57.00	0.13	1.000	0.99999
4101	3	5.17	36	4,644	971	0.037	129.00	4.78	1.000	0.99989
4152	1	3.82	121	27,737	1,285	0.094	229.23	21.59	1.000	0.99952
4153	2	3.38	991	148,602	991	1.000	149.95	149.95	1.001	0.99664
4154	2	2.77	1,282	115,472	1,282	1.000	90.07	90.07	1.001	0.99798
4155	1	1.72	1	103	1,615	0.001	103.00	0.06	1.000	0.99999
4172	1	0.38	1	23	1,791	0.001	23.00	0.01	1.000	0.99999
4173	1	0.60	40	1,466	675	0.059	36.65	2.17	1.000	0.99995
4182	1	2.23	1	134	773	0.001	134.00	0.17	1.000	0.99999
4211	1	0.85	1	51	927	0.001	51.00	0.06	1.000	0.99999
4222	1	0.90	1	54	1,060	0.001	54.00	0.05	1.000	0.99999
4224	1	0.83	29	1,476	768	0.038	50.90	1.92	1.000	0.99996
4313	1	1.58	21	1,979	547	0.038	94.24	3.62	1.000	0.99992

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4341	2	2.29	28	1,277	1,802	0.016	45.61	0.71	1.037	0.99998
4342	1	0.65	21	826	516	0.041	39.33	1.60	1.000	0.99996
4343	4	4.19	54	5,101	1,671	0.032	94.46	3.05	1.286	0.99993
4361	3	2.47	1,479	57,884	1,628	0.908	39.14	35.56	1.001	0.99920
4362	1	1.60	1	96	834	0.001	96.00	0.12	1.000	0.99999
4363	2	2.83	2	170	1,497	0.001	85.00	0.11	1.000	0.99999
4371	2	1.69	25	1,660	1,550	0.016	66.40	1.07	1.000	0.99998
4373	2	5.10	3	535	781	0.004	178.33	0.69	1.000	0.99998
4431	1	4.33	166	43,190	1,403	0.118	260.18	30.78	1.000	0.99931
4432	1	1.87	1	112	475	0.002	112.00	0.24	1.000	0.99999
457	1	0.75	1	45	179	0.006	45.00	0.25	1.000	0.99999
4602	2	2.53	2	152	963	0.002	76.00	0.16	1.000	0.99999
4714	1	0.98	39	2,318	339	0.115	59.44	6.84	1.000	0.99985
4791	1	1.03	1	62	624	0.002	62.00	0.10	1.000	0.99999
5601	1	2.27	20	2,737	1,397	0.014	136.85	1.96	1.000	0.99996
5602	1	2.33	1	140	676	0.001	140.00	0.21	1.000	0.99999
5603	4	4.28	32	3,912	1,327	0.024	122.25	2.95	1.067	0.99993
5902	1	0.43	12	316	964	0.012	26.33	0.33	1.000	0.99999
6021	2	3.32	59	3,143	1,345	0.044	53.27	2.34	1.000	0.99995
6024	2	1.65	160	8,006	393	0.407	50.04	20.37	1.212	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
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	176	252.32	14,186	1,239,747	170,618	0.083	87.39	7.27	1.031	0.99984

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 4/1/2020 to 4/30/2020
 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	7.05	5	1,153	1,744	0.003	230.60	0.66	1.000	0.99998
1051	3	4.10	29	2,280	772	0.038	78.62	2.95	1.000	0.99993
1052	1	1.25	43	3,265	1,160	0.037	75.93	2.81	1.000	0.99993
1082	5	8.17	5	490	1,376	0.004	98.00	0.36	1.000	0.99999
1091	1	0.60	9	328	703	0.013	36.44	0.47	1.000	0.99999
1092	3	13.53	3	812	939	0.003	270.67	0.86	1.000	0.99998
1093	1	3.47	3	626	238	0.013	208.67	2.63	1.000	0.99994
1094	4	15.08	15	1,377	1,244	0.012	91.80	1.11	1.000	0.99997
1103	2	2.88	15	2,344	1,000	0.015	156.27	2.34	1.000	0.99995
1211	5	6.41	18	1,489	1,494	0.012	82.72	1.00	1.000	0.99998
1212	2	1.58	4	211	340	0.012	52.75	0.62	1.000	0.99999
1213	8	11.08	30	2,685	564	0.053	89.50	4.76	1.034	0.99989
1230	1	2.70	1	162	1,212	0.001	162.00	0.13	1.000	0.99999
1233	1	0.52	1	31	646	0.002	31.00	0.05	1.000	0.99999
1241	5	16.49	895	19,325	878	1.019	21.59	22.01	1.019	0.99949
1243	3	8.90	39	2,555	1,234	0.032	65.51	2.07	1.026	0.99995
1261	1	0.60	1	36	403	0.002	36.00	0.09	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
1262	1	6.32	1	379	167	0.006	379.00	2.27	1.000	0.99995
1265	1	0.68	112	4,597	1,307	0.086	41.04	3.52	1.000	0.99992
1282	6	16.33	258	43,649	696	0.371	169.18	62.71	1.008	0.99855
1311	5	17.28	9	1,758	280	0.032	195.33	6.28	1.000	0.99985
1451	2	6.70	546	43,994	544	1.004	80.58	80.87	1.004	0.99813
1452	1	1.48	1	89	456	0.002	89.00	0.20	1.000	0.99999
1453	7	25.35	50	11,464	1,814	0.028	229.28	6.32	1.064	0.99985
1454	1	1.47	9	800	942	0.010	88.89	0.85	1.000	0.99998
1455	3	4.52	823	42,734	413	1.993	51.92	103.47	2.002	0.99760
1521	6	9.73	62	5,612	382	0.162	90.52	14.69	1.127	0.99966
1523	7	10.23	70	4,529	750	0.093	64.70	6.04	1.061	0.99986
1843	3	6.91	12	1,130	1,098	0.011	94.17	1.03	1.000	0.99998
2092	1	1.52	1	91	943	0.001	91.00	0.10	1.000	0.99999
2172	1	1.57	1	94	242	0.004	94.00	0.39	1.000	0.99999
2211	1	0.58	5	175	736	0.007	35.00	0.24	1.000	0.99999
2212	3	2.93	3	176	1,338	0.002	58.67	0.13	1.000	0.99999
2492	1	1.40	1	84	29	0.034	84.00	2.90	1.000	0.99993
2511	3	9.55	76	20,638	622	0.122	271.55	33.18	1.027	0.99923
2621	6	28.13	66	11,697	1,196	0.055	177.23	9.78	1.031	0.99977
2951	2	3.17	1,231	48,633	1,230	1.001	39.51	39.54	1.001	0.99908
2952	1	0.65	370	14,516	370	1.000	39.23	39.23	1.000	0.99909
3121	1	0.35	231	4,966	1,144	0.202	21.50	4.34	1.000	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
3221	1	0.52	1,266	39,288	1,266	1.000	31.03	31.03	1.000	0.99928
3222	5	7.89	31	1,890	790	0.039	60.97	2.39	1.033	0.99994
3303	3	5.38	22	2,902	1,789	0.012	131.91	1.62	1.000	0.99996
3304	1	11.05	42	27,861	1,109	0.038	663.36	25.12	1.000	0.99942
3311	2	1.63	34	1,434	536	0.063	42.18	2.68	1.000	0.99994
3315	3	2.60	13	841	1,596	0.008	64.69	0.53	1.083	0.99999
3471	1	1.42	1	85	484	0.002	85.00	0.18	1.000	0.99999
3472	1	0.88	1	53	1,304	0.001	53.00	0.04	1.000	0.99999
3552	1	3.43	3	618	579	0.005	206.00	1.07	1.000	0.99998
3553	5	51.01	160	25,216	876	0.183	157.60	28.79	1.103	0.99933
3591	1	2.13	1	128	1,419	0.001	128.00	0.09	1.000	0.99999
3592	4	6.00	70	4,634	1,741	0.040	66.20	2.66	1.014	0.99994
3621	3	3.09	25	1,010	1,578	0.016	40.40	0.64	1.087	0.99999
3661	2	6.48	19	1,959	1,058	0.018	103.11	1.85	1.056	0.99996
3662	2	2.93	21	1,078	836	0.025	51.33	1.29	1.000	0.99997
3663	1	1.45	23	2,001	308	0.075	87.00	6.50	1.000	0.99985
3664	1	1.07	1	64	574	0.002	64.00	0.11	1.000	0.99999
3675	1	1.13	1	68	418	0.002	68.00	0.16	1.000	0.99999
3693	3	3.36	3	202	181	0.017	67.33	1.12	1.500	0.99997
3751	1	2.22	912	121,326	912	1.000	133.03	133.03	1.000	0.99692
3872	1	2.07	1	124	1,088	0.001	124.00	0.11	1.000	0.99999
3873	1	2.58	53	8,247	807	0.066	155.60	10.22	1.000	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
3893	2	1.35	6	253	1,157	0.005	42.17	0.22	1.000	0.99999
3894	1	1.00	11	618	157	0.070	56.18	3.94	1.000	0.99991
3901	3	5.75	72	5,904	888	0.081	82.00	6.65	1.014	0.99985
3903	1	2.58	7	1,090	302	0.023	155.71	3.61	1.000	0.99992
3913	1	0.40	1	24	820	0.001	24.00	0.03	1.000	0.99999
3951	3	3.61	945	101,953	942	1.003	107.89	108.23	1.003	0.99749
3952	2	3.07	64	4,181	1,342	0.048	65.33	3.12	1.016	0.99993
3953	5	6.39	248	16,850	534	0.464	67.94	31.55	1.102	0.99927
3981	4	5.16	4	310	1,539	0.003	77.50	0.20	1.000	0.99999
3982	1	4.90	1	294	1,812	0.001	294.00	0.16	1.000	0.99999
3991	2	4.29	13	2,650	752	0.017	203.85	3.52	1.083	0.99992
4031	4	10.37	771	95,668	713	1.081	124.08	134.18	1.081	0.99689
4091	3	3.22	16	653	1,178	0.014	40.81	0.55	1.000	0.99999
4092	2	2.63	6	385	450	0.013	64.17	0.86	1.000	0.99998
4101	2	1.99	2	119	971	0.002	59.50	0.12	1.000	0.99999
4102	1	2.22	117	15,615	542	0.216	133.46	28.81	1.000	0.99933
4137	7	8.80	54	2,296	801	0.067	42.52	2.87	1.000	0.99993
4141	1	4.75	1	285	83	0.012	285.00	3.43	1.000	0.99992
4142	2	6.80	26	5,851	614	0.042	225.04	9.53	1.182	0.99978
4152	1	2.93	12	2,118	1,286	0.009	176.50	1.65	1.000	0.99996
4154	1	1.72	86	8,911	1,308	0.066	103.62	6.81	1.000	0.99984
4172	2	1.56	2	94	1,792	0.001	47.00	0.05	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
4222	6	8.00	1,225	109,605	1,062	1.153	89.47	103.21	1.153	0.99761
4223	2	5.36	117	21,983	1,073	0.109	187.89	20.49	1.009	0.99953
4224	1	2.27	1	136	766	0.001	136.00	0.18	1.000	0.99999
4303	3	14.82	40	6,648	1,210	0.033	166.20	5.49	1.000	0.99987
4311	1	1.95	31	3,637	874	0.035	117.32	4.16	1.000	0.99990
4341	4	5.08	23	1,781	1,802	0.013	77.43	0.99	1.045	0.99998
4343	1	1.08	40	2,635	1,672	0.024	65.88	1.58	1.000	0.99996
4361	5	4.77	187	9,307	1,751	0.107	49.77	5.32	1.000	0.99988
4362	1	5.28	1	317	834	0.001	317.00	0.38	1.000	0.99999
4363	2	4.50	35	4,935	1,501	0.023	141.00	3.29	1.000	0.99992
4371	3	12.22	1,547	295,457	1,550	0.998	190.99	190.62	1.001	0.99559
4372	1	1.22	1	73	430	0.002	73.00	0.17	1.000	0.99999
4431	1	2.47	9	1,335	1,404	0.006	148.33	0.95	1.000	0.99998
4602	2	2.86	24	2,077	964	0.025	86.54	2.15	1.200	0.99995
4692	1	1.15	29	2,012	486	0.060	69.38	4.14	1.000	0.99990
5601	2	8.26	2	496	1,402	0.001	248.00	0.35	1.000	0.99999
5602	4	2.14	680	30,245	676	1.006	44.48	44.74	1.006	0.99896
5603	1	1.62	31	3,033	1,328	0.023	97.84	2.28	1.000	0.99995
5904	2	9.29	2	557	1,275	0.002	278.50	0.44	1.000	0.99999
5905	4	21.67	48	24,070	1,931	0.025	501.46	12.47	1.000	0.99971
6021	4	8.45	42	4,217	1,346	0.031	100.40	3.13	1.000	0.99993
6022	1	0.42	1	25	533	0.002	25.00	0.05	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
6142	1	0.48	1	29	327	0.003	29.00	0.09	1.000	0.99999
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	260	592.42	14,339	1,332,735	170,835	0.084	92.94	7.80	1.053	0.99982

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 5/1/2020 to 5/31/2020
 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	5.82	93	6,288	1,755	0.053	67.61	3.58	1.057	0.99992
1051	3	3.28	148	10,244	772	0.192	69.22	13.27	1.000	0.99970
1081	5	41.68	1,398	207,265	681	2.053	148.26	304.35	2.053	0.99318
1082	5	14.14	99	15,554	1,378	0.072	157.11	11.29	1.000	0.99975
1092	4	5.21	47	4,291	940	0.050	91.30	4.56	1.044	0.99990
1103	2	1.87	22	1,023	1,002	0.022	46.50	1.02	1.048	0.99998
1211	1	0.63	1	38	1,494	0.001	38.00	0.03	1.000	0.99999
1213	1	0.52	9	281	564	0.016	31.22	0.50	1.000	0.99999
1230	3	4.54	72	4,404	1,213	0.059	61.17	3.63	1.000	0.99992
1233	1	1.47	18	1,599	647	0.028	88.83	2.47	1.000	0.99994
1241	4	4.22	118	8,980	880	0.134	76.10	10.20	1.093	0.99977
1242	1	1.68	1	101	858	0.001	101.00	0.12	1.000	0.99999
1262	1	1.57	167	15,698	167	1.000	94.00	94.00	1.000	0.99789
1271	4	8.04	6	577	977	0.006	96.17	0.59	1.500	0.99999
1282	2	2.08	169	16,135	696	0.243	95.47	23.18	1.000	0.99948
1284	1	3.60	1	216	966	0.001	216.00	0.22	1.000	0.99999
1312	5	7.04	2,162	80,395	963	2.245	37.19	83.48	2.245	0.99813

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1451	4	6.88	20	1,484	545	0.037	74.20	2.72	1.000	0.99994
1452	1	1.43	20	1,729	456	0.044	86.45	3.79	1.000	0.99992
1454	1	1.10	1	66	942	0.001	66.00	0.07	1.000	0.99999
1521	1	3.45	9	1,864	382	0.024	207.11	4.88	1.000	0.99989
1523	2	1.82	750	38,718	750	1.000	51.62	51.62	1.001	0.99884
1841	1	4.22	1	253	550	0.002	253.00	0.46	1.000	0.99999
1843	4	7.43	17	1,539	1,099	0.015	90.53	1.40	1.133	0.99997
2052	1	0.78	2	95	85	0.024	47.50	1.12	1.000	0.99997
2091	2	7.71	2	463	897	0.002	231.50	0.52	1.000	0.99999
2171	1	2.12	1	127	582	0.002	127.00	0.22	1.000	0.99999
2211	1	1.25	1	75	736	0.001	75.00	0.10	1.000	0.99999
2212	1	0.40	16	389	1,337	0.012	24.31	0.29	1.000	0.99999
2511	2	2.44	2	146	621	0.003	73.00	0.24	1.000	0.99999
2621	8	17.61	167	28,045	1,196	0.140	167.93	23.45	1.000	0.99947
2951	1	1.05	1	63	1,232	0.001	63.00	0.05	1.000	0.99999
2952	1	0.78	1	47	370	0.003	47.00	0.13	1.000	0.99999
2961	1	4.53	70	19,049	650	0.108	272.13	29.31	1.000	0.99934
3081	6	71.82	181	240,349	585	0.309	1327.90	410.85	1.058	0.99080
3082	3	5.14	328	41,920	327	1.003	127.80	128.20	1.003	0.99713
3121	1	3.18	3	574	1,145	0.003	191.33	0.50	1.000	0.99999
3122	4	4.48	886	18,827	871	1.017	20.64	21.00	1.017	0.99953
3123	6	6.80	14	1,424	1,106	0.013	101.71	1.29	1.167	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
3181	2	5.57	33	2,997	754	0.044	90.82	3.97	1.031	0.99991
3221	4	4.71	12	641	1,268	0.009	53.42	0.51	1.091	0.99999
3222	1	1.45	1	87	790	0.001	87.00	0.11	1.000	0.99999
3231	1	2.47	1	148	211	0.005	148.00	0.70	1.000	0.99998
3302	1	2.48	1	149	968	0.001	149.00	0.15	1.000	0.99999
3303	3	2.89	46	2,418	1,789	0.026	52.57	1.35	1.022	0.99997
3313	3	4.72	38	3,153	1,404	0.027	82.97	2.25	1.056	0.99995
3315	2	4.33	65	13,072	1,596	0.041	201.11	8.19	1.016	0.99982
3422	5	28.70	418	260,023	989	0.423	622.06	262.92	1.048	0.99411
3423	3	2.69	3	161	396	0.008	53.67	0.41	1.500	0.99999
3471	2	1.41	3	141	485	0.006	47.00	0.29	1.000	0.99999
3472	3	5.53	5	606	1,304	0.004	121.20	0.46	1.000	0.99999
3551	2	13.19	30	7,712	1,047	0.029	257.07	7.37	1.000	0.99983
3552	1	1.55	7	651	579	0.012	93.00	1.12	1.000	0.99997
3553	4	9.23	47	2,352	873	0.054	50.04	2.69	1.068	0.99994
3591	3	3.25	23	941	1,419	0.016	40.91	0.66	1.000	0.99999
3592	2	4.70	31	4,935	1,741	0.018	159.19	2.83	1.000	0.99994
3621	9	15.02	300	35,659	1,578	0.190	118.86	22.60	1.042	0.99949
3661	5	4.25	105	5,784	1,061	0.099	55.09	5.45	1.019	0.99988
3662	4	5.60	25	1,615	845	0.030	64.60	1.91	1.042	0.99996
3663	1	2.72	1	163	307	0.003	163.00	0.53	1.000	0.99999
3664	4	1.97	23	911	575	0.040	39.61	1.58	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
3671	1	0.60	26	943	516	0.050	36.27	1.83	1.000	0.99996
3691	1	0.32	1	19	373	0.003	19.00	0.05	1.000	0.99999
3694	1	1.13	54	3,681	522	0.103	68.17	7.05	1.000	0.99984
3702	1	0.35	16	350	656	0.024	21.88	0.53	1.000	0.99999
3751	1	0.95	32	1,854	912	0.035	57.94	2.03	1.000	0.99995
3871	3	3.42	31	1,781	1,376	0.023	57.45	1.29	1.033	0.99997
3873	2	4.50	649	73,400	807	0.804	113.10	90.95	1.405	0.99796
3892	3	17.59	40	28,592	536	0.075	714.80	53.34	1.053	0.99881
3901	5	6.69	125	10,653	888	0.141	85.22	12.00	1.008	0.99973
3903	1	5.40	45	14,601	302	0.149	324.47	48.35	1.000	0.99892
3913	1	0.55	1	33	821	0.001	33.00	0.04	1.000	0.99999
3914	1	0.57	17	581	392	0.043	34.18	1.48	1.000	0.99997
3951	5	10.87	18	2,357	943	0.019	130.94	2.50	1.000	0.99994
3952	4	5.59	313	28,971	1,347	0.232	92.56	21.51	1.164	0.99952
3953	5	7.76	22	2,288	535	0.041	104.00	4.28	1.000	0.99990
3971	2	1.30	2	78	685	0.003	39.00	0.11	1.000	0.99999
3981	5	13.07	725	118,356	1,539	0.471	163.25	76.90	1.000	0.99828
3982	3	7.60	3,765	419,194	1,816	2.073	111.34	230.83	2.073	0.99483
3991	3	6.05	17	1,195	752	0.023	70.29	1.59	1.000	0.99996
4031	2	2.96	23	1,936	713	0.032	84.17	2.72	1.045	0.99994
4091	2	0.98	20	859	1,178	0.017	42.95	0.73	1.000	0.99998
4092	4	50.47	20	4,916	450	0.044	245.80	10.92	1.000	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
4101	7	13.25	71	9,610	971	0.073	135.35	9.90	1.000	0.99978
4102	3	10.47	19	5,533	542	0.035	291.21	10.21	1.000	0.99977
4134	2	4.30	30	4,030	1,258	0.024	134.33	3.20	1.034	0.99993
4136	1	1.57	10	949	672	0.015	94.90	1.41	1.000	0.99997
4141	1	2.12	1	127	83	0.012	127.00	1.53	1.000	0.99997
4142	2	2.27	50	3,883	614	0.081	77.66	6.32	1.020	0.99986
4153	4	8.05	11	969	1,003	0.011	88.09	0.97	1.100	0.99998
4171	2	2.30	67	4,990	1,174	0.057	74.48	4.25	1.000	0.99990
4172	2	4.30	13	1,882	1,792	0.007	144.77	1.05	1.000	0.99998
4173	1	0.88	50	2,665	684	0.073	53.30	3.90	1.000	0.99991
4182	2	3.25	24	1,535	773	0.031	63.96	1.99	1.000	0.99996
4222	6	13.98	252	45,872	1,063	0.237	182.03	43.15	1.086	0.99903
4223	2	2.17	45	2,987	1,087	0.041	66.38	2.75	1.000	0.99994
4224	2	6.54	20	3,819	765	0.026	190.95	4.99	1.053	0.99989
4302	2	6.05	79	16,213	660	0.120	205.23	24.57	1.013	0.99945
4332	1	1.23	1	74	330	0.003	74.00	0.22	1.000	0.99999
4341	4	3.00	68	2,948	1,806	0.038	43.35	1.63	1.015	0.99996
4342	1	0.22	1	13	516	0.002	13.00	0.03	1.000	0.99999
4343	4	4.74	82	6,172	1,672	0.049	75.27	3.69	1.079	0.99992
4361	6	9.82	1,889	79,777	1,751	1.079	42.23	45.56	1.079	0.99898
4362	1	2.87	1	172	834	0.001	172.00	0.21	1.000	0.99999
4363	3	10.13	28	10,508	1,505	0.019	375.29	6.98	1.000	0.99984

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4371	10	18.18	123	21,942	1,550	0.079	178.39	14.16	1.000	0.99968
4373	6	9.39	23	2,559	763	0.030	111.26	3.35	1.095	0.99992
4431	1	1.75	1	105	1,404	0.001	105.00	0.07	1.000	0.99999
4511	1	2.17	55	7,192	1,127	0.049	130.76	6.38	1.000	0.99986
4601	4	4.44	7	423	400	0.018	60.43	1.06	1.000	0.99998
4602	3	3.48	43	2,931	965	0.045	68.16	3.04	1.024	0.99993
4791	2	3.55	22	3,140	624	0.035	142.73	5.03	1.000	0.99989
4793	1	1.83	1	110	690	0.001	110.00	0.16	1.000	0.99999
4794	1	0.50	1	30	397	0.003	30.00	0.08	1.000	0.99999
5601	8	15.46	221	31,887	1,406	0.157	144.29	22.68	1.014	0.99949
5602	3	9.85	1,354	180,701	694	2.000	133.46	266.91	2.000	0.99402
5641	2	2.70	2	162	332	0.006	81.00	0.49	1.000	0.99999
5902	1	2.95	1	177	965	0.001	177.00	0.18	1.000	0.99999
5905	3	3.87	34	2,239	1,933	0.018	65.85	1.16	1.000	0.99997
6023	1	1.42	1	85	129	0.008	85.00	0.66	1.000	0.99999
6141	2	3.42	14	969	643	0.022	69.21	1.51	1.077	0.99997
6142	2	2.80	2	168	327	0.006	84.00	0.51	1.000	0.99999
NUMBER OF OUTAGES		OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	334	746.65	20,141	2,413,352	171,123	0.118	119.82	14.10	1.365	0.99968

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 6/1/2020 to 6/30/2020
 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	0.88	45	2,427	1,756	0.026	53.93	1.38	1.000	0.99997
1051	12	15.63	289	25,697	772	0.374	88.92	33.29	1.028	0.99923
1081	5	5.03	76	4,726	287	0.265	62.18	16.47	1.027	0.99962
1082	13	19.37	44	3,868	1,378	0.032	87.91	2.81	1.189	0.99994
1091	3	2.07	11	331	704	0.016	30.09	0.47	1.000	0.99999
1092	2	4.40	2	264	940	0.002	132.00	0.28	1.000	0.99999
1094	3	2.23	16	743	1,243	0.013	46.44	0.60	1.000	0.99999
1102	1	0.98	1	59	1,026	0.001	59.00	0.06	1.000	0.99999
1103	1	1.15	1	69	1,002	0.001	69.00	0.07	1.000	0.99999
1141	3	8.15	3	489	911	0.003	163.00	0.54	1.000	0.99999
1142	4	6.51	22	3,827	218	0.101	173.95	17.56	1.158	0.99959
1211	3	6.84	103	13,940	1,495	0.069	135.34	9.32	1.020	0.99978
1213	6	9.63	32	2,164	564	0.057	67.63	3.84	1.000	0.99991
1230	1	0.73	26	1,137	1,213	0.021	43.73	0.94	1.000	0.99998
1241	2	8.70	9	2,043	880	0.010	227.00	2.32	1.000	0.99995
1242	4	17.91	34	4,264	858	0.040	125.41	4.97	1.030	0.99988
1243	5	13.79	356	50,156	1,234	0.288	140.89	40.65	1.063	0.99906

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1263	5	11.47	100	12,899	1,216	0.082	128.99	10.61	1.000	0.99975
1265	2	4.93	68	15,782	1,308	0.052	232.09	12.07	1.000	0.99972
1271	4	5.64	8	731	977	0.008	91.38	0.75	1.000	0.99998
1273	2	8.32	16	1,299	870	0.018	81.19	1.49	1.000	0.99997
1282	7	53.06	69	14,044	695	0.099	203.54	20.21	1.000	0.99953
1312	1	0.53	7	226	963	0.007	32.29	0.23	1.000	0.99999
1451	4	9.76	58	3,246	545	0.106	55.97	5.96	1.000	0.99986
1452	3	4.53	4	306	456	0.009	76.50	0.67	1.333	0.99998
1453	2	1.90	31	1,997	1,814	0.017	64.42	1.10	1.033	0.99997
1454	2	2.80	50	2,441	942	0.053	48.82	2.59	1.020	0.99994
1521	1	2.15	1	129	382	0.003	129.00	0.34	1.000	0.99999
1523	1	2.20	1	132	751	0.001	132.00	0.18	1.000	0.99999
1843	2	2.07	2	124	1,099	0.002	62.00	0.11	1.000	0.99999
2051	1	1.30	1	78	207	0.005	78.00	0.38	1.000	0.99999
2091	7	21.74	705	146,308	897	0.786	207.53	163.11	1.031	0.99622
2092	3	3.25	64	4,219	945	0.068	65.92	4.46	1.000	0.99990
2171	1	1.53	1	92	582	0.002	92.00	0.16	1.000	0.99999
2172	1	1.15	9	624	242	0.037	69.33	2.58	1.000	0.99994
2211	3	3.98	17	715	736	0.023	42.06	0.97	1.000	0.99998
2212	1	1.00	1	60	1,337	0.001	60.00	0.04	1.000	0.99999
2621	5	26.88	75	31,435	1,196	0.063	419.13	26.28	1.389	0.99939
2951	5	8.85	536	75,598	1,234	0.434	141.04	61.26	1.081	0.99858

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3081	1	7.02	3	1,264	585	0.005	421.33	2.16	1.000	0.99995
3082	1	1.63	29	2,861	327	0.089	98.66	8.75	1.000	0.99980
3121	2	4.75	29	2,730	1,146	0.025	94.14	2.38	1.000	0.99994
3122	2	1.83	73	5,689	873	0.084	77.93	6.52	1.000	0.99985
3123	1	1.10	1	66	1,106	0.001	66.00	0.06	1.000	0.99999
3181	1	2.53	32	4,885	754	0.042	152.66	6.48	1.000	0.99985
3221	5	12.64	66	5,446	1,268	0.052	82.52	4.29	1.065	0.99990
3222	3	5.84	3	350	791	0.004	116.67	0.44	1.000	0.99999
3231	4	3.81	25	2,264	211	0.118	90.56	10.73	1.136	0.99975
3301	4	7.07	767	100,007	766	1.001	130.39	130.56	1.001	0.99698
3302	5	28.92	262	139,730	970	0.270	533.32	144.05	1.101	0.99667
3303	10	63.96	1,846	247,265	1,789	1.032	133.95	138.21	1.032	0.99680
3304	5	13.33	191	51,942	1,112	0.172	271.95	46.71	1.005	0.99892
3313	2	2.66	2	160	1,405	0.001	80.00	0.11	1.000	0.99999
3314	1	1.98	1	119	226	0.004	119.00	0.53	1.000	0.99999
3315	2	1.55	2	93	1,597	0.001	46.50	0.06	1.000	0.99999
3421	1	1.53	1	92	299	0.003	92.00	0.31	1.000	0.99999
3422	4	9.72	18	3,901	989	0.018	216.72	3.94	1.000	0.99991
3471	2	1.87	2	112	485	0.004	56.00	0.23	1.000	0.99999
3472	1	0.80	1	48	1,305	0.001	48.00	0.04	1.000	0.99999
3551	5	19.42	28	1,894	1,042	0.027	67.64	1.82	1.000	0.99996
3552	3	11.96	3	718	579	0.005	239.33	1.24	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
3553	6	21.98	96	16,090	877	0.109	167.60	18.35	1.103	0.99958
3591	3	4.56	25	1,533	1,419	0.018	61.32	1.08	1.000	0.99997
3592	4	12.50	22	8,217	1,741	0.013	373.50	4.72	1.000	0.99989
3621	2	1.82	78	3,935	1,578	0.049	50.45	2.49	1.000	0.99994
3661	7	8.92	72	5,115	1,061	0.068	71.04	4.82	1.043	0.99989
3662	3	6.83	49	5,500	845	0.058	112.24	6.51	1.000	0.99985
3663	1	0.73	2	89	307	0.007	44.50	0.29	1.000	0.99999
3664	2	2.58	2	155	575	0.003	77.50	0.27	1.000	0.99999
3672	1	1.42	1	85	137	0.007	85.00	0.62	1.000	0.99999
3693	2	1.17	22	624	181	0.122	28.36	3.45	1.000	0.99992
3694	1	1.67	1	100	522	0.002	100.00	0.19	1.000	0.99999
3702	2	2.68	23	2,500	656	0.035	108.70	3.81	1.000	0.99991
3751	2	6.43	69	13,478	913	0.076	195.33	14.76	1.015	0.99966
3872	3	9.80	6	2,071	1,088	0.006	345.17	1.90	1.000	0.99996
3873	1	1.82	31	3,395	807	0.038	109.52	4.21	1.000	0.99990
3891	1	0.27	1	16	446	0.002	16.00	0.04	1.000	0.99999
3892	2	4.70	2	282	536	0.004	141.00	0.53	1.000	0.99999
3893	4	4.81	37	3,937	1,160	0.032	106.41	3.39	1.088	0.99992
3901	2	1.86	46	3,256	888	0.052	70.78	3.67	1.000	0.99992
3903	1	2.07	1	124	301	0.003	124.00	0.41	1.000	0.99999
3914	1	0.75	11	495	392	0.028	45.00	1.26	1.000	0.99997
3951	6	6.98	8	559	943	0.008	69.88	0.59	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
3952	4	4.77	12	624	1,347	0.009	52.00	0.46	1.000	0.99999
3953	1	0.93	1	56	535	0.002	56.00	0.10	1.000	0.99999
3981	3	4.83	48	5,250	1,539	0.031	109.38	3.41	1.000	0.99992
3991	3	4.38	12	1,257	752	0.016	104.75	1.67	1.000	0.99996
3992	2	4.40	23	1,402	172	0.134	60.96	8.15	1.000	0.99981
4031	2	3.88	8	900	713	0.011	112.50	1.26	1.143	0.99997
4091	3	1.92	78	3,185	1,178	0.066	40.83	2.70	1.013	0.99994
4101	3	2.72	64	4,249	971	0.066	66.39	4.38	1.016	0.99990
4131	1	0.75	1	45	205	0.005	45.00	0.22	1.000	0.99999
4132	3	2.07	3	124	567	0.005	41.33	0.22	1.000	0.99999
4134	3	1.97	2,508	140,321	1,262	1.987	55.95	111.19	2.000	0.99743
4137	10	3.10	208	4,597	801	0.260	22.10	5.74	1.189	0.99987
4141	2	2.35	2	141	83	0.024	70.50	1.70	1.000	0.99996
4152	2	9.77	36	16,022	1,286	0.028	445.06	12.46	1.029	0.99971
4153	1	6.78	4	1,628	1,014	0.004	407.00	1.61	1.000	0.99996
4155	2	6.80	79	17,924	1,648	0.048	226.89	10.88	1.000	0.99975
4171	3	3.43	48	2,771	1,174	0.041	57.73	2.36	1.021	0.99995
4172	2	3.15	15	2,284	1,793	0.008	152.27	1.27	1.071	0.99997
4173	1	9.35	1	561	685	0.001	561.00	0.82	1.000	0.99998
4181	2	2.87	11	991	777	0.014	90.09	1.28	1.000	0.99997
4182	2	2.55	49	3,694	773	0.063	75.39	4.78	1.000	0.99989
4211	2	5.64	16	3,238	62	0.258	202.38	52.23	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
4223	5	12.56	61	9,771	1,087	0.056	160.18	8.99	1.017	0.99979
4224	1	2.02	19	2,307	765	0.025	121.42	3.02	1.000	0.99993
4301	1	0.73	30	1,340	110	0.273	44.67	12.18	1.000	0.99972
4303	1	0.45	20	544	1,220	0.016	27.20	0.45	1.000	0.99999
4311	1	0.77	31	1,443	875	0.035	46.55	1.65	1.000	0.99996
4312	1	0.92	14	778	884	0.016	55.57	0.88	1.000	0.99998
4324	1	1.40	22	1,852	653	0.034	84.18	2.84	1.000	0.99993
4331	1	0.20	1	12	327	0.003	12.00	0.04	1.000	0.99999
4341	16	32.96	167	18,165	1,810	0.092	108.77	10.04	1.144	0.99977
4343	10	62.62	286	88,000	1,672	0.171	307.69	52.63	1.409	0.99878
4361	13	24.58	4,057	363,778	1,751	2.328	89.78	209.00	2.328	0.99516
4362	3	2.35	899	17,349	834	1.078	19.30	20.80	1.078	0.99952
4363	6	4.96	3,248	110,195	1,505	2.158	33.93	73.22	2.160	0.99831
4371	4	23.27	85	25,209	1,550	0.055	296.58	16.26	1.024	0.99962
4372	1	1.48	1	89	430	0.002	89.00	0.21	1.000	0.99999
4373	5	24.13	201	19,213	763	0.263	95.59	25.18	1.092	0.99942
4431	5	6.10	316	24,841	1,404	0.225	78.61	17.69	1.064	0.99959
4511	1	0.78	38	1,789	1,127	0.034	47.08	1.59	1.000	0.99996
4602	2	3.19	67	4,168	965	0.069	62.21	4.32	1.015	0.99990
4712	1	3.62	1	217	125	0.008	217.00	1.74	1.000	0.99996
4714	2	3.31	2	199	340	0.006	99.50	0.59	1.000	0.99999
4791	2	2.94	44	3,882	624	0.071	88.23	6.22	1.100	0.99986

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
5601	6	6.78	106	7,210	1,407	0.075	68.02	5.12	1.000	0.99988
5602	1	1.00	712	43,408	712	1.000	60.97	60.97	1.000	0.99859
5603	3	6.00	232	24,092	1,295	0.179	103.84	18.60	1.000	0.99957
5901	1	0.93	9	505	811	0.011	56.11	0.62	1.000	0.99999
5902	6	17.41	152	36,141	965	0.158	237.77	37.45	1.000	0.99913
5904	4	3.16	128	6,346	1,277	0.100	49.58	4.97	1.000	0.99988
5905	1	0.37	15	335	1,933	0.008	22.33	0.17	1.000	0.99999
6021	1	0.77	10	463	1,348	0.007	46.30	0.34	1.000	0.99999
6023	1	3.03	1	182	129	0.008	182.00	1.41	1.000	0.99997
6024	1	0.72	35	1,506	395	0.089	43.03	3.81	1.000	0.99991
6141	5	32.78	643	245,046	643	1.000	381.10	381.10	2.624	0.99118
6142	2	11.08	11	2,853	327	0.034	259.36	8.72	1.000	0.99980
6143	5	13.49	404	16,646	376	1.074	41.20	44.27	1.074	0.99898
6144	2	10.13	9	3,881	327	0.028	431.22	11.87	1.000	0.99973
NUMBER OF OUTAGES		OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	433	1,026.71	22,188	2,366,900	171,213	0.130	106.67	13.82	1.439	0.99968

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 7/1/2020 to 7/31/2020
 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	6.39	119	7,049	1,756	0.068	59.24	4.01	1.000	0.99991
1051	1	1.13	1	68	773	0.001	68.00	0.09	1.000	0.99999
1081	2	2.30	40	2,932	287	0.139	73.30	10.22	1.000	0.99977
1082	2	6.37	18	4,513	1,378	0.013	250.72	3.28	1.000	0.99993
1084	1	1.12	5	337	5	1.000	67.40	67.40	1.000	0.99849
1093	1	1.83	62	6,876	238	0.261	110.90	28.89	1.000	0.99935
1094	5	4.28	52	2,613	1,243	0.042	50.25	2.10	1.000	0.99995
1102	2	3.99	35	3,855	1,026	0.034	110.14	3.76	1.000	0.99992
1103	2	6.85	9	1,951	1,002	0.009	216.78	1.95	1.000	0.99996
1141	1	0.62	1	37	911	0.001	37.00	0.04	1.000	0.99999
1142	4	3.85	10	561	218	0.046	56.10	2.57	1.000	0.99994
1211	3	5.65	3	339	1,496	0.002	113.00	0.23	1.000	0.99999
1213	2	1.82	9	596	564	0.016	66.22	1.06	1.125	0.99998
1233	1	1.08	110	7,151	647	0.170	65.01	11.05	1.000	0.99975
1241	2	3.10	14	1,544	880	0.016	110.29	1.75	1.077	0.99996
1242	1	1.43	21	1,817	857	0.025	86.52	2.12	1.000	0.99995
1261	1	3.02	1	181	403	0.002	181.00	0.45	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	1.78	34	3,644	1,216	0.028	107.18	3.00	1.000	0.99993
1265	4	11.46	61	14,411	1,308	0.047	236.25	11.02	1.034	0.99975
1271	6	15.02	290	45,369	978	0.297	156.44	46.39	1.098	0.99896
1273	1	1.47	1	88	870	0.001	88.00	0.10	1.000	0.99999
1282	3	5.65	80	11,668	695	0.115	145.85	16.79	1.000	0.99962
1283	1	3.18	229	43,686	349	0.656	190.77	125.17	1.000	0.99720
1284	1	3.18	1	191	966	0.001	191.00	0.20	1.000	0.99999
1285	5	60.95	1,171	350,673	1,120	1.046	299.46	313.10	1.046	0.99299
1452	1	3.92	1	235	456	0.002	235.00	0.52	1.000	0.99999
1453	6	10.97	47	4,948	1,814	0.026	105.28	2.73	1.044	0.99994
1454	2	2.31	943	69,945	942	1.001	74.17	74.25	1.001	0.99834
1521	3	4.03	41	3,869	382	0.107	94.37	10.13	1.025	0.99977
1523	3	5.84	36	2,150	751	0.048	59.72	2.86	1.059	0.99994
1841	1	7.80	1	468	552	0.002	468.00	0.85	1.000	0.99998
2091	2	3.78	2	227	897	0.002	113.50	0.25	1.000	0.99999
2092	1	1.80	1	108	944	0.001	108.00	0.11	1.000	0.99999
2171	5	5.05	35	2,562	582	0.060	73.20	4.40	1.029	0.99990
2212	5	6.05	34	2,831	1,339	0.025	83.26	2.11	1.030	0.99995
2511	2	3.28	27	3,433	621	0.043	127.15	5.53	1.000	0.99988
2621	6	14.11	1,276	133,113	1,196	1.067	104.32	111.30	1.196	0.99751
2921	1	5.82	1	349	388	0.003	349.00	0.90	1.000	0.99998
2961	2	9.37	42	13,117	651	0.065	312.31	20.15	1.000	0.99955

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3082	1	1.80	1	108	327	0.003	108.00	0.33	1.000	0.99999
3121	5	5.30	72	4,991	1,146	0.063	69.32	4.36	1.000	0.99990
3122	2	2.24	7	304	873	0.008	43.43	0.35	1.000	0.99999
3123	1	2.33	1	140	1,106	0.001	140.00	0.13	1.000	0.99999
3221	1	3.03	1,267	231,417	1,268	0.999	182.65	182.51	1.000	0.99591
3222	1	3.87	1	232	791	0.001	232.00	0.29	1.000	0.99999
3231	1	1.00	1	60	210	0.005	60.00	0.29	1.000	0.99999
3301	1	0.47	1	28	766	0.001	28.00	0.04	1.000	0.99999
3302	1	1.90	1	114	970	0.001	114.00	0.12	1.000	0.99999
3303	1	0.42	1	25	1,789	0.001	25.00	0.01	1.000	0.99999
3304	1	0.88	1	53	1,112	0.001	53.00	0.05	1.000	0.99999
3314	3	1.87	27	1,683	226	0.119	62.33	7.45	1.000	0.99983
3315	1	0.73	24	1,069	1,597	0.015	44.54	0.67	1.000	0.99999
3421	3	4.35	301	15,598	299	1.007	51.82	52.17	1.007	0.99883
3422	3	2.59	8	586	989	0.008	73.25	0.59	1.000	0.99999
3423	2	1.15	25	1,206	396	0.063	48.24	3.05	1.042	0.99993
3471	1	3.10	1	186	486	0.002	186.00	0.38	1.000	0.99999
3472	5	6.10	61	5,790	1,305	0.047	94.92	4.44	1.052	0.99990
3551	1	2.12	9	1,151	1,042	0.009	127.89	1.10	1.000	0.99998
3552	1	1.00	106	6,448	579	0.183	60.83	11.14	1.000	0.99975
3553	1	2.70	1	162	877	0.001	162.00	0.18	1.000	0.99999
3591	1	5.07	1	304	1,426	0.001	304.00	0.21	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
3593	1	1.05	42	2,671	943	0.045	63.60	2.83	1.000	0.99994
3594	3	7.80	798	68,642	774	1.031	86.02	88.68	1.031	0.99801
3661	6	7.15	240	17,536	1,062	0.226	73.07	16.51	1.013	0.99963
3662	1	1.37	1	82	856	0.001	82.00	0.10	1.000	0.99999
3664	2	2.65	2	159	575	0.003	79.50	0.28	2.000	0.99999
3673	1	0.43	1	26	273	0.004	26.00	0.10	1.000	0.99999
3692	1	1.10	1	66	415	0.002	66.00	0.16	1.000	0.99999
3751	2	3.80	36	5,861	913	0.039	162.81	6.42	1.029	0.99986
3873	2	8.03	143	14,535	807	0.177	101.64	18.01	1.007	0.99960
3878	1	0.60	24	880	817	0.029	36.67	1.08	1.000	0.99998
3891	2	3.16	2	190	446	0.004	95.00	0.43	1.000	0.99999
3892	1	1.42	1	85	536	0.002	85.00	0.16	1.000	0.99999
3893	3	6.72	38	4,042	1,160	0.033	106.37	3.48	1.027	0.99992
3901	3	3.69	9	865	888	0.010	96.11	0.97	1.125	0.99998
3912	6	11.99	368	36,123	1,278	0.288	98.16	28.27	1.086	0.99937
3913	1	0.75	1	45	822	0.001	45.00	0.05	1.000	0.99999
3914	1	3.35	1	201	392	0.003	201.00	0.51	1.000	0.99999
3951	5	5.40	48	4,265	944	0.051	88.85	4.52	1.000	0.99990
3952	3	3.63	20	812	1,347	0.015	40.60	0.60	1.000	0.99999
3971	3	2.46	688	24,956	686	1.003	36.27	36.38	1.003	0.99919
3981	4	7.22	4	433	1,540	0.003	108.25	0.28	1.333	0.99999
3991	4	7.34	50	5,148	752	0.066	102.96	6.85	1.042	0.99985

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3992	1	1.12	1	67	172	0.006	67.00	0.39	1.000	0.99999
4031	2	3.33	12	714	713	0.017	59.50	1.00	1.000	0.99998
4091	1	0.72	6	262	1,178	0.005	43.67	0.22	1.000	0.99999
4101	5	15.43	21	4,308	972	0.022	205.14	4.43	1.050	0.99990
4132	1	2.15	1	129	567	0.002	129.00	0.23	1.000	0.99999
4134	6	6.83	6	409	1,262	0.005	68.17	0.32	1.000	0.99999
4141	1	0.88	1	53	83	0.012	53.00	0.64	1.000	0.99999
4142	3	3.37	43	3,111	614	0.070	72.35	5.07	1.024	0.99989
4152	3	7.10	51	6,147	1,286	0.040	120.53	4.78	1.000	0.99989
4153	2	2.65	59	3,020	1,014	0.058	51.19	2.98	1.035	0.99993
4154	1	2.43	1	146	1,341	0.001	146.00	0.11	1.000	0.99999
4171	5	5.32	338	27,512	1,178	0.287	81.40	23.35	1.076	0.99948
4172	3	11.26	41	13,156	1,798	0.023	320.88	7.32	1.000	0.99984
4182	3	5.45	3	327	773	0.004	109.00	0.42	1.000	0.99999
4211	1	1.25	1	75	62	0.016	75.00	1.21	1.000	0.99997
4222	3	13.08	165	11,798	1,064	0.155	71.50	11.09	1.006	0.99975
4223	2	2.00	27	614	1,094	0.025	22.74	0.56	1.000	0.99999
4224	4	14.20	23	4,303	765	0.030	187.09	5.62	1.045	0.99987
4301	1	0.80	6	291	110	0.055	48.50	2.65	1.000	0.99994
4303	1	1.93	1	116	1,223	0.001	116.00	0.09	1.000	0.99999
4331	2	1.53	3	179	327	0.009	59.67	0.55	1.000	0.99999
4332	1	0.95	1	57	330	0.003	57.00	0.17	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	2	4.30	92	9,577	1,810	0.051	104.10	5.29	1.000	0.99988
4342	1	0.37	1	22	516	0.002	22.00	0.04	1.000	0.99999
4343	3	2.14	32	1,802	1,672	0.019	56.31	1.08	1.032	0.99998
4361	5	5.27	50	2,317	1,309	0.038	46.34	1.77	1.042	0.99996
4362	4	6.25	27	2,145	834	0.032	79.44	2.57	1.000	0.99994
4363	5	10.60	404	42,258	1,505	0.268	104.60	28.08	1.028	0.99937
4372	5	4.40	5	264	424	0.012	52.80	0.62	2.500	0.99999
4373	3	7.92	3	475	763	0.004	158.33	0.62	1.000	0.99999
4385	3	7.60	76	10,806	1,152	0.066	142.18	9.38	1.854	0.99979
4512	1	0.92	1	55	1,082	0.001	55.00	0.05	1.000	0.99999
4601	1	2.47	400	59,566	400	1.000	148.92	148.92	1.000	0.99666
4602	1	2.50	965	145,409	965	1.000	150.68	150.68	1.000	0.99662
4692	4	6.36	489	56,156	486	1.006	114.84	115.55	1.006	0.99741
4693	1	1.85	164	18,204	164	1.000	111.00	111.00	1.000	0.99751
4714	2	1.70	11	566	340	0.032	51.45	1.66	1.000	0.99996
4791	1	0.83	1	50	624	0.002	50.00	0.08	1.000	0.99999
5601	12	19.04	51	3,635	1,407	0.036	71.27	2.58	1.000	0.99994
5602	2	9.73	713	216,574	712	1.001	303.75	304.18	1.001	0.99319
5603	2	13.84	59	24,269	1,295	0.046	411.34	18.74	1.000	0.99958
5901	1	2.37	9	1,190	811	0.011	132.22	1.47	1.000	0.99997
5902	2	9.14	15	4,377	965	0.016	291.80	4.54	1.000	0.99990
5904	1	0.87	1	52	1,278	0.001	52.00	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
5905	4	8.97	63	8,252	1,933	0.033	130.98	4.27	1.068	0.99990
6021	1	0.97	3	176	1,350	0.002	58.67	0.13	1.000	0.99999
6024	2	3.15	179	14,938	396	0.452	83.45	37.72	1.041	0.99915
6141	1	4.78	173	49,650	643	0.269	286.99	77.22	1.000	0.99827
6142	3	7.20	16	2,032	326	0.049	127.00	6.23	1.000	0.99986
6144	2	1.03	2	62	327	0.006	31.00	0.19	1.000	0.99999
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	318	637.12	14,116	1,960,456	171,305	0.082	138.88	11.44	1.054	0.99974

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
8/1/2020 to 8/31/2020
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
1051	2	3.30	12	1,216	774	0.016	101.33	1.57	1.000	0.99996
1052	1	0.40	1	24	1,172	0.001	24.00	0.02	1.000	0.99999
1081	1	2.48	76	11,327	287	0.265	149.04	39.47	1.000	0.99912
1082	7	9.98	37	4,445	1,378	0.027	120.14	3.23	1.000	0.99993
1091	6	12.60	75	4,789	705	0.106	63.85	6.79	1.014	0.99985
1092	2	2.85	956	105,559	940	1.017	110.42	112.30	1.031	0.99748
1101	2	1.25	28	1,058	166	0.169	37.79	6.37	1.000	0.99986
1102	1	0.83	15	725	1,026	0.015	48.33	0.71	1.000	0.99998
1103	1	0.82	1	49	1,002	0.001	49.00	0.05	1.000	0.99999
1142	1	5.52	1	331	218	0.005	331.00	1.52	1.000	0.99997
1211	1	0.77	15	703	1,496	0.010	46.87	0.47	1.000	0.99999
1212	2	2.41	2	145	340	0.006	72.50	0.43	1.000	0.99999
1213	1	0.42	564	14,147	564	1.000	25.08	25.08	1.000	0.99944
1233	3	3.03	3	182	647	0.005	60.67	0.28	1.000	0.99999
1242	5	6.47	62	5,101	856	0.072	82.27	5.96	1.000	0.99987
1263	1	2.75	1	165	1,217	0.001	165.00	0.14	1.000	0.99999
1265	1	1.73	1	104	1,308	0.001	104.00	0.08	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
1271	27	10.49	445	11,138	978	0.455	25.03	11.39	1.040	0.99974
1282	2	2.51	12	1,006	695	0.017	83.83	1.45	1.000	0.99997
1285	1	0.78	1	47	1,121	0.001	47.00	0.04	1.000	0.99999
1312	2	2.50	5	290	964	0.005	58.00	0.30	1.000	0.99999
1451	2	2.33	30	2,343	545	0.055	78.10	4.30	1.034	0.99990
1453	4	5.82	69	4,344	1,814	0.038	62.96	2.39	1.000	0.99995
1454	2	1.50	50	2,238	942	0.053	44.76	2.38	1.020	0.99995
1455	1	1.32	25	1,978	412	0.061	79.12	4.80	1.000	0.99989
1521	1	0.67	25	1,008	382	0.065	40.32	2.64	1.000	0.99994
1522	1	1.22	1	73	105	0.010	73.00	0.70	1.000	0.99998
1523	1	0.90	1	54	751	0.001	54.00	0.07	1.000	0.99999
1843	2	3.53	6	657	1,099	0.005	109.50	0.60	1.000	0.99999
2091	1	0.97	1	58	897	0.001	58.00	0.06	1.000	0.99999
2092	1	5.12	1	307	944	0.001	307.00	0.33	1.000	0.99999
2171	2	2.73	66	5,427	582	0.113	82.23	9.32	1.000	0.99979
2212	5	7.29	27	2,924	1,341	0.020	108.30	2.18	1.038	0.99995
2511	3	10.31	623	82,800	621	1.003	132.91	133.33	1.003	0.99701
2621	1	1.48	1	89	1,196	0.001	89.00	0.07	1.000	0.99999
2951	1	0.87	12	627	1,234	0.010	52.25	0.51	1.000	0.99999
2961	1	1.50	70	6,336	651	0.108	90.51	9.73	1.000	0.99978
3081	1	4.40	1	264	585	0.002	264.00	0.45	1.000	0.99999
3082	1	1.08	1	65	327	0.003	65.00	0.20	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
3123	2	2.71	8	481	1,106	0.007	60.13	0.43	1.000	0.99999
3221	1	1.42	47	4,002	1,268	0.037	85.15	3.16	1.000	0.99993
3231	1	1.18	14	999	210	0.067	71.36	4.76	1.000	0.99989
3301	1	0.92	1	55	766	0.001	55.00	0.07	1.000	0.99999
3303	1	1.55	68	6,324	1,789	0.038	93.00	3.53	1.000	0.99992
3314	2	1.55	31	1,260	226	0.137	40.65	5.58	1.000	0.99988
3315	1	1.02	14	855	1,597	0.009	61.07	0.54	1.000	0.99999
3422	2	2.53	2	152	989	0.002	76.00	0.15	1.000	0.99999
3471	1	1.10	1	66	486	0.002	66.00	0.14	1.000	0.99999
3472	3	6.77	31	5,822	1,305	0.024	187.81	4.46	1.069	0.99990
3552	2	2.93	9	1,170	579	0.016	130.00	2.02	1.125	0.99995
3553	1	1.57	64	6,050	877	0.073	94.53	6.90	1.000	0.99985
3591	3	11.14	9	1,104	1,434	0.006	122.67	0.77	1.000	0.99998
3592	2	3.17	53	5,107	1,742	0.030	96.36	2.93	1.000	0.99993
3594	2	10.50	24	5,642	774	0.031	235.08	7.29	1.000	0.99984
3621	3	8.92	244	78,392	1,579	0.155	321.28	49.65	1.034	0.99889
3661	3	3.02	14	860	1,064	0.013	61.43	0.81	1.167	0.99998
3662	2	1.98	2	119	867	0.002	59.50	0.14	1.000	0.99999
3663	1	1.23	1	74	308	0.003	74.00	0.24	1.000	0.99999
3664	3	8.89	10	1,031	575	0.017	103.10	1.79	1.000	0.99996
3691	1	0.48	1	29	373	0.003	29.00	0.08	1.000	0.99999
3701	1	2.85	1	171	526	0.002	171.00	0.33	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	2	4.10	914	98,332	913	1.001	107.58	107.70	1.001	0.99759
3871	1	1.27	21	1,615	1,378	0.015	76.90	1.17	1.000	0.99997
3873	6	7.96	134	13,611	807	0.166	101.57	16.87	1.031	0.99962
3893	1	2.47	1	148	1,160	0.001	148.00	0.13	1.000	0.99999
3901	3	2.02	109	5,841	888	0.123	53.59	6.58	1.079	0.99985
3912	3	2.21	28	1,686	1,278	0.022	60.21	1.32	1.077	0.99997
3913	3	8.55	14	4,606	822	0.017	329.00	5.60	1.000	0.99987
3914	1	1.27	2	153	392	0.005	76.50	0.39	1.000	0.99999
3952	1	28.48	11	18,801	1,347	0.008	1709.18	13.96	1.000	0.99969
3953	1	3.33	1	200	537	0.002	200.00	0.37	1.000	0.99999
3981	4	11.83	15	2,872	1,541	0.010	191.47	1.86	1.000	0.99996
3991	1	0.53	1	32	752	0.001	32.00	0.04	1.000	0.99999
4031	3	7.64	713	37,943	713	1.000	53.22	53.22	1.055	0.99881
4091	2	8.54	80	6,943	1,178	0.068	86.79	5.89	1.013	0.99987
4092	1	5.53	1	332	450	0.002	332.00	0.74	1.000	0.99998
4101	3	9.82	83	19,456	972	0.085	234.41	20.02	1.012	0.99955
4102	2	4.01	9	697	542	0.017	77.44	1.29	1.125	0.99997
4137	7	5.71	865	22,041	801	1.080	25.48	27.52	1.080	0.99938
4142	1	1.25	6	451	613	0.010	75.17	0.74	1.000	0.99998
4153	1	0.92	1	55	1,014	0.001	55.00	0.05	1.000	0.99999
4171	2	1.62	13	568	1,181	0.011	43.69	0.48	1.083	0.99999
4172	1	0.82	1	49	1,804	0.001	49.00	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
4182	1	3.27	1	196	773	0.001	196.00	0.25	1.000	0.99999
4211	2	2.52	6	495	62	0.097	82.50	7.98	1.000	0.99982
4222	5	5.58	13	898	1,064	0.012	69.08	0.84	1.083	0.99998
4224	3	4.00	95	7,097	765	0.124	74.71	9.28	1.033	0.99979
4302	1	0.75	1	45	660	0.002	45.00	0.07	1.000	0.99999
4303	2	3.34	58	8,674	1,226	0.047	149.55	7.08	1.000	0.99984
4313	1	1.15	1	69	549	0.002	69.00	0.13	1.000	0.99999
4341	4	5.86	76	6,915	1,810	0.042	90.99	3.82	1.027	0.99991
4343	2	1.70	107	7,597	1,672	0.064	71.00	4.54	1.000	0.99990
4363	2	2.72	5	499	1,505	0.003	99.80	0.33	1.000	0.99999
4372	1	1.87	1	112	419	0.002	112.00	0.27	1.000	0.99999
4373	4	7.35	570	77,889	763	0.747	136.65	102.08	1.004	0.99771
4431	1	1.22	1	73	1,404	0.001	73.00	0.05	1.000	0.99999
457	1	6.10	1	366	179	0.006	366.00	2.04	1.000	0.99995
4601	1	1.63	29	2,866	400	0.073	98.83	7.17	1.000	0.99984
4602	2	6.35	2	381	965	0.002	190.50	0.39	1.000	0.99999
4692	7	14.39	54	4,458	486	0.111	82.56	9.17	1.038	0.99979
4714	3	4.93	3	296	340	0.009	98.67	0.87	1.500	0.99998
4791	4	5.54	4	333	624	0.006	83.25	0.53	1.000	0.99999
4794	1	0.72	24	1,054	398	0.060	43.92	2.65	1.000	0.99994
5601	3	7.87	16	1,795	1,407	0.011	112.19	1.28	1.000	0.99997
5602	3	3.15	3	189	711	0.004	63.00	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
5603	3	7.77	1,296	176,702	1,295	1.001	136.34	136.45	1.118	0.99694
5641	1	0.93	1	56	341	0.003	56.00	0.16	1.000	0.99999
5901	3	2.20	3	132	811	0.004	44.00	0.16	1.000	0.99999
5904	1	0.67	20	814	1,278	0.016	40.70	0.64	1.000	0.99999
5905	1	1.47	1	88	1,933	0.001	88.00	0.05	1.000	0.99999
6021	1	2.20	6	796	1,353	0.004	132.67	0.59	1.000	0.99999
6022	1	1.20	1	72	538	0.002	72.00	0.13	1.000	0.99999
6141	7	22.36	659	141,098	643	1.025	214.11	219.44	1.025	0.99508
6142	3	20.27	135	74,148	326	0.414	549.24	227.45	1.007	0.99490
6143	1	3.27	375	73,862	375	1.000	196.97	196.97	1.000	0.99559
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	266	478.59	10,563	1,220,405	171,395	0.062	115.54	7.12	1.069	0.99984

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 9/1/2020 to 9/30/2020
 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	5	7.74	77	8,010	1,756	0.044	104.03	4.56	1.000	0.99989
1052	1	0.93	1	56	1,172	0.001	56.00	0.05	1.000	0.99999
1081	1	0.85	1	51	287	0.003	51.00	0.18	1.000	0.99999
1082	7	11.74	22	2,088	1,378	0.016	94.91	1.52	1.100	0.99996
1091	3	4.62	51	2,468	708	0.072	48.39	3.49	1.020	0.99992
1094	1	0.67	2	81	1,244	0.002	40.50	0.07	1.000	0.99999
1101	1	3.83	8	1,842	166	0.048	230.25	11.10	1.000	0.99974
1102	1	0.63	30	1,150	1,028	0.029	38.33	1.12	1.000	0.99997
1103	2	2.33	26	1,968	1,002	0.026	75.69	1.96	1.040	0.99995
1141	1	2.13	44	5,667	911	0.048	128.80	6.22	1.000	0.99986
1142	2	1.94	2	116	218	0.009	58.00	0.53	1.000	0.99999
1211	2	1.85	12	686	1,496	0.008	57.17	0.46	1.000	0.99999
1230	1	3.40	44	9,010	1,214	0.036	204.77	7.42	1.000	0.99983
1233	1	0.82	52	2,548	647	0.080	49.00	3.94	1.000	0.99991
1241	1	1.57	104	9,810	880	0.118	94.33	11.15	1.000	0.99974
1242	1	0.40	14	349	856	0.016	24.93	0.41	1.000	0.99999
1262	1	4.45	9	2,403	167	0.054	267.00	14.39	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
1271	7	7.10	66	4,549	978	0.067	68.92	4.65	1.000	0.99989
1273	1	0.90	1	54	870	0.001	54.00	0.06	1.000	0.99999
1281	1	0.80	1	48	169	0.006	48.00	0.28	1.000	0.99999
1283	1	0.93	1	56	349	0.003	56.00	0.16	1.000	0.99999
1312	1	1.20	1	72	963	0.001	72.00	0.07	1.000	0.99999
1452	3	2.36	36	1,501	458	0.079	41.69	3.28	1.029	0.99992
1453	1	0.45	11	299	1,814	0.006	27.18	0.16	1.000	0.99999
1521	2	1.92	26	1,672	382	0.068	64.31	4.38	1.000	0.99990
1523	3	3.54	806	77,665	752	1.072	96.36	103.28	1.073	0.99761
1841	1	0.53	1	32	552	0.002	32.00	0.06	1.000	0.99999
2211	1	1.17	31	2,178	736	0.042	70.26	2.96	1.000	0.99993
2212	7	6.85	192	10,105	1,341	0.143	52.63	7.54	1.085	0.99983
2921	2	2.51	4	312	388	0.010	78.00	0.80	1.000	0.99998
2951	3	3.47	29	2,377	1,234	0.024	81.97	1.93	1.036	0.99996
2952	1	5.53	41	13,644	371	0.111	332.78	36.78	1.000	0.99915
2961	3	14.95	80	36,649	651	0.123	458.11	56.30	1.000	0.99870
3121	4	4.15	141	10,083	1,146	0.123	71.51	8.80	1.029	0.99980
3122	1	1.55	18	1,677	873	0.021	93.17	1.92	1.000	0.99996
3221	2	4.19	12	1,614	1,268	0.009	134.50	1.27	1.000	0.99997
3222	1	0.80	1	48	791	0.001	48.00	0.06	1.000	0.99999
3232	1	4.05	4	974	441	0.009	243.50	2.21	1.000	0.99995
3303	2	4.02	9	1,114	1,788	0.005	123.78	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
3304	2	2.07	39	2,713	1,112	0.035	69.56	2.44	1.054	0.99994
3314	1	0.87	2	105	226	0.009	52.50	0.46	1.000	0.99999
3315	3	3.57	16	672	1,598	0.010	42.00	0.42	1.067	0.99999
3422	6	7.99	61	5,429	990	0.062	89.00	5.48	1.173	0.99987
3471	1	4.43	1	266	486	0.002	266.00	0.55	1.000	0.99999
3552	1	0.93	1	56	580	0.002	56.00	0.10	1.000	0.99999
3591	2	2.27	42	2,915	1,432	0.029	69.40	2.04	1.000	0.99995
3592	1	0.78	1	47	1,742	0.001	47.00	0.03	1.000	0.99999
3593	2	2.36	187	15,362	943	0.198	82.15	16.29	1.000	0.99962
3594	1	1.18	11	789	776	0.014	71.73	1.02	1.000	0.99998
3621	1	0.97	7	409	1,579	0.004	58.43	0.26	1.000	0.99999
3661	1	0.63	1	38	1,064	0.001	38.00	0.04	1.000	0.99999
3664	2	2.53	2	152	576	0.003	76.00	0.26	1.000	0.99999
3675	1	1.85	1	111	420	0.002	111.00	0.26	1.000	0.99999
3694	1	1.20	1	72	522	0.002	72.00	0.14	1.000	0.99999
3702	1	0.92	1	55	656	0.002	55.00	0.08	1.000	0.99999
3871	1	1.35	1	81	1,378	0.001	81.00	0.06	1.000	0.99999
3872	4	9.76	51	3,327	1,088	0.047	65.24	3.06	1.000	0.99993
3892	2	12.00	538	276,822	536	1.004	514.54	516.46	1.004	0.98804
3893	5	11.31	33	5,215	1,160	0.028	158.03	4.50	1.065	0.99990
3901	1	1.15	1	69	888	0.001	69.00	0.08	1.000	0.99999
3912	3	1.88	3	113	1,289	0.002	37.67	0.09	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
3913	1	7.57	23	10,450	822	0.028	454.35	12.71	1.000	0.99971
3914	1	0.52	33	1,038	392	0.084	31.45	2.65	1.000	0.99994
3951	3	5.03	100	10,399	944	0.106	103.99	11.02	1.010	0.99975
3952	5	5.72	57	3,899	1,348	0.042	68.40	2.89	1.018	0.99993
3953	1	4.78	3	862	538	0.006	287.33	1.60	1.000	0.99996
3981	1	0.73	26	1,166	1,542	0.017	44.85	0.76	1.000	0.99998
4031	1	3.07	1	184	713	0.001	184.00	0.26	1.000	0.99999
4102	1	0.32	1	19	540	0.002	19.00	0.04	1.000	0.99999
4133	1	2.53	1	152	278	0.004	152.00	0.55	1.000	0.99999
4134	1	0.98	1	59	1,263	0.001	59.00	0.05	1.000	0.99999
4137	1	1.00	4	241	801	0.005	60.25	0.30	1.000	0.99999
4142	1	3.02	613	111,044	613	1.000	181.15	181.15	1.000	0.99581
4151	1	1.48	10	892	172	0.058	89.20	5.19	1.000	0.99988
4152	1	1.00	16	963	1,286	0.012	60.19	0.75	1.000	0.99998
4153	1	2.07	34	4,234	1,014	0.034	124.53	4.18	1.000	0.99990
4154	1	0.95	17	977	1,341	0.013	57.47	0.73	1.000	0.99998
4171	4	4.94	81	6,422	1,182	0.069	79.28	5.43	1.013	0.99987
4211	3	3.62	3	217	700	0.019	68.98	1.31	1.000	0.99997
4212	3	2.75	7	394	824	0.008	56.29	0.48	1.000	0.99999
4222	3	3.58	1,068	72,771	1,066	1.002	68.14	68.27	1.008	0.99842
4224	1	0.55	61	2,024	765	0.080	33.18	2.65	1.000	0.99994
4303	1	1.78	1	107	1,240	0.001	107.00	0.09	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
4311	2	0.64	214	7,377	881	0.243	34.47	8.37	1.005	0.99981
4332	1	1.22	330	24,095	330	1.000	73.02	73.02	1.000	0.99831
4341	3	3.70	16	863	1,811	0.009	53.94	0.48	1.143	0.99999
4342	1	0.55	1	33	676	0.001	33.00	0.05	1.000	0.99999
4343	2	4.53	79	17,640	1,672	0.047	223.29	10.55	1.013	0.99976
4362	2	4.13	2	248	834	0.002	124.00	0.30	1.000	0.99999
4363	1	0.67	18	731	1,506	0.012	40.61	0.49	1.000	0.99999
4372	1	1.42	1	85	419	0.002	85.00	0.20	1.000	0.99999
4373	1	0.60	1	36	763	0.001	36.00	0.05	1.000	0.99999
4431	3	6.60	3	396	1,404	0.002	132.00	0.28	1.500	0.99999
4432	1	3.17	1	190	475	0.002	190.00	0.40	1.000	0.99999
4475	2	5.82	2	349	14	0.143	174.50	24.93	1.000	0.99942
4602	1	0.82	13	637	965	0.013	49.00	0.66	1.000	0.99998
4712	2	10.23	22	6,770	125	0.176	307.73	54.16	1.100	0.99875
4714	1	0.48	1	29	341	0.003	29.00	0.09	1.000	0.99999
4793	1	1.28	35	2,698	730	0.048	77.09	3.70	1.000	0.99991
4794	1	1.53	66	6,086	398	0.166	92.21	15.29	1.000	0.99965
5601	6	12.98	138	20,174	1,407	0.098	146.19	14.34	1.000	0.99967
5902	1	1.92	1	115	965	0.001	115.00	0.12	1.000	0.99999
5904	1	0.83	36	1,802	1,278	0.028	50.06	1.41	1.000	0.99997
5905	7	8.10	20	1,364	1,934	0.010	68.20	0.71	1.053	0.99998
6021	3	3.32	21	1,100	1,354	0.016	52.38	0.81	1.105	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
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	205	327.40	6,194	851,176	171,483	0.036	137.42	4.96	1.016	0.99989

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 10/1/2020 to 10/31/2020
 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	1.33	45	3,622	1,756	0.026	80.49	2.06	1.000	0.99995
1051	1	0.92	1	55	775	0.001	55.00	0.07	1.000	0.99999
1052	1	0.98	103	6,080	1,173	0.088	59.03	5.18	1.000	0.99988
1082	4	5.11	4	307	1,378	0.003	76.75	0.22	1.333	0.99999
1091	1	2.03	19	2,334	711	0.027	122.84	3.28	1.000	0.99993
1092	4	10.66	4	640	940	0.004	160.00	0.68	1.000	0.99998
1094	3	9.55	44	5,257	1,244	0.035	119.48	4.23	1.000	0.99991
1101	1	0.72	1	43	166	0.006	43.00	0.26	1.000	0.99999
1102	3	2.82	1,155	44,134	1,146	1.008	38.21	38.51	1.008	0.99914
1103	3	4.86	181	16,018	1,002	0.181	88.50	15.99	1.006	0.99964
1211	4	3.68	28	1,473	1,496	0.019	52.61	0.98	1.000	0.99998
1212	1	4.37	75	19,655	340	0.221	262.07	57.81	1.000	0.99870
1232	2	3.37	11	1,263	1,203	0.009	114.82	1.05	1.100	0.99998
1233	1	3.78	1	227	647	0.002	227.00	0.35	1.000	0.99999
1241	1	1.35	10	811	880	0.011	81.10	0.92	1.000	0.99998
1242	1	1.32	1	79	856	0.001	79.00	0.09	1.000	0.99999
1243	2	1.52	211	10,256	1,235	0.171	48.61	8.30	1.029	0.99981

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	1.17	27	1,897	1,217	0.022	70.26	1.56	1.000	0.99997
1271	11	18.75	74	9,899	979	0.076	133.77	10.11	1.028	0.99977
1273	4	4.13	16	781	870	0.018	48.81	0.90	2.286	0.99998
1282	1	0.90	111	6,053	696	0.159	54.53	8.70	1.000	0.99981
1284	3	2.57	147	7,162	966	0.152	48.72	7.41	1.007	0.99983
1311	2	1.04	2	62	281	0.007	31.00	0.22	1.000	0.99999
1312	7	7.06	26	3,742	962	0.027	143.92	3.89	1.000	0.99991
1451	2	2.30	8	556	546	0.015	69.50	1.02	1.000	0.99998
1453	3	3.70	67	4,908	1,815	0.037	73.25	2.70	1.015	0.99994
1454	1	0.87	49	2,590	943	0.052	52.86	2.75	1.000	0.99994
1455	1	1.35	25	2,036	413	0.061	81.44	4.93	1.000	0.99989
1521	3	5.89	174	24,928	382	0.455	143.26	65.26	1.055	0.99854
1523	1	1.60	1	96	752	0.001	96.00	0.13	1.000	0.99999
1843	3	2.71	3	163	1,101	0.003	54.33	0.15	1.000	0.99999
2051	1	1.13	1	68	207	0.005	68.00	0.33	1.000	0.99999
2091	1	1.40	1	84	898	0.001	84.00	0.09	1.000	0.99999
2171	1	1.73	12	1,254	582	0.021	104.50	2.15	1.000	0.99995
2172	1	2.00	1	120	243	0.004	120.00	0.49	1.000	0.99999
2211	2	2.50	2	150	736	0.003	75.00	0.20	1.000	0.99999
2212	2	2.97	1,342	109,634	1,341	1.001	81.69	81.76	1.001	0.99817
2621	3	8.26	24	4,041	1,197	0.020	168.38	3.38	1.000	0.99992
2921	2	1.73	2	104	389	0.005	52.00	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
2951	3	5.07	52	6,213	1,234	0.042	119.48	5.03	1.020	0.99989
2961	2	5.73	25	6,545	651	0.038	261.80	10.05	1.000	0.99977
2962	1	2.38	1	143	262	0.004	143.00	0.55	1.000	0.99999
3081	1	0.77	585	27,221	585	1.000	46.53	46.53	1.000	0.99896
3121	3	3.24	4	264	1,146	0.003	66.00	0.23	1.000	0.99999
3122	1	0.77	167	7,837	873	0.191	46.93	8.98	1.000	0.99980
3181	1	1.43	1	86	755	0.001	86.00	0.11	1.000	0.99999
3221	4	5.76	107	9,010	1,268	0.084	84.21	7.11	1.019	0.99984
3222	1	0.22	1	13	791	0.001	13.00	0.02	1.000	0.99999
3303	5	4.34	72	3,320	1,787	0.040	46.11	1.86	1.059	0.99996
3304	2	2.38	35	2,846	1,112	0.031	81.31	2.56	1.000	0.99994
3315	3	5.98	54	2,036	1,598	0.034	37.70	1.27	1.038	0.99997
3471	3	1.55	3	93	486	0.006	31.00	0.19	1.000	0.99999
3472	12	7.46	31	908	1,305	0.024	29.29	0.70	1.069	0.99998
3551	1	0.65	1	39	1,042	0.001	39.00	0.04	1.000	0.99999
3553	2	3.85	35	3,267	877	0.040	93.34	3.73	1.000	0.99992
3591	3	5.30	17	3,050	1,431	0.012	179.41	2.13	1.063	0.99995
3592	5	5.67	129	9,256	1,742	0.074	71.75	5.31	1.000	0.99988
3593	3	13.42	699	91,821	943	0.741	131.36	97.37	1.087	0.99782
3594	2	2.58	12	637	777	0.015	53.08	0.82	1.000	0.99998
3621	3	11.09	1,581	830,062	1,579	1.001	525.02	525.69	1.001	0.98822
3661	4	8.12	30	8,995	1,065	0.028	299.83	8.45	1.000	0.99981

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3662	5	10.42	36	4,424	873	0.041	122.89	5.07	1.029	0.99989
3663	1	0.72	12	518	308	0.039	43.17	1.68	1.000	0.99996
3675	1	0.75	4	182	420	0.010	45.50	0.43	1.000	0.99999
3691	1	3.63	7	1,526	373	0.019	218.00	4.09	1.000	0.99991
3693	1	0.53	1	32	181	0.006	32.00	0.18	1.000	0.99999
3702	2	2.97	2	178	656	0.003	89.00	0.27	1.000	0.99999
3871	1	1.15	1	69	1,377	0.001	69.00	0.05	1.000	0.99999
3872	2	2.20	2	132	1,088	0.002	66.00	0.12	1.000	0.99999
3873	1	0.15	1	9	807	0.001	9.00	0.01	1.000	0.99999
3878	2	4.98	25	5,892	825	0.030	235.68	7.14	1.000	0.99984
3891	4	9.58	429	28,416	447	0.960	66.24	63.57	1.388	0.99858
3893	1	1.15	2	138	1,161	0.002	69.00	0.12	1.000	0.99999
3894	1	2.02	8	974	158	0.051	121.75	6.16	1.000	0.99986
3901	1	0.55	19	628	887	0.021	33.05	0.71	1.000	0.99998
3903	3	5.26	321	36,233	301	1.066	112.88	120.38	1.066	0.99730
3912	1	0.48	11	317	1,300	0.008	28.82	0.24	1.000	0.99999
3913	2	1.34	2	80	823	0.002	40.00	0.10	1.000	0.99999
3914	5	11.29	65	7,570	393	0.165	116.46	19.26	1.354	0.99957
3951	7	6.45	93	4,402	944	0.099	47.33	4.66	1.033	0.99990
3952	10	14.82	155	23,325	1,349	0.115	150.48	17.29	1.013	0.99961
3971	1	1.15	1	69	687	0.001	69.00	0.10	1.000	0.99999
404	1	2.33	19	2,660	171	0.111	140.00	15.56	1.000	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
4091	2	2.17	158	10,352	1,179	0.134	65.52	8.78	1.013	0.99980
4101	4	6.14	180	14,581	976	0.184	81.01	14.94	1.011	0.99967
4134	1	1.73	1	104	1,263	0.001	104.00	0.08	1.000	0.99999
4138	1	0.40	617	14,869	759	0.813	24.10	19.59	1.000	0.99956
4152	1	4.67	9	2,526	1,286	0.007	280.67	1.96	1.000	0.99996
4153	3	7.44	3	447	1,013	0.003	149.00	0.44	1.000	0.99999
4172	2	3.12	13	1,923	1,809	0.007	147.92	1.06	1.000	0.99998
4181	1	2.33	1	140	777	0.001	140.00	0.18	1.000	0.99999
4182	3	5.11	228	14,424	773	0.295	63.26	18.66	1.081	0.99958
4212	3	7.95	23	4,021	1,075	0.021	174.83	3.74	1.000	0.99992
4222	9	13.85	57	3,307	1,069	0.053	58.02	3.09	1.018	0.99993
4303	1	1.37	1	82	1,253	0.001	82.00	0.07	1.000	0.99999
4312	1	3.35	17	3,427	889	0.019	201.59	3.85	1.000	0.99991
4324	1	0.88	1	53	653	0.002	53.00	0.08	1.000	0.99999
4341	2	1.88	1,821	109,204	1,812	1.005	59.97	60.27	1.005	0.99865
4342	1	1.00	836	50,160	836	1.000	60.00	60.00	1.000	0.99866
4343	2	1.87	1,673	100,372	1,672	1.001	60.00	60.03	1.001	0.99866
4361	17	19.62	410	24,119	1,662	0.247	58.83	14.51	1.096	0.99967
4362	2	2.03	835	49,852	834	1.001	59.70	59.77	1.001	0.99866
4363	18	20.16	1,743	164,907	1,507	1.157	94.61	109.43	1.157	0.99755
4371	5	4.94	51	2,546	1,550	0.033	49.92	1.64	1.020	0.99996
4372	1	1.12	1	67	419	0.002	67.00	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
4373	5	12.24	571	124,041	763	0.748	217.23	162.57	1.005	0.99636
4385	2	1.77	2	106	1,152	0.002	53.00	0.09	2.000	0.99999
4431	1	0.70	1	42	1,404	0.001	42.00	0.03	1.000	0.99999
4511	3	6.01	39	2,035	1,128	0.035	52.18	1.80	1.026	0.99996
455	2	1.35	2	81	168	0.012	40.50	0.48	2.000	0.99999
4601	2	1.45	2	87	400	0.005	43.50	0.22	1.000	0.99999
4692	1	1.02	11	680	486	0.023	61.82	1.40	1.000	0.99997
4712	1	0.98	19	1,138	125	0.152	59.89	9.10	1.000	0.99980
4791	4	4.70	278	25,359	624	0.446	91.22	40.64	1.004	0.99909
4793	1	1.07	1	64	730	0.001	64.00	0.09	1.000	0.99999
5601	10	15.05	242	19,015	1,407	0.172	78.57	13.51	1.000	0.99970
5603	5	7.37	41	2,539	1,296	0.032	61.93	1.96	2.050	0.99996
5641	1	1.17	21	1,488	341	0.062	70.86	4.36	1.000	0.99990
5901	1	1.72	1	103	819	0.001	103.00	0.13	1.000	0.99999
5904	4	4.93	154	15,265	1,279	0.120	99.12	11.94	1.000	0.99973
5905	2	10.73	2	644	1,934	0.001	322.00	0.33	1.000	0.99999
6021	2	1.30	90	3,560	1,355	0.066	39.56	2.63	1.000	0.99994
6023	1	1.15	6	416	129	0.047	69.33	3.22	1.000	0.99993
6024	2	2.20	219	15,262	396	0.553	69.69	38.54	1.000	0.99914
6141	3	3.94	25	1,637	643	0.039	65.48	2.55	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
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	343	509.77	20,663	2,262,474	171,581	0.120	109.49	13.19	1.022	0.99970

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 11/1/2020 to 11/30/2020
 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	1.58	45	4,291	1,756	0.026	95.36	2.44	1.000	0.99994
1051	2	1.58	84	4,037	775	0.108	48.06	5.21	1.012	0.99988
1082	6	25.24	64	14,225	1,378	0.046	222.27	10.32	1.085	0.99976
1084	1	0.67	1	40	5	0.200	40.00	8.00	1.000	0.99981
1091	4	6.10	106	12,797	711	0.149	120.73	18.00	1.000	0.99958
1093	1	1.25	26	1,963	238	0.109	75.50	8.25	1.000	0.99981
1102	3	3.50	33	2,566	1,030	0.032	77.76	2.49	1.000	0.99994
1211	2	3.20	64	6,431	1,496	0.043	100.48	4.30	1.067	0.99990
1213	1	1.05	17	1,075	565	0.030	63.24	1.90	1.000	0.99996
1241	3	3.06	5	281	880	0.006	56.20	0.32	1.000	0.99999
1242	1	1.08	1	65	856	0.001	65.00	0.08	1.000	0.99999
1243	2	2.14	5	420	1,235	0.004	84.00	0.34	1.000	0.99999
1261	1	0.85	16	817	403	0.040	51.06	2.03	1.000	0.99995
1263	4	5.33	111	7,693	1,217	0.091	69.31	6.32	1.000	0.99985
1265	1	0.30	1	18	1,309	0.001	18.00	0.01	1.000	0.99999
1271	16	33.10	138	19,004	979	0.141	137.71	19.41	1.000	0.99955

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	2.12	9	1,149	870	0.010	127.67	1.32	1.000	0.99997
1282	2	2.03	75	6,964	696	0.108	92.85	10.01	1.014	0.99977
1284	1	1.78	1	107	966	0.001	107.00	0.11	1.000	0.99999
1311	1	1.75	20	2,107	281	0.071	105.35	7.50	1.000	0.99983
1312	3	5.19	54	3,860	962	0.056	71.48	4.01	1.038	0.99991
1452	1	0.43	1	26	458	0.002	26.00	0.06	1.000	0.99999
1453	3	3.89	132	9,421	1,815	0.073	71.37	5.19	1.008	0.99988
1454	1	0.38	6	138	943	0.006	23.00	0.15	1.000	0.99999
1521	1	0.82	25	1,227	382	0.065	49.08	3.21	1.000	0.99993
1523	1	2.30	1	138	752	0.001	138.00	0.18	1.000	0.99999
1841	1	0.45	1	27	552	0.002	27.00	0.05	1.000	0.99999
1843	2	1.75	33	1,818	1,101	0.030	55.09	1.65	1.065	0.99996
2091	4	22.10	505	97,559	898	0.562	193.19	108.64	1.006	0.99749
2092	2	1.90	945	70,572	944	1.001	74.68	74.76	1.001	0.99827
2171	2	8.99	27	4,412	582	0.046	163.41	7.58	1.000	0.99982
2211	1	2.05	3	370	736	0.004	123.33	0.50	1.000	0.99999
2212	1	0.97	24	1,401	1,341	0.018	58.38	1.04	1.000	0.99998
2511	2	7.80	673	202,973	621	1.084	301.59	326.85	1.084	0.99243
2621	1	1.92	1	115	1,197	0.001	115.00	0.10	1.000	0.99999
2622	1	1.52	1	91	116	0.009	91.00	0.78	1.000	0.99998
2921	1	4.13	15	3,725	389	0.039	248.33	9.58	1.000	0.99978
2951	4	11.86	61	5,566	1,234	0.049	91.25	4.51	1.052	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
2961	2	8.80	125	30,020	651	0.192	240.16	46.11	1.000	0.99893
3121	2	1.27	2	76	1,146	0.002	38.00	0.07	1.000	0.99999
3122	1	0.63	445	17,147	873	0.510	38.53	19.64	1.000	0.99955
3123	3	3.90	1,717	112,292	1,107	1.551	65.40	101.44	1.551	0.99765
3181	3	1.48	760	50,309	755	1.007	66.20	66.63	1.007	0.99846
3221	3	5.60	133	12,333	1,268	0.105	92.73	9.73	1.015	0.99977
3222	2	4.07	2	244	791	0.003	122.00	0.31	1.000	0.99999
3231	1	0.80	12	584	210	0.057	48.67	2.78	1.000	0.99994
3301	1	0.80	1	48	767	0.001	48.00	0.06	1.000	0.99999
3303	2	2.35	9	987	1,787	0.005	109.67	0.55	1.000	0.99999
3311	1	0.43	1	26	539	0.002	26.00	0.05	1.000	0.99999
3422	2	2.84	43	3,656	991	0.043	85.02	3.69	1.000	0.99991
3423	3	2.68	37	2,299	397	0.093	62.14	5.79	1.121	0.99987
3472	7	12.05	141	15,518	1,305	0.108	110.06	11.89	1.000	0.99972
3551	3	2.96	26	1,140	1,042	0.025	43.85	1.09	1.000	0.99997
3552	3	4.08	23	1,442	580	0.040	62.70	2.49	1.095	0.99994
3553	3	4.07	34	2,642	877	0.039	77.71	3.01	1.000	0.99993
3592	4	3.72	32	1,062	1,742	0.018	33.19	0.61	1.000	0.99999
3593	1	3.23	3	584	943	0.003	194.67	0.62	1.000	0.99999
3594	2	3.15	263	28,915	777	0.338	109.94	37.21	1.008	0.99914
3621	3	5.97	3	358	1,579	0.002	119.33	0.23	1.000	0.99999
3661	4	4.42	100	6,642	1,065	0.094	66.42	6.24	1.010	0.99986

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3662	9	12.25	106	9,840	873	0.121	92.83	11.27	1.104	0.99974
3675	2	1.37	128	5,285	420	0.305	41.29	12.58	1.016	0.99971
3691	1	1.02	1	61	373	0.003	61.00	0.16	1.000	0.99999
3702	3	2.12	8	421	656	0.012	52.63	0.64	1.000	0.99999
3751	3	5.95	102	12,597	913	0.112	123.50	13.80	1.020	0.99968
3871	2	2.45	2	147	1,377	0.001	73.50	0.11	1.000	0.99999
3873	3	4.15	821	39,456	807	1.017	48.06	48.89	1.089	0.99887
3878	3	2.29	872	29,443	825	1.057	33.76	35.69	1.066	0.99917
3891	2	4.32	2	259	447	0.004	129.50	0.58	1.000	0.99999
3893	5	5.58	40	2,619	1,161	0.034	65.48	2.26	1.000	0.99995
3912	1	0.63	1	38	1,300	0.001	38.00	0.03	1.000	0.99999
3913	1	1.70	49	5,019	823	0.060	102.43	6.10	1.000	0.99986
3914	1	0.37	1	22	393	0.003	22.00	0.06	1.000	0.99999
3951	2	2.15	2	129	944	0.002	64.50	0.14	1.000	0.99999
3952	5	20.45	1,346	443,308	1,349	0.998	329.35	328.62	1.000	0.99239
3953	3	4.30	119	10,738	538	0.221	90.24	19.96	1.017	0.99954
3981	5	6.01	31	2,104	1,542	0.020	67.87	1.36	1.033	0.99997
4031	5	11.51	759	104,832	713	1.065	138.12	147.03	1.065	0.99660
407	1	0.32	1	19	105	0.010	19.00	0.18	1.000	0.99999
4131	1	0.52	1	31	205	0.005	31.00	0.15	1.000	0.99999
4132	1	2.00	1	120	567	0.002	120.00	0.21	1.000	0.99999
4133	1	1.22	26	1,909	278	0.094	73.42	6.87	1.000	0.99984

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4134	2	3.10	8	675	1,263	0.006	84.38	0.53	1.000	0.99999
4137	1	1.17	33	2,338	801	0.041	70.85	2.92	1.000	0.99993
4141	1	1.55	1	93	83	0.012	93.00	1.12	1.000	0.99997
4152	2	2.20	17	1,109	1,286	0.013	65.24	0.86	1.063	0.99998
4155	3	8.90	1,658	123,160	1,648	1.006	74.28	74.73	1.006	0.99827
4171	1	0.83	31	1,560	1,182	0.026	50.32	1.32	1.000	0.99997
4172	1	6.82	12	4,918	1,809	0.007	409.83	2.72	1.000	0.99994
4173	1	1.20	50	3,618	688	0.073	72.36	5.26	1.000	0.99988
4182	4	8.03	26	3,534	773	0.034	135.92	4.57	1.000	0.99989
4211	2	1.35	23	981	700	0.033	42.65	1.40	1.000	0.99997
4212	1	12.68	1	761	1,075	0.001	761.00	0.71	1.000	0.99998
4303	3	5.13	152	17,205	1,253	0.121	113.19	13.73	1.013	0.99968
4311	4	2.18	10	205	881	0.011	20.50	0.23	1.000	0.99999
4322	1	1.30	1	78	104	0.010	78.00	0.75	1.000	0.99998
4331	1	0.65	1	39	327	0.003	39.00	0.12	1.000	0.99999
4341	2	1.32	51	1,537	1,812	0.028	30.14	0.85	1.000	0.99998
4361	1	1.90	1	114	1,662	0.001	114.00	0.07	1.000	0.99999
4363	2	3.50	41	4,327	1,507	0.027	105.54	2.87	1.000	0.99993
4371	2	8.56	2	514	1,550	0.001	257.00	0.33	1.000	0.99999
4372	3	4.77	27	1,528	419	0.064	56.59	3.65	1.080	0.99992
4373	2	3.52	2	211	763	0.003	105.50	0.28	1.000	0.99999
4385	1	2.43	1	146	1,152	0.001	146.00	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
4431	1	2.57	1	154	1,404	0.001	154.00	0.11	1.000	0.99999
4432	2	1.52	2	91	475	0.004	45.50	0.19	1.000	0.99999
4511	1	6.25	20	7,501	1,128	0.018	375.05	6.65	1.000	0.99985
4512	2	8.57	276	75,179	1,096	0.252	272.39	68.59	1.000	0.99841
4692	1	2.22	1	133	486	0.002	133.00	0.27	1.000	0.99999
4714	2	1.28	2	77	342	0.006	38.50	0.23	1.000	0.99999
4791	2	3.58	2	215	624	0.003	107.50	0.34	1.000	0.99999
5601	14	19.91	448	40,161	1,407	0.318	89.65	28.54	1.191	0.99934
5602	6	8.65	6	519	711	0.008	86.50	0.73	1.000	0.99998
5603	3	4.70	171	13,270	1,296	0.132	77.60	10.24	1.000	0.99976
5901	1	1.32	6	474	819	0.007	79.00	0.58	1.000	0.99999
5902	4	5.52	77	7,180	965	0.080	93.25	7.44	1.000	0.99983
5904	3	2.82	222	12,641	1,279	0.174	56.94	9.88	1.009	0.99977
5905	1	1.38	1	83	1,934	0.001	83.00	0.04	1.000	0.99999
6021	3	2.53	80	4,593	1,355	0.059	57.41	3.39	1.000	0.99992
6022	1	0.72	1	43	562	0.002	43.00	0.08	1.000	0.99999
6141	2	3.90	28	3,324	643	0.044	118.71	5.17	1.037	0.99988
NUMBER OF OUTAGES		OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	292	508.67	15,154	1,780,499	171,581	0.088	117.49	10.38	1.000	0.99976

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
 12/1/2020 to 12/31/2020
 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	1.33	95	3,545	1,754	0.054	37.32	2.02	1.000	0.99995
1051	1	1.13	50	3,405	776	0.064	68.10	4.39	1.000	0.99990
1082	1	1.07	1	64	1,378	0.001	64.00	0.05	1.000	0.99999
1092	3	2.42	3	145	941	0.003	48.33	0.15	1.000	0.99999
1094	1	1.20	4	289	1,260	0.003	72.25	0.23	1.000	0.99999
1102	2	1.85	67	3,765	1,046	0.064	56.19	3.60	1.000	0.99992
1103	1	0.98	1	59	1,002	0.001	59.00	0.06	1.000	0.99999
1211	1	0.25	1	15	1,498	0.001	15.00	0.01	1.000	0.99999
1212	1	1.10	1	66	340	0.003	66.00	0.19	1.000	0.99999
1232	2	3.70	2	222	1,203	0.002	111.00	0.18	1.000	0.99999
1241	1	0.48	35	1,043	880	0.040	29.80	1.19	1.000	0.99997
1265	1	1.68	67	6,832	1,309	0.051	101.97	5.22	1.000	0.99988
1271	2	2.58	26	2,034	980	0.027	78.23	2.08	1.000	0.99995
1273	3	2.73	97	5,208	870	0.111	53.69	5.99	1.000	0.99987
1312	1	2.00	1	120	962	0.001	120.00	0.12	1.000	0.99999
1453	6	11.20	1,827	305,729	1,816	1.006	167.34	168.35	1.006	0.99623
1454	1	0.88	1	53	944	0.001	53.00	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
1455	1	1.12	1	67	413	0.002	67.00	0.16	1.000	0.99999
1521	1	1.08	3	195	382	0.008	65.00	0.51	1.000	0.99999
1523	2	4.86	82	14,971	752	0.109	182.57	19.91	1.000	0.99955
1842	1	0.98	1	59	292	0.003	59.00	0.20	1.000	0.99999
2171	1	0.60	5	184	582	0.009	36.80	0.32	1.000	0.99999
2211	1	0.77	20	930	736	0.027	46.50	1.26	1.000	0.99997
2212	2	2.49	2	149	1,341	0.001	74.50	0.11	1.000	0.99999
2621	6	16.79	113	48,219	1,198	0.094	426.72	40.25	1.046	0.99910
2921	1	0.42	1	25	391	0.003	25.00	0.06	1.000	0.99999
2951	4	8.78	506	60,883	1,235	0.410	120.32	49.30	1.026	0.99890
3121	1	0.90	1,146	62,819	1,146	1.000	54.82	54.82	1.000	0.99877
3122	5	5.90	976	66,585	874	1.118	68.22	76.27	2.280	0.99829
3181	1	0.28	756	13,406	756	1.000	17.73	17.73	1.000	0.99960
3221	2	2.62	2	157	1,272	0.002	78.50	0.12	1.000	0.99999
3222	1	0.67	1	40	791	0.001	40.00	0.05	1.000	0.99999
3301	2	2.72	2	163	768	0.003	81.50	0.21	1.000	0.99999
3303	1	0.62	1	37	1,787	0.001	37.00	0.02	1.000	0.99999
3304	1	0.42	1	25	1,112	0.001	25.00	0.02	1.000	0.99999
3313	2	2.24	17	1,244	1,414	0.012	73.18	0.88	1.000	0.99998
3315	2	1.93	62	3,647	1,598	0.039	58.82	2.28	1.000	0.99995
3422	4	3.41	93	4,078	992	0.094	43.85	4.11	1.000	0.99991
3423	2	2.20	4	223	398	0.010	55.75	0.56	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
3471	1	0.37	1	22	487	0.002	22.00	0.05	1.000	0.99999
3591	2	1.48	48	2,112	1,434	0.033	44.00	1.47	1.000	0.99997
3592	7	9.37	1,825	449,665	1,742	1.048	246.39	258.13	1.048	0.99422
3593	2	3.97	68	3,683	943	0.072	54.16	3.91	1.000	0.99991
3594	2	8.55	43	12,303	778	0.055	286.12	15.81	1.000	0.99965
3621	3	3.89	14	892	1,584	0.009	63.71	0.56	1.000	0.99999
3662	1	0.85	4	204	873	0.005	51.00	0.23	1.000	0.99999
3664	2	1.70	2	102	576	0.003	51.00	0.18	1.000	0.99999
3691	1	0.32	60	1,197	374	0.160	19.95	3.20	1.000	0.99993
3701	1	0.85	15	773	526	0.029	51.53	1.47	1.000	0.99997
3751	1	1.37	1	82	914	0.001	82.00	0.09	1.000	0.99999
3878	1	0.75	1	45	824	0.001	45.00	0.05	1.000	0.99999
3893	2	4.91	49	7,106	1,162	0.042	145.02	6.12	1.000	0.99986
3903	1	1.98	45	5,367	302	0.149	119.27	17.77	1.000	0.99960
3912	1	0.42	1	25	1,302	0.001	25.00	0.02	1.000	0.99999
3913	1	1.83	1	110	823	0.001	110.00	0.13	1.000	0.99999
3914	1	0.63	11	425	393	0.028	38.64	1.08	1.000	0.99998
3952	1	5.98	1	359	1,350	0.001	359.00	0.27	1.000	0.99999
3981	4	3.99	5	305	1,543	0.003	61.00	0.20	1.000	0.99999
3991	8	12.32	8	739	754	0.011	92.38	0.98	1.000	0.99998
4031	1	0.47	62	1,741	711	0.087	28.08	2.45	1.000	0.99995
4101	2	1.64	10	282	976	0.010	28.20	0.29	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	4	8.19	1,291	153,927	1,264	1.021	119.23	121.78	1.021	0.99727
4138	1	0.90	1	54	759	0.001	54.00	0.07	1.000	0.99999
4142	1	1.13	10	689	612	0.016	68.90	1.13	1.000	0.99997
4171	2	1.38	39	2,058	1,182	0.033	52.77	1.74	1.026	0.99996
4212	4	28.83	38	3,302	1,075	0.035	86.89	3.07	1.000	0.99993
4222	2	1.62	159	8,117	1,069	0.149	51.05	7.59	1.006	0.99983
4223	1	1.58	1	95	1,108	0.001	95.00	0.09	1.000	0.99999
4303	2	2.55	1,409	127,543	1,260	1.118	90.52	101.22	1.118	0.99773
4313	2	3.11	14	1,191	550	0.025	85.07	2.17	1.077	0.99995
4324	1	1.03	1	62	653	0.002	62.00	0.09	1.000	0.99999
4343	2	2.48	97	9,568	1,672	0.058	98.64	5.72	1.000	0.99987
4361	1	1.68	1	101	1,662	0.001	101.00	0.06	1.000	0.99999
4363	1	0.60	14	510	1,099	0.013	36.43	0.46	1.000	0.99999
4371	1	0.58	28	999	1,550	0.018	35.68	0.64	1.000	0.99999
4385	2	1.17	24	702	1,152	0.021	29.25	0.61	1.043	0.99999
4386	1	0.18	1	11	1,667	0.001	11.00	0.01	1.000	0.99999
4431	1	1.03	1	62	1,406	0.001	62.00	0.04	1.000	0.99999
4432	3	2.78	3	167	476	0.006	55.67	0.35	1.000	0.99999
4602	1	1.38	11	922	966	0.011	83.82	0.95	1.000	0.99998
4692	2	2.61	6	360	486	0.012	60.00	0.74	1.000	0.99998
4712	1	1.20	19	1,374	126	0.151	72.32	10.90	1.000	0.99976
4783	1	1.18	1	71	240	0.004	71.00	0.30	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
4791	1	1.50	14	1,261	624	0.022	90.07	2.02	1.000	0.99995
5601	3	11.80	5	1,434	1,409	0.004	286.80	1.02	1.000	0.99998
5602	3	4.55	3	273	711	0.004	91.00	0.38	1.000	0.99999
5603	3	2.97	19	1,212	1,296	0.015	63.79	0.94	1.000	0.99998
5902	2	1.30	106	4,196	965	0.110	39.58	4.35	1.019	0.99990
5905	1	2.60	90	14,098	1,934	0.047	156.64	7.29	1.000	0.99984
6022	1	0.35	1	21	562	0.002	21.00	0.04	1.000	0.99999
NUMBER OF OUTAGES		OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	171	258.29	11,756	1,432,619	171,320	0.069	121.86	8.36	1.186	0.99981