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April 29, 2022

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Energy Department
Missouri Public Service Commission
200 Madison Street, PO Box 360
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RE: Reliability Performance Report

The Empire District Electric Company ("Liberty") respectfully submits its annual reliability report for calendar year 2021. 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 2022 and 2023.

Pursuant to Rule 23.010(2-8), Liberty's annual Reliability Performance Report discusses the 2021 performance and planned 2022 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 as a result of various potential factors including supply chain and labor issues.

Respectfully submitted,

Sam McGarrahan
Director of System Performance



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Section I:

Introduction

This report details The Empire District Electric Company ("Liberty" or "Company") annual reliability metrics and worst performing circuits for calendar year 2021 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.

2021 Missouri Reliability Indices including Major Event Days

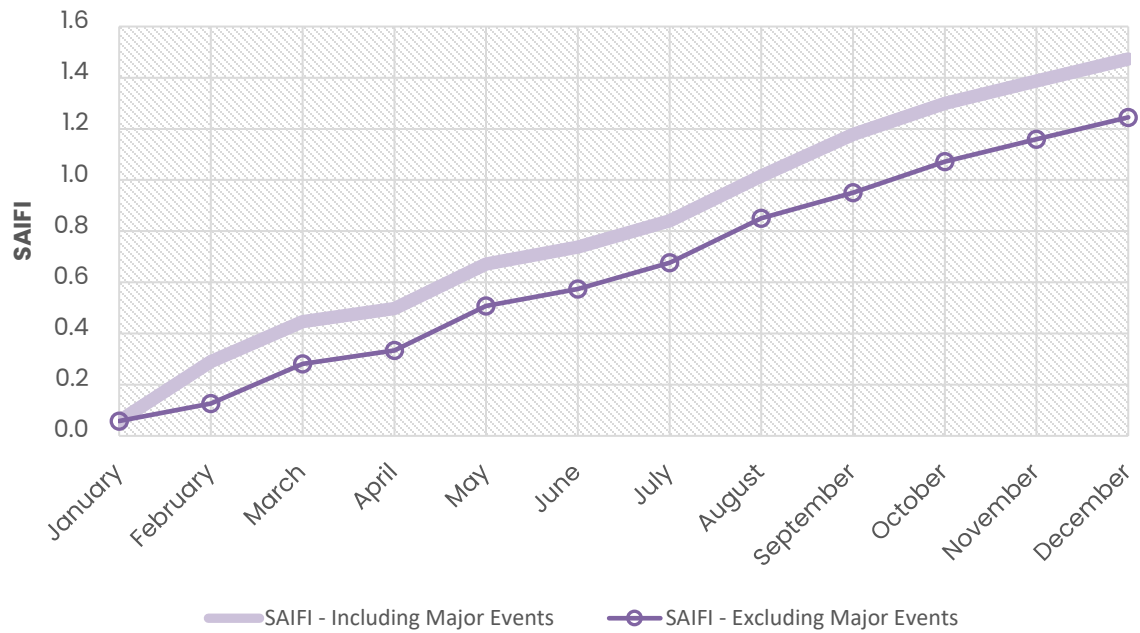
Month	SAIDI	SAIFI	CAIDI
January	8.82	0.058	153.13
February	25.09	0.232	108.13
March	16.47	0.156	105.46
April	4.60	0.052	89.36
May	25.37	0.174	145.67
June	8.08	0.066	121.93
July	11.67	0.103	113.26
August	16.47	0.174	94.64
September	23.76	0.163	145.44
October	15.39	0.122	126.45
November	8.13	0.087	93.19
December	12.16	0.086	141.77

2021 Missouri Reliability Indices excluding Major Event Days

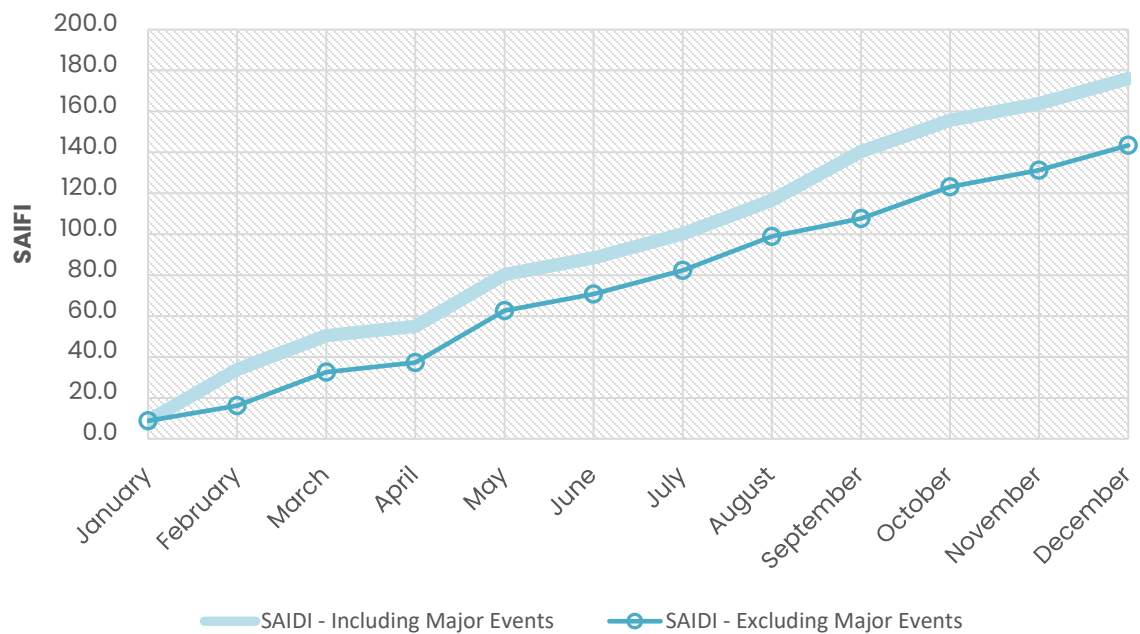
Month	SAIDI	SAIFI	CAIDI
January	8.82	0.058	153.13
February	7.36	0.068	107.92
March	16.47	0.156	105.46
April	4.60	0.052	89.36
May	25.37	0.174	145.67
June	8.08	0.066	121.93
July	11.67	0.103	113.26
August	16.47	0.174	94.64
September	8.89	0.099	90.06
October	15.39	0.122	126.45
November	8.13	0.087	93.19
December	12.16	0.086	141.77

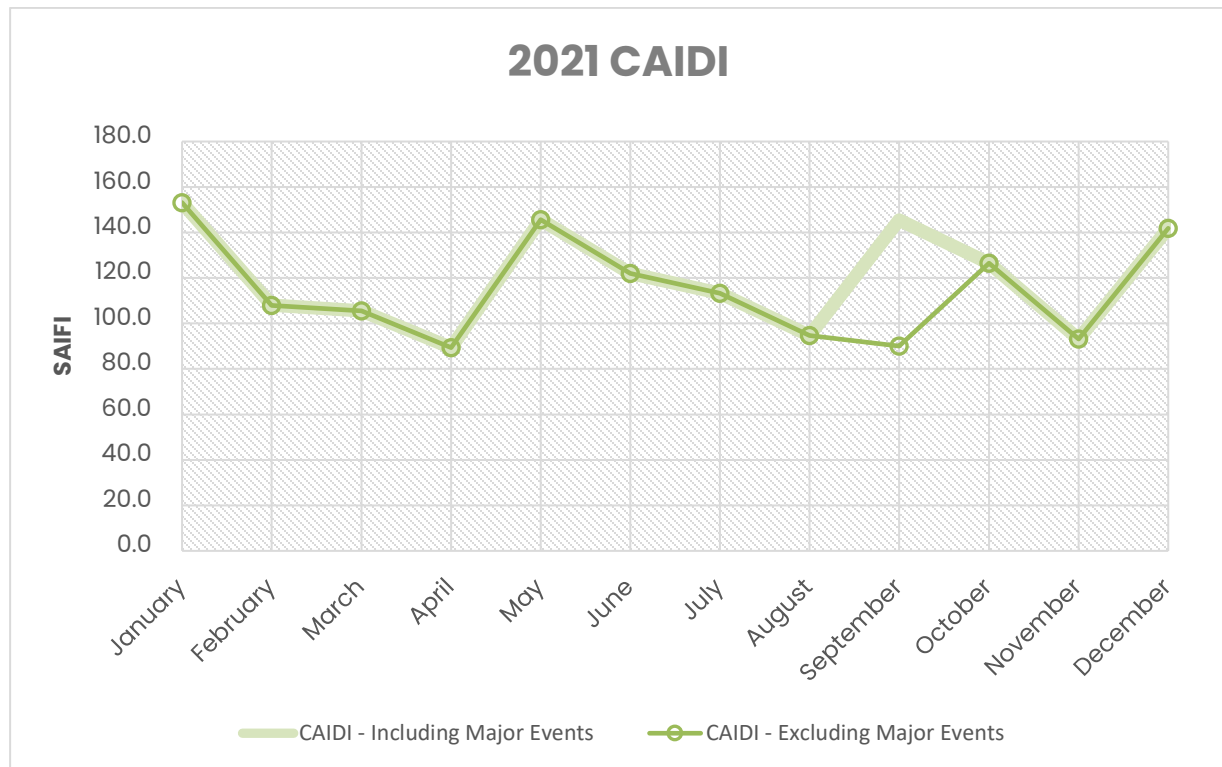


2021 Cumulative SAIFI



2021 Cumulative SAIDI







Section 3:

Worst Performing Circuit Analysis/Improvement Program

Liberty's top 5% worst performing circuits for 2021 are provided in the table below.

2021 Worst Performing Circuits

Circuit Number	Location	Customer Outage Minutes	Customers Affected	Total Customers on Affected Circuits	SAIFI	SAIDI
4341	Ozark – Southeast	617,514	11,647	1,825	6.41	339.88
4343	Ozark – Southeast	445,136	8,638	1,680	5.16	265.69
4321	Oakland – North	5,239	27	6	4.50	873.17
1312	Diamond – H.T.	434,506	4,272	977	4.42	447.88
4222	Joplin – 24 th Street	187,276	4,577	1,070	4.28	175.11
1082	Carthage – Northwest	951,137	5,203	1,380	3.77	689.39
4363	Webb City – Cardinal	176,339	2,446	697	3.51	253.00
1091	Joplin – Atlas Junction	286,551	2,334	721	3.29	404.36
3231	Brighton – East	187,764	680	216	3.22	889.87
2511	Golden City	346,121	1,970	621	3.17	557.36
4364	Webb City – Cardinal	201,383	2,625	846	3.16	242.51
3222	Anderson – Southwest	654,049	2,485	801	3.13	826.00
4091	Buffalo – North	357,370	3,680	1,206	3.07	306.91
2051	Wentworth – West	58,114	651	208	3.07	279.89

Worst Performing Circuit Assessment

Circuit 4341

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

Vegetation maintenance was last performed in 2016 and is scheduled to be performed in 2022.

This circuit received an intrusive overhead inspection in 2020 and detail inspections for both overhead and underground in 2019. This circuit is scheduled for a patrol inspection in 2025.

Circuit 4341 had atypical reclosing settings due to the installations of a new transformer, circuit breaker, and capacitor bank inside of the substation. The atypical settings increased exposure



and increased risk of sustained interruptions. The substation equipment installations are now complete and are expected to provide improved reliability to the entire circuit.

The substation serving circuit 4341 also experienced two bird related outages in 2021 and has experienced similar incidences in the past. The substation is included in the scope of Liberty's substation wildlife protection program to address these issues.

This circuit experienced several distribution wildlife issues near and in the town of Sparta, MO. Liberty's response was to include this entire circuit in the scope of the 2021 wildlife protection program. The work was completed, and the entire circuit now has wildlife guards installed via the standards set by the distribution wildlife program.

Circuit 4343

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

Vegetation maintenance was last performed in 2018 and is scheduled to be performed in 2023.

This circuit received an intrusive overhead inspection in 2016 and patrol inspections for both overhead and underground in 2017. This circuit is scheduled for a detail overhead inspection in 2023.

Circuit 4343 had atypical reclosing settings due to the installation of a new transformer, circuit breaker, and capacitor bank inside of the substation. The atypical settings increased exposure and increased risk of sustained interruptions. The substation equipment installations are now complete and are expected to provide improved reliability to the circuit.

The substation serving circuit 4343 also experienced two bird related outages in 2021 and has experienced more in the past. The substation is included in the scope of Liberty's substation wildlife protection program to address these issues.

Circuit 1312

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

Vegetation maintenance was last performed in 2021 and is scheduled to be performed in 2024.



This circuit received an intrusive overhead inspection in 2021 and detail inspections for both overhead and underground in 2021. This circuit is scheduled for a patrol inspection in 2027.

The circuit experienced two substation bird outages and had a car hit a pole resulting in a full circuit outage in 2021. This site is being analyzed for both sectionalization improvements and wildlife guard improvements.

Circuit 4321

A coordination study and sectionalizing corrective action program has not been performed for this circuit.

Vegetation maintenance was last performed in 2021 and is scheduled to be performed in 2023.

This circuit received an intrusive overhead inspection in 2020 and detail inspections for both overhead and underground in 2018. This circuit is scheduled for a patrol inspection in 2022.

During 2021, the substation serving circuit 4321 was in an abnormal state to facilitate equipment upgrades. Circuit improvements were also being performed on circuit 4321 throughout the year. The circuit experienced two circuit-wide outages due to human error of contract crews. As a result of these outages and other considerations, the contract crew and engineers responsible for the construction were released. Another two outages occurred on the circuit due to the increased exposure during construction. Liberty is currently exploring options to complete the substation construction and return it to normal status.

Circuit 4222

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

Vegetation maintenance was last performed in 2018 and is scheduled to be performed in 2023.

This circuit received an intrusive overhead inspection in 2018 and detail inspections for both overhead and underground in 2020. This circuit is scheduled for a patrol inspection in 2024.



This circuit had increased exposure due to construction on the circuit. Unfortunately, the increased risk resulted in reduced reliability. This circuit is being analyzed for potential sectionalization improvements to enhance reliability.

Circuit 1082

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

Vegetation maintenance was last performed in 2021 and is scheduled to be performed in 2024.

This circuit received an intrusive overhead inspection in 2021 and detail inspections for both overhead and underground in 2017. This circuit is scheduled for a patrol inspection in 2022.

This circuit experienced two circuit-wide outages due to vehicle strikes affecting structures in the main trunk. Liberty is analyzing this circuit for possible sectionalization improvements.

Circuit 4363

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

Vegetation maintenance was last performed in 2020 and is scheduled to be performed in 2022.

This circuit received patrol inspections for both overhead and underground in 2021. This circuit is scheduled for an intrusive inspection in 2022.

This circuit experienced a circuit-wide outage due to lightning associated with severe storms. Due to active construction on the circuit, the circuit breaker was in an abnormal status for improved personnel protection as the storm arrived. Liberty is reviewing its construction crew standards to maintain lineside safety and enhance reliability for impending weather events.

Circuit 1091

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

Vegetation maintenance was last performed in 2020 and is scheduled to be performed in 2023.



This circuit received patrol inspections for both overhead and underground in 2017. This circuit is scheduled for a detail inspection in 2023 and an intrusive inspection in 2024.

During 2021, the substation serving circuit 1091 was in an abnormal state to facilitate maintenance and construction activities. During construction, the circuit was susceptible to increased exposure and increased outage risk.

The substation is included in the scope of the 2022 wildlife substation program.

Circuit 3231

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

Vegetation maintenance was last performed in 2020 and is scheduled to be performed in 2023.

This circuit received an intrusive overhead inspection in 2016 and detail inspections for both overhead and underground in 2016. This circuit is scheduled for a patrol inspection in 2022.

This circuit experienced two vegetation fall-ins during severe weather events. Vegetation has reviewed the circuit and will create a work order to address the underlying issues.

Reliability is also analyzing the circuit for possible sectionalization improvements.

Circuit 2511

A coordination study and sectionalizing corrective action program is in service and has an estimated completion date of 2022.

Vegetation maintenance was last performed in 2019 and is scheduled to be performed in 2022.

This circuit received patrol inspections for both overhead and underground in 2019. This circuit is scheduled for a detail inspection in 2025 and an intrusive overhead inspection in 2024.

This circuit experienced several wildlife related outages in 2021. Liberty plans to install two distribution reclosing devices to improve sectionalization of the circuit. Additionally, Liberty has included this entire circuit in the scope of the 2022 wildlife distribution program.



Circuit 4364

A coordination study and sectionalizing corrective action program has not been implemented for this circuit.

Vegetation maintenance was last performed in 2019 and is scheduled to be performed in 2022.

This circuit is scheduled for an intrusive overhead inspection in 2022.

This circuit experienced a circuit-wide outage due to lightning associated with severe storms. Due to active construction on the circuit, the circuit breaker was in an abnormal status for improved personnel protection as the storm arrived. Liberty is reviewing its construction crew standards to maintain lineside safety and enhance reliability for impending weather events. Liberty is analyzing additional opportunities to enhance sectionalization on this circuit.

Circuit 3222

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

Vegetation maintenance was last performed in 2021 and is scheduled to be performed in 2024.

This circuit received a patrol overhead inspection in 2013 and detail inspections for both overhead and underground in 2019. This circuit is scheduled for an intrusive overhead inspection in 2024.

Substation #322 – Anderson Southwest, which serves circuit 3222, received upgrades to improve the transmission reliability in 2021. The substation received new transmission breakers which will provide greater transmission sectionalization. The substation also received new distribution breakers and added SCADA to provide remote monitoring and enhanced fault diagnostics. During substation construction, this circuit experienced increased exposure and increased risk of sustained interruptions.

Liberty plans to install an auto-transfer switching scheme on the circuit within the town of Lanagan. The scheme will provide improved reliability for a majority of the circuit's customers, including those located in the city of Pineville. The scheme will self-isolate an upstream fault and automatically restore using the alternate source.



Circuit 4091

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

Vegetation maintenance was last performed in 2017 and is scheduled to be performed in 2023.

This circuit received an intrusive overhead inspection in 2017 and patrol inspections for both overhead and underground in 2018. This circuit is scheduled for a detail inspection in 2022.

The circuit experienced outages as a result of an ice event. This circuit also experienced a fault immediately outside the substation where a car hit a pole. Liberty is analyzing possible sectionalization improvements for this circuit.

Circuit 2051

A coordination study and sectionalizing corrective action program was completed in 2011.

Vegetation maintenance was last performed in 2017 and is scheduled to be performed in 2023.

This circuit received detail inspections for both overhead and underground in 2021. This circuit is scheduled for an intrusive inspection in 2024.

This circuit experienced three circuit-wide outages due to faults on the main trunk. Liberty is analyzing this circuit for possible sectionalization improvements.



Multi-Year Worst Performing Circuits

Liberty has identified six 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 2021 SAIFI value. A more detailed list of each circuit’s corrective action will follow.

2021 Multi-Year Worst Performing Circuits

Location	Circuit Number	SAIFI		
		2019	2020	2021
Ozark – Southeast	4343	0.32	2.55	5.16
Webb City – Cardinal	4363	0.72	4.91	3.51
Golden City	2511	0.16	3.25	3.17
Anderson – Southwest	3222	3.79	1.06	3.13
Anderson – Southwest	3221	4.13	2.30	2.86
Ozark Dam – Powersite	3122	4.92	4.13	1.15



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 had 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 maintenance clearing was performed 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 had a visual inspection performed in 2021. The repair work identified, as a result of inspections, will be completed in accordance with Liberty's infrastructure inspection policy.

Substation #322 – Anderson Southwest, which serves circuit 3221, received upgrades to improve the transmission reliability in 2021. The substation received new transmission breakers which will provide greater transmission sectionalization. The substation also received new distribution breakers and added SCADA to provide remote monitoring and enhanced fault diagnostics. During substation construction, this circuit experienced increased exposure and increased risk of sustained interruptions.



Circuit 4343

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

Vegetation maintenance was last performed in 2018 and is scheduled to be performed in 2023.

This circuit received an intrusive overhead inspection in 2016 and patrol inspections for both overhead and underground in 2017. This circuit is scheduled for a detail overhead inspection in 2023.

Circuit 4343 had atypical reclosing settings due to the installation of a new transformer, circuit breaker, and capacitor bank inside of the substation. The atypical settings increased exposure and increased risk of sustained interruptions. The substation equipment installations are now complete and are expected to provide improved reliability to the circuit.

The substation serving circuit 4343 also experienced two bird related outages in 2021 and has experienced more in the past. The substation is included in the scope of Liberty's substation wildlife protection program to address these issues.

Circuit 4363

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

Vegetation maintenance was last performed in 2020 and is scheduled to be performed in 2022.

This circuit received patrol inspections for both overhead and underground in 2021. This circuit is scheduled for an intrusive inspection in 2022.

This circuit experienced a circuit-wide outage due to lightning associated with severe storms. Due to active construction on the circuit, the circuit breaker was in an abnormal status for improved personnel protection as the storm arrived. Liberty is reviewing its construction crew standards to maintain lineside safety and enhance reliability for impending weather events.

Circuit 2511

A coordination study and sectionalizing corrective action program is in service and has an estimated completion date of 2022.



Vegetation maintenance was last performed in 2019 and is scheduled to be performed in 2022.

This circuit received patrol inspections for both overhead and underground in 2019. This circuit is scheduled for a detail inspection in 2025 and an intrusive overhead inspection in 2024.

This circuit experienced several wildlife related outages in 2021. Liberty plans to install two distribution reclosing devices to improve sectionalization of the circuit. Additionally, Liberty has included this entire circuit in the scope of the 2022 wildlife distribution program.

Circuit 3222

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

Vegetation maintenance was last performed in 2021 and is scheduled to be performed in 2024.

This circuit received a patrol overhead inspection in 2013 and detail inspections for both overhead and underground in 2019. This circuit is scheduled for an intrusive overhead inspection in 2024.

Substation #322 – Anderson Southwest, which serves circuit 3222, received upgrades to improve the transmission reliability in 2021. The substation received new transmission breakers which will provide greater transmission sectionalization. The substation also received new distribution breakers and added SCADA to provide remote monitoring and enhanced fault diagnostics. During substation construction, this circuit experienced increased exposure and increased risk of sustained interruptions.

Liberty plans to install an auto-transfer switching scheme on the circuit within the town of Lanagan. The scheme will provide improved reliability for a majority of the circuit's customers, including those located in the city of Pineville. The scheme will self-isolate an upstream fault and automatically restore using the alternate source.



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 the latest publication of the Energy Information Administration's Form 861 used to populate and benchmark only includes 2020 performance values.



Utility Name	State	Ownership	Standard					
			2015	2016	2017	2018	2019	2020
Barton County Elec Coop, Inc	MO	Cooperative	N/A	N/A	N/A	Other	Other	N/A
Sac-Osage Electric Coop Inc	MO	Cooperative	N/A	N/A	N/A	Other	Other	N/A
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	IEEE	IEEE	IEEE	IEEE
Webster Electric Coop	MO	Cooperative	N/A	Other	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	IEEE	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							
			2015	2016	2017	2018	2019	2020	Avg	Rank
Barton County Elec Coop, Inc	MO	Coop				144.90	155.20		150.05	18
Sac-Osage Electric Coop Inc	MO	Coop				455.20	204.70		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	139.50	109.97	114.74	12
Webster Electric Coop	MO	Coop		97.00	96.57	90.10	20.00	71.00	74.93	3
White River Valley Electric Coop	MO	Coop								
Laclede Electric Coop, Inc	MO	Coop	138.00	123.00	208.20	112.80	123.25	128.23	138.91	13
Se-MA-NO Electric Coop	MO	Coop								
City Utilities of Springfield - (MO)	MO	Muni								
Empire District Electric Co	MO	IOU	115.72	96.68	116.59	102.55	138.16	103.54	112.21	11
Evergy Missouri West	MO	IOU	108.56	65.98	77.13	89.80	125.16	120.82	97.91	6
Evergy Metro	MO	IOU	74.14	62.19	90.80	92.00	91.38	89.41	83.32	4
Union Electric Co - (MO)	MO	IOU	96.00	91.00	85.00	86.00	106.00	86.00	91.67	5
Empire District Electric Co	KS	IOU	91.63	158.16	106.26	87.05	115.14	47.80	101.01	7
Evergy Metro	KS	IOU	86.47	71.01	55.91	52.34	61.51	54.21	63.58	2
Evergy Kansas South, Inc	KS	IOU	109.71	153.42	88.77	101.05	122.70	86.13	110.30	10
Evergy Kansas Central, Inc	KS	IOU	136.37	116.26	101.92	92.46	99.85	98.89	107.62	9
Empire District Electric Co	OK	IOU	168.00	185.25	122.57	156.72	160.34	88.84	146.95	17
Oklahoma Gas & Electric Co	OK	IOU	137.20	158.40	143.90	130.90	135.39	140.08	140.98	14
Public Service Co of Oklahoma	OK	IOU	112.10	100.40	102.50	101.20	125.10	88.90	105.03	8
Entergy Arkansas LLC	AR	IOU	283.40	288.20	218.50	297.20	308.80	270.10	277.70	19
Empire District Electric Co	AR	IOU	62.54	80.74	26.92	25.49	28.15	23.43	41.21	1
Oklahoma Gas & Electric Co	AR	IOU	178.80	134.90	161.50	145.20	123.05	125.64	144.85	16
Southwestern Electric Power Co	AR	IOU	123.50	117.30	131.00	135.40	170.30	185.20	143.78	15



Utility Name	State	Type	SAIDI Including Major Events							
			2015	2016	2017	2018	2019	2020	Avg	Rank
Barton County Elec Coop, Inc	MO	Coop				144.90	405.10		275.00	16
Sac-Osage Electric Coop Inc	MO	Coop				483.40	208.30		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	158.07	176.92	9
Webster Electric Coop	MO	Coop		97.00	96.57	102.00	110.00	99.90	101.09	2
White River Valley Electric Coop	MO	Coop								
Laclede Electric Coop, Inc	MO	Coop	175.80	141.60	414.60	112.80	258.96	238.14	223.65	12
Se-MA-NO Electric Coop	MO	Coop								
City Utilities of Springfield - (MO)	MO	Muni	59.59	38.08	143.98	100.70	112.32	128.43	97.18	1
Empire District Electric Co	MO	IOU	115.72	96.68	147.72	141.75	214.19	103.54	136.60	3
Evergy Missouri West	MO	IOU	204.37	121.97	265.60	181.71	333.40	247.95	225.83	13
Evergy Metro	MO	IOU	452.82	123.91	552.91	199.14	658.97	109.90	349.61	18
Union Electric Co - (MO)	MO	IOU	114.00	294.00	244.00	140.00	181.00	155.00	188.00	10
Empire District Electric Co	KS	IOU	208.88	264.81	154.15	109.87	140.08	64.17	156.99	5
Evergy Metro	KS	IOU	138.69	117.28	473.93	114.67	395.30	73.85	218.95	11
Evergy Kansas South, Inc	KS	IOU	296.86	164.90	100.59	105.93	179.23	86.16	155.61	4
Evergy Kansas Central, Inc	KS	IOU	235.32	146.22	146.05	153.43	178.61	106.94	161.10	6
Empire District Electric Co	OK	IOU	168.00	185.25	173.77	156.72	285.22	88.84	176.30	8
Oklahoma Gas & Electric Co	OK	IOU	964.30	281.90	264.70	180.50	515.58	5995.97	1367.16	21
Public Service Co of Oklahoma	OK	IOU	399.10	292.30	180.20	126.90	161.30	263.70	237.25	14
Entergy Arkansas LLC	AR	IOU	408.50	570.00	504.40	448.50	529.60	1190.50	608.58	20
Empire District Electric Co	AR	IOU	269.07	80.74	98.93	97.32	456.68	23.43	171.03	7
Oklahoma Gas & Electric Co	AR	IOU	209.60	651.00	382.50	278.40	483.21	165.35	361.68	19
Southwestern Electric Power Co	AR	IOU	290.60	128.90	209.80	146.70	337.90	354.20	244.68	15



Utility Name	State	Type	SAIFI Excluding Major Events							
			2015	2016	2017	2018	2019	2020	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	1.095	1.073	8
Webster Electric Coop	MO	Coop		1.931	1.037	1.020	1.027	0.970	1.197	13
White River Valley Electric Coop	MO	Coop								
Laclede Electric Coop, Inc	MO	Coop	1.750	1.680	2.390	1.400	1.810	1.580	1.768	18
Se-MA-NO Electric Coop	MO	Coop								
City Utilities of Springfield - (MO)	MO	Muni								
Empire District Electric Co	MO	IOU	1.338	1.035	1.220	1.120	1.193	0.941	1.141	11
Evergy Missouri West	MO	IOU	1.199	0.786	0.755	0.948	1.189	1.148	1.004	6
Evergy Metro	MO	IOU	1.030	0.715	0.896	0.981	0.977	0.915	0.919	5
Union Electric Co - (MO)	MO	IOU	0.770	0.730	0.680	0.720	0.900	0.710	0.752	3
Empire District Electric Co	KS	IOU	1.303	2.397	1.205	1.150	1.285	0.602	1.324	15
Evergy Metro	KS	IOU	0.770	0.701	0.523	0.584	0.663	0.601	0.640	2
Evergy Kansas South, Inc	KS	IOU	1.260	1.330	0.940	1.050	1.114	0.887	1.097	9
Evergy Kansas Central, Inc	KS	IOU	1.430	1.240	1.080	0.910	1.019	0.998	1.113	10
Empire District Electric Co	OK	IOU	2.502	2.169	1.264	1.411	1.682	0.835	1.644	16
Oklahoma Gas & Electric Co	OK	IOU	0.900	1.000	0.900	0.900	0.780	0.859	0.890	4
Public Service Co of Oklahoma	OK	IOU	1.171	1.144	1.083	1.167	1.322	1.027	1.152	12
Entergy Arkansas LLC	AR	IOU	1.989	1.960	1.558	1.740	1.720	1.522	1.748	17
Empire District Electric Co	AR	IOU	0.556	0.723	0.314	0.538	0.422	0.415	0.495	1
Oklahoma Gas & Electric Co	AR	IOU	1.100	0.900	0.900	1.200	0.850	1.202	1.025	7
Southwestern Electric Power Co	AR	IOU	1.063	1.281	1.254	1.326	1.463	1.448	1.306	14



Utility Name	State	Type	SAIFI Including Major Events							
			2015	2016	2017	2018	2019	2020	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	1.226	1.277	9
Webster Electric Coop	MO	Coop		1.931	1.037	1.030	1.038	1.200	1.247	7
White River Valley Electric Coop	MO	Coop								
Laclede Electric Coop, Inc	MO	Coop	1.930	1.760	2.970	1.400	2.520	1.810	2.065	18
Se-MA-NO Electric Coop	MO	Coop								
City Utilities of Springfield - (MO)	MO	Muni	0.412	0.354	0.755	0.592	0.645	0.715	0.579	1
Empire District Electric Co	MO	IOU	1.338	1.035	1.365	1.253	1.328	0.941	1.210	5
Evergy Missouri West	MO	IOU	1.550	1.020	1.208	1.230	1.641	1.470	1.353	11
Evergy Metro	MO	IOU	1.230	0.935	1.676	1.235	1.562	1.016	1.276	8
Union Electric Co - (MO)	MO	IOU	0.820	1.130	1.040	0.850	1.130	0.860	0.972	3
Empire District Electric Co	KS	IOU	2.163	2.810	1.436	1.289	1.337	0.940	1.663	16
Evergy Metro	KS	IOU	0.887	0.887	1.061	0.772	1.107	0.674	0.898	2
Evergy Kansas South, Inc	KS	IOU	1.690	1.400	1.010	1.100	1.345	0.887	1.239	6
Evergy Kansas Central, Inc	KS	IOU	1.720	1.410	1.230	1.160	1.308	1.040	1.311	10
Empire District Electric Co	OK	IOU	2.502	2.169	1.512	1.411	1.940	0.835	1.728	17
Oklahoma Gas & Electric Co	OK	IOU	1.500	1.200	1.100	1.000	1.250	2.336	1.398	12
Public Service Co of Oklahoma	OK	IOU	1.577	1.422	1.335	1.342	1.458	1.412	1.424	13
Entergy Arkansas LLC	AR	IOU	2.246	2.360	2.195	1.927	2.075	2.099	2.150	19
Empire District Electric Co	AR	IOU	1.978	0.723	0.905	1.398	1.639	0.415	1.176	4
Oklahoma Gas & Electric Co	AR	IOU	1.200	1.300	1.500	1.800	1.640	1.380	1.470	14
Southwestern Electric Power Co	AR	IOU	1.220	1.357	1.501	1.351	1.803	1.683	1.486	15

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
1/1/2021 to 1/31/2021
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	25.48	2	1,529	1,752	0.001	764.50	0.87	1.000	0.99998
1051	7	29.44	153	25,371	776	0.197	165.82	32.69	1.142	0.99927
1052	2	15.98	6	4,776	1,173	0.005	796.00	4.07	1.000	0.99991
1082	11	53.30	347	99,375	1,377	0.252	286.38	72.17	2.361	0.99838
1091	4	36.03	86	5,974	703	0.122	69.47	8.50	1.049	0.99981
1092	2	16.97	77	33,348	942	0.082	433.09	35.40	1.013	0.99921
1093	1	6.25	26	9,772	231	0.113	375.85	42.30	1.000	0.99905
1094	6	49.68	370	105,298	1,275	0.290	284.59	82.59	1.045	0.99815
1104	1	0.93	1	56	191	0.005	56.00	0.29	1.000	0.99999
1211	2	6.97	5	1,341	1,501	0.003	268.20	0.89	1.000	0.99998
1212	1	7.02	1	421	340	0.003	421.00	1.24	1.000	0.99997
1213	3	3.75	573	60,907	568	1.009	106.29	107.23	1.009	0.99760
1230	2	1.78	2	107	1,219	0.002	53.50	0.09	1.000	0.99999
1232	5	85.61	10	7,221	1,203	0.008	722.10	6.00	1.000	0.99987
1233	1	24.95	1	1,497	647	0.002	1497.00	2.31	1.000	0.99995
1241	5	19.32	19	3,683	880	0.022	193.84	4.19	1.118	0.99991
1242	2	16.50	2	990	856	0.002	495.00	1.16	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
1243	6	15.91	7	1,021	1,235	0.006	145.86	0.83	1.000	0.99998
1263	3	47.20	7	8,533	1,217	0.006	1219.00	7.01	1.000	0.99984
1265	4	39.37	144	5,699	1,309	0.110	39.58	4.35	1.000	0.99990
1271	2	4.25	2	255	981	0.002	127.50	0.26	1.000	0.99999
1273	7	31.62	95	46,683	870	0.109	491.40	53.66	1.033	0.99880
1282	2	31.87	16	3,217	696	0.023	201.06	4.62	1.000	0.99990
1284	4	40.84	242	52,665	966	0.251	217.62	54.52	1.048	0.99878
1285	6	28.02	1,199	69,225	1,121	1.070	57.74	61.75	1.070	0.99862
1312	5	13.91	294	43,696	963	0.305	148.63	45.37	1.081	0.99898
1452	1	2.78	1	167	459	0.002	167.00	0.36	1.000	0.99999
1453	5	49.60	8	4,610	1,816	0.004	576.25	2.54	1.000	0.99994
1454	4	18.88	4	1,133	944	0.004	283.25	1.20	1.000	0.99997
1521	4	10.68	40	2,620	383	0.104	65.50	6.84	1.081	0.99985
1523	4	12.90	213	40,037	752	0.283	187.97	53.24	1.087	0.99881
1843	2	4.37	2	262	1,104	0.002	131.00	0.24	1.000	0.99999
2051	1	1.65	207	20,565	207	1.000	99.35	99.35	1.000	0.99777
2091	2	3.76	2	226	900	0.002	113.00	0.25	1.000	0.99999
2171	3	11.23	3	674	583	0.005	224.67	1.16	1.000	0.99997
2172	6	14.87	311	45,590	243	1.280	146.59	187.61	1.301	0.99580
2211	2	1.80	22	1,318	737	0.030	59.91	1.79	1.048	0.99996
2212	2	2.22	30	2,423	1,341	0.022	80.77	1.81	1.034	0.99996
2511	1	4.10	1	246	621	0.002	246.00	0.40	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
2621	5	20.30	9	4,291	1,200	0.008	476.78	3.58	1.125	0.99992
2622	1	1.42	1	85	116	0.009	85.00	0.73	1.000	0.99998
2961	1	3.13	1	188	651	0.002	188.00	0.29	1.000	0.99999
3081	2	13.62	2	817	585	0.003	408.50	1.40	1.000	0.99997
3121	4	3.28	118	9,428	1,146	0.103	79.90	8.23	1.026	0.99982
3122	1	1.43	1	86	874	0.001	86.00	0.10	1.000	0.99999
3221	2	3.78	10	833	1,275	0.008	83.30	0.65	1.000	0.99999
3222	3	7.67	16	4,555	791	0.020	284.69	5.76	1.067	0.99987
3231	2	10.38	211	61,111	211	1.000	289.63	289.63	1.361	0.99351
3304	1	0.67	1	40	1,112	0.001	40.00	0.04	1.000	0.99999
3312	1	3.33	1	200	421	0.002	200.00	0.48	1.000	0.99999
3313	2	1.90	2	114	1,416	0.001	57.00	0.08	1.000	0.99999
3315	4	6.27	17	913	1,598	0.011	53.71	0.57	1.063	0.99999
3423	1	2.57	9	1,394	398	0.023	154.89	3.50	1.000	0.99992
3471	1	3.48	1	209	488	0.002	209.00	0.43	1.000	0.99999
3472	2	5.60	2	336	1,307	0.002	168.00	0.26	1.000	0.99999
3552	1	4.37	1	262	580	0.002	262.00	0.45	1.000	0.99999
3553	4	16.54	182	134,195	877	0.208	737.34	153.02	1.017	0.99657
3591	2	4.37	114	6,180	1,437	0.079	54.21	4.30	1.009	0.99990
3592	4	5.50	18	1,014	1,742	0.010	56.33	0.58	1.059	0.99999
3593	1	0.52	56	1,753	943	0.059	31.30	1.86	1.000	0.99996
3621	10	34.94	170	26,561	1,588	0.107	156.24	16.73	1.006	0.99963

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3661	1	1.35	5	409	1,066	0.005	81.80	0.38	1.000	0.99999
3662	1	1.02	31	1,911	873	0.036	61.65	2.19	1.000	0.99995
3663	1	1.13	1	68	308	0.003	68.00	0.22	1.000	0.99999
3664	1	0.93	1	56	576	0.002	56.00	0.10	1.000	0.99999
3671	2	11.88	519	64,140	518	1.002	123.58	123.82	1.002	0.99723
3672	1	2.00	130	15,596	137	0.949	119.97	113.84	1.000	0.99745
3691	1	0.25	1	15	375	0.003	15.00	0.04	1.000	0.99999
3692	10	20.40	14	1,518	415	0.034	108.43	3.66	1.400	0.99992
3702	1	1.33	1	80	656	0.002	80.00	0.12	1.000	0.99999
3751	1	1.08	68	4,465	914	0.074	65.66	4.89	1.000	0.99989
3872	1	0.37	1	22	1,088	0.001	22.00	0.02	1.000	0.99999
3878	1	0.82	1	49	824	0.001	49.00	0.06	1.000	0.99999
3891	1	21.67	1	1,300	447	0.002	1300.00	2.91	1.000	0.99993
3892	1	1.27	1	76	537	0.002	76.00	0.14	1.000	0.99999
3893	3	3.48	6	397	1,162	0.005	66.17	0.34	1.200	0.99999
3894	2	3.00	23	1,455	159	0.145	63.26	9.15	1.000	0.99980
3901	2	6.45	18	1,129	889	0.020	62.72	1.27	1.059	0.99997
3903	1	3.22	1	193	302	0.003	193.00	0.64	1.000	0.99999
3912	1	19.40	1	1,164	1,305	0.001	1164.00	0.89	1.000	0.99998
3913	1	6.05	1	363	823	0.001	363.00	0.44	1.000	0.99999
3914	2	5.03	2	302	393	0.005	151.00	0.77	1.000	0.99998
3951	9	30.11	65	21,711	945	0.069	334.02	22.97	1.066	0.99949

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3952	7	32.89	367	102,712	1,350	0.272	279.87	76.08	2.085	0.99830
3953	2	18.07	53	2,512	538	0.099	47.40	4.67	1.019	0.99990
3981	8	10.76	187	17,175	1,544	0.121	91.84	11.12	1.000	0.99975
3991	3	3.25	12	784	755	0.016	65.33	1.04	1.200	0.99998
403	1	15.40	1	924	269	0.004	924.00	3.43	1.000	0.99992
4031	2	7.78	59	24,630	709	0.083	417.46	34.74	1.017	0.99922
404	1	1.57	1	94	171	0.006	94.00	0.55	1.000	0.99999
4091	6	34.62	38	3,668	1,197	0.032	96.53	3.06	1.027	0.99993
4101	1	0.65	6	237	975	0.006	39.50	0.24	1.000	0.99999
4134	2	3.50	2	210	1,265	0.002	105.00	0.17	1.000	0.99999
4137	3	3.00	3	180	805	0.004	60.00	0.22	1.500	0.99999
4138	2	2.00	17	746	759	0.022	43.88	0.98	1.000	0.99998
4142	1	3.00	36	6,502	611	0.059	180.61	10.64	1.000	0.99976
4151	1	2.05	172	21,322	172	1.000	123.97	123.97	1.000	0.99722
4171	3	1.71	113	4,056	1,181	0.096	35.89	3.43	1.000	0.99992
4181	1	5.53	1	332	777	0.001	332.00	0.43	1.000	0.99999
4182	2	14.52	2	871	773	0.003	435.50	1.13	1.000	0.99997
4211	1	1.02	27	1,663	700	0.039	61.59	2.38	1.000	0.99995
4212	1	9.08	1	545	1,070	0.001	545.00	0.51	1.000	0.99999
4222	1	20.18	1	1,211	1,069	0.001	1211.00	1.13	1.000	0.99997
4224	1	0.38	1	23	765	0.001	23.00	0.03	1.000	0.99999
4312	1	5.58	1	335	889	0.001	335.00	0.38	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4324	3	6.40	6	714	653	0.009	119.00	1.09	1.000	0.99998
4343	1	4.75	25	7,142	1,672	0.015	285.68	4.27	1.000	0.99990
4361	4	25.63	19	5,450	1,638	0.012	286.84	3.33	1.000	0.99993
4362	1	17.18	1	1,031	835	0.001	1031.00	1.23	1.000	0.99997
4364	3	3.44	824	77,121	824	1.000	93.59	93.59	1.000	0.99790
4371	4	23.80	16	5,268	1,550	0.010	329.25	3.40	1.000	0.99992
4373	4	8.22	8	977	760	0.011	122.13	1.29	1.000	0.99997
4386	1	4.97	1	298	1,667	0.001	298.00	0.18	1.000	0.99999
4601	1	5.95	12	4,295	400	0.030	357.92	10.74	1.000	0.99976
4602	1	0.35	1	21	966	0.001	21.00	0.02	1.000	0.99999
4692	2	8.58	8	1,109	486	0.016	138.63	2.28	1.000	0.99995
4714	4	7.81	192	5,451	342	0.561	28.39	15.94	2.021	0.99964
4794	10	9.22	52	2,229	396	0.131	42.87	5.63	1.733	0.99987
5601	6	12.94	141	10,515	1,411	0.100	74.57	7.45	1.014	0.99983
5603	4	9.10	4	546	1,297	0.003	136.50	0.42	1.000	0.99999
5902	3	24.88	978	85,956	965	1.013	87.89	89.07	1.013	0.99800
5904	7	54.40	93	7,907	1,279	0.073	85.02	6.18	1.057	0.99986
5905	8	75.86	37	22,966	1,934	0.019	620.70	11.87	1.000	0.99973
6021	1	11.90	1	714	1,355	0.001	714.00	0.53	1.000	0.99999
6022	1	1.97	6	711	562	0.011	118.50	1.27	1.000	0.99997
6024	1	3.40	1	204	396	0.003	204.00	0.52	1.000	0.99999
6141	1	4.02	1	241	643	0.002	241.00	0.37	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
6144	1	1.48	1	89	327	0.003	89.00	0.27	1.000	0.99999
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	356	1,611.89	9,895	1,515,202	171,875	0.058	153.13	8.82	1.190	0.99980

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
2/1/2021 to 2/28/2021
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	2	3.58	1,378	139,466	1,377	1.001	101.21	101.28	1.001	0.99749
1091	2	1.53	2	92	703	0.003	46.00	0.13	1.000	0.99999
1092	7	17.38	948	72,026	942	1.006	75.98	76.46	1.006	0.99810
1093	1	1.68	231	23,384	231	1.000	101.23	101.23	1.000	0.99749
1101	1	3.25	1	195	165	0.006	195.00	1.18	1.000	0.99997
1102	2	5.17	1,078	111,178	1,062	1.015	103.13	104.69	1.029	0.99740
1103	3	5.20	325	31,751	1,002	0.324	97.70	31.69	1.000	0.99921
1211	1	0.83	30	1,522	1,501	0.020	50.73	1.01	1.000	0.99997
1213	2	1.65	1,136	56,534	568	2.000	49.77	99.53	2.000	0.99753
1230	3	5.78	39	4,009	1,219	0.032	102.79	3.29	1.000	0.99992
1232	1	0.62	1	37	1,203	0.001	37.00	0.03	1.000	0.99999
1241	2	7.72	897	102,608	880	1.019	114.39	116.60	1.019	0.99711
1243	1	1.08	1	65	1,235	0.001	65.00	0.05	1.000	0.99999
1261	3	6.47	405	73,954	403	1.005	182.60	183.51	1.005	0.99544
1262	3	6.55	3	393	167	0.018	131.00	2.35	1.500	0.99994
1263	2	4.00	1,241	239,393	1,217	1.019	193.06	196.71	1.019	0.99512
1265	4	8.01	1,426	269,031	1,309	1.089	188.66	205.52	1.089	0.99490

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1267	2	4.88	166	24,399	83	2.000	146.98	293.96	2.000	0.99271
1271	8	27.47	342	106,768	981	0.349	312.19	108.84	1.043	0.99730
1273	1	2.22	1	133	870	0.001	133.00	0.15	1.000	0.99999
1282	1	0.68	23	957	696	0.033	41.61	1.38	1.000	0.99997
1311	1	2.55	7	1,074	281	0.025	153.43	3.82	1.000	0.99991
1312	1	1.05	10	634	963	0.010	63.40	0.66	1.000	0.99998
1451	1	2.98	547	97,758	547	1.000	178.72	178.72	1.000	0.99557
1452	10	11.92	562	28,531	459	1.224	50.77	62.16	1.224	0.99846
1453	3	6.50	11	1,222	1,816	0.006	111.09	0.67	1.000	0.99998
1454	4	14.58	1,110	98,483	944	1.176	88.72	104.33	1.190	0.99741
1523	4	11.30	6	894	752	0.008	149.00	1.19	1.500	0.99997
1842	4	4.42	598	21,900	292	2.048	36.62	75.00	2.048	0.99814
2051	1	0.73	1	44	207	0.005	44.00	0.21	1.000	0.99999
2052	1	1.38	1	83	86	0.012	83.00	0.97	1.000	0.99998
2092	2	2.75	2	165	946	0.002	82.50	0.17	1.000	0.99999
2172	1	1.33	243	19,602	243	1.000	80.67	80.67	1.000	0.99800
2212	2	2.87	1,342	167,158	1,341	1.001	124.56	124.65	1.001	0.99691
2492	1	3.62	1	217	29	0.034	217.00	7.48	1.000	0.99981
2511	1	1.03	1	62	621	0.002	62.00	0.10	1.000	0.99999
2622	1	3.72	1	223	116	0.009	223.00	1.92	1.000	0.99995
2921	2	3.47	5	614	393	0.013	122.80	1.56	1.000	0.99996
2951	1	2.70	1	162	1,236	0.001	162.00	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
3081	2	1.40	586	8,289	585	1.002	14.15	14.17	1.002	0.99965
3082	2	1.48	329	4,754	328	1.003	14.45	14.49	1.003	0.99964
3121	1	0.78	1	47	1,146	0.001	47.00	0.04	1.000	0.99999
3122	7	12.12	2,687	104,744	874	3.074	38.98	119.84	3.074	0.99703
3123	5	10.74	2,221	140,868	1,108	2.005	63.43	127.14	2.005	0.99685
3181	1	1.10	1	66	756	0.001	66.00	0.09	1.000	0.99999
3221	4	9.27	16	3,239	1,275	0.013	202.44	2.54	1.067	0.99994
3222	1	0.80	40	1,934	791	0.051	48.35	2.45	1.000	0.99994
3303	1	0.93	1	56	1,787	0.001	56.00	0.03	1.000	0.99999
3311	2	5.59	2	335	540	0.004	167.50	0.62	1.000	0.99998
3312	1	5.55	1	333	421	0.002	333.00	0.79	1.000	0.99998
3313	2	10.46	1,815	512,292	1,416	1.282	282.25	361.79	1.282	0.99103
3315	4	7.26	34	3,048	1,598	0.021	89.65	1.91	1.000	0.99995
3421	1	1.63	299	29,471	299	1.000	98.57	98.57	1.000	0.99756
3422	4	8.29	89	5,644	993	0.090	63.42	5.68	1.000	0.99986
3423	1	1.85	169	18,759	398	0.425	111.00	47.13	1.000	0.99883
3551	2	2.79	1,043	110,704	1,042	1.001	106.14	106.24	1.001	0.99737
3552	2	9.20	590	42,610	580	1.017	72.22	73.47	1.017	0.99818
3593	3	2.25	1,892	86,950	943	2.006	45.96	92.21	2.006	0.99771
3621	2	6.05	8	860	1,588	0.005	107.50	0.54	1.143	0.99999
3661	1	1.65	1,066	106,457	1,066	1.000	99.87	99.87	1.000	0.99752
3662	2	4.86	5	687	873	0.006	137.40	0.79	1.000	0.99998

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3663	2	2.45	309	26,790	308	1.003	86.70	86.98	1.003	0.99784
3664	3	6.78	91	5,695	576	0.158	62.58	9.89	1.000	0.99975
3671	1	0.68	22	915	518	0.042	41.59	1.77	1.000	0.99996
3675	1	1.83	9	995	420	0.021	110.56	2.37	1.000	0.99994
3692	2	5.60	8	1,348	415	0.019	168.50	3.25	2.000	0.99992
3693	1	1.45	181	15,786	181	1.000	87.22	87.22	1.000	0.99784
3694	2	3.74	5	760	524	0.010	152.00	1.45	1.000	0.99996
3751	2	4.38	2	263	914	0.002	131.50	0.29	1.000	0.99999
3871	2	9.40	2	564	1,377	0.001	282.00	0.41	1.000	0.99999
3872	16	115.77	1,476	457,478	1,088	1.357	309.94	420.48	1.633	0.98957
3878	2	5.75	6	1,127	824	0.007	187.83	1.37	1.000	0.99997
3892	1	4.73	35	9,954	537	0.065	284.40	18.54	1.000	0.99954
3893	3	12.84	8	2,755	1,162	0.007	344.38	2.37	1.000	0.99994
3912	2	1.09	2	65	1,305	0.002	32.50	0.05	1.000	0.99999
3951	2	2.26	2	136	945	0.002	68.00	0.14	1.000	0.99999
3952	1	4.48	2	539	1,350	0.001	269.50	0.40	1.000	0.99999
3953	1	0.85	1	51	538	0.002	51.00	0.09	1.000	0.99999
3981	2	4.99	3	508	1,544	0.002	169.33	0.33	1.000	0.99999
3992	2	2.50	2	150	171	0.012	75.00	0.88	1.000	0.99998
403	2	2.67	270	23,110	269	1.004	85.59	85.91	1.004	0.99787
4031	2	5.80	10	2,063	709	0.014	206.30	2.91	1.000	0.99993
405	2	1.20	108	3,977	54	2.000	36.82	73.65	2.000	0.99817

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
406	2	1.41	133	5,523	72	1.847	41.53	76.71	1.847	0.99810
407	1	1.25	105	7,889	105	1.000	75.13	75.13	1.000	0.99814
4091	2	1.78	9	676	1,197	0.008	75.11	0.56	1.125	0.99999
4101	1	1.53	974	90,273	975	0.999	92.68	92.59	1.000	0.99770
4102	2	1.68	2	101	540	0.004	50.50	0.19	1.000	0.99999
4134	4	22.44	8	3,062	1,265	0.006	382.75	2.42	1.600	0.99994
4138	2	9.97	7	1,023	759	0.009	146.14	1.35	1.000	0.99997
4142	5	12.04	7	1,185	611	0.011	169.29	1.94	1.400	0.99995
4151	1	1.37	172	14,106	172	1.000	82.01	82.01	1.000	0.99797
4171	1	5.42	1	325	1,181	0.001	325.00	0.28	1.000	0.99999
4211	9	13.86	16	1,313	700	0.023	82.06	1.88	1.143	0.99995
4212	2	2.25	1,074	90,657	1,070	1.004	84.41	84.73	1.004	0.99790
4222	2	3.19	1,003	19,610	1,069	0.938	19.55	18.34	1.001	0.99955
4223	1	1.63	1	98	1,112	0.001	98.00	0.09	1.000	0.99999
4224	2	9.42	2	565	765	0.003	282.50	0.74	1.000	0.99998
4303	5	17.28	1,431	117,530	1,267	1.129	82.13	92.76	1.129	0.99770
4311	2	5.19	5	704	880	0.006	140.80	0.80	1.000	0.99998
4313	1	2.00	15	1,729	551	0.027	115.27	3.14	1.000	0.99992
432	1	0.27	1	16	91	0.011	16.00	0.18	1.000	0.99999
4324	2	3.97	46	7,121	653	0.070	154.80	10.91	1.095	0.99973
4331	2	2.15	328	18,537	327	1.003	56.52	56.69	1.003	0.99859
4332	1	1.53	330	30,437	330	1.000	92.23	92.23	1.000	0.99771

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4333	1	4.03	670	162,296	698	0.960	242.23	232.52	1.000	0.99423
4334	1	1.98	299	35,665	299	1.000	119.28	119.28	1.000	0.99704
4361	2	4.67	11	1,742	1,638	0.007	158.36	1.06	1.000	0.99997
4364	2	9.27	8	1,367	824	0.010	170.88	1.66	1.000	0.99996
4371	1	1.02	1	61	1,550	0.001	61.00	0.04	1.000	0.99999
4373	3	9.48	26	6,195	760	0.034	238.27	8.15	1.083	0.99980
4385	1	8.85	1	531	1,152	0.001	531.00	0.46	1.000	0.99999
4386	2	3.43	2	206	1,667	0.001	103.00	0.12	2.000	0.99999
4431	1	2.08	104	13,098	1,409	0.074	125.94	9.30	1.000	0.99977
4432	1	1.10	1	66	476	0.002	66.00	0.14	1.000	0.99999
4475	1	3.28	14	2,758	14	1.000	197.00	197.00	1.000	0.99551
4476	3	5.11	96	9,843	32	3.000	102.53	307.59	3.000	0.99021
4511	1	1.22	1	73	1,129	0.001	73.00	0.06	1.000	0.99999
4512	4	9.49	12	1,850	1,098	0.011	154.17	1.68	1.714	0.99996
454	1	1.47	60	5,280	60	1.000	88.00	88.00	1.000	0.99782
4714	1	0.65	1	39	342	0.003	39.00	0.11	1.000	0.99999
4784	2	0.89	2	53	101	0.020	26.50	0.52	1.000	0.99999
4791	1	1.22	1	73	624	0.002	73.00	0.12	1.000	0.99999
4793	2	2.24	2	134	733	0.003	67.00	0.18	2.000	0.99999
4794	1	1.30	396	31,178	396	1.000	78.73	78.73	1.000	0.99805
5601	3	8.63	20	7,338	1,411	0.014	366.90	5.20	1.000	0.99987
5602	1	1.27	1	76	711	0.001	76.00	0.11	1.000	0.99999
5603	1	1.00	15	909	1,297	0.012	60.60	0.70	1.000	0.99998

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
5641	1	1.57	8	756	341	0.023	94.50	2.22	1.000	0.99995
5903	2	7.16	5	592	286	0.017	118.40	2.07	1.000	0.99995
5904	1	1.72	3	311	1,279	0.002	103.67	0.24	1.000	0.99999
5905	3	8.35	44	6,217	1,934	0.023	141.30	3.21	1.000	0.99992
6021	1	1.25	1,170	88,432	1,355	0.863	75.58	65.26	1.000	0.99838
6141	2	1.32	1,286	51,599	643	2.000	40.12	80.25	2.000	0.99801
6143	1	1.62	375	36,550	375	1.000	97.47	97.47	1.000	0.99758
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	296	726.96	39,877	4,311,884	171,875	0.232	108.13	25.09	1.224	0.99938

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
3/1/2021 to 3/31/2021
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	1.28	1	77	1,753	0.001	77.00	0.04	1.000	0.99999
1052	1	0.93	77	4,354	1,174	0.066	56.55	3.71	1.000	0.99992
1082	3	26.24	1,997	550,670	1,380	1.447	275.77	399.04	1.447	0.99089
1091	2	1.68	50	2,662	704	0.071	53.24	3.78	1.020	0.99992
1094	3	1.35	1228	46,631	1,256	0.978	37.96	37.13	1.000	0.99915
1103	4	6.86	4	412	1,004	0.004	103.00	0.41	1.000	0.99999
1142	2	2.30	97	5,938	218	0.445	61.22	27.24	1.010	0.99939
1211	4	4.92	4	295	1,501	0.003	73.75	0.20	1.000	0.99999
1212	1	0.88	1	53	340	0.003	53.00	0.16	1.000	0.99999
1213	4	6.90	12	1,444	568	0.021	120.33	2.54	1.000	0.99994
1232	1	1.38	3	250	1,203	0.002	83.33	0.21	1.000	0.99999
1241	1	1.22	11	808	880	0.013	73.45	0.92	1.000	0.99998
1263	2	2.57	25	2,529	1,217	0.021	101.16	2.08	1.000	0.99995
1271	3	3.41	267	3,307	984	0.271	12.39	3.36	1.008	0.99992
1273	1	1.12	1	67	870	0.001	67.00	0.08	1.000	0.99999
1282	1	0.45	1	27	696	0.001	27.00	0.04	1.000	0.99999
1284	1	0.63	960	36,480	960	1.000	38.00	38.00	1.000	0.99913

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1285	1	3.17	1	190	1,122	0.001	190.00	0.17	1.000	0.99999
1311	2	4.58	282	20,500	281	1.004	72.70	72.95	1.004	0.99837
1312	2	1.83	972	69,145	964	1.008	71.14	71.73	1.009	0.99839
1454	1	0.30	1	18	944	0.001	18.00	0.02	1.000	0.99999
1521	2	2.68	2	161	384	0.005	80.50	0.42	1.000	0.99999
1523	5	8.33	1,512	136,133	752	2.009	90.11	181.03	2.009	0.99587
1841	1	0.82	2	98	552	0.004	49.00	0.18	1.000	0.99999
1842	3	3.55	3	213	292	0.010	71.00	0.73	1.000	0.99998
2051	1	1.33	8	642	208	0.038	80.25	3.09	1.000	0.99993
2091	1	7.27	163	71,081	900	0.181	436.08	78.98	1.000	0.99823
2171	1	1.13	1	68	584	0.002	68.00	0.12	1.000	0.99999
2212	2	2.00	55	3,301	1,348	0.041	60.02	2.45	1.000	0.99995
2491	1	2.10	1	126	63	0.016	126.00	2.00	1.000	0.99996
2511	2	4.06	53	9,417	621	0.085	177.68	15.16	1.019	0.99966
2621	2	4.33	3	359	1,200	0.003	119.67	0.30	1.000	0.99999
2622	1	1.65	1	99	115	0.009	99.00	0.86	1.000	0.99998
2961	1	14.70	8	7,058	651	0.012	882.25	10.84	1.000	0.99976
3121	2	3.32	13	978	1,146	0.011	75.23	0.85	1.000	0.99998
3221	1	3.05	1	183	1,276	0.001	183.00	0.14	1.000	0.99999
3232	2	2.45	2	147	444	0.005	73.50	0.33	1.000	0.99999
3302	2	2.70	49	5,389	648	0.076	109.98	8.32	1.021	0.99981
3303	2	4.69	23	1,123	1,788	0.013	48.83	0.63	1.045	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	7	2.87	1,057	77,437	1,598	0.661	73.26	48.46	1.460	0.99891
3421	1	2.38	300	43,094	300	1.000	143.64	143.64	1.000	0.99672
3422	1	2.43	993	145,457	993	1.000	146.48	146.48	1.000	0.99672
3423	2	3.22	399	58,063	398	1.003	145.52	145.89	1.003	0.99667
3471	1	1.18	488	34,672	489	0.998	71.05	70.90	1.000	0.99841
3472	3	6.78	1,478	141,746	1,308	1.130	95.90	108.37	1.131	0.99757
3553	3	3.44	4	311	874	0.005	77.75	0.36	1.000	0.99999
3592	1	1.02	1	61	1,744	0.001	61.00	0.03	1.000	0.99999
3621	1	1.13	1,588	107,984	1,588	1.000	68.00	68.00	1.000	0.99848
3661	1	0.13	1	8	1,072	0.001	8.00	0.01	1.000	0.99999
3662	2	1.28	883	26,159	874	1.010	29.63	29.93	1.010	0.99932
3664	2	17.12	179	152,093	576	0.311	849.68	264.05	1.059	0.99408
3692	1	0.88	416	22,131	416	1.000	53.20	53.20	1.000	0.99881
3694	1	1.10	1	66	524	0.002	66.00	0.13	1.000	0.99999
3702	1	4.55	1	273	662	0.002	273.00	0.41	1.000	0.99999
3751	3	3.62	36	2,630	914	0.039	73.06	2.88	3.000	0.99994
3872	1	0.57	1	34	1,116	0.001	34.00	0.03	1.000	0.99999
3873	1	0.70	1	42	810	0.001	42.00	0.05	1.000	0.99999
3878	2	5.18	72	15,575	828	0.087	216.32	18.81	1.029	0.99958
3893	2	2.27	1,163	71,634	1,163	1.000	61.59	61.59	1.001	0.99862
3894	1	1.83	11	1,211	160	0.069	110.09	7.57	1.000	0.99983
3901	1	2.30	1	138	888	0.001	138.00	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
3903	1	0.95	1	57	304	0.003	57.00	0.19	1.000	0.99999
3913	1	0.92	1	55	824	0.001	55.00	0.07	1.000	0.99999
3951	1	3.47	1	208	945	0.001	208.00	0.22	1.000	0.99999
3952	2	2.67	2	160	1,352	0.001	80.00	0.12	1.000	0.99999
3971	3	7.20	3	432	689	0.004	144.00	0.63	1.000	0.99999
3991	4	2.92	43	2,280	756	0.057	53.02	3.02	1.075	0.99993
3992	2	6.68	23	5,520	172	0.134	240.00	32.09	1.000	0.99928
401	1	0.85	116	5,981	116	1.000	51.56	51.56	1.000	0.99884
4031	2	2.65	60	2,521	710	0.085	42.02	3.55	1.017	0.99992
4091	3	5.71	2,394	282,981	1,197	2.000	118.20	236.41	2.000	0.99470
4092	2	3.70	452	65,599	451	1.002	145.13	145.45	1.002	0.99674
4134	1	1.02	30	1,859	1,265	0.024	61.97	1.47	1.000	0.99997
4137	1	0.43	1	26	806	0.001	26.00	0.03	1.000	0.99999
4142	3	22.65	16	14,131	612	0.026	883.19	23.09	1.000	0.99948
4172	6	6.66	424	8,523	1,816	0.233	20.14	4.69	1.010	0.99989
4211	1	0.07	700	3,313	704	0.994	4.73	4.71	1.000	0.99989
4222	2	2.00	1,076	73,631	1,070	1.006	68.43	68.81	1.007	0.99846
4223	3	2.80	22	1,742	1,112	0.020	79.18	1.57	1.000	0.99996
4324	2	12.51	2	751	654	0.003	375.50	1.15	1.000	0.99997
4341	8	12.91	151	22,884	1,814	0.083	151.55	12.62	1.135	0.99972
4361	5	11.18	56	6,693	1,638	0.034	119.52	4.09	1.018	0.99991
4363	2	4.79	4	651	694	0.006	162.75	0.94	1.000	0.99998

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4364	6	8.83	864	63,013	835	1.035	72.93	75.46	1.035	0.99831
4371	2	3.92	91	10,776	1,550	0.059	118.42	6.95	1.000	0.99984
4372	1	1.03	11	688	419	0.026	62.55	1.64	1.000	0.99996
4385	1	2.65	1	159	1,152	0.001	159.00	0.14	1.000	0.99999
4431	3	8.57	1,411	251,138	1,410	1.001	177.99	178.11	1.001	0.99601
4511	1	1.57	4	376	1,129	0.004	94.00	0.33	1.000	0.99999
4512	2	3.30	488	48,449	1,122	0.435	99.28	43.18	1.002	0.99903
4601	2	3.09	6	577	400	0.015	96.17	1.44	1.200	0.99997
4602	1	1.42	40	3,407	966	0.041	85.18	3.53	1.000	0.99992
4712	1	4.37	1	262	128	0.008	262.00	2.05	1.000	0.99995
4714	1	1.43	1	86	344	0.003	86.00	0.25	1.000	0.99999
4784	1	1.05	1	63	246	0.004	63.00	0.26	1.000	0.99999
4791	1	1.23	17	1,268	624	0.027	74.59	2.03	1.000	0.99995
4794	1	1.78	1	107	396	0.003	107.00	0.27	1.000	0.99999
5601	3	4.24	38	3,793	1,418	0.027	99.82	2.67	1.000	0.99994
5602	1	1.75	1	105	711	0.001	105.00	0.15	1.000	0.99999
5603	2	2.01	1,305	50,408	1,301	1.003	38.63	38.75	1.008	0.99913
5902	1	0.62	1	37	964	0.001	37.00	0.04	1.000	0.99999
5904	1	1.25	8	605	1,280	0.006	75.63	0.47	1.000	0.99999
6024	1	1.20	1	72	396	0.003	72.00	0.18	1.000	0.99999
6141	1	7.20	30	12,758	644	0.047	425.27	19.81	1.000	0.99956
6144	1	2.28	1	137	327	0.003	137.00	0.42	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	203	388.56	26,872	2,833,928	172,092	0.156	105.46	16.47	1.173	0.99963

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
4/1/2021 to 4/30/2021
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	0.58	14	495	1,754	0.008	35.36	0.28	1.000	0.99999
1051	1	1.57	41	3,867	777	0.053	94.32	4.98	1.000	0.99988
1052	2	2.05	43	2,692	1,175	0.037	62.60	2.29	1.024	0.99995
1082	4	7.82	6	566	1,380	0.004	94.33	0.41	1.000	0.99999
1091	2	2.49	2	149	705	0.003	74.50	0.21	1.000	0.99999
1094	1	0.33	1	20	1,238	0.001	20.00	0.02	1.000	0.99999
1103	1	1.08	98	6,459	1,006	0.097	65.91	6.42	1.000	0.99985
1104	1	1.87	123	13,845	191	0.644	112.56	72.49	1.000	0.99832
1211	2	2.02	2	121	1,501	0.001	60.50	0.08	1.000	0.99999
1212	12	4.75	92	2,199	341	0.270	23.90	6.45	1.022	0.99985
1213	1	0.40	17	416	569	0.030	24.47	0.73	1.000	0.99998
1230	2	1.93	1,326	119,926	1,229	1.079	90.44	97.58	1.080	0.99774
1232	2	4.85	6	702	1,203	0.005	117.00	0.58	1.000	0.99999
1241	2	2.87	95	3,957	881	0.108	41.65	4.49	1.011	0.99990
1243	1	0.92	79	4,395	1,235	0.064	55.63	3.56	1.000	0.99992
1263	2	1.75	2	105	1,217	0.002	52.50	0.09	1.000	0.99999
1265	1	0.77	1	46	1,310	0.001	46.00	0.04	1.000	0.99999
1271	1	1.25	12	900	987	0.012	75.00	0.91	1.000	0.99998
1282	3	5.70	57	4,658	697	0.082	81.72	6.68	2.192	0.99985
1312	2	2.40	2	144	965	0.002	72.00	0.15	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
1452	2	13.20	4	1,197	460	0.009	299.25	2.60	1.000	0.99994
1453	1	6.27	1	376	1,816	0.001	376.00	0.21	1.000	0.99999
1454	2	4.83	35	4,524	945	0.037	129.26	4.79	1.000	0.99989
1523	3	3.37	3	202	753	0.004	67.33	0.27	1.000	0.99999
1841	2	2.80	50	3,881	552	0.091	77.62	7.03	1.020	0.99984
1842	1	2.22	1	133	292	0.003	133.00	0.46	1.000	0.99999
2052	2	1.80	2	108	86	0.023	54.00	1.26	1.000	0.99997
2171	1	0.90	9	494	586	0.015	54.89	0.84	1.000	0.99998
2212	5	6.66	57	3,624	1,354	0.042	63.58	2.68	1.036	0.99994
2511	3	9.42	623	151,297	621	1.003	242.85	243.63	1.003	0.99436
2621	3	7.95	25	4,325	1,200	0.021	173.00	3.60	1.000	0.99992
2622	1	3.53	3	638	114	0.026	212.67	5.60	1.000	0.99987
2921	2	2.46	2	148	393	0.005	74.00	0.38	2.000	0.99999
2951	3	5.55	3	333	1,236	0.002	111.00	0.27	1.000	0.99999
2961	1	1.65	8	792	651	0.012	99.00	1.22	1.000	0.99997
3081	1	1.62	1	97	585	0.002	97.00	0.17	1.000	0.99999
3121	1	1.52	1	91	1,145	0.001	91.00	0.08	1.000	0.99999
3123	1	2.00	1	120	1,111	0.001	120.00	0.11	1.000	0.99999
3221	1	1.50	1	90	1,276	0.001	90.00	0.07	1.000	0.99999
3303	1	0.68	8	331	1,790	0.004	41.38	0.18	1.000	0.99999
3313	2	3.85	1,419	132,228	1,419	1.000	93.18	93.18	1.395	0.99784
3314	2	1.76	27	1,335	226	0.119	49.44	5.91	1.000	0.99986
3315	2	3.07	726	46,267	1,599	0.454	63.73	28.93	1.001	0.99933
3422	1	1.48	12	1,070	993	0.012	89.17	1.08	1.000	0.99998
3471	1	2.62	1	157	490	0.002	157.00	0.32	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
3472	1	1.10	7	463	1,308	0.005	66.14	0.35	1.000	0.99999
3551	1	0.70	1	42	1,042	0.001	42.00	0.04	1.000	0.99999
3553	1	0.62	1	37	870	0.001	37.00	0.04	1.000	0.99999
3591	2	1.97	2	118	1,524	0.001	59.00	0.08	1.000	0.99999
3592	2	2.50	2	150	1,747	0.001	75.00	0.09	1.000	0.99999
3662	3	3.32	695	14,054	875	0.794	20.22	16.06	1.016	0.99963
3751	1	1.22	12	878	915	0.013	73.17	0.96	1.000	0.99998
3872	2	1.71	49	3,171	1,143	0.043	64.71	2.77	1.000	0.99994
3878	2	1.55	2	93	833	0.002	46.50	0.11	1.000	0.99999
3891	1	2.83	1	170	447	0.002	170.00	0.38	1.000	0.99999
3892	1	5.35	7	2,250	538	0.013	321.43	4.18	1.000	0.99990
3901	1	1.95	1	117	887	0.001	117.00	0.13	1.000	0.99999
3952	2	1.82	15	1,062	1,354	0.011	70.80	0.78	1.000	0.99998
3981	1	2.00	1	120	1,548	0.001	120.00	0.08	1.000	0.99999
3982	3	3.22	605	42,637	1,819	0.333	70.47	23.44	1.013	0.99946
406	1	0.50	1	30	73	0.014	30.00	0.41	1.000	0.99999
4091	2	3.25	5	648	1,197	0.004	129.60	0.54	1.000	0.99999
4101	4	4.50	20	1,292	975	0.021	64.60	1.33	1.000	0.99997
4102	1	1.12	12	811	538	0.022	67.58	1.51	1.000	0.99997
4138	1	1.58	1	95	756	0.001	95.00	0.13	1.000	0.99999
4141	2	8.28	2	497	83	0.024	248.50	5.99	1.000	0.99986
4142	11	69.76	121	44,345	612	0.198	366.49	72.46	1.110	0.99832
4152	1	1.05	1	63	1,288	0.001	63.00	0.05	1.000	0.99999
4153	2	2.86	94	8,096	1,093	0.086	86.13	7.41	1.000	0.99983

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4155	1	0.90	1	54	1,678	0.001	54.00	0.03	1.000	0.99999
4171	3	8.72	1,182	57,935	1,182	1.000	49.01	49.01	1.713	0.99887
4172	1	0.13	1	8	1,819	0.001	8.00	0.00	1.000	0.99999
4181	1	1.68	1	101	777	0.001	101.00	0.13	1.000	0.99999
4182	1	1.45	1	87	773	0.001	87.00	0.11	1.000	0.99999
4211	2	4.31	17	2,046	707	0.024	120.35	2.89	1.000	0.99993
4212	1	0.93	33	1,858	1,070	0.031	56.30	1.74	1.000	0.99996
4303	2	1.90	155	9,447	1,281	0.121	60.95	7.37	1.006	0.99983
432	1	5.28	1	317	91	0.011	317.00	3.48	1.000	0.99992
4331	1	0.95	1	57	328	0.003	57.00	0.17	1.000	0.99999
4333	1	0.98	1	59	699	0.001	59.00	0.08	1.000	0.99999
4341	3	4.03	63	6,885	1,815	0.035	109.29	3.79	1.033	0.99991
4342	1	2.20	92	12,223	836	0.110	132.86	14.62	1.000	0.99966
4343	4	4.35	135	14,004	1,674	0.081	103.73	8.37	1.007	0.99981
4361	2	2.28	13	793	1,638	0.008	61.00	0.48	1.000	0.99999
4362	1	1.67	1	100	837	0.001	100.00	0.12	1.000	0.99999
4363	1	1.02	109	6,679	697	0.156	61.28	9.58	1.000	0.99978
4371	2	2.13	24	1,779	1,550	0.015	74.13	1.15	1.000	0.99997
4372	2	5.32	12	2,399	419	0.029	199.92	5.73	1.000	0.99987
4431	1	1.75	9	949	1,412	0.006	105.44	0.67	1.000	0.99998
4432	2	2.56	16	1,249	476	0.034	78.06	2.62	1.000	0.99994
4511	1	2.38	55	7,876	1,129	0.049	143.20	6.98	1.000	0.99984
4602	1	1.52	11	1,005	966	0.011	91.36	1.04	1.000	0.99998
4692	1	1.33	1	80	487	0.002	80.00	0.16	1.000	0.99999
4712	1	1.63	1	98	129	0.008	98.00	0.76	1.000	0.99998

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4714	2	2.56	5	478	347	0.014	95.60	1.38	1.250	0.99997
4791	4	2.41	11	392	625	0.018	35.64	0.63	1.000	0.99999
5602	1	0.67	1	40	711	0.001	40.00	0.06	1.000	0.99999
5905	4	7.48	229	23,958	1,934	0.118	104.62	12.39	1.000	0.99971
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	187	339.39	8,882	793,715	172,439	0.052	89.36	4.60	1.137	0.99989

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
5/1/2021 to 5/31/2021
INCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1050	2	2.85	8	878	1,754	0.005	109.75	0.50	1.000	0.99999
1052	3	9.91	3	595	1,175	0.003	198.33	0.51	1.000	0.99999
1082	1	1.48	1	89	1,380	0.001	89.00	0.06	1.000	0.99999
1091	1	1.25	1	75	705	0.001	75.00	0.11	1.000	0.99999
1092	1	1.70	1	102	942	0.001	102.00	0.11	1.000	0.99999
1094	10	10.99	103	4,168	1,238	0.083	40.47	3.37	1.020	0.99992
1101	4	15.57	4	934	165	0.024	233.50	5.66	1.000	0.99987
1102	5	27.49	86	16,907	1,067	0.081	196.59	15.85	1.024	0.99965
1103	8	10.85	1,241	116,316	1,006	1.234	93.73	115.62	1.234	0.99741
1141	2	3.46	3	298	912	0.003	99.33	0.33	1.500	0.99999
1211	2	2.65	19	1,652	1,501	0.013	86.95	1.10	1.000	0.99998
1212	1	1.57	1	94	341	0.003	94.00	0.28	1.000	0.99999
1213	1	0.42	9	229	569	0.016	25.44	0.40	1.000	0.99999
1230	2	3.25	15	804	1,229	0.012	53.60	0.65	1.000	0.99999
1232	5	9.09	30	2,918	1,203	0.025	97.27	2.43	1.071	0.99995
1242	3	11.89	23	1,603	857	0.027	69.70	1.87	1.000	0.99996
1243	1	1.13	14	960	1,235	0.011	68.57	0.78	1.000	0.99998
1263	3	4.50	94	12,972	1,217	0.077	138.00	10.66	1.000	0.99976
1265	1	1.23	155	11,455	1,310	0.118	73.90	8.74	1.000	0.99980
1271	6	25.87	28	6,111	987	0.028	218.25	6.19	1.037	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
1273	4	9.91	64	6,398	870	0.074	99.97	7.35	1.000	0.99984
1282	2	3.70	50	2,104	697	0.072	42.08	3.02	1.000	0.99993
1283	1	1.55	1	93	349	0.003	93.00	0.27	1.000	0.99999
1285	2	6.68	19	6,211	1,122	0.017	326.89	5.54	1.000	0.99988
1312	2	3.06	983	50,628	965	1.019	51.50	52.46	1.019	0.99882
1451	5	5.04	13	637	551	0.024	49.00	1.16	1.000	0.99997
1452	1	3.73	12	2,697	460	0.026	224.75	5.86	1.000	0.99987
1453	2	1.02	2	61	1,816	0.001	30.50	0.03	1.000	0.99999
1454	2	1.85	40	2,240	945	0.042	56.00	2.37	2.000	0.99995
1523	4	6.73	22	1,841	753	0.029	83.68	2.44	1.000	0.99995
1841	1	1.68	552	55,572	552	1.000	101.00	101.00	1.000	0.99769
1842	3	3.95	97	5,787	292	0.332	59.66	19.82	1.102	0.99956
2092	2	12.38	6	1,078	946	0.006	179.67	1.14	1.000	0.99997
2171	1	2.65	586	93,330	586	1.000	159.27	159.27	1.000	0.99643
2211	2	2.03	29	1,668	740	0.039	57.52	2.25	1.000	0.99995
2212	1	0.92	1	55	1,354	0.001	55.00	0.04	1.000	0.99999
2511	3	15.22	623	70,704	621	1.003	113.49	113.86	1.003	0.99745
2621	1	1.43	5	430	1,200	0.004	86.00	0.36	1.000	0.99999
2921	2	2.56	2	154	393	0.005	77.00	0.39	1.000	0.99999
2951	6	12.58	511	77,741	1,236	0.413	152.14	62.90	1.037	0.99859
2961	5	20.07	724	90,503	651	1.056	131.65	139.02	1.056	0.99683
3081	1	2.45	1	147	585	0.002	147.00	0.25	1.000	0.99999
3121	5	6.75	62	5,793	1,145	0.054	93.44	5.06	1.016	0.99989
3122	2	3.13	18	1,337	877	0.021	74.28	1.52	1.000	0.99997
3221	7	11.63	21	1,447	1,276	0.016	68.90	1.13	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
3222	2	11.25	792	480,719	791	1.001	606.97	607.74	1.001	0.98639
3231	2	9.80	213	102,058	211	1.009	479.15	483.69	1.009	0.98916
3232	1	8.02	444	213,919	444	1.000	481.80	481.80	1.000	0.98921
3301	2	1.38	4	166	768	0.005	41.50	0.22	1.000	0.99999
3302	1	0.73	62	2,756	648	0.096	44.45	4.25	1.000	0.99990
3303	5	4.97	131	7,428	1,790	0.073	56.70	4.15	1.031	0.99991
3313	2	7.21	15	4,299	1,419	0.011	286.60	3.03	1.000	0.99993
3422	1	2.13	4	515	993	0.004	128.75	0.52	1.000	0.99999
3471	2	3.60	2	216	490	0.004	108.00	0.44	1.000	0.99999
3472	6	7.58	1,486	225,018	1,308	1.136	151.43	172.03	1.136	0.99615
3551	1	0.95	1	57	1,042	0.001	57.00	0.05	1.000	0.99999
3552	3	7.78	584	155,468	582	1.003	266.21	267.13	1.003	0.99402
3553	5	11.92	257	38,829	870	0.295	151.09	44.63	1.158	0.99900
3592	4	7.73	71	6,224	1,747	0.041	87.66	3.56	1.000	0.99992
3593	1	0.73	33	1,452	949	0.035	44.00	1.53	1.000	0.99997
3621	3	2.57	59	3,389	1,588	0.037	57.44	2.13	1.017	0.99995
3661	2	4.00	24	1,211	1,078	0.022	50.46	1.12	1.043	0.99997
3662	3	1.22	7	185	875	0.008	26.43	0.21	1.000	0.99999
3663	1	5.63	8	2,706	309	0.026	338.25	8.76	1.000	0.99980
3664	3	2.79	43	1,776	577	0.075	41.30	3.08	1.049	0.99993
3671	4	14.90	6	1,161	655	0.009	193.50	1.77	1.000	0.99996
3673	1	11.83	4	2,842	274	0.015	710.50	10.37	1.000	0.99977
3675	4	24.85	4	1,491	421	0.010	372.75	3.54	1.000	0.99992
3691	1	0.58	60	2,100	375	0.160	35.00	5.60	1.000	0.99987
3692	3	3.36	19	2,082	416	0.046	109.58	5.00	1.056	0.99989

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3701	1	0.60	4	147	529	0.008	36.75	0.28	1.000	0.99999
3702	2	0.31	2	19	669	0.003	9.50	0.03	2.000	0.99999
3751	3	2.77	72	4,191	915	0.079	58.21	4.58	1.029	0.99990
3871	1	0.73	3	134	1,086	0.003	44.67	0.12	1.000	0.99999
3873	2	1.54	32	1,582	812	0.039	49.44	1.95	1.000	0.99996
3878	2	2.19	97	6,141	833	0.116	63.31	7.37	1.000	0.99983
3891	4	14.94	4	896	447	0.009	224.00	2.00	1.333	0.99996
3893	6	11.00	32	3,802	1,164	0.027	118.81	3.27	1.103	0.99993
3894	4	7.34	203	22,682	160	1.269	111.73	141.76	1.269	0.99682
3901	4	9.19	1,784	306,784	887	2.011	171.96	345.87	2.011	0.99225
3902	1	3.77	95	21,470	95	1.000	226.00	226.00	1.000	0.99494
3903	3	13.00	617	195,503	305	2.023	316.86	640.99	2.023	0.98564
3912	3	6.17	74	5,863	1,351	0.055	79.23	4.34	1.042	0.99990
3913	5	12.23	97	17,660	826	0.117	182.06	21.38	1.010	0.99952
3914	2	2.66	34	3,066	394	0.086	90.18	7.78	1.000	0.99983
3951	1	0.98	1	59	945	0.001	59.00	0.06	1.000	0.99999
3952	9	16.00	1,243	221,904	1,354	0.918	178.52	163.89	1.134	0.99633
3953	1	1.50	4	360	537	0.007	90.00	0.67	1.000	0.99998
3981	14	18.45	745	88,754	1,548	0.481	119.13	57.33	1.048	0.99872
3982	9	8.08	466	22,411	1,819	0.256	48.09	12.32	1.024	0.99972
3991	1	1.28	1	77	756	0.001	77.00	0.10	1.000	0.99999
3992	2	2.75	172	13,227	172	1.000	76.90	76.90	1.006	0.99828
402	2	11.95	2	717	109	0.018	358.50	6.58	1.000	0.99985
4031	3	2.15	15	604	710	0.021	40.27	0.85	1.000	0.99998
405	1	2.83	1	170	54	0.019	170.00	3.15	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
4092	3	8.24	61	23,061	451	0.135	378.05	51.13	1.034	0.99885
4102	3	2.05	57	3,468	538	0.106	60.84	6.45	1.018	0.99986
4134	2	3.22	16	1,189	1,265	0.013	74.31	0.94	1.000	0.99998
4138	1	1.77	13	1,386	756	0.017	106.62	1.83	1.000	0.99996
4141	3	10.99	3	659	83	0.036	219.67	7.94	1.000	0.99982
4142	8	20.77	160	20,631	612	0.261	128.94	33.71	1.231	0.99924
4151	1	1.27	10	761	172	0.058	76.10	4.42	1.000	0.99990
4152	1	1.27	1	76	1,288	0.001	76.00	0.06	1.000	0.99999
4153	5	19.42	1,077	114,613	1,093	0.985	106.42	104.86	1.228	0.99765
4154	1	34.18	1	2,051	1,349	0.001	2051.00	1.52	1.000	0.99997
4171	1	0.58	38	1,331	1,182	0.032	35.03	1.13	1.000	0.99997
4172	3	5.82	1,825	88,275	1,819	1.003	48.37	48.53	1.003	0.99891
4173	3	6.49	739	43,528	688	1.074	58.90	63.27	1.074	0.99858
4181	1	2.87	16	2,756	777	0.021	172.25	3.55	1.000	0.99992
4211	1	2.00	59	7,128	707	0.083	120.81	10.08	1.000	0.99977
4212	8	24.81	32	2,989	1,070	0.030	93.41	2.79	1.032	0.99994
4222	5	6.62	1,230	53,888	1,070	1.150	43.81	50.36	1.150	0.99887
4223	1	0.32	11	217	1,112	0.010	19.73	0.20	1.000	0.99999
4224	3	2.23	32	1,400	765	0.042	43.75	1.83	1.032	0.99996
4302	5	14.95	10	1,508	662	0.015	150.80	2.28	1.111	0.99995
4303	1	3.98	10	2,395	1,281	0.008	239.50	1.87	1.000	0.99996
4312	3	21.55	29	20,267	891	0.033	698.86	22.75	1.000	0.99949
4313	4	38.98	551	242,174	551	1.000	439.52	439.52	1.477	0.99015
4321	2	4.97	12	1,788	6	2.000	298.00	298.00	2.000	0.99320
4331	1	2.43	3	438	328	0.009	146.00	1.34	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
4334	1	0.90	1	54	299	0.003	54.00	0.18	1.000	0.99999
4341	2	3.23	11	734	1,815	0.006	66.73	0.40	1.100	0.99999
4342	2	4.15	93	11,330	836	0.111	121.83	13.55	1.011	0.99970
4343	1	1.22	1	73	1,674	0.001	73.00	0.04	1.000	0.99999
4361	1	1.50	1,638	147,420	1,638	1.000	90.00	90.00	1.000	0.99798
4362	3	8.30	839	50,658	837	1.002	60.38	60.52	1.002	0.99864
4363	3	8.38	699	68,711	697	1.003	98.30	98.58	1.003	0.99779
4364	4	6.77	861	53,531	846	1.018	62.17	63.28	1.018	0.99858
4371	18	14.58	84	6,591	1,550	0.054	78.46	4.25	1.000	0.99990
4372	4	4.55	422	37,859	419	1.007	89.71	90.36	1.007	0.99798
4373	5	3.62	763	67,540	760	1.004	88.52	88.87	1.005	0.99801
4385	3	4.08	3	245	1,152	0.003	81.67	0.21	1.000	0.99999
4386	1	1.27	1	76	1,668	0.001	76.00	0.05	1.000	0.99999
4431	4	12.90	18	2,482	1,412	0.013	137.89	1.76	1.000	0.99996
4512	2	5.53	1,148	324,153	1,147	1.001	282.36	282.61	1.001	0.99367
4513	1	1.37	1	82	701	0.001	82.00	0.12	1.000	0.99999
454	1	3.45	1	207	60	0.017	207.00	3.45	1.000	0.99992
4602	2	1.66	203	8,763	966	0.210	43.17	9.07	1.000	0.99980
4692	2	2.43	12	986	487	0.025	82.17	2.02	1.091	0.99995
4791	1	0.60	3	108	625	0.005	36.00	0.17	1.000	0.99999
4793	1	1.58	1	95	733	0.001	95.00	0.13	1.000	0.99999
4794	1	2.17	5	654	396	0.013	130.80	1.65	1.000	0.99996
5601	5	5.49	56	4,702	1,426	0.039	83.96	3.30	1.018	0.99993
5603	2	2.10	226	15,614	1,305	0.173	69.09	11.96	1.097	0.99973
5641	1	0.87	1	52	341	0.003	52.00	0.15	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
5901	1	1.50	1	90	821	0.001	90.00	0.11	1.000	0.99999
5903	1	4.77	11	3,154	287	0.038	286.73	10.99	1.000	0.99975
5904	5	8.32	119	6,167	1,280	0.093	51.82	4.82	1.000	0.99989
5905	9	14.74	109	5,220	1,934	0.056	47.89	2.70	1.058	0.99994
6021	9	80.30	58	26,475	1,355	0.043	456.47	19.54	1.018	0.99956
6022	2	4.41	52	10,613	562	0.093	204.10	18.88	1.020	0.99958
6023	1	20.55	1	1,233	129	0.008	1233.00	9.56	1.000	0.99979
6024	1	0.93	1	56	396	0.003	56.00	0.14	1.000	0.99999
6142	1	1.55	1	93	327	0.003	93.00	0.28	1.000	0.99999
6143	1	0.18	1	11	375	0.003	11.00	0.03	1.000	0.99999
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	449	1,081.82	30,033	4,374,780	172,439	0.174	145.67	25.37	1.103	0.99943

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
6/1/2021 to 6/30/2021
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	7	7.43	469	34,360	1,754	0.267	73.26	19.59	1.484	0.99955
1052	3	2.83	63	4,395	1,175	0.054	69.76	3.74	1.033	0.99991
1082	5	11.46	26	1,926	1,380	0.019	74.08	1.40	1.040	0.99997
1091	1	1.93	1	116	705	0.001	116.00	0.16	1.000	0.99999
1092	8	23.80	262	134,122	942	0.278	511.92	142.38	1.074	0.99670
1093	1	5.63	1	338	231	0.004	338.00	1.46	1.000	0.99997
1094	1	1.62	3	292	1,238	0.002	97.33	0.24	1.000	0.99999
1102	5	16.17	49	5,892	1,067	0.046	120.24	5.52	1.043	0.99987
1141	2	6.36	21	6,291	912	0.023	299.57	6.90	1.000	0.99984
1211	3	2.22	6	214	1,501	0.004	35.67	0.14	1.000	0.99999
1212	1	1.32	1	79	341	0.003	79.00	0.23	1.000	0.99999
1213	5	4.84	7	430	569	0.012	61.43	0.76	1.000	0.99998
1230	5	3.29	12	482	1,229	0.010	40.17	0.39	1.000	0.99999
1232	7	10.29	214	24,526	1,203	0.178	114.61	20.39	1.223	0.99953
1233	1	2.18	1	131	647	0.002	131.00	0.20	1.000	0.99999
1241	1	2.73	1	164	881	0.001	164.00	0.19	1.000	0.99999
1243	1	1.17	7	495	1,235	0.006	70.71	0.40	1.000	0.99999
1263	3	2.16	25	638	1,217	0.021	25.52	0.52	1.000	0.99999
1265	2	2.09	117	7,192	1,310	0.089	61.47	5.49	1.009	0.99987
1271	3	13.71	3	823	987	0.003	274.33	0.83	1.000	0.99998

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1273	1	1.65	1	99	870	0.001	99.00	0.11	1.000	0.99999
1282	4	10.29	4	618	697	0.006	154.50	0.89	1.000	0.99998
1284	2	4.60	30	3,059	954	0.031	101.97	3.21	1.034	0.99993
1312	7	12.93	52	6,255	965	0.054	120.29	6.48	1.040	0.99985
1451	1	1.47	15	1,321	551	0.027	88.07	2.40	1.000	0.99994
1452	4	13.72	8	1,683	460	0.017	210.38	3.66	1.143	0.99992
1453	4	10.41	10	897	1,816	0.006	89.70	0.49	1.000	0.99999
1454	5	9.18	108	3,255	945	0.114	30.14	3.44	1.038	0.99992
1521	4	3.57	26	1,803	384	0.068	69.35	4.70	1.083	0.99989
1523	5	7.09	198	28,155	753	0.263	142.20	37.39	1.131	0.99913
1842	2	1.93	2	116	292	0.007	58.00	0.40	1.000	0.99999
2051	4	4.62	211	15,375	208	1.014	72.87	73.92	1.014	0.99829
2052	2	4.80	86	12,065	86	1.000	140.29	140.29	1.911	0.99675
2091	2	3.80	4	581	900	0.004	145.25	0.65	1.000	0.99999
2092	2	2.40	24	1,593	946	0.025	66.38	1.68	1.000	0.99996
2171	1	0.70	5	213	586	0.009	42.60	0.36	1.000	0.99999
2172	1	1.38	1	83	243	0.004	83.00	0.34	1.000	0.99999
2211	1	1.87	18	2,017	740	0.024	112.06	2.73	1.000	0.99994
2212	6	9.18	51	4,059	1,354	0.038	79.59	3.00	1.063	0.99993
2492	1	3.12	1	187	29	0.034	187.00	6.45	1.000	0.99985
2511	2	4.83	622	110,123	621	1.002	177.05	177.33	1.002	0.99590
2621	3	6.02	68	7,452	1,200	0.057	109.59	6.21	1.046	0.99986
2622	1	1.03	1	62	114	0.009	62.00	0.54	1.000	0.99999
2921	7	3.43	25	970	393	0.064	38.80	2.47	1.136	0.99994
2951	3	3.78	8	573	1,236	0.006	71.63	0.46	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
2961	5	10.88	103	23,908	651	0.158	232.12	36.73	1.288	0.99915
2962	1	0.82	1	49	262	0.004	49.00	0.19	1.000	0.99999
3081	10	51.71	602	73,990	585	1.029	122.91	126.48	1.029	0.99707
3082	2	4.09	329	40,875	328	1.003	124.24	124.62	1.003	0.99712
3122	3	1.97	6	189	877	0.007	31.50	0.22	1.000	0.99999
3181	1	0.95	1	57	756	0.001	57.00	0.08	1.000	0.99999
3221	5	7.72	85	2,890	1,276	0.067	34.00	2.26	1.000	0.99995
3222	1	5.02	1	301	791	0.001	301.00	0.38	1.000	0.99999
3232	1	4.30	9	2,326	444	0.020	258.44	5.24	1.000	0.99988
3301	3	3.60	31	2,555	768	0.040	82.42	3.33	1.033	0.99992
3303	1	3.27	1	196	1,790	0.001	196.00	0.11	1.000	0.99999
3304	2	2.07	2	124	1,115	0.002	62.00	0.11	1.000	0.99999
3311	1	1.32	1	79	540	0.002	79.00	0.15	1.000	0.99999
3313	1	1.88	1	113	1,419	0.001	113.00	0.08	1.000	0.99999
3314	1	1.13	19	1,294	226	0.084	68.11	5.73	1.000	0.99987
3422	1	2.03	60	7,298	993	0.060	121.63	7.35	1.000	0.99983
3423	1	3.17	9	1,714	399	0.023	190.44	4.30	1.000	0.99990
3471	2	1.90	37	2,150	490	0.076	58.11	4.39	1.000	0.99990
3472	3	2.96	16	525	1,308	0.012	32.81	0.40	1.000	0.99999
3551	2	1.89	69	5,029	1,042	0.066	72.88	4.83	1.000	0.99989
3552	3	2.96	29	2,051	582	0.050	70.72	3.52	1.000	0.99992
3553	2	2.83	42	3,586	870	0.048	85.38	4.12	1.105	0.99990
3591	2	1.48	36	1,602	1,524	0.024	44.50	1.05	1.000	0.99998
3592	10	20.53	231	22,273	1,747	0.132	96.42	12.75	1.000	0.99970
3593	1	1.58	42	3,999	949	0.044	95.21	4.21	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
3594	1	2.53	1	152	787	0.001	152.00	0.19	1.000	0.99999
3621	4	3.62	148	6,213	1,588	0.093	41.98	3.91	1.014	0.99991
3661	2	2.23	32	3,351	1,078	0.030	104.72	3.11	1.032	0.99993
3662	5	4.82	32	1,124	875	0.037	35.13	1.28	1.000	0.99997
3663	1	0.92	14	770	309	0.045	55.00	2.49	1.000	0.99994
3664	3	6.33	3	380	577	0.005	126.67	0.66	1.000	0.99998
3671	1	0.68	1	41	655	0.002	41.00	0.06	1.000	0.99999
3675	1	1.62	25	2,425	421	0.059	97.00	5.76	1.000	0.99987
3691	1	1.35	19	1,539	375	0.051	81.00	4.10	1.000	0.99991
3693	1	2.22	181	24,229	181	1.000	133.86	133.86	1.000	0.99690
3701	2	5.98	2	359	529	0.004	179.50	0.68	1.000	0.99998
3702	1	0.83	14	711	669	0.021	50.79	1.06	1.000	0.99998
3751	5	8.49	44	4,827	915	0.048	109.70	5.28	1.000	0.99988
3871	2	1.85	2	111	1,086	0.002	55.50	0.10	1.000	0.99999
3872	2	1.79	2	107	1,143	0.002	53.50	0.09	1.000	0.99999
3873	2	2.20	15	1,178	812	0.018	78.53	1.45	1.071	0.99997
3878	5	5.42	69	5,610	833	0.083	81.30	6.73	1.030	0.99984
3891	2	2.20	2	132	447	0.004	66.00	0.30	1.000	0.99999
3892	2	8.92	136	57,735	538	0.253	424.52	107.31	1.007	0.99752
3893	3	4.29	84	8,493	1,164	0.072	101.11	7.30	1.063	0.99983
3901	3	3.73	47	2,192	887	0.053	46.64	2.47	1.000	0.99994
3903	1	1.60	19	1,839	305	0.062	96.79	6.03	1.000	0.99986
3912	1	2.98	11	1,969	1,351	0.008	179.00	1.46	1.000	0.99997
3913	1	3.18	1	191	826	0.001	191.00	0.23	1.000	0.99999
3951	5	5.83	12	622	945	0.013	51.83	0.66	1.000	0.99998
3952	3	3.89	101	6,807	1,354	0.075	67.40	5.03	1.010	0.99988

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3953	5	16.82	147	34,260	537	0.274	233.06	63.80	1.050	0.99852
3981	1	1.33	2	161	1,548	0.001	80.50	0.10	1.000	0.99999
3991	1	1.08	17	1,070	756	0.022	62.94	1.42	1.000	0.99997
3992	2	2.45	2	147	172	0.012	73.50	0.85	1.000	0.99998
402	1	0.85	1	51	109	0.009	51.00	0.47	1.000	0.99999
4091	1	4.18	6	1,510	1,197	0.005	251.67	1.26	1.000	0.99997
4101	1	0.85	3	155	975	0.003	51.67	0.16	1.000	0.99999
4102	1	6.88	6	2,478	538	0.011	413.00	4.61	1.000	0.99989
4132	1	0.50	567	17,388	567	1.000	30.67	30.67	1.000	0.99929
4134	2	4.05	1,279	262,368	1,265	1.011	205.14	207.41	1.011	0.99520
4136	2	2.60	2	156	678	0.003	78.00	0.23	1.000	0.99999
4137	2	2.57	41	2,514	808	0.051	61.32	3.11	1.025	0.99993
4142	4	5.30	52	4,375	612	0.085	84.13	7.15	1.300	0.99983
4151	1	1.62	64	6,230	172	0.372	97.34	36.22	1.000	0.99916
4153	1	0.90	7	365	1,093	0.006	52.14	0.33	1.000	0.99999
4171	2	3.48	76	7,990	1,182	0.064	105.13	6.76	1.000	0.99984
4172	3	4.19	3	251	1,819	0.002	83.67	0.14	1.000	0.99999
4181	2	4.75	2	285	777	0.003	142.50	0.37	1.000	0.99999
4182	1	1.92	7	811	773	0.009	115.86	1.05	1.000	0.99998
4211	1	3.43	2	413	707	0.003	206.50	0.58	1.000	0.99999
4212	6	5.08	171	3,462	1,070	0.160	20.25	3.24	1.024	0.99993
4222	12	14.86	46	2,454	1,070	0.043	53.35	2.29	1.022	0.99995
4223	10	7.65	110	4,813	1,112	0.099	43.75	4.33	1.000	0.99990
4301	2	2.60	37	2,989	111	0.333	80.78	26.93	1.000	0.99938
4302	1	1.32	1	79	662	0.002	79.00	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
4303	2	15.42	11	8,690	1,281	0.009	790.00	6.78	1.000	0.99984
4304	1	0.48	8	238	244	0.033	29.75	0.98	1.000	0.99998
4311	1	3.28	1	197	880	0.001	197.00	0.22	1.000	0.99999
4312	1	2.35	14	1,974	891	0.016	141.00	2.22	1.000	0.99995
4313	4	4.21	20	1,461	551	0.036	73.05	2.65	1.053	0.99994
4321	1	3.33	1	200	6	0.167	200.00	33.33	1.000	0.99923
4333	1	3.22	1	193	699	0.001	193.00	0.28	1.000	0.99999
4341	10	16.01	2,081	185,256	1,815	1.147	89.02	102.07	1.147	0.99764
4342	1	1.67	1	100	836	0.001	100.00	0.12	1.000	0.99999
4343	1	4.28	1	257	1,674	0.001	257.00	0.15	1.000	0.99999
4361	4	3.85	7	397	1,638	0.004	56.71	0.24	1.750	0.99999
4362	2	2.04	85	5,185	837	0.102	61.00	6.19	1.012	0.99986
4363	6	12.42	84	6,824	697	0.121	81.24	9.79	1.024	0.99977
4364	2	1.68	9	524	846	0.011	58.22	0.62	1.000	0.99999
4371	5	5.33	5	319	1,550	0.003	63.80	0.21	1.000	0.99999
4372	2	3.10	2	186	419	0.005	93.00	0.44	1.000	0.99999
4373	2	2.70	31	2,514	760	0.041	81.10	3.31	1.148	0.99992
4431	6	9.25	8	845	1,412	0.006	105.63	0.60	1.000	0.99999
455	2	4.94	2	296	168	0.012	148.00	1.76	1.000	0.99996
4601	1	1.28	1	77	401	0.002	77.00	0.19	1.000	0.99999
4602	5	6.56	109	8,992	966	0.113	82.50	9.31	1.009	0.99978
4692	1	3.73	1	224	487	0.002	224.00	0.46	1.000	0.99999
4714	2	2.32	2	139	347	0.006	69.50	0.40	1.000	0.99999
4791	4	3.54	36	1,860	625	0.058	51.67	2.98	1.161	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
4794	2	4.78	34	2,747	396	0.086	80.79	6.94	1.063	0.99984
5601	2	2.00	6	396	1,426	0.004	66.00	0.28	1.000	0.99999
5901	4	2.22	101	2,663	821	0.123	26.37	3.24	1.010	0.99992
5902	4	4.45	7	446	962	0.007	63.71	0.46	1.167	0.99999
5903	1	1.98	13	1,551	287	0.045	119.31	5.40	1.000	0.99987
5904	2	15.68	91	6,303	1,280	0.071	69.26	4.92	1.046	0.99989
5905	3	4.00	82	8,798	1,934	0.042	107.29	4.55	1.025	0.99989
6021	4	9.26	89	9,240	1,355	0.066	103.82	6.82	1.085	0.99984
6022	1	1.93	1	116	562	0.002	116.00	0.21	1.000	0.99999
6024	2	3.62	173	18,400	396	0.437	106.36	46.46	1.006	0.99892
6141	4	6.84	4	411	644	0.006	102.75	0.64	1.000	0.99999
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	427	757.60	11,421	1,392,594	172,439	0.066	121.93	8.08	1.058	0.99981

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
7/1/2021 to 7/31/2021
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	1	0.82	23	1,145	777	0.030	49.78	1.47	1.000	0.99997
1082	2	2.83	1,381	153,239	1,380	1.001	110.96	111.04	1.001	0.99751
1091	4	8.26	37	2,992	705	0.052	80.86	4.24	1.000	0.99990
1092	1	0.85	22	1,139	942	0.023	51.77	1.21	1.000	0.99997
1094	1	0.78	4	188	1,238	0.003	47.00	0.15	1.000	0.99999
1101	1	1.42	1	85	165	0.006	85.00	0.52	1.000	0.99999
1103	1	1.07	1	64	1,006	0.001	64.00	0.06	1.000	0.99999
1211	1	1.42	1	85	1,501	0.001	85.00	0.06	1.000	0.99999
1230	1	0.57	1	34	1,229	0.001	34.00	0.03	1.000	0.99999
1233	2	4.70	2	282	647	0.003	141.00	0.44	1.000	0.99999
1241	3	21.08	129	67,777	881	0.146	525.40	76.93	1.500	0.99828
1242	1	1.17	857	60,561	857	1.000	70.67	70.67	1.000	0.99839
1263	4	4.16	503	26,580	1,217	0.413	52.84	21.84	1.091	0.99951
1271	2	23.21	14	2,508	987	0.014	179.14	2.54	1.077	0.99994
1273	1	2.33	13	1,832	870	0.015	140.92	2.11	1.000	0.99995
1284	1	4.00	1	240	954	0.001	240.00	0.25	1.000	0.99999
1285	2	3.70	374	55,587	1,122	0.333	148.63	49.54	1.100	0.99889

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1311	1	0.62	1	37	281	0.004	37.00	0.13	1.000	0.99999
1312	3	4.78	3	287	965	0.003	95.67	0.30	1.000	0.99999
1452	1	2.03	2	245	460	0.004	122.50	0.53	1.000	0.99999
1455	1	1.63	1	98	414	0.002	98.00	0.24	1.000	0.99999
1521	1	1.20	1	72	384	0.003	72.00	0.19	1.000	0.99999
1522	1	0.77	105	4,861	105	1.000	46.30	46.30	1.000	0.99896
1523	3	4.15	280	20,205	753	0.372	72.16	26.83	1.049	0.99940
2052	1	1.20	1	72	86	0.012	72.00	0.84	1.000	0.99998
2211	1	1.43	1	86	740	0.001	86.00	0.12	1.000	0.99999
2212	4	6.37	80	4,458	1,354	0.059	55.73	3.29	1.026	0.99993
2491	1	2.23	63	8,476	63	1.000	134.54	134.54	1.000	0.99699
2511	1	2.40	2	289	621	0.003	144.50	0.47	1.000	0.99999
2621	1	0.85	1	51	1,200	0.001	51.00	0.04	1.000	0.99999
2951	3	7.90	53	7,822	1,236	0.043	147.58	6.33	1.019	0.99986
2961	1	6.20	24	8,931	651	0.037	372.13	13.72	1.000	0.99969
2962	1	0.90	1	54	262	0.004	54.00	0.21	1.000	0.99999
3082	1	2.42	29	4,215	328	0.088	145.34	12.85	1.000	0.99971
3121	3	5.59	564	84,338	1,145	0.493	149.54	73.66	1.362	0.99835
3181	3	2.46	48	2,813	756	0.063	58.60	3.72	1.043	0.99992
3221	8	14.56	80	14,107	1,276	0.063	176.34	11.06	1.026	0.99975
3301	2	5.35	2	321	768	0.003	160.50	0.42	1.000	0.99999
3302	1	2.42	1	145	648	0.002	145.00	0.22	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
3303	3	3.04	1,802	140,581	1,790	1.007	78.01	78.54	1.007	0.99824
3304	2	5.28	101	24,118	1,115	0.091	238.79	21.63	1.010	0.99952
3312	1	0.37	29	643	425	0.068	22.17	1.51	1.000	0.99997
3314	2	2.29	31	2,354	226	0.137	75.94	10.42	1.000	0.99977
3422	2	4.46	3	322	993	0.003	107.33	0.32	1.000	0.99999
3472	1	0.38	1	23	1,308	0.001	23.00	0.02	1.000	0.99999
3551	1	1.72	1,042	107,447	1,042	1.000	103.12	103.12	1.000	0.99769
3552	4	10.00	320	116,248	582	0.550	363.28	199.74	1.016	0.99553
3553	1	1.70	869	88,985	870	0.999	102.40	102.28	1.000	0.99771
3591	3	3.82	35	2,305	1,524	0.023	65.86	1.51	1.000	0.99997
3592	2	4.20	6	835	1,747	0.003	139.17	0.48	1.000	0.99999
3594	1	1.12	11	744	787	0.014	67.64	0.95	1.000	0.99998
3621	1	0.80	1	48	1,588	0.001	48.00	0.03	1.000	0.99999
3661	2	1.25	77	2,693	1,078	0.071	34.97	2.50	1.000	0.99994
3662	8	7.46	183	15,374	875	0.209	84.01	17.57	3.268	0.99961
3663	1	3.08	1	185	309	0.003	185.00	0.60	1.000	0.99999
3664	4	5.81	17	1,278	577	0.029	75.18	2.21	1.308	0.99995
3673	2	2.05	5	314	274	0.018	62.80	1.15	1.000	0.99997
3691	1	1.78	1	107	375	0.003	107.00	0.29	1.000	0.99999
3701	1	3.78	34	7,724	529	0.064	227.18	14.60	1.000	0.99967
3702	1	1.25	6	452	669	0.009	75.33	0.68	1.000	0.99998
3871	1	0.50	1	30	1,086	0.001	30.00	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
3872	2	2.35	47	4,728	1,143	0.041	100.60	4.14	1.000	0.99991
3878	1	0.92	1	55	833	0.001	55.00	0.07	1.000	0.99999
3891	1	1.10	1	66	447	0.002	66.00	0.15	1.000	0.99999
3902	1	1.20	1	72	95	0.011	72.00	0.76	1.000	0.99998
3913	1	0.95	1	57	826	0.001	57.00	0.07	1.000	0.99999
3951	1	0.17	945	10,269	945	1.000	10.87	10.87	1.000	0.99976
3953	2	3.07	22	2,955	537	0.041	134.32	5.50	1.048	0.99988
3971	2	2.52	4	368	691	0.006	92.00	0.53	1.000	0.99999
3981	2	2.33	1,549	137,926	1,548	1.001	89.04	89.10	1.001	0.99800
3982	6	8.18	139	14,070	1,819	0.076	101.22	7.74	1.007	0.99983
3991	2	7.61	412	164,475	756	0.545	399.21	217.56	1.033	0.99513
3992	1	0.80	1	48	172	0.006	48.00	0.28	1.000	0.99999
4031	1	1.62	5	488	710	0.007	97.60	0.69	1.000	0.99998
4091	1	1.30	14	1,103	1,197	0.012	78.79	0.92	1.000	0.99998
4092	1	4.27	1	256	451	0.002	256.00	0.57	1.000	0.99999
4102	1	4.53	6	1,637	538	0.011	272.83	3.04	1.000	0.99993
4131	1	1.18	205	14,736	205	1.000	71.88	71.88	1.000	0.99839
4133	1	1.77	1	106	278	0.004	106.00	0.38	1.000	0.99999
4134	1	1.12	1	67	1,265	0.001	67.00	0.05	1.000	0.99999
4141	1	3.98	1	239	83	0.012	239.00	2.88	1.000	0.99994
4142	2	2.70	2	162	612	0.003	81.00	0.26	1.000	0.99999
4152	1	2.18	1	131	1,288	0.001	131.00	0.10	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
4153	1	4.77	15	4,296	1,093	0.014	286.40	3.93	1.000	0.99991
4154	3	10.93	1,389	213,886	1,349	1.030	153.99	158.55	1.030	0.99645
4155	2	1.31	1,679	89,659	1,678	1.001	53.40	53.43	1.001	0.99880
4172	3	5.95	102	15,284	1,819	0.056	149.84	8.40	1.000	0.99981
4181	2	0.92	20	820	777	0.026	41.00	1.06	1.053	0.99998
4182	2	10.31	10	3,210	773	0.013	321.00	4.15	1.000	0.99991
4212	3	2.80	3	168	1,070	0.003	56.00	0.16	1.000	0.99999
4222	4	3.90	79	4,419	1,070	0.074	55.94	4.13	1.026	0.99991
4223	2	2.90	55	6,435	1,112	0.049	117.00	5.79	1.000	0.99987
4224	1	6.28	33	12,461	765	0.043	377.61	16.29	1.000	0.99964
4301	1	0.55	9	302	111	0.081	33.56	2.72	1.000	0.99994
4303	1	4.32	10	2,595	1,281	0.008	259.50	2.03	1.000	0.99995
4313	2	2.79	13	1,236	551	0.024	95.08	2.24	1.000	0.99995
4341	5	7.56	35	2,671	1,815	0.019	76.31	1.47	1.094	0.99997
4342	7	11.51	185	13,126	836	0.221	70.95	15.70	1.149	0.99965
4343	2	1.97	47	3,224	1,674	0.028	68.60	1.93	1.022	0.99996
4361	1	0.98	1	59	1,638	0.001	59.00	0.04	1.000	0.99999
4363	2	1.86	96	5,415	697	0.138	56.41	7.77	2.000	0.99983
4364	1	3.32	1	199	846	0.001	199.00	0.24	1.000	0.99999
4371	3	11.82	46	16,519	1,550	0.030	359.11	10.66	1.022	0.99976
4372	3	5.25	9	549	419	0.021	61.00	1.31	1.125	0.99997
4373	2	2.98	2	179	760	0.003	89.50	0.24	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
4385	1	1.00	1	60	1,152	0.001	60.00	0.05	1.000	0.99999
4431	7	19.35	164	22,013	1,412	0.116	134.23	15.59	1.086	0.99965
4432	12	9.78	650	117,160	476	1.366	180.25	246.13	1.366	0.99449
4511	4	11.37	57	13,624	1,129	0.050	239.02	12.07	1.000	0.99973
4601	1	1.27	1	76	401	0.002	76.00	0.19	1.000	0.99999
4714	1	23.42	1	1,405	347	0.003	1405.00	4.05	1.000	0.99991
4791	2	1.94	23	1,154	625	0.037	50.17	1.85	1.045	0.99996
4794	3	6.53	16	1,991	396	0.040	124.44	5.03	1.000	0.99989
5601	1	0.57	36	1,244	1,426	0.025	34.56	0.87	1.000	0.99998
5602	5	7.92	11	1,901	711	0.015	172.82	2.67	1.000	0.99994
5603	2	1.56	9	719	1,305	0.007	79.89	0.55	1.125	0.99999
5902	1	1.33	103	8,246	962	0.107	80.06	8.57	1.000	0.99981
5905	1	3.40	1	204	1,934	0.001	204.00	0.11	1.000	0.99999
6024	1	1.18	1	71	396	0.003	71.00	0.18	1.000	0.99999
6141	1	3.25	165	32,201	644	0.256	195.16	50.00	1.000	0.99888
6142	1	2.80	9	1,513	327	0.028	168.11	4.63	1.000	0.99990
6143	1	3.80	41	9,360	375	0.109	228.29	24.96	1.000	0.99944
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	248	487.27	17,772	2,012,869	172,439	0.103	113.26	11.67	1.045	0.99974

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
8/1/2021 to 8/31/2021
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	0.97	1	58	1,754	0.001	58.00	0.03	1.000	0.99999
1051	2	2.40	20	944	777	0.026	47.20	1.21	1.000	0.99997
1052	1	0.42	1	25	1,175	0.001	25.00	0.02	1.000	0.99999
1082	1	0.77	10	464	1,380	0.007	46.40	0.34	1.000	0.99999
1092	1	2.77	10	1,669	942	0.011	166.90	1.77	1.000	0.99996
1101	2	1.89	2	113	165	0.012	56.50	0.68	2.000	0.99998
1102	1	1.40	1	84	1,067	0.001	84.00	0.08	1.000	0.99999
1104	1	0.25	1	15	191	0.005	15.00	0.08	1.000	0.99999
1141	3	10.54	56	10,163	912	0.061	181.48	11.14	1.077	0.99975
1211	1	1.07	1	64	1,501	0.001	64.00	0.04	1.000	0.99999
1232	1	1.25	1	75	1,203	0.001	75.00	0.06	1.000	0.99999
1241	1	1.07	5	321	881	0.006	64.20	0.36	1.000	0.99999
1262	2	1.05	2	63	167	0.012	31.50	0.38	1.000	0.99999
1263	2	6.05	3	590	1,217	0.002	196.67	0.48	1.000	0.99999
1265	2	4.87	15	2,913	1,310	0.011	194.20	2.22	1.000	0.99995
1267	1	2.20	1	132	83	0.012	132.00	1.59	1.000	0.99996
1271	2	7.97	2	478	987	0.002	239.00	0.48	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
1273	1	4.42	1	265	870	0.001	265.00	0.30	1.000	0.99999
1451	1	0.73	55	2,446	551	0.100	44.47	4.44	1.000	0.99990
1453	2	1.74	2	104	1,816	0.001	52.00	0.06	1.000	0.99999
1454	3	6.55	3,959	682,238	945	4.189	172.33	721.94	1.967	0.98383
1522	1	1.25	1	75	105	0.010	75.00	0.71	1.000	0.99998
1523	3	2.67	4	234	753	0.005	58.50	0.31	1.000	0.99999
1842	1	1.25	1	75	292	0.003	75.00	0.26	1.000	0.99999
2052	2	2.01	3	177	86	0.035	59.00	2.06	1.000	0.99995
2091	2	2.79	183	15,570	900	0.203	85.08	17.30	1.005	0.99961
2211	2	2.10	4	284	740	0.005	71.00	0.38	1.000	0.99999
2212	4	4.95	59	3,628	1,354	0.044	61.49	2.68	1.017	0.99994
2501	1	2.75	1	165	84	0.012	165.00	1.96	1.000	0.99996
2511	1	0.48	1	29	621	0.002	29.00	0.05	1.000	0.99999
2621	1	1.47	1	88	1,200	0.001	88.00	0.07	1.000	0.99999
2622	1	2.37	3	426	114	0.026	142.00	3.74	1.000	0.99992
2951	3	5.75	31	3,574	1,236	0.025	115.29	2.89	1.000	0.99994
2961	3	6.12	74	15,992	651	0.114	216.11	24.57	1.000	0.99945
3122	1	2.50	1	150	877	0.001	150.00	0.17	1.000	0.99999
3123	2	3.56	25	4,765	1,111	0.023	190.60	4.29	1.000	0.99990
3221	6	7.97	2,718	384,934	1,276	2.130	141.62	301.67	1.004	0.99324
3231	2	2.61	42	1,939	211	0.199	46.17	9.19	1.024	0.99979
3303	4	4.10	4	246	1,790	0.002	61.50	0.14	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	2.42	14	1,155	1,115	0.013	82.50	1.04	1.000	0.99998
3312	2	3.50	6	894	425	0.014	149.00	2.10	1.200	0.99995
3315	2	3.02	65	5,694	1,599	0.041	87.60	3.56	1.016	0.99992
3422	1	1.82	25	2,732	993	0.025	109.28	2.75	1.000	0.99994
3472	2	1.14	73	3,030	1,308	0.056	41.51	2.32	1.106	0.99995
3551	1	1.05	2	127	1,042	0.002	63.50	0.12	1.000	0.99999
3552	1	10.57	10	6,344	582	0.017	634.40	10.90	1.000	0.99976
3553	2	2.66	16	1,245	870	0.018	77.81	1.43	1.067	0.99997
3591	2	5.58	2	335	1,524	0.001	167.50	0.22	1.000	0.99999
3592	1	1.43	4	346	1,747	0.002	86.50	0.20	1.000	0.99999
3593	1	1.22	1	73	949	0.001	73.00	0.08	1.000	0.99999
3594	1	0.75	26	1,187	787	0.033	45.65	1.51	1.000	0.99997
3621	5	6.12	166	7,671	1,588	0.105	46.21	4.83	1.012	0.99989
3661	2	5.53	105	5,888	1,078	0.097	56.08	5.46	1.010	0.99988
3662	1	0.65	13	512	875	0.015	39.38	0.59	1.000	0.99999
3663	2	2.69	27	3,123	309	0.087	115.67	10.11	1.038	0.99977
3664	2	2.00	25	1,417	577	0.043	56.68	2.46	1.000	0.99994
3673	1	4.02	1	241	274	0.004	241.00	0.88	1.000	0.99998
3694	2	2.91	12	735	524	0.023	61.25	1.40	1.000	0.99997
3701	1	2.80	34	5,726	529	0.064	168.41	10.82	1.000	0.99976
3702	2	3.59	23	2,263	669	0.034	98.39	3.38	1.000	0.99992
3872	3	4.94	3	297	1,143	0.003	99.00	0.26	1.500	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3873	1	1.05	31	1,962	812	0.038	63.29	2.42	1.000	0.99995
3891	2	1.69	2	101	447	0.004	50.50	0.23	2.000	0.99999
3893	4	2.42	9	518	1,164	0.008	57.56	0.45	1.000	0.99999
3894	1	1.02	1	61	160	0.006	61.00	0.38	1.000	0.99999
3903	1	4.05	1	243	305	0.003	243.00	0.80	1.000	0.99998
3912	1	0.52	1,351	42,241	1,351	1.000	31.27	31.27	1.000	0.99930
3951	3	2.76	3	166	945	0.003	55.33	0.18	1.000	0.99999
3952	1	7.72	71	32,935	1,354	0.052	463.87	24.32	1.000	0.99946
3953	1	0.78	83	3,948	537	0.155	47.57	7.35	1.000	0.99984
3981	3	3.22	19	982	1,548	0.012	51.68	0.63	1.056	0.99999
3982	1	0.25	1	15	1,819	0.001	15.00	0.01	1.000	0.99999
3991	1	1.35	16	1,301	756	0.021	81.31	1.72	1.000	0.99996
4031	2	8.82	63	27,252	710	0.089	432.57	38.38	1.000	0.99914
4091	2	1.32	1,198	76,065	1,197	1.001	63.49	63.55	1.001	0.99858
4101	1	2.82	1	169	975	0.001	169.00	0.17	1.000	0.99999
4131	2	1.93	23	2,195	205	0.112	95.43	10.71	1.045	0.99976
4151	1	1.32	172	13,588	172	1.000	79.00	79.00	1.000	0.99823
4152	3	3.78	1,315	105,014	1,288	1.021	79.86	81.53	1.021	0.99817
4153	4	6.84	81	6,262	1,093	0.074	77.31	5.73	1.000	0.99987
4154	5	6.10	1,399	110,462	1,349	1.037	78.96	81.88	1.037	0.99817
4155	3	3.61	1,912	118,203	1,678	1.139	61.82	70.44	1.139	0.99842
4171	1	5.70	45	15,429	1,182	0.038	342.87	13.05	1.000	0.99971

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4172	3	9.63	25	12,181	1,819	0.014	487.24	6.70	1.000	0.99985
4173	2	1.37	2	82	688	0.003	41.00	0.12	2.000	0.99999
4181	2	2.90	20	1,720	777	0.026	86.00	2.21	1.000	0.99995
4182	2	21.17	5	3,169	773	0.006	633.80	4.10	1.000	0.99991
4212	4	3.72	5	276	1,070	0.005	55.20	0.26	1.000	0.99999
4222	2	5.63	27	2,298	1,070	0.025	85.11	2.15	1.000	0.99995
4223	2	9.30	22	1,446	1,112	0.020	65.73	1.30	1.000	0.99997
4303	2	5.31	24	3,675	1,281	0.019	153.13	2.87	1.000	0.99994
4304	2	5.62	22	4,491	244	0.090	204.14	18.41	1.048	0.99959
4313	1	1.73	1	104	551	0.002	104.00	0.19	1.000	0.99999
4321	5	37.48	64	29,691	6	10.667	463.92	4948.50	1.067	0.88915
4334	1	1.35	1	81	299	0.003	81.00	0.27	1.000	0.99999
4341	9	7.80	5,576	225,557	1,815	3.072	40.45	124.27	3.072	0.99722
4342	2	1.90	1,672	96,320	836	2.000	57.61	115.22	2.000	0.99742
4343	6	6.75	5,028	202,357	1,674	3.004	40.25	120.88	3.004	0.99729
4361	5	7.57	45	2,715	1,638	0.027	60.33	1.66	1.023	0.99996
4364	1	1.30	18	1,413	846	0.021	78.50	1.67	1.000	0.99996
4371	1	0.43	1	26	1,550	0.001	26.00	0.02	1.000	0.99999
4373	2	2.33	2	140	760	0.003	70.00	0.18	1.000	0.99999
4386	1	2.12	16	2,047	1,668	0.010	127.94	1.23	1.000	0.99997
4431	1	1.95	6	666	1,412	0.004	111.00	0.47	1.000	0.99999
4511	3	7.88	88	11,380	1,129	0.078	129.32	10.08	1.000	0.99977

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4512	3	4.59	3	275	1,147	0.003	91.67	0.24	1.000	0.99999
4601	1	5.95	1	357	401	0.002	357.00	0.89	1.000	0.99998
4692	3	17.44	431	150,711	487	0.885	349.68	309.47	1.005	0.99307
4712	1	1.45	1	87	129	0.008	87.00	0.67	1.000	0.99998
4714	3	8.96	19	2,606	347	0.055	137.16	7.51	1.118	0.99983
4791	2	1.40	2	84	625	0.003	42.00	0.13	1.000	0.99999
5601	3	4.23	3	254	1,426	0.002	84.67	0.18	1.000	0.99999
5901	2	3.35	54	2,974	821	0.066	55.07	3.62	1.000	0.99992
5903	9	59.67	1,014	327,896	287	3.533	323.37	1142.49	1.196	0.97441
5905	3	6.95	24	4,499	1,934	0.012	187.46	2.33	1.000	0.99995
6021	1	1.78	4	431	1,355	0.003	107.75	0.32	1.000	0.99999
6022	1	1.30	19	1,493	562	0.034	78.58	2.66	1.000	0.99994
6141	1	1.78	1	107	644	0.002	107.00	0.17	1.000	0.99999
6142	1	0.60	1	36	327	0.003	36.00	0.11	1.000	0.99999
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	248	521.25	30,002	2,839,367	172,439	0.174	94.64	16.47	1.532	0.99963

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
9/1/2021 to 9/30/2021
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	2.30	69	9,510	1,754	0.039	137.83	5.42	1.000	0.99987
1082	1	0.97	1	58	1,380	0.001	58.00	0.04	1.000	0.99999
1091	1	0.10	1	6	705	0.001	6.00	0.01	1.000	0.99999
1092	1	0.78	4	188	942	0.004	47.00	0.20	1.000	0.99999
1093	1	0.30	1	18	231	0.004	18.00	0.08	1.000	0.99999
1094	1	6.75	4	1,623	1,238	0.003	405.75	1.31	1.000	0.99997
1101	1	1.15	35	2,424	165	0.212	69.26	14.69	1.000	0.99966
1102	2	1.65	16	757	1,067	0.015	47.31	0.71	1.000	0.99998
1103	2	5.98	95	12,014	1,006	0.094	127.05	11.94	1.000	0.99973
1142	5	7.49	38	3,213	218	0.174	84.55	14.74	1.056	0.99966
1211	3	2.30	104	5,867	1,501	0.069	56.41	3.91	1.529	0.99991
1213	2	4.00	2	240	569	0.004	120.00	0.42	1.000	0.99999
1230	1	1.18	1	71	1,229	0.001	71.00	0.06	1.000	0.99999
1232	5	3.55	1,202	32,100	1,203	0.999	26.71	26.68	1.003	0.99939
1233	3	6.92	53	1,865	647	0.082	35.16	2.88	1.000	0.99993
1241	1	6.23	10	3,741	881	0.011	374.10	4.25	1.000	0.99990
1243	3	4.37	1,237	97,748	1,235	1.002	79.02	79.15	1.002	0.99817

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1265	1	5.07	1	304	1,310	0.001	304.00	0.23	1.000	0.99999
1271	2	5.55	1,198	260,885	987	1.212	218.09	264.32	1.212	0.99397
1273	2	4.45	871	212,897	870	1.001	244.43	244.71	1.001	0.99434
1311	1	6.73	121	48,970	281	0.431	404.71	174.27	1.000	0.99597
1451	1	2.97	551	98,371	551	1.000	178.53	178.53	1.000	0.99587
1452	4	17.56	457	90,185	460	0.993	197.34	196.05	1.063	0.99546
1453	1	2.98	1,816	325,972	1,816	1.000	179.50	179.50	1.000	0.99584
1454	3	9.05	94	14,313	945	0.099	152.27	15.15	1.000	0.99965
1521	1	0.73	25	1,122	384	0.065	44.88	2.92	1.000	0.99993
1523	1	1.05	1	63	753	0.001	63.00	0.08	1.000	0.99999
1841	1	2.78	552	92,184	552	1.000	167.00	167.00	1.000	0.99619
1842	1	0.95	1	57	292	0.003	57.00	0.20	1.000	0.99999
2051	1	0.72	1	43	208	0.005	43.00	0.21	1.000	0.99999
2091	3	6.96	3	417	900	0.003	139.00	0.46	1.000	0.99999
2092	2	3.01	55	5,015	946	0.058	91.18	5.30	1.000	0.99988
2212	2	2.25	2	135	1,354	0.001	67.50	0.10	1.000	0.99999
2511	1	0.68	1	41	621	0.002	41.00	0.07	1.000	0.99999
2621	4	14.67	8	1,383	1,200	0.007	172.88	1.15	1.000	0.99997
2921	3	5.33	7	904	393	0.018	129.14	2.30	1.000	0.99995
2951	5	7.30	39	3,651	1,236	0.032	93.62	2.95	1.026	0.99993
2952	2	5.19	208	37,741	371	0.561	181.45	101.73	1.005	0.99765
2961	3	11.56	730	127,865	651	1.121	175.21	196.41	1.121	0.99552
3081	1	1.67	1	100	585	0.002	100.00	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
3121	4	2.77	13	609	1,145	0.011	46.85	0.53	1.083	0.99999
3122	3	3.40	33	2,504	877	0.038	75.88	2.86	1.000	0.99993
3181	2	3.35	25	4,281	756	0.033	171.24	5.66	1.042	0.99987
3221	7	11.68	17	2,013	1,276	0.013	118.41	1.58	1.133	0.99996
3231	1	1.77	211	22,366	211	1.000	106.00	106.00	1.000	0.99755
3232	2	4.68	445	87,862	444	1.002	197.44	197.89	1.002	0.99542
3301	1	1.52	3	273	768	0.004	91.00	0.36	1.000	0.99999
3302	1	5.55	1	333	648	0.002	333.00	0.51	1.000	0.99999
3303	2	1.80	42	2,354	1,790	0.023	56.05	1.32	1.024	0.99997
3304	5	10.60	1,195	129,662	1,115	1.072	108.50	116.29	1.072	0.99731
3313	1	0.95	19	1,087	1,419	0.013	57.21	0.77	1.000	0.99998
3314	2	1.67	8	520	226	0.035	65.00	2.30	1.000	0.99995
3315	2	1.95	19	1,037	1,599	0.012	54.58	0.65	1.056	0.99998
3422	1	2.73	1	164	993	0.001	164.00	0.17	1.000	0.99999
3423	1	2.57	18	2,780	399	0.045	154.44	6.97	1.000	0.99984
3471	2	10.43	7	2,169	490	0.014	309.86	4.43	1.000	0.99990
3472	2	9.55	115	38,867	1,308	0.088	337.97	29.71	1.000	0.99931
3551	2	3.12	40	3,750	1,042	0.038	93.75	3.60	1.053	0.99992
3552	1	1.48	21	1,889	582	0.036	89.95	3.25	1.000	0.99992
3553	1	0.98	1	59	870	0.001	59.00	0.07	1.000	0.99999
3592	3	2.06	213	8,089	1,747	0.122	37.98	4.63	1.614	0.99989
3594	1	6.72	25	10,082	787	0.032	403.28	12.81	1.000	0.99970

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3621	15	36.86	1,797	324,213	1,588	1.132	180.42	204.16	1.132	0.99527
3662	1	1.33	1	80	875	0.001	80.00	0.09	1.000	0.99999
3664	2	1.76	7	373	577	0.012	53.29	0.65	1.167	0.99999
3671	2	2.57	40	3,145	655	0.061	78.63	4.80	1.000	0.99989
3675	1	0.58	421	14,693	421	1.000	34.90	34.90	1.000	0.99919
3694	4	8.72	570	39,065	524	1.088	68.54	74.55	1.508	0.99827
3701	2	2.23	2	134	529	0.004	67.00	0.25	1.000	0.99999
3702	1	2.12	1	127	669	0.001	127.00	0.19	1.000	0.99999
3751	4	4.00	14	1,937	915	0.015	138.36	2.12	1.000	0.99995
3871	2	6.03	2	362	1,086	0.002	181.00	0.33	2.000	0.99999
3878	2	3.95	2	237	833	0.002	118.50	0.28	1.000	0.99999
3893	5	17.83	171	46,934	1,164	0.147	274.47	40.32	1.069	0.99907
3894	1	8.90	1	534	160	0.006	534.00	3.34	1.000	0.99992
3901	1	0.45	1	27	887	0.001	27.00	0.03	1.000	0.99999
3902	1	1.62	13	1,262	95	0.137	97.08	13.28	1.000	0.99969
3903	1	0.95	1	57	305	0.003	57.00	0.19	1.000	0.99999
3951	3	6.98	3	419	945	0.003	139.67	0.44	1.000	0.99999
3952	2	1.46	72	3,809	1,354	0.053	52.90	2.81	1.014	0.99993
3981	4	5.19	1,649	192,039	1,548	1.065	116.46	124.06	1.065	0.99713
3982	11	85.07	1,890	224,130	1,819	1.039	118.59	123.22	1.039	0.99715
4091	1	0.62	14	522	1,197	0.012	37.29	0.44	1.000	0.99999
4101	3	3.87	18	1,655	975	0.018	91.94	1.70	1.059	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
4131	1	1.57	1	94	205	0.005	94.00	0.46	1.000	0.99999
4137	3	4.25	28	3,394	808	0.035	121.21	4.20	1.000	0.99990
4138	1	0.57	14	489	756	0.019	34.93	0.65	1.000	0.99999
4151	1	1.12	13	871	172	0.076	67.00	5.06	1.000	0.99988
4152	2	2.22	24	1,628	1,288	0.019	67.83	1.26	1.000	0.99997
4153	1	3.87	41	9,358	1,093	0.038	228.24	8.56	1.000	0.99980
4171	2	7.05	11	2,287	1,182	0.009	207.91	1.93	1.000	0.99996
4172	2	1.78	62	2,399	1,819	0.034	38.69	1.32	1.016	0.99997
4173	1	0.62	1	37	688	0.001	37.00	0.05	1.000	0.99999
4181	1	2.10	19	2,397	777	0.024	126.16	3.08	1.000	0.99993
4222	5	21.14	1,130	45,574	1,070	1.056	40.33	42.59	1.056	0.99901
4223	2	2.26	1,206	109,840	1,112	1.084	91.12	98.78	1.084	0.99774
4224	1	11.97	1	718	765	0.001	718.00	0.94	1.000	0.99998
4302	2	9.20	8	1,233	662	0.012	154.13	1.86	1.000	0.99996
4303	3	10.12	23	5,187	1,281	0.018	225.52	4.05	1.045	0.99991
4313	2	3.96	2	238	551	0.004	119.00	0.43	1.000	0.99999
4321	1	0.85	6	306	6	1.000	51.00	51.00	1.000	0.99884
4331	13	7.17	310	7,441	328	0.945	24.00	22.69	1.044	0.99947
4332	1	2.73	1	164	330	0.003	164.00	0.50	1.000	0.99999
434	1	0.47	1	28	18	0.056	28.00	1.56	1.000	0.99996
4343	1	1.05	1,674	105,908	1,674	1.000	63.27	63.27	1.000	0.99854
4361	3	3.06	18	842	1,638	0.011	46.78	0.51	1.059	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
4362	2	1.95	46	3,161	837	0.055	68.72	3.78	1.022	0.99991
4363	4	4.20	1,400	82,873	697	2.009	59.20	118.90	2.009	0.99725
4364	3	3.90	8	901	846	0.009	112.63	1.07	1.143	0.99998
4371	1	1.37	1	82	1,550	0.001	82.00	0.05	1.000	0.99999
4372	2	3.56	4	334	419	0.010	83.50	0.80	1.000	0.99998
4373	1	1.17	5	350	760	0.007	70.00	0.46	1.000	0.99999
4385	2	5.91	125	18,534	1,152	0.109	148.27	16.09	1.000	0.99963
4386	1	1.08	1	65	1,668	0.001	65.00	0.04	1.000	0.99999
4431	3	8.52	25	7,907	1,412	0.018	316.28	5.60	1.000	0.99987
4432	2	5.58	39	6,826	476	0.082	175.03	14.34	1.000	0.99967
4512	2	1.53	2	92	1,147	0.002	46.00	0.08	1.000	0.99999
4601	1	1.57	4	377	401	0.010	94.25	0.94	1.000	0.99998
4602	3	5.54	10	965	966	0.010	96.50	1.00	1.000	0.99998
4692	1	0.58	1	35	487	0.002	35.00	0.07	1.000	0.99999
4783	1	0.60	1	36	240	0.004	36.00	0.15	1.000	0.99999
4791	2	3.36	23	1,890	625	0.037	82.17	3.02	1.045	0.99993
4794	2	2.50	77	5,318	396	0.194	69.06	13.43	1.013	0.99969
5601	2	4.35	1,427	220,851	1,426	1.001	154.77	154.87	1.001	0.99641
5602	6	84.65	7	6,584	711	0.010	940.57	9.26	1.000	0.99979
5603	6	23.37	79	38,065	1,305	0.061	481.84	29.17	1.000	0.99932
5641	1	1.52	1	91	341	0.003	91.00	0.27	1.000	0.99999
5902	1	7.07	40	16,980	962	0.042	424.50	17.65	1.000	0.99959

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
5904	2	9.35	1,281	698,768	1,280	1.001	545.49	545.91	1.001	0.98736
5905	2	2.40	62	4,356	1,934	0.032	70.26	2.25	1.000	0.99995
6021	4	4.08	46	2,811	1,355	0.034	61.11	2.07	1.045	0.99995
6022	1	1.62	21	2,048	562	0.037	97.52	3.64	1.000	0.99992
6024	1	3.10	1	186	396	0.003	186.00	0.47	1.000	0.99999
6143	1	1.18	1	71	375	0.003	71.00	0.19	1.000	0.99999
6144	2	4.15	4	663	327	0.012	165.75	2.03	1.000	0.99995
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	308	762.23	28,169	4,097,017	172,439	0.163	145.44	23.76	1.077	0.99945

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
10/1/2021 to 10/31/2021
INCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1050	2	2.28	2	137	1,754	0.001	68.50	0.08	1.000	0.99999
1052	1	1.42	77	6,547	1,175	0.066	85.03	5.57	1.000	0.99988
1082	8	14.86	1,419	143,598	1,380	1.028	101.20	104.06	1.028	0.99767
1091	3	6.25	1413	207,879	705	2.004	147.14	294.86	2.004	0.99327
1092	3	4.64	944	124,944	942	1.002	132.36	132.64	1.016	0.99703
1093	1	2.18	231	30,484	231	1.000	131.97	131.97	1.000	0.99704
1094	2	9.97	1,233	164,505	1,238	0.996	133.42	132.88	1.001	0.99702
1101	1	1.25	1	75	165	0.006	75.00	0.45	1.000	0.99999
1102	1	1.42	30	2,573	1,067	0.028	85.77	2.41	1.000	0.99995
1103	1	2.63	1	158	1,006	0.001	158.00	0.16	1.000	0.99999
1141	1	1.45	1	87	912	0.001	87.00	0.10	1.000	0.99999
1211	4	4.80	19	1,474	1,501	0.013	77.58	0.98	1.000	0.99998
1212	2	1.67	2	100	341	0.006	50.00	0.29	1.000	0.99999
1213	1	1.30	1	78	569	0.002	78.00	0.14	1.000	0.99999
1230	1	0.57	1	34	1,229	0.001	34.00	0.03	1.000	0.99999
1232	2	1.85	2	111	1,203	0.002	55.50	0.09	1.000	0.99999
1243	4	7.49	62	7,034	1,235	0.050	113.45	5.70	1.016	0.99987

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1261	1	0.93	1	56	403	0.002	56.00	0.14	1.000	0.99999
1262	1	0.98	1	59	167	0.006	59.00	0.35	1.000	0.99999
1263	2	2.55	14	1,078	1,217	0.012	77.00	0.89	1.000	0.99998
1265	1	0.43	2	53	1,310	0.002	26.50	0.04	1.000	0.99999
1273	2	7.20	11	3,456	870	0.013	314.18	3.97	1.000	0.99991
1282	1	4.67	1	280	697	0.001	280.00	0.40	1.000	0.99999
1311	1	0.98	281	16,817	281	1.000	59.85	59.85	1.000	0.99866
1312	3	2.92	967	56,891	965	1.002	58.83	58.95	1.002	0.99868
1451	5	11.60	7	1,086	551	0.013	155.14	1.97	1.167	0.99996
1452	2	6.05	2	363	460	0.004	181.50	0.79	1.000	0.99998
1453	2	1.63	2	98	1,816	0.001	49.00	0.05	1.000	0.99999
1455	1	1.28	1	77	414	0.002	77.00	0.19	1.000	0.99999
1523	4	5.86	26	2,303	753	0.035	88.58	3.06	1.040	0.99993
1842	2	7.42	293	126,448	292	1.001	432.61	433.04	1.001	0.99011
1843	1	7.22	464	200,912	464	1.000	433.00	433.00	1.000	0.99011
2051	2	2.17	209	21,445	208	1.005	102.61	103.10	1.005	0.99769
2091	1	1.82	19	2,080	900	0.021	109.47	2.31	1.000	0.99995
2172	1	1.80	243	26,414	243	1.000	108.70	108.70	1.000	0.99756
2211	1	0.47	20	567	740	0.027	28.35	0.77	1.000	0.99998
2212	5	4.20	132	6,984	1,354	0.097	52.91	5.16	1.015	0.99988
2511	5	8.28	35	3,355	621	0.056	95.86	5.40	1.029	0.99988
2621	1	1.48	1	89	1,200	0.001	89.00	0.07	1.000	0.99999
2622	1	1.10	1	66	114	0.009	66.00	0.58	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
2921	2	5.20	2	312	393	0.005	156.00	0.79	1.000	0.99998
2951	7	10.91	77	8,701	1,236	0.062	113.00	7.04	1.711	0.99984
2961	3	6.56	8	1,454	651	0.012	181.75	2.23	1.000	0.99995
2962	2	6.25	524	98,415	262	2.000	187.81	375.63	2.000	0.99159
3081	1	2.40	1	144	585	0.002	144.00	0.25	1.000	0.99999
3122	2	5.32	13	1,211	877	0.015	93.15	1.38	1.000	0.99997
3123	1	1.23	1	74	1,111	0.001	74.00	0.07	1.000	0.99999
3221	3	10.19	655	260,966	1,276	0.513	398.42	204.52	1.023	0.99542
3232	1	2.53	12	1,830	444	0.027	152.50	4.12	1.000	0.99991
3301	2	4.27	37	4,477	768	0.048	121.00	5.83	1.000	0.99987
3303	3	3.40	46	4,450	1,790	0.026	96.74	2.49	1.022	0.99994
3304	4	4.72	26	2,004	1,115	0.023	77.08	1.80	1.083	0.99996
3311	1	2.07	43	5,355	540	0.080	124.53	9.92	1.000	0.99978
3314	2	7.80	9	3,185	226	0.040	353.89	14.09	1.000	0.99968
3315	1	0.77	31	1,447	1,599	0.019	46.68	0.90	1.000	0.99998
3422	2	4.34	2	260	993	0.002	130.00	0.26	1.000	0.99999
3423	3	7.86	3	471	399	0.008	157.00	1.18	1.000	0.99997
3472	2	1.15	10	377	1,308	0.008	37.70	0.29	1.111	0.99999
3551	1	0.83	20	1,019	1,042	0.019	50.95	0.98	1.000	0.99998
3553	3	5.55	225	15,984	870	0.259	71.04	18.37	1.009	0.99959
3591	2	1.78	2	107	1,524	0.001	53.50	0.07	1.000	0.99999
3592	5	15.06	21	4,583	1,747	0.012	218.24	2.62	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
3621	7	16.33	39	3,591	1,588	0.025	92.08	2.26	1.026	0.99995
3662	2	2.61	30	2,208	875	0.034	73.60	2.52	1.000	0.99994
3663	1	1.00	1	60	309	0.003	60.00	0.19	1.000	0.99999
3664	4	3.38	135	5,650	577	0.234	41.85	9.79	1.098	0.99978
3671	1	1.48	26	2,325	655	0.040	89.42	3.55	1.000	0.99992
3675	1	2.20	2	264	421	0.005	132.00	0.63	1.000	0.99999
3693	1	1.12	9	603	181	0.050	67.00	3.33	1.000	0.99993
3694	1	0.70	1	42	524	0.002	42.00	0.08	1.000	0.99999
3701	2	1.73	530	45,635	529	1.002	86.10	86.27	1.002	0.99807
3751	2	2.33	9	732	915	0.010	81.33	0.80	1.000	0.99998
3871	3	1.38	85	3,135	1,086	0.078	36.88	2.89	1.012	0.99994
3872	1	0.73	1	44	1,143	0.001	44.00	0.04	1.000	0.99999
3874	1	0.58	1	35	203	0.005	35.00	0.17	1.000	0.99999
3891	1	2.80	16	2,698	447	0.036	168.63	6.04	1.000	0.99986
3893	6	14.81	10	1,634	1,164	0.009	163.40	1.40	1.000	0.99997
3901	3	3.47	127	7,767	887	0.143	61.16	8.76	1.008	0.99980
3914	1	0.98	1	59	394	0.003	59.00	0.15	1.000	0.99999
3951	4	5.52	969	27,687	945	1.025	28.57	29.30	1.025	0.99934
3952	22	28.94	434	40,660	1,354	0.321	93.69	30.03	1.082	0.99933
3953	1	0.38	3	69	537	0.006	23.00	0.13	1.000	0.99999
3971	2	16.35	2	981	691	0.003	490.50	1.42	1.000	0.99997
3981	3	5.23	3	314	1,548	0.002	104.67	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
3991	1	1.23	1	74	756	0.001	74.00	0.10	1.000	0.99999
4031	2	6.53	2	392	710	0.003	196.00	0.55	1.000	0.99999
4101	3	5.77	993	184,496	975	1.018	185.80	189.23	1.018	0.99576
4102	3	9.45	19	3,635	538	0.035	191.32	6.76	1.000	0.99985
4134	2	2.52	1,266	116,418	1,265	1.001	91.96	92.03	1.001	0.99794
4137	1	1.08	1	65	808	0.001	65.00	0.08	1.000	0.99999
4138	1	0.78	14	663	756	0.019	47.36	0.88	1.000	0.99998
4142	1	1.92	1	115	612	0.002	115.00	0.19	1.000	0.99999
4152	3	5.35	65	7,133	1,288	0.050	109.74	5.54	1.000	0.99988
4153	4	7.50	1,096	102,024	1,093	1.003	93.09	93.34	1.003	0.99791
4171	2	3.79	3	264	1,182	0.003	88.00	0.22	1.000	0.99999
4172	1	0.78	8	382	1,819	0.004	47.75	0.21	1.000	0.99999
4173	1	0.73	1	44	688	0.001	44.00	0.06	1.000	0.99999
4181	3	3.60	31	2,409	777	0.040	77.71	3.10	1.000	0.99993
4182	4	4.24	64	3,293	773	0.083	51.45	4.26	1.032	0.99990
4211	1	2.03	1	122	707	0.001	122.00	0.17	1.000	0.99999
4222	2	1.12	8	271	1,070	0.007	33.88	0.25	1.143	0.99999
4303	3	3.59	171	9,459	1,281	0.133	55.32	7.38	1.024	0.99983
4321	1	1.92	1	115	6	0.167	115.00	19.17	1.000	0.99957
4341	10	10.96	1,905	56,849	1,815	1.050	29.84	31.32	1.050	0.99930
4342	1	1.33	18	1,452	836	0.022	80.67	1.74	1.000	0.99996
4343	1	1.55	10	934	1,674	0.006	93.40	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
4361	3	2.29	46	1,762	1,638	0.028	38.30	1.08	1.022	0.99998
4362	2	2.67	37	1,125	837	0.044	30.41	1.34	1.000	0.99997
4363	1	6.57	2	789	697	0.003	394.50	1.13	1.000	0.99997
4364	3	3.93	28	3,002	846	0.033	107.21	3.55	1.000	0.99992
4371	4	10.05	4	603	1,550	0.003	150.75	0.39	1.000	0.99999
4372	2	4.28	2	257	419	0.005	128.50	0.61	1.000	0.99999
4373	3	6.59	535	116,997	760	0.704	218.69	153.94	1.015	0.99655
4431	9	15.26	118	9,475	1,412	0.084	80.30	6.71	1.000	0.99985
4432	1	1.88	62	7,025	476	0.130	113.31	14.76	1.000	0.99967
4511	4	14.89	47	15,439	1,129	0.042	328.49	13.67	1.000	0.99969
4513	1	1.17	701	49,362	701	1.000	70.42	70.42	1.000	0.99842
4601	2	2.68	7	371	401	0.017	53.00	0.93	1.000	0.99998
4602	3	9.88	12	3,650	966	0.012	304.17	3.78	1.000	0.99992
4692	2	7.07	24	6,000	487	0.049	250.00	12.32	1.000	0.99972
4712	1	2.70	129	20,898	129	1.000	162.00	162.00	1.000	0.99630
4714	1	2.20	96	12,707	347	0.277	132.36	36.62	1.000	0.99918
5601	10	19.39	159	18,669	1,426	0.112	117.42	13.09	1.000	0.99971
5602	5	10.57	764	154,566	711	1.075	202.31	217.39	1.075	0.99513
5603	2	1.81	25	1,075	1,305	0.019	43.00	0.82	1.000	0.99998
5641	1	1.43	1	86	341	0.003	86.00	0.25	1.000	0.99999
5902	1	1.97	1	118	962	0.001	118.00	0.12	1.000	0.99999
5905	2	5.42	32	7,023	1,934	0.017	219.47	3.63	1.032	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
6141	1	1.12	91	6,153	644	0.141	67.62	9.55	1.000	0.99979
6142	1	0.92	7	388	327	0.021	55.43	1.19	1.000	0.99997
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	323	577.90	20,983	2,653,255	172,439	0.122	126.45	15.39	1.031	0.99966

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
11/1/2021 to 11/30/2021
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	1.00	12	722	1,758	0.007	60.17	0.41	1.000	0.99999
1051	1	1.02	41	2,508	781	0.052	61.17	3.21	1.000	0.99993
1052	2	23.78	66	68,642	1,185	0.056	1040.03	57.93	1.015	0.99866
1082	1	1.18	1	71	1,387	0.001	71.00	0.05	1.000	0.99999
1091	1	1.52	713	65,003	713	1.000	91.17	91.17	1.000	0.99792
1093	1	1.52	232	21,181	232	1.000	91.30	91.30	1.000	0.99789
1094	3	3.20	1,259	116,351	1,246	1.010	92.60	93.52	1.010	0.99786
1101	4	2.48	262	10,761	506	0.518	41.07	21.27	1.012	0.99951
1102	4	2.61	1,114	50,055	1,076	1.035	44.93	46.52	1.044	0.99892
1103	1	0.70	39	1,639	1,007	0.039	42.03	1.63	1.000	0.99996
1142	1	1.75	1	105	188	0.005	105.00	0.56	1.000	0.99999
1211	3	3.82	44	3,347	1,504	0.029	76.07	2.23	1.023	0.99995
1232	4	6.05	77	4,200	1,206	0.064	54.55	3.48	1.000	0.99992
1242	1	0.43	1	26	858	0.001	26.00	0.03	1.000	0.99999
1243	3	4.28	1,310	109,352	1,241	1.056	83.47	88.12	1.061	0.99796
1261	2	1.26	2	76	404	0.005	38.00	0.19	1.000	0.99999
1265	2	1.16	2	70	1,308	0.002	35.00	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
1271	4	5.71	17	962	988	0.017	56.59	0.97	1.063	0.99998
1273	5	6.19	53	4,537	870	0.061	85.60	5.21	1.082	0.99988
1282	1	1.10	19	1,255	700	0.027	66.05	1.79	1.000	0.99996
1284	1	0.18	1	11	954	0.001	11.00	0.01	1.000	0.99999
1312	1	0.87	10	527	971	0.010	52.70	0.54	1.000	0.99999
1451	1	0.63	4	154	554	0.007	38.50	0.28	1.000	0.99999
1452	2	3.49	2	209	461	0.004	104.50	0.45	1.000	0.99999
1453	2	15.00	50	4,802	1,821	0.027	96.04	2.64	1.000	0.99994
1521	1	1.30	1	78	386	0.003	78.00	0.20	1.000	0.99999
1523	2	2.34	24	1,887	758	0.032	78.63	2.49	1.043	0.99994
1842	1	1.93	1	116	295	0.003	116.00	0.39	1.000	0.99999
2091	1	2.73	1	164	912	0.001	164.00	0.18	1.000	0.99999
2092	1	1.48	1	89	950	0.001	89.00	0.09	1.000	0.99999
2211	2	0.74	22	664	741	0.030	30.18	0.90	1.048	0.99998
2212	2	2.07	75	4,651	1,369	0.055	62.01	3.40	1.000	0.99992
2492	1	2.53	1	152	29	0.034	152.00	5.24	1.000	0.99988
2511	2	2.20	8	558	624	0.013	69.75	0.89	1.000	0.99998
2621	1	0.88	1	53	1,206	0.001	53.00	0.04	1.000	0.99999
2921	1	0.92	1	55	394	0.003	55.00	0.14	1.000	0.99999
2951	3	5.00	123	12,449	1,246	0.099	101.21	9.99	1.000	0.99977
3121	1	1.35	14	1,135	1,150	0.012	81.07	0.99	1.000	0.99998
3122	1	2.10	1	126	884	0.001	126.00	0.14	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
3221	3	1.97	3	118	1,282	0.002	39.33	0.09	1.000	0.99999
3222	4	9.48	814	53,003	796	1.022	65.15	66.59	1.022	0.99848
3231	1	3.58	1	215	214	0.005	215.00	1.00	1.000	0.99998
3301	1	0.92	1	55	770	0.001	55.00	0.07	1.000	0.99999
3302	3	2.38	97	5,881	650	0.149	60.63	9.05	1.043	0.99979
3303	8	9.45	131	9,033	1,791	0.073	68.95	5.04	1.016	0.99988
3304	2	2.85	17	1,706	1,146	0.015	100.35	1.49	1.000	0.99997
3313	9	16.41	1,480	200,814	1,472	1.005	135.74	136.42	1.005	0.99689
3315	2	2.12	15	1,027	1,610	0.009	68.47	0.64	1.071	0.99999
3423	1	1.47	21	1,860	402	0.052	88.57	4.63	1.000	0.99989
3471	1	0.82	1	49	493	0.002	49.00	0.10	1.000	0.99999
3472	2	1.30	8	342	1,318	0.006	42.75	0.26	1.000	0.99999
3552	1	1.12	3	203	584	0.005	67.67	0.35	1.000	0.99999
3553	1	2.08	1	125	874	0.001	125.00	0.14	1.000	0.99999
3591	3	2.85	26	1,185	1,542	0.017	45.58	0.77	1.000	0.99998
3592	2	2.14	1,787	99,740	1,778	1.017	55.82	56.10	1.005	0.99872
3593	1	0.83	69	3,487	950	0.073	50.54	3.67	1.000	0.99992
3594	1	1.20	1	72	788	0.001	72.00	0.09	1.000	0.99999
3621	3	3.45	3	207	1,598	0.002	69.00	0.13	1.500	0.99999
3661	5	3.94	78	3,502	1,080	0.072	44.90	3.24	1.013	0.99992
3662	2	1.82	2	109	884	0.002	54.50	0.12	1.000	0.99999
3663	1	5.37	1	322	310	0.003	322.00	1.04	1.000	0.99998

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3664	2	2.55	20	2,163	580	0.034	108.15	3.73	1.053	0.99991
3671	1	3.03	1	182	658	0.002	182.00	0.28	1.000	0.99999
3691	1	0.60	47	1,715	376	0.125	36.49	4.56	1.000	0.99989
3701	1	1.17	1	70	532	0.002	70.00	0.13	1.000	0.99999
3871	1	0.38	68	1,590	1,089	0.062	23.38	1.46	1.000	0.99997
3872	6	4.35	62	3,211	1,162	0.053	51.79	2.76	1.016	0.99994
3873	2	3.88	6	873	814	0.007	145.50	1.07	1.000	0.99998
3878	4	4.17	27	2,080	840	0.032	77.04	2.48	1.038	0.99994
3891	3	3.09	27	1,804	449	0.060	66.81	4.02	1.800	0.99991
3893	5	6.86	6	471	1,168	0.005	78.50	0.40	1.000	0.99999
3901	1	1.38	95	7,921	886	0.107	83.38	8.94	1.000	0.99979
3903	1	1.43	26	2,252	310	0.084	86.62	7.26	1.000	0.99983
3912	1	1.70	1	102	1,358	0.001	102.00	0.08	1.000	0.99999
3913	3	3.94	45	4,475	826	0.054	99.44	5.42	1.023	0.99987
3951	5	10.28	25	1,663	953	0.026	66.52	1.75	1.042	0.99996
3952	4	4.48	36	1,915	1,332	0.027	53.19	1.44	1.029	0.99997
3953	3	5.90	23	3,968	540	0.043	172.52	7.35	1.000	0.99983
3971	2	1.59	34	1,640	692	0.049	48.24	2.37	1.063	0.99995
3981	1	1.95	8	937	1,558	0.005	117.13	0.60	1.000	0.99999
3982	1	1.73	18	1,880	1,823	0.010	104.44	1.03	1.000	0.99998
3991	1	0.75	1	45	758	0.001	45.00	0.06	1.000	0.99999
4031	4	5.21	31	2,644	712	0.044	85.29	3.71	1.033	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
4091	1	1.48	1	89	1,202	0.001	89.00	0.07	1.000	0.99999
4102	1	0.85	1	51	538	0.002	51.00	0.09	1.000	0.99999
4132	1	2.00	1	120	568	0.002	120.00	0.21	1.000	0.99999
4133	1	1.17	26	1,839	281	0.093	70.73	6.54	1.000	0.99985
4134	4	3.25	5	232	1,272	0.004	46.40	0.18	1.000	0.99999
4135	1	2.30	64	8,880	64	1.000	138.75	138.75	1.000	0.99683
4138	2	3.20	12	886	758	0.016	73.83	1.17	1.000	0.99997
4141	1	1.50	1	90	84	0.012	90.00	1.07	1.000	0.99998
4152	2	2.75	24	1,997	1,292	0.019	83.21	1.55	1.000	0.99996
4153	1	1.07	14	908	1,113	0.013	64.86	0.82	1.000	0.99998
4154	1	0.82	17	837	1,358	0.013	49.24	0.62	1.000	0.99999
4172	3	15.30	107	23,403	1,837	0.058	218.72	12.74	1.019	0.99971
4181	1	0.88	11	592	780	0.014	53.82	0.76	1.000	0.99998
4182	1	1.40	12	1,010	776	0.015	84.17	1.30	1.000	0.99997
4212	1	1.07	1	64	1,077	0.001	64.00	0.06	1.000	0.99999
4222	3	1.65	21	755	1,072	0.020	35.95	0.70	1.000	0.99998
4224	2	6.44	18	3,789	768	0.023	210.50	4.93	1.000	0.99989
4303	2	2.31	26	2,865	1,292	0.020	110.19	2.22	1.040	0.99995
4311	2	2.28	24	809	814	0.029	33.71	0.99	1.043	0.99998
4312	1	0.92	14	772	896	0.016	55.14	0.86	1.000	0.99998
4313	1	1.10	1	66	554	0.002	66.00	0.12	1.000	0.99999
4321	1	0.67	1	40	94	0.011	40.00	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
4331	8	3.54	397	38,556	330	1.202	97.20	116.84	1.202	0.99733
4343	1	2.62	17	2,682	1,677	0.010	157.76	1.60	1.000	0.99996
4361	2	1.55	16	875	1,649	0.010	54.69	0.53	1.067	0.99999
4364	1	1.30	4	312	852	0.005	78.00	0.37	1.000	0.99999
4371	3	2.49	47	2,498	1,553	0.030	53.15	1.61	1.000	0.99996
4372	2	3.30	420	70,813	425	0.988	168.60	166.62	1.002	0.99614
4373	2	5.19	760	128,640	764	0.995	169.26	168.38	1.001	0.99610
4386	4	10.10	217	59,962	1,662	0.131	276.32	36.08	1.014	0.99916
4431	4	6.96	1,423	88,610	1,420	1.002	62.28	62.40	1.002	0.99858
4511	1	1.20	81	5,844	1,138	0.071	72.15	5.14	1.000	0.99988
4512	1	3.65	1	219	1,149	0.001	219.00	0.19	1.000	0.99999
4601	1	1.50	24	2,174	404	0.059	90.58	5.38	1.000	0.99988
4602	2	1.65	7	398	972	0.007	56.86	0.41	1.000	0.99999
4692	1	0.73	1	44	488	0.002	44.00	0.09	1.000	0.99999
4714	1	0.87	10	526	348	0.029	52.60	1.51	1.000	0.99997
4791	1	1.30	1	78	626	0.002	78.00	0.12	1.000	0.99999
5601	4	6.55	39	8,817	1,362	0.029	226.08	6.47	1.000	0.99985
5602	3	1.70	32	466	713	0.045	14.56	0.65	1.000	0.99998
5603	1	0.82	17	844	1,394	0.012	49.65	0.61	1.000	0.99999
5902	2	1.55	157	7,994	964	0.163	50.92	8.29	1.006	0.99981
5904	1	0.50	51	1,533	1,284	0.040	30.06	1.19	1.000	0.99997
6141	1	0.68	1	41	648	0.002	41.00	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
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	263	380.63	15,006	1,398,465	172,061	0.087	93.19	8.13	1.020	0.99981

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
12/1/2021 to 12/31/2021
INCLUDING MAJOR EVENT DAYS

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1050	2	2.07	31	2,210	1,762	0.018	71.29	1.25	1.000	0.99997
1051	1	0.47	19	546	785	0.024	28.74	0.70	1.000	0.99998
1052	1	0.82	1	49	1,195	0.001	49.00	0.04	1.000	0.99999
1082	4	5.75	13	967	1,394	0.009	74.38	0.69	1.000	0.99998
1091	2	2.26	20	875	721	0.028	43.75	1.21	1.000	0.99997
1103	3	5.61	147	23,946	1,008	0.146	162.90	23.76	1.014	0.99947
1141	1	0.63	1	38	914	0.001	38.00	0.04	1.000	0.99999
1211	1	1.12	1	67	1,506	0.001	67.00	0.04	1.000	0.99999
1212	1	0.72	1	43	343	0.003	43.00	0.13	1.000	0.99999
1230	2	2.60	2	156	1,232	0.002	78.00	0.13	1.000	0.99999
1232	1	0.47	1	28	1,209	0.001	28.00	0.02	1.000	0.99999
1241	1	1.02	1	61	890	0.001	61.00	0.07	1.000	0.99999
1242	1	2.30	858	118,475	858	1.000	138.08	138.08	1.000	0.99698
1243	2	1.66	26	805	1,247	0.021	30.96	0.65	1.040	0.99999
1273	1	13.05	1	783	871	0.001	783.00	0.90	1.000	0.99998
1284	1	1.28	32	2,426	955	0.034	75.81	2.54	1.000	0.99994
1285	1	1.92	1	115	1,124	0.001	115.00	0.10	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
1311	1	1.83	1	110	284	0.004	110.00	0.39	1.000	0.99999
1312	3	4.97	979	206,299	977	1.002	210.72	211.16	1.002	0.99527
1451	1	2.62	287	45,145	556	0.516	157.30	81.20	1.000	0.99818
1452	1	1.32	1	79	462	0.002	79.00	0.17	1.000	0.99999
1455	1	0.13	1	8	416	0.002	8.00	0.02	1.000	0.99999
1521	1	1.00	4	240	388	0.010	60.00	0.62	1.000	0.99999
1523	1	1.20	14	1,008	763	0.018	72.00	1.32	1.000	0.99997
1842	1	0.92	1	55	298	0.003	55.00	0.18	1.000	0.99999
2091	2	7.78	924	287,855	923	1.001	311.53	311.87	1.001	0.99301
2211	4	4.00	22	1,001	742	0.030	45.50	1.35	1.158	0.99997
2212	5	6.62	74	6,843	1,384	0.053	92.47	4.94	1.042	0.99989
2621	5	5.92	31	2,741	1,212	0.026	88.42	2.26	1.000	0.99995
2622	1	3.75	1	225	116	0.009	225.00	1.94	1.000	0.99996
2921	1	0.65	19	741	396	0.048	39.00	1.87	1.000	0.99996
2951	2	16.85	15	2,452	1,256	0.012	163.47	1.95	1.071	0.99996
2952	6	23.64	436	191,126	379	1.150	438.36	504.29	1.150	0.98870
3121	2	2.79	9	511	1,156	0.008	56.78	0.44	1.125	0.99999
3122	1	0.70	6	252	891	0.007	42.00	0.28	1.000	0.99999
3123	1	1.23	1	74	1,132	0.001	74.00	0.07	1.000	0.99999
3221	3	2.25	60	1,537	1,289	0.047	25.62	1.19	1.034	0.99997
3222	2	1.45	26	1,686	801	0.032	64.85	2.10	1.040	0.99995
3231	1	1.25	1	75	216	0.005	75.00	0.35	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3302	2	2.20	77	6,330	652	0.118	82.21	9.71	1.000	0.99978
3303	6	10.35	103	3,589	1,792	0.057	34.84	2.00	1.020	0.99996
3311	3	2.02	12	546	545	0.022	45.50	1.00	1.200	0.99998
3313	1	1.10	1	66	1,525	0.001	66.00	0.04	1.000	0.99999
3422	2	3.10	5	469	1,002	0.005	93.80	0.47	1.000	0.99999
3471	1	0.47	1	28	496	0.002	28.00	0.06	1.000	0.99999
3472	1	1.20	8	580	1,327	0.006	72.50	0.44	1.000	0.99999
3551	3	2.67	52	2,331	1,045	0.050	44.83	2.23	1.020	0.99995
3553	2	1.13	2	206	878	0.001	103.00	0.23	1.000	0.99999
3591	3	5.15	1,598	202,844	1,560	1.024	126.94	130.03	1.024	0.99709
3592	4	5.87	25	1,338	1,808	0.014	53.52	0.74	1.000	0.99998
3593	2	1.82	83	4,285	950	0.087	51.63	4.51	1.000	0.99990
3594	2	4.12	8	994	789	0.010	124.25	1.26	1.143	0.99997
3621	3	5.01	99	14,582	1,608	0.062	147.29	9.07	1.021	0.99980
3661	2	2.28	161	13,993	1,082	0.149	86.91	12.93	1.000	0.99971
3662	2	2.07	2	124	892	0.002	62.00	0.14	2.000	0.99999
3663	3	3.98	3	239	312	0.010	79.67	0.77	1.000	0.99998
3664	1	2.17	1	130	582	0.002	130.00	0.22	1.000	0.99999
3675	1	1.12	23	1,555	553	0.042	67.61	2.81	1.000	0.99994
3701	1	0.75	13	594	535	0.024	45.69	1.11	1.000	0.99998
3702	1	1.37	1	82	673	0.001	82.00	0.12	1.000	0.99999
3751	2	1.57	85	4,497	929	0.091	52.91	4.84	1.012	0.99989

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3872	3	5.70	3	342	1,180	0.003	114.00	0.29	1.000	0.99999
3891	2	2.06	76	5,834	451	0.169	76.76	12.94	1.013	0.99971
3893	6	9.60	32	3,321	1,171	0.027	103.78	2.84	1.185	0.99994
3901	2	2.24	51	3,598	884	0.058	70.55	4.07	1.000	0.99991
3913	3	6.18	37	7,066	825	0.045	190.97	8.56	1.000	0.99981
3951	2	1.50	8	288	961	0.008	36.00	0.30	1.000	0.99999
3952	3	3.05	9	585	1,309	0.007	65.00	0.45	1.000	0.99999
3981	2	5.67	5	1,026	1,568	0.003	205.20	0.65	1.000	0.99999
3982	5	18.91	155	8,210	1,827	0.085	52.97	4.49	1.000	0.99990
3991	3	4.78	18	1,632	761	0.024	90.67	2.14	1.125	0.99995
3992	1	0.97	1	58	173	0.006	58.00	0.34	1.000	0.99999
4091	1	1.80	1	108	1,206	0.001	108.00	0.09	1.000	0.99999
4101	1	2.37	333	47,585	981	0.339	142.90	48.51	1.000	0.99891
4102	2	3.62	9	754	539	0.017	83.78	1.40	1.125	0.99997
4131	1	0.97	8	468	205	0.039	58.50	2.28	1.000	0.99995
4132	2	1.27	569	9,564	568	1.002	16.81	16.84	1.002	0.99962
4133	1	1.13	26	1,781	284	0.092	68.50	6.27	1.000	0.99986
4137	1	2.60	7	1,094	817	0.009	156.29	1.34	1.000	0.99997
4138	1	1.07	11	711	760	0.014	64.64	0.94	1.000	0.99998
4142	1	2.18	14	1,840	621	0.023	131.43	2.96	1.000	0.99993
4152	1	1.47	1	88	1,297	0.001	88.00	0.07	1.000	0.99999
4154	2	1.16	18	590	1,366	0.013	32.78	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
4155	1	7.58	233	106,158	1,683	0.138	455.61	63.08	1.000	0.99859
4171	1	0.42	3	77	1,186	0.003	25.67	0.06	1.000	0.99999
4173	2	1.90	13	751	691	0.019	57.77	1.09	1.000	0.99998
4181	1	2.62	3	473	783	0.004	157.67	0.60	1.000	0.99999
4182	1	1.03	1	62	779	0.001	62.00	0.08	1.000	0.99999
4212	6	6.99	62	4,716	1,084	0.057	76.06	4.35	1.051	0.99990
4224	2	2.28	2	137	772	0.003	68.50	0.18	1.000	0.99999
4302	3	4.30	3	258	662	0.005	86.00	0.39	1.000	0.99999
4311	1	1.17	57	3,990	748	0.076	70.00	5.33	1.000	0.99988
4341	1	1.05	1,825	116,678	1,825	1.000	63.93	63.93	1.000	0.99857
4343	3	16.41	1,700	108,555	1,680	1.012	63.86	64.62	1.012	0.99855
4361	2	3.01	65	6,582	1,660	0.039	101.26	3.97	1.016	0.99991
4362	1	2.53	37	5,638	840	0.044	152.38	6.71	1.000	0.99985
4363	2	2.28	52	4,397	703	0.074	84.56	6.25	1.000	0.99986
4371	1	1.40	1	84	1,556	0.001	84.00	0.05	1.000	0.99999
4372	3	4.87	4	396	431	0.009	99.00	0.92	1.333	0.99998
4373	1	1.78	1	107	769	0.001	107.00	0.14	1.000	0.99999
4386	1	1.97	1	118	1,656	0.001	118.00	0.07	1.000	0.99999
4431	35	117.89	793	290,167	1,428	0.555	365.91	203.20	1.043	0.99545
4432	1	1.37	7	580	482	0.015	82.86	1.20	1.000	0.99997
4511	1	1.10	12	792	1,146	0.010	66.00	0.69	1.000	0.99998
4601	1	0.68	1	41	406	0.002	41.00	0.10	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
4602	1	1.03	57	3,560	978	0.058	62.46	3.64	1.000	0.99992
4692	3	6.72	101	30,904	488	0.207	305.98	63.33	1.020	0.99858
4714	1	0.47	10	284	349	0.029	28.40	0.81	1.000	0.99998
4782	2	1.57	2	94	99	0.020	47.00	0.95	1.000	0.99998
4793	2	3.73	2	224	777	0.003	112.00	0.29	1.000	0.99999
5601	8	11.24	507	45,831	1,297	0.391	90.40	35.34	1.045	0.99921
5602	1	0.63	1	38	715	0.001	38.00	0.05	1.000	0.99999
5603	6	3.53	1,517	125,374	1,484	1.022	82.65	84.48	1.030	0.99811
5901	1	4.03	6	1,455	827	0.007	242.50	1.76	1.000	0.99996
6021	2	2.57	35	2,529	1,364	0.026	72.26	1.85	1.061	0.99996
6022	3	1.34	6	230	568	0.011	38.33	0.40	1.000	0.99999
6024	1	0.07	1	4	398	0.003	4.00	0.01	1.000	0.99999
6141	1	0.48	1	29	651	0.002	29.00	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:	269	500.48	14,946	2,118,911	174,258	0.086	141.77	12.16	1.017	0.99973

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

1/1/2021 to 1/31/2021

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	25.48	2	1,529	1,752	0.001	764.50	0.87	1.000	0.99998
1051	7	29.44	153	25,371	776	0.197	165.82	32.69	1.142	0.99927
1052	2	15.98	6	4,776	1,173	0.005	796.00	4.07	1.000	0.99991
1082	11	53.30	347	99,375	1,377	0.252	286.38	72.17	2.361	0.99838
1091	4	36.03	86	5,974	703	0.122	69.47	8.50	1.049	0.99981
1092	2	16.97	77	33,348	942	0.082	433.09	35.40	1.013	0.99921
1093	1	6.25	26	9,772	231	0.113	375.85	42.30	1.000	0.99905
1094	6	49.68	370	105,298	1,275	0.290	284.59	82.59	1.045	0.99815
1104	1	0.93	1	56	191	0.005	56.00	0.29	1.000	0.99999
1211	2	6.97	5	1,341	1,501	0.003	268.20	0.89	1.000	0.99998
1212	1	7.02	1	421	340	0.003	421.00	1.24	1.000	0.99997
1213	3	3.75	573	60,907	568	1.009	106.29	107.23	1.009	0.99760
1230	2	1.78	2	107	1,219	0.002	53.50	0.09	1.000	0.99999
1232	5	85.61	10	7,221	1,203	0.008	722.10	6.00	1.000	0.99987
1233	1	24.95	1	1,497	647	0.002	1497.00	2.31	1.000	0.99995
1241	5	19.32	19	3,683	880	0.022	193.84	4.19	1.118	0.99991
1242	2	16.50	2	990	856	0.002	495.00	1.16	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
1243	6	15.91	7	1,021	1,235	0.006	145.86	0.83	1.000	0.99998
1263	3	47.20	7	8,533	1,217	0.006	1219.00	7.01	1.000	0.99984
1265	4	39.37	144	5,699	1,309	0.110	39.58	4.35	1.000	0.99990
1271	2	4.25	2	255	981	0.002	127.50	0.26	1.000	0.99999
1273	7	31.62	95	46,683	870	0.109	491.40	53.66	1.033	0.99880
1282	2	31.87	16	3,217	696	0.023	201.06	4.62	1.000	0.99990
1284	4	40.84	242	52,665	966	0.251	217.62	54.52	1.048	0.99878
1285	6	28.02	1,199	69,225	1,121	1.070	57.74	61.75	1.070	0.99862
1312	5	13.91	294	43,696	963	0.305	148.63	45.37	1.081	0.99898
1452	1	2.78	1	167	459	0.002	167.00	0.36	1.000	0.99999
1453	5	49.60	8	4,610	1,816	0.004	576.25	2.54	1.000	0.99994
1454	4	18.88	4	1,133	944	0.004	283.25	1.20	1.000	0.99997
1521	4	10.68	40	2,620	383	0.104	65.50	6.84	1.081	0.99985
1523	4	12.90	213	40,037	752	0.283	187.97	53.24	1.087	0.99881
1843	2	4.37	2	262	1,104	0.002	131.00	0.24	1.000	0.99999
2051	1	1.65	207	20,565	207	1.000	99.35	99.35	1.000	0.99777
2091	2	3.76	2	226	900	0.002	113.00	0.25	1.000	0.99999
2171	3	11.23	3	674	583	0.005	224.67	1.16	1.000	0.99997
2172	6	14.87	311	45,590	243	1.280	146.59	187.61	1.301	0.99580
2211	2	1.80	22	1,318	737	0.030	59.91	1.79	1.048	0.99996
2212	2	2.22	30	2,423	1,341	0.022	80.77	1.81	1.034	0.99996
2511	1	4.10	1	246	621	0.002	246.00	0.40	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
2621	5	20.30	9	4,291	1,200	0.008	476.78	3.58	1.125	0.99992
2622	1	1.42	1	85	116	0.009	85.00	0.73	1.000	0.99998
2961	1	3.13	1	188	651	0.002	188.00	0.29	1.000	0.99999
3081	2	13.62	2	817	585	0.003	408.50	1.40	1.000	0.99997
3121	4	3.28	118	9,428	1,146	0.103	79.90	8.23	1.026	0.99982
3122	1	1.43	1	86	874	0.001	86.00	0.10	1.000	0.99999
3221	2	3.78	10	833	1,275	0.008	83.30	0.65	1.000	0.99999
3222	3	7.67	16	4,555	791	0.020	284.69	5.76	1.067	0.99987
3231	2	10.38	211	61,111	211	1.000	289.63	289.63	1.361	0.99351
3304	1	0.67	1	40	1,112	0.001	40.00	0.04	1.000	0.99999
3312	1	3.33	1	200	421	0.002	200.00	0.48	1.000	0.99999
3313	2	1.90	2	114	1,416	0.001	57.00	0.08	1.000	0.99999
3315	4	6.27	17	913	1,598	0.011	53.71	0.57	1.063	0.99999
3423	1	2.57	9	1,394	398	0.023	154.89	3.50	1.000	0.99992
3471	1	3.48	1	209	488	0.002	209.00	0.43	1.000	0.99999
3472	2	5.60	2	336	1,307	0.002	168.00	0.26	1.000	0.99999
3552	1	4.37	1	262	580	0.002	262.00	0.45	1.000	0.99999
3553	4	16.54	182	134,195	877	0.208	737.34	153.02	1.017	0.99657
3591	2	4.37	114	6,180	1,437	0.079	54.21	4.30	1.009	0.99990
3592	4	5.50	18	1,014	1,742	0.010	56.33	0.58	1.059	0.99999
3593	1	0.52	56	1,753	943	0.059	31.30	1.86	1.000	0.99996
3621	10	34.94	170	26,561	1,588	0.107	156.24	16.73	1.006	0.99963

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3661	1	1.35	5	409	1,066	0.005	81.80	0.38	1.000	0.99999
3662	1	1.02	31	1,911	873	0.036	61.65	2.19	1.000	0.99995
3663	1	1.13	1	68	308	0.003	68.00	0.22	1.000	0.99999
3664	1	0.93	1	56	576	0.002	56.00	0.10	1.000	0.99999
3671	2	11.88	519	64,140	518	1.002	123.58	123.82	1.002	0.99723
3672	1	2.00	130	15,596	137	0.949	119.97	113.84	1.000	0.99745
3691	1	0.25	1	15	375	0.003	15.00	0.04	1.000	0.99999
3692	10	20.40	14	1,518	415	0.034	108.43	3.66	1.400	0.99992
3702	1	1.33	1	80	656	0.002	80.00	0.12	1.000	0.99999
3751	1	1.08	68	4,465	914	0.074	65.66	4.89	1.000	0.99989
3872	1	0.37	1	22	1,088	0.001	22.00	0.02	1.000	0.99999
3878	1	0.82	1	49	824	0.001	49.00	0.06	1.000	0.99999
3891	1	21.67	1	1,300	447	0.002	1300.00	2.91	1.000	0.99993
3892	1	1.27	1	76	537	0.002	76.00	0.14	1.000	0.99999
3893	3	3.48	6	397	1,162	0.005	66.17	0.34	1.200	0.99999
3894	2	3.00	23	1,455	159	0.145	63.26	9.15	1.000	0.99980
3901	2	6.45	18	1,129	889	0.020	62.72	1.27	1.059	0.99997
3903	1	3.22	1	193	302	0.003	193.00	0.64	1.000	0.99999
3912	1	19.40	1	1,164	1,305	0.001	1164.00	0.89	1.000	0.99998
3913	1	6.05	1	363	823	0.001	363.00	0.44	1.000	0.99999
3914	2	5.03	2	302	393	0.005	151.00	0.77	1.000	0.99998
3951	9	30.11	65	21,711	945	0.069	334.02	22.97	1.066	0.99949

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3952	7	32.89	367	102,712	1,350	0.272	279.87	76.08	2.085	0.99830
3953	2	18.07	53	2,512	538	0.099	47.40	4.67	1.019	0.99990
3981	8	10.76	187	17,175	1,544	0.121	91.84	11.12	1.000	0.99975
3991	3	3.25	12	784	755	0.016	65.33	1.04	1.200	0.99998
403	1	15.40	1	924	269	0.004	924.00	3.43	1.000	0.99992
4031	2	7.78	59	24,630	709	0.083	417.46	34.74	1.017	0.99922
404	1	1.57	1	94	171	0.006	94.00	0.55	1.000	0.99999
4091	6	34.62	38	3,668	1,197	0.032	96.53	3.06	1.027	0.99993
4101	1	0.65	6	237	975	0.006	39.50	0.24	1.000	0.99999
4134	2	3.50	2	210	1,265	0.002	105.00	0.17	1.000	0.99999
4137	3	3.00	3	180	805	0.004	60.00	0.22	1.500	0.99999
4138	2	2.00	17	746	759	0.022	43.88	0.98	1.000	0.99998
4142	1	3.00	36	6,502	611	0.059	180.61	10.64	1.000	0.99976
4151	1	2.05	172	21,322	172	1.000	123.97	123.97	1.000	0.99722
4171	3	1.71	113	4,056	1,181	0.096	35.89	3.43	1.000	0.99992
4181	1	5.53	1	332	777	0.001	332.00	0.43	1.000	0.99999
4182	2	14.52	2	871	773	0.003	435.50	1.13	1.000	0.99997
4211	1	1.02	27	1,663	700	0.039	61.59	2.38	1.000	0.99995
4212	1	9.08	1	545	1,070	0.001	545.00	0.51	1.000	0.99999
4222	1	20.18	1	1,211	1,069	0.001	1211.00	1.13	1.000	0.99997
4224	1	0.38	1	23	765	0.001	23.00	0.03	1.000	0.99999
4312	1	5.58	1	335	889	0.001	335.00	0.38	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4324	3	6.40	6	714	653	0.009	119.00	1.09	1.000	0.99998
4343	1	4.75	25	7,142	1,672	0.015	285.68	4.27	1.000	0.99990
4361	4	25.63	19	5,450	1,638	0.012	286.84	3.33	1.000	0.99993
4362	1	17.18	1	1,031	835	0.001	1031.00	1.23	1.000	0.99997
4364	3	3.44	824	77,121	824	1.000	93.59	93.59	1.000	0.99790
4371	4	23.80	16	5,268	1,550	0.010	329.25	3.40	1.000	0.99992
4373	4	8.22	8	977	760	0.011	122.13	1.29	1.000	0.99997
4386	1	4.97	1	298	1,667	0.001	298.00	0.18	1.000	0.99999
4601	1	5.95	12	4,295	400	0.030	357.92	10.74	1.000	0.99976
4602	1	0.35	1	21	966	0.001	21.00	0.02	1.000	0.99999
4692	2	8.58	8	1,109	486	0.016	138.63	2.28	1.000	0.99995
4714	4	7.81	192	5,451	342	0.561	28.39	15.94	2.021	0.99964
4794	10	9.22	52	2,229	396	0.131	42.87	5.63	1.733	0.99987
5601	6	12.94	141	10,515	1,411	0.100	74.57	7.45	1.014	0.99983
5603	4	9.10	4	546	1,297	0.003	136.50	0.42	1.000	0.99999
5902	3	24.88	978	85,956	965	1.013	87.89	89.07	1.013	0.99800
5904	7	54.40	93	7,907	1,279	0.073	85.02	6.18	1.057	0.99986
5905	8	75.86	37	22,966	1,934	0.019	620.70	11.87	1.000	0.99973
6021	1	11.90	1	714	1,355	0.001	714.00	0.53	1.000	0.99999
6022	1	1.97	6	711	562	0.011	118.50	1.27	1.000	0.99997
6024	1	3.40	1	204	396	0.003	204.00	0.52	1.000	0.99999
6141	1	4.02	1	241	643	0.002	241.00	0.37	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
6144	1	1.48	1	89	327	0.003	89.00	0.27	1.000	0.99999
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	356	1,611.89	9,895	1,515,202	171,875	0.058	153.13	8.82	1.190	0.99980

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

2/1/2021 to 2/28/2021

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	1	1.90	1	114	1,377	0.001	114.00	0.08	1.000	0.99999
1091	2	1.53	2	92	703	0.003	46.00	0.13	1.000	0.99999
1092	6	16.13	6	968	942	0.006	161.33	1.03	1.000	0.99997
1101	1	3.25	1	195	165	0.006	195.00	1.18	1.000	0.99997
1102	1	3.50	30	6,326	1,062	0.028	210.87	5.96	1.000	0.99985
1103	3	5.20	325	31,751	1,002	0.324	97.70	31.69	1.000	0.99918
1211	1	0.83	30	1,522	1,501	0.020	50.73	1.01	1.000	0.99997
1230	2	4.06	27	2,764	1,219	0.022	102.37	2.27	1.000	0.99994
1232	1	0.62	1	37	1,203	0.001	37.00	0.03	1.000	0.99999
1241	1	5.90	17	6,028	880	0.019	354.59	6.85	1.000	0.99982
1243	1	1.08	1	65	1,235	0.001	65.00	0.05	1.000	0.99999
1261	3	6.47	405	73,954	403	1.005	182.60	183.51	1.005	0.99544
1262	3	6.55	3	393	167	0.018	131.00	2.35	1.500	0.99994
1263	2	4.00	1,240	239,393	1,217	1.019	193.06	196.71	1.019	0.99494
1265	4	8.01	1,426	269,031	1,309	1.089	188.66	205.52	1.089	0.99471
1267	1	3.15	83	15,687	83	1.000	189.00	189.00	1.000	0.99514
1271	4	11.62	278	82,264	981	0.283	295.91	83.86	1.049	0.99784

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	2.22	1	133	870	0.001	133.00	0.15	1.000	0.99999
1282	1	0.68	23	957	696	0.033	41.61	1.38	1.000	0.99996
1311	1	2.55	7	1,074	281	0.025	153.43	3.82	1.000	0.99990
1312	1	1.05	10	634	963	0.010	63.40	0.66	1.000	0.99998
1452	2	1.58	460	22,995	459	1.002	49.99	50.10	1.002	0.99871
1453	2	3.43	10	1,038	1,816	0.006	103.80	0.57	1.000	0.99999
1454	2	4.30	166	17,717	944	0.176	106.73	18.77	1.000	0.99952
1523	2	2.90	4	390	752	0.005	97.50	0.52	1.000	0.99999
2051	1	0.73	1	44	207	0.005	44.00	0.21	1.000	0.99999
2052	1	1.38	1	83	86	0.012	83.00	0.97	1.000	0.99998
2212	1	0.80	1	48	1,341	0.001	48.00	0.04	1.000	0.99999
2492	1	3.62	1	217	29	0.034	217.00	7.48	1.000	0.99981
2511	1	1.03	1	62	621	0.002	62.00	0.10	1.000	0.99999
2951	1	2.70	1	162	1,236	0.001	162.00	0.13	1.000	0.99999
3081	1	1.17	1	70	585	0.002	70.00	0.12	1.000	0.99999
3082	1	1.25	1	75	328	0.003	75.00	0.23	1.000	0.99999
3121	1	0.78	1	47	1,146	0.001	47.00	0.04	1.000	0.99999
3122	5	11.17	939	54,490	874	1.074	58.03	62.35	1.074	0.99840
3123	1	3.25	3	587	1,108	0.003	195.67	0.53	1.000	0.99999
3181	1	1.10	1	66	756	0.001	66.00	0.09	1.000	0.99999
3221	2	4.42	4	345	1,275	0.003	86.25	0.27	1.333	0.99999
3222	1	0.80	40	1,934	791	0.051	48.35	2.45	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
3303	1	0.93	1	56	1,787	0.001	56.00	0.03	1.000	0.99999
3311	1	1.27	1	76	540	0.002	76.00	0.14	1.000	0.99999
3315	3	3.93	33	2,848	1,598	0.021	86.30	1.78	1.000	0.99995
3422	3	6.81	59	2,959	993	0.059	50.15	2.98	1.000	0.99992
3423	1	1.85	169	18,759	398	0.425	111.00	47.13	1.000	0.99879
3552	1	8.12	10	4,872	580	0.017	487.20	8.40	1.000	0.99978
3593	2	1.80	944	61,228	943	1.001	64.86	64.93	1.001	0.99833
3621	1	1.37	7	579	1,588	0.004	82.71	0.36	1.000	0.99999
3662	2	4.86	5	687	873	0.006	137.40	0.79	1.000	0.99998
3664	2	1.25	88	4,699	576	0.153	53.40	8.16	1.000	0.99979
3671	1	0.68	22	915	518	0.042	41.59	1.77	1.000	0.99995
3692	2	5.60	8	1,348	415	0.019	168.50	3.25	2.000	0.99992
3694	1	0.77	1	46	524	0.002	46.00	0.09	1.000	0.99999
3751	2	4.38	2	263	914	0.002	131.50	0.29	1.000	0.99999
3871	1	0.80	1	48	1,377	0.001	48.00	0.03	1.000	0.99999
3872	3	7.38	42	3,165	1,088	0.039	75.36	2.91	1.024	0.99993
3878	1	3.25	5	977	824	0.006	195.40	1.19	1.000	0.99997
3893	1	1.95	1	117	1,162	0.001	117.00	0.10	1.000	0.99999
3912	2	1.09	2	65	1,305	0.002	32.50	0.05	1.000	0.99999
3951	2	2.26	2	136	945	0.002	68.00	0.14	1.000	0.99999
3953	1	0.85	1	51	538	0.002	51.00	0.09	1.000	0.99999
3992	2	2.50	2	150	171	0.012	75.00	0.88	1.000	0.99998

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4031	2	5.80	10	2,063	709	0.014	206.30	2.91	1.000	0.99993
4091	2	1.78	9	676	1,197	0.008	75.11	0.56	1.125	0.99999
4102	1	0.38	1	23	540	0.002	23.00	0.04	1.000	0.99999
4134	1	1.32	1	79	1,265	0.001	79.00	0.06	1.000	0.99999
4138	1	1.40	6	509	759	0.008	84.83	0.67	1.000	0.99998
4142	4	5.81	5	436	611	0.008	87.20	0.71	1.000	0.99998
4211	6	10.36	8	789	700	0.011	98.63	1.13	1.000	0.99997
4212	2	2.25	1,074	90,657	1,070	1.004	84.41	84.73	1.004	0.99782
4222	2	3.19	1,003	19,610	1,069	0.938	19.55	18.34	1.001	0.99953
4223	1	1.63	1	98	1,112	0.001	98.00	0.09	1.000	0.99999
4224	1	5.07	1	304	765	0.001	304.00	0.40	1.000	0.99999
4303	3	15.01	163	25,419	1,267	0.129	155.94	20.06	1.006	0.99948
4311	1	2.17	4	523	880	0.005	130.75	0.59	1.000	0.99998
4313	1	2.00	15	1,729	551	0.027	115.27	3.14	1.000	0.99992
4361	2	4.67	11	1,742	1,638	0.007	158.36	1.06	1.000	0.99997
4364	2	9.27	8	1,367	824	0.010	170.88	1.66	1.000	0.99996
4371	1	1.02	1	61	1,550	0.001	61.00	0.04	1.000	0.99999
4373	2	5.41	2	325	760	0.003	162.50	0.43	1.000	0.99999
4386	2	3.43	2	206	1,667	0.001	103.00	0.12	2.000	0.99999
4431	1	2.08	104	13,098	1,409	0.074	125.94	9.30	1.000	0.99976
4432	1	1.10	1	66	476	0.002	66.00	0.14	1.000	0.99999
4476	2	1.83	64	3,539	32	2.000	55.30	110.59	2.000	0.99716

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4511	1	1.22	1	73	1,129	0.001	73.00	0.06	1.000	0.99999
4512	2	4.17	2	250	1,098	0.002	125.00	0.23	1.000	0.99999
4714	1	0.65	1	39	342	0.003	39.00	0.11	1.000	0.99999
4784	2	0.89	2	53	101	0.020	26.50	0.52	1.000	0.99999
4791	1	1.22	1	73	624	0.002	73.00	0.12	1.000	0.99999
4794	1	1.30	396	31,178	396	1.000	78.73	78.73	1.000	0.99797
5601	3	8.63	20	7,338	1,411	0.014	366.90	5.20	1.000	0.99987
5602	1	1.27	1	76	711	0.001	76.00	0.11	1.000	0.99999
5603	1	1.00	15	909	1,297	0.012	60.60	0.70	1.000	0.99998
5641	1	1.57	8	756	341	0.023	94.50	2.22	1.000	0.99994
5903	1	0.88	4	215	286	0.014	53.75	0.75	1.000	0.99998
5904	1	1.72	3	311	1,279	0.002	103.67	0.24	1.000	0.99999
6021	1	1.25	1,170	88,432	1,355	0.863	75.58	65.26	1.000	0.99832
6141	1	0.87	643	33,971	643	1.000	52.83	52.83	1.000	0.99864
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	163	314.03	11,721	1,264,972	171,875	0.068	107.92	7.36	1.006	0.99981

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
3/1/2021 to 3/31/2021
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	1.28	1	77	1,753	0.001	77.00	0.04	1.000	0.99999
1052	1	0.93	77	4,354	1,174	0.066	56.55	3.71	1.000	0.99992
1082	3	26.24	1,997	550,670	1,380	1.447	275.77	399.04	1.447	0.99089
1091	2	1.68	50	2,662	704	0.071	53.24	3.78	1.020	0.99992
1094	3	1.35	1228	46,631	1,256	0.978	37.96	37.13	1.000	0.99915
1103	4	6.86	4	412	1,004	0.004	103.00	0.41	1.000	0.99999
1142	2	2.30	97	5,938	218	0.445	61.22	27.24	1.010	0.99939
1211	4	4.92	4	295	1,501	0.003	73.75	0.20	1.000	0.99999
1212	1	0.88	1	53	340	0.003	53.00	0.16	1.000	0.99999
1213	4	6.90	12	1,444	568	0.021	120.33	2.54	1.000	0.99994
1232	1	1.38	3	250	1,203	0.002	83.33	0.21	1.000	0.99999
1241	1	1.22	11	808	880	0.013	73.45	0.92	1.000	0.99998
1263	2	2.57	25	2,529	1,217	0.021	101.16	2.08	1.000	0.99995
1271	3	3.41	267	3,307	984	0.271	12.39	3.36	1.008	0.99992
1273	1	1.12	1	67	870	0.001	67.00	0.08	1.000	0.99999
1282	1	0.45	1	27	696	0.001	27.00	0.04	1.000	0.99999
1284	1	0.63	2,186	85,071	960	2.277	38.92	88.62	1.000	0.99801

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1285	1	3.17	1	190	1,122	0.001	190.00	0.17	1.000	0.99999
1311	2	4.58	282	20,500	281	1.004	72.70	72.95	1.004	0.99837
1312	2	1.83	972	69,145	964	1.008	71.14	71.73	1.009	0.99839
1454	1	0.30	1	18	944	0.001	18.00	0.02	1.000	0.99999
1521	2	2.68	2	161	384	0.005	80.50	0.42	1.000	0.99999
1523	5	8.33	1,512	136,133	752	2.009	90.11	181.03	2.009	0.99587
1841	1	0.82	2	98	552	0.004	49.00	0.18	1.000	0.99999
1842	3	3.55	3	213	292	0.010	71.00	0.73	1.000	0.99998
2051	1	1.33	8	642	208	0.038	80.25	3.09	1.000	0.99993
2091	1	7.27	163	71,081	900	0.181	436.08	78.98	1.000	0.99823
2171	1	1.13	1	68	584	0.002	68.00	0.12	1.000	0.99999
2212	2	2.00	55	3,301	1,348	0.041	60.02	2.45	1.000	0.99995
2491	1	2.10	1	126	63	0.016	126.00	2.00	1.000	0.99996
2511	2	4.06	53	9,417	621	0.085	177.68	15.16	1.019	0.99966
2621	2	4.33	3	359	1,200	0.003	119.67	0.30	1.000	0.99999
2622	1	1.65	1	99	115	0.009	99.00	0.86	1.000	0.99998
2961	1	14.70	8	7,058	651	0.012	882.25	10.84	1.000	0.99976
3121	2	3.32	13	978	1,146	0.011	75.23	0.85	1.000	0.99998
3221	1	3.05	1	183	1,276	0.001	183.00	0.14	1.000	0.99999
3232	2	2.45	2	147	444	0.005	73.50	0.33	1.000	0.99999
3302	2	2.70	49	5,389	648	0.076	109.98	8.32	1.021	0.99981
3303	2	4.69	23	1,123	1,788	0.013	48.83	0.63	1.045	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	7	2.87	1,057	77,437	1,598	0.661	73.26	48.46	1.460	0.99891
3421	1	2.38	300	43,094	300	1.000	143.64	143.64	1.000	0.99672
3422	1	2.43	993	145,457	993	1.000	146.48	146.48	1.000	0.99672
3423	2	3.22	399	58,063	398	1.003	145.52	145.89	1.003	0.99667
3471	1	1.18	488	34,672	489	0.998	71.05	70.90	1.000	0.99841
3472	3	6.78	1,478	141,746	1,308	1.130	95.90	108.37	1.131	0.99757
3553	3	3.44	4	311	874	0.005	77.75	0.36	1.000	0.99999
3592	1	1.02	1	61	1,744	0.001	61.00	0.03	1.000	0.99999
3621	1	1.13	1,588	107,984	1,588	1.000	68.00	68.00	1.000	0.99848
3661	1	0.13	1	8	1,072	0.001	8.00	0.01	1.000	0.99999
3662	2	1.28	883	26,159	874	1.010	29.63	29.93	1.010	0.99932
3664	2	17.12	179	152,093	576	0.311	849.68	264.05	1.059	0.99408
3692	1	0.88	416	22,131	416	1.000	53.20	53.20	1.000	0.99881
3694	1	1.10	1	66	524	0.002	66.00	0.13	1.000	0.99999
3702	1	4.55	1	273	662	0.002	273.00	0.41	1.000	0.99999
3751	3	3.62	36	2,630	914	0.039	73.06	2.88	3.000	0.99994
3872	1	0.57	1	34	1,116	0.001	34.00	0.03	1.000	0.99999
3873	1	0.70	1	42	810	0.001	42.00	0.05	1.000	0.99999
3878	2	5.18	72	15,575	828	0.087	216.32	18.81	1.029	0.99958
3893	2	2.27	1,163	71,634	1,163	1.000	61.59	61.59	1.001	0.99862
3894	1	1.83	11	1,211	160	0.069	110.09	7.57	1.000	0.99983
3901	1	2.30	1	138	888	0.001	138.00	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
3903	1	0.95	1	57	304	0.003	57.00	0.19	1.000	0.99999
3913	1	0.92	1	55	824	0.001	55.00	0.07	1.000	0.99999
3951	1	3.47	1	208	945	0.001	208.00	0.22	1.000	0.99999
3952	2	2.67	2	160	1,352	0.001	80.00	0.12	1.000	0.99999
3971	3	7.20	3	432	689	0.004	144.00	0.63	1.000	0.99999
3991	4	2.92	43	2,280	756	0.057	53.02	3.02	1.075	0.99993
3992	2	6.68	23	5,520	172	0.134	240.00	32.09	1.000	0.99928
401	1	0.85	116	5,981	116	1.000	51.56	51.56	1.000	0.99884
4031	2	2.65	60	2,521	710	0.085	42.02	3.55	1.017	0.99992
4091	3	5.71	2,394	282,981	1,197	2.000	118.20	236.41	2.000	0.99470
4092	2	3.70	452	65,599	451	1.002	145.13	145.45	1.002	0.99674
4134	1	1.02	30	1,859	1,265	0.024	61.97	1.47	1.000	0.99997
4137	1	0.43	1	26	806	0.001	26.00	0.03	1.000	0.99999
4142	3	22.65	16	14,131	612	0.026	883.19	23.09	1.000	0.99948
4172	6	6.66	424	8,523	1,816	0.233	20.14	4.69	1.010	0.99989
4211	1	0.07	700	3,313	704	0.994	4.73	4.71	1.000	0.99989
4222	2	2.00	1,076	73,631	1,070	1.006	68.43	68.81	1.007	0.99846
4223	3	2.80	22	1,742	1,112	0.020	79.18	1.57	1.000	0.99996
4324	2	12.51	2	751	654	0.003	375.50	1.15	1.000	0.99997
4341	8	12.91	151	22,884	1,814	0.083	151.55	12.62	1.135	0.99972
4361	5	11.18	56	6,693	1,638	0.034	119.52	4.09	1.018	0.99991
4363	2	4.79	4	651	694	0.006	162.75	0.94	1.000	0.99998

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4364	6	8.83	864	63,013	835	1.035	72.93	75.46	1.035	0.99831
4371	2	3.92	91	10,776	1,550	0.059	118.42	6.95	1.000	0.99984
4372	1	1.03	11	688	419	0.026	62.55	1.64	1.000	0.99996
4385	1	2.65	1	159	1,152	0.001	159.00	0.14	1.000	0.99999
4431	3	8.57	1,411	251,138	1,410	1.001	177.99	178.11	1.001	0.99601
4511	1	1.57	4	376	1,129	0.004	94.00	0.33	1.000	0.99999
4512	2	3.30	488	48,449	1,122	0.435	99.28	43.18	1.002	0.99903
4601	2	3.09	6	577	400	0.015	96.17	1.44	1.200	0.99997
4602	1	1.42	40	3,407	966	0.041	85.18	3.53	1.000	0.99992
4712	1	4.37	1	262	128	0.008	262.00	2.05	1.000	0.99995
4714	1	1.43	1	86	344	0.003	86.00	0.25	1.000	0.99999
4784	1	1.05	1	63	246	0.004	63.00	0.26	1.000	0.99999
4791	1	1.23	17	1,268	624	0.027	74.59	2.03	1.000	0.99995
4794	1	1.78	1	107	396	0.003	107.00	0.27	1.000	0.99999
5601	3	4.24	38	3,793	1,418	0.027	99.82	2.67	1.000	0.99994
5602	1	1.75	1	105	711	0.001	105.00	0.15	1.000	0.99999
5603	2	2.01	1,305	50,408	1,301	1.003	38.63	38.75	1.008	0.99913
5902	1	0.62	1	37	964	0.001	37.00	0.04	1.000	0.99999
5904	1	1.25	8	605	1,280	0.006	75.63	0.47	1.000	0.99999
6024	1	1.20	1	72	396	0.003	72.00	0.18	1.000	0.99999
6141	1	7.20	30	12,758	644	0.047	425.27	19.81	1.000	0.99956
6144	1	2.28	1	137	327	0.003	137.00	0.42	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	203	388.56	26,872	2,833,928	172,092	0.156	105.46	16.47	1.173	0.99963

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
4/1/2021 to 4/30/2021
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	0.58	14	495	1,754	0.008	35.36	0.28	1.000	0.99999
1051	1	1.57	41	3,867	777	0.053	94.32	4.98	1.000	0.99988
1052	2	2.05	43	2,692	1,175	0.037	62.60	2.29	1.024	0.99995
1082	4	7.82	6	566	1,380	0.004	94.33	0.41	1.000	0.99999
1091	2	2.49	2	149	705	0.003	74.50	0.21	1.000	0.99999
1094	1	0.33	1	20	1,238	0.001	20.00	0.02	1.000	0.99999
1103	1	1.08	98	6,459	1,006	0.097	65.91	6.42	1.000	0.99985
1104	1	1.87	123	13,845	191	0.644	112.56	72.49	1.000	0.99832
1211	2	2.02	2	121	1,501	0.001	60.50	0.08	1.000	0.99999
1212	12	4.75	92	2,199	341	0.270	23.90	6.45	1.022	0.99985
1213	1	0.40	17	416	569	0.030	24.47	0.73	1.000	0.99998
1230	2	1.93	1,326	119,926	1,229	1.079	90.44	97.58	1.080	0.99774
1232	2	4.85	6	702	1,203	0.005	117.00	0.58	1.000	0.99999
1241	2	2.87	95	3,957	881	0.108	41.65	4.49	1.011	0.99990
1243	1	0.92	79	4,395	1,235	0.064	55.63	3.56	1.000	0.99992
1263	2	1.75	2	105	1,217	0.002	52.50	0.09	1.000	0.99999
1265	1	0.77	1	46	1,310	0.001	46.00	0.04	1.000	0.99999
1271	1	1.25	12	900	987	0.012	75.00	0.91	1.000	0.99998
1282	3	5.70	57	4,658	697	0.082	81.72	6.68	2.192	0.99985
1312	2	2.40	2	144	965	0.002	72.00	0.15	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
1452	2	13.20	4	1,197	460	0.009	299.25	2.60	1.000	0.99994
1453	1	6.27	1	376	1,816	0.001	376.00	0.21	1.000	0.99999
1454	2	4.83	35	4,524	945	0.037	129.26	4.79	1.000	0.99989
1523	3	3.37	3	202	753	0.004	67.33	0.27	1.000	0.99999
1841	2	2.80	50	3,881	552	0.091	77.62	7.03	1.020	0.99984
1842	1	2.22	1	133	292	0.003	133.00	0.46	1.000	0.99999
2052	2	1.80	2	108	86	0.023	54.00	1.26	1.000	0.99997
2171	1	0.90	9	494	586	0.015	54.89	0.84	1.000	0.99998
2212	5	6.66	57	3,624	1,354	0.042	63.58	2.68	1.036	0.99994
2511	3	9.42	623	151,297	621	1.003	242.85	243.63	1.003	0.99436
2621	3	7.95	25	4,325	1,200	0.021	173.00	3.60	1.000	0.99992
2622	1	3.53	3	638	114	0.026	212.67	5.60	1.000	0.99987
2921	2	2.46	2	148	393	0.005	74.00	0.38	2.000	0.99999
2951	3	5.55	3	333	1,236	0.002	111.00	0.27	1.000	0.99999
2961	1	1.65	8	792	651	0.012	99.00	1.22	1.000	0.99997
3081	1	1.62	1	97	585	0.002	97.00	0.17	1.000	0.99999
3121	1	1.52	1	91	1,145	0.001	91.00	0.08	1.000	0.99999
3123	1	2.00	1	120	1,111	0.001	120.00	0.11	1.000	0.99999
3221	1	1.50	1	90	1,276	0.001	90.00	0.07	1.000	0.99999
3303	1	0.68	8	331	1,790	0.004	41.38	0.18	1.000	0.99999
3313	2	3.85	1,419	132,228	1,419	1.000	93.18	93.18	1.395	0.99784
3314	2	1.76	27	1,335	226	0.119	49.44	5.91	1.000	0.99986
3315	2	3.07	726	46,267	1,599	0.454	63.73	28.93	1.001	0.99933
3422	1	1.48	12	1,070	993	0.012	89.17	1.08	1.000	0.99998
3471	1	2.62	1	157	490	0.002	157.00	0.32	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
3472	1	1.10	7	463	1,308	0.005	66.14	0.35	1.000	0.99999
3551	1	0.70	1	42	1,042	0.001	42.00	0.04	1.000	0.99999
3553	1	0.62	1	37	870	0.001	37.00	0.04	1.000	0.99999
3591	2	1.97	2	118	1,524	0.001	59.00	0.08	1.000	0.99999
3592	2	2.50	2	150	1,747	0.001	75.00	0.09	1.000	0.99999
3662	3	3.32	695	14,054	875	0.794	20.22	16.06	1.016	0.99963
3751	1	1.22	12	878	915	0.013	73.17	0.96	1.000	0.99998
3872	2	1.71	49	3,171	1,143	0.043	64.71	2.77	1.000	0.99994
3878	2	1.55	2	93	833	0.002	46.50	0.11	1.000	0.99999
3891	1	2.83	1	170	447	0.002	170.00	0.38	1.000	0.99999
3892	1	5.35	7	2,250	538	0.013	321.43	4.18	1.000	0.99990
3901	1	1.95	1	117	887	0.001	117.00	0.13	1.000	0.99999
3952	2	1.82	15	1,062	1,354	0.011	70.80	0.78	1.000	0.99998
3981	1	2.00	1	120	1,548	0.001	120.00	0.08	1.000	0.99999
3982	3	3.22	605	42,637	1,819	0.333	70.47	23.44	1.013	0.99946
406	1	0.50	1	30	73	0.014	30.00	0.41	1.000	0.99999
4091	2	3.25	5	648	1,197	0.004	129.60	0.54	1.000	0.99999
4101	4	4.50	20	1,292	975	0.021	64.60	1.33	1.000	0.99997
4102	1	1.12	12	811	538	0.022	67.58	1.51	1.000	0.99997
4138	1	1.58	1	95	756	0.001	95.00	0.13	1.000	0.99999
4141	2	8.28	2	497	83	0.024	248.50	5.99	1.000	0.99986
4142	11	69.76	121	44,345	612	0.198	366.49	72.46	1.110	0.99832
4152	1	1.05	1	63	1,288	0.001	63.00	0.05	1.000	0.99999
4153	2	2.86	94	8,096	1,093	0.086	86.13	7.41	1.000	0.99983
4155	1	0.90	1	54	1,678	0.001	54.00	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
4171	3	8.72	1,182	57,935	1,182	1.000	49.01	49.01	1.713	0.99887
4172	1	0.13	1	8	1,819	0.001	8.00	0.00	1.000	0.99999
4181	1	1.68	1	101	777	0.001	101.00	0.13	1.000	0.99999
4182	1	1.45	1	87	773	0.001	87.00	0.11	1.000	0.99999
4211	2	4.31	17	2,046	707	0.024	120.35	2.89	1.000	0.99993
4212	1	0.93	33	1,858	1,070	0.031	56.30	1.74	1.000	0.99996
4303	2	1.90	155	9,447	1,281	0.121	60.95	7.37	1.006	0.99983
432	1	5.28	1	317	91	0.011	317.00	3.48	1.000	0.99992
4331	1	0.95	1	57	328	0.003	57.00	0.17	1.000	0.99999
4333	1	0.98	1	59	699	0.001	59.00	0.08	1.000	0.99999
4341	3	4.03	63	6,885	1,815	0.035	109.29	3.79	1.033	0.99991
4342	1	2.20	92	12,223	836	0.110	132.86	14.62	1.000	0.99966
4343	4	4.35	135	14,004	1,674	0.081	103.73	8.37	1.007	0.99981
4361	2	2.28	13	793	1,638	0.008	61.00	0.48	1.000	0.99999
4362	1	1.67	1	100	837	0.001	100.00	0.12	1.000	0.99999
4363	1	1.02	109	6,679	697	0.156	61.28	9.58	1.000	0.99978
4371	2	2.13	24	1,779	1,550	0.015	74.13	1.15	1.000	0.99997
4372	2	5.32	12	2,399	419	0.029	199.92	5.73	1.000	0.99987
4431	1	1.75	9	949	1,412	0.006	105.44	0.67	1.000	0.99998
4432	2	2.56	16	1,249	476	0.034	78.06	2.62	1.000	0.99994
4511	1	2.38	55	7,876	1,129	0.049	143.20	6.98	1.000	0.99984
4602	1	1.52	11	1,005	966	0.011	91.36	1.04	1.000	0.99998
4692	1	1.33	1	80	487	0.002	80.00	0.16	1.000	0.99999
4712	1	1.63	1	98	129	0.008	98.00	0.76	1.000	0.99998
4714	2	2.56	5	478	347	0.014	95.60	1.38	1.250	0.99997
4791	4	2.41	11	392	625	0.018	35.64	0.63	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
5602	1	0.67	1	40	711	0.001	40.00	0.06	1.000	0.99999
5905	4	7.48	229	23,958	1,934	0.118	104.62	12.39	1.000	0.99971
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	187	339.39	8,882	793,715	172,439	0.052	89.36	4.60	1.137	0.99989

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

5/1/2021 to 5/31/2021

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	2.85	8	878	1,754	0.005	109.75	0.50	1.000	0.99999
1052	3	9.91	3	595	1,175	0.003	198.33	0.51	1.000	0.99999
1082	1	1.48	1	89	1,380	0.001	89.00	0.06	1.000	0.99999
1091	1	1.25	1	75	705	0.001	75.00	0.11	1.000	0.99999
1092	1	1.70	1	102	942	0.001	102.00	0.11	1.000	0.99999
1094	10	10.99	103	4,168	1,238	0.083	40.47	3.37	1.020	0.99992
1101	4	15.57	4	934	165	0.024	233.50	5.66	1.000	0.99987
1102	5	27.49	86	16,907	1,067	0.081	196.59	15.85	1.024	0.99965
1103	8	10.85	1,241	116,316	1,006	1.234	93.73	115.62	1.234	0.99741
1141	2	3.46	3	298	912	0.003	99.33	0.33	1.500	0.99999
1211	2	2.65	19	1,652	1,501	0.013	86.95	1.10	1.000	0.99998
1212	1	1.57	1	94	341	0.003	94.00	0.28	1.000	0.99999
1213	1	0.42	9	229	569	0.016	25.44	0.40	1.000	0.99999
1230	2	3.25	15	804	1,229	0.012	53.60	0.65	1.000	0.99999
1232	5	9.09	30	2,918	1,203	0.025	97.27	2.43	1.071	0.99995
1242	3	11.89	23	1,603	857	0.027	69.70	1.87	1.000	0.99996
1243	1	1.13	14	960	1,235	0.011	68.57	0.78	1.000	0.99998
1263	3	4.50	94	12,972	1,217	0.077	138.00	10.66	1.000	0.99976
1265	1	1.23	155	11,455	1,310	0.118	73.90	8.74	1.000	0.99980
1271	6	25.87	28	6,111	987	0.028	218.25	6.19	1.037	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
1273	4	9.91	64	6,398	870	0.074	99.97	7.35	1.000	0.99984
1282	2	3.70	50	2,104	697	0.072	42.08	3.02	1.000	0.99993
1283	1	1.55	1	93	349	0.003	93.00	0.27	1.000	0.99999
1285	2	6.68	19	6,211	1,122	0.017	326.89	5.54	1.000	0.99988
1312	2	3.06	983	50,628	965	1.019	51.50	52.46	1.019	0.99882
1451	5	5.04	13	637	551	0.024	49.00	1.16	1.000	0.99997
1452	1	3.73	12	2,697	460	0.026	224.75	5.86	1.000	0.99987
1453	2	1.02	2	61	1,816	0.001	30.50	0.03	1.000	0.99999
1454	2	1.85	40	2,240	945	0.042	56.00	2.37	2.000	0.99995
1523	4	6.73	22	1,841	753	0.029	83.68	2.44	1.000	0.99995
1841	1	1.68	552	55,572	552	1.000	101.00	101.00	1.000	0.99769
1842	3	3.95	97	5,787	292	0.332	59.66	19.82	1.102	0.99956
2092	2	12.38	6	1,078	946	0.006	179.67	1.14	1.000	0.99997
2171	1	2.65	586	93,330	586	1.000	159.27	159.27	1.000	0.99643
2211	2	2.03	29	1,668	740	0.039	57.52	2.25	1.000	0.99995
2212	1	0.92	1	55	1,354	0.001	55.00	0.04	1.000	0.99999
2511	3	15.22	623	70,704	621	1.003	113.49	113.86	1.003	0.99745
2621	1	1.43	5	430	1,200	0.004	86.00	0.36	1.000	0.99999
2921	2	2.56	2	154	393	0.005	77.00	0.39	1.000	0.99999
2951	6	12.58	511	77,741	1,236	0.413	152.14	62.90	1.037	0.99859
2961	5	20.07	724	90,503	651	1.056	131.65	139.02	1.056	0.99683
3081	1	2.45	1	147	585	0.002	147.00	0.25	1.000	0.99999
3121	5	6.75	62	5,793	1,145	0.054	93.44	5.06	1.016	0.99989
3122	2	3.13	18	1,337	877	0.021	74.28	1.52	1.000	0.99997
3221	7	11.63	21	1,447	1,276	0.016	68.90	1.13	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
3222	2	11.25	792	480,719	791	1.001	606.97	607.74	1.001	0.98639
3231	2	9.80	213	102,058	211	1.009	479.15	483.69	1.009	0.98916
3232	1	8.02	444	213,919	444	1.000	481.80	481.80	1.000	0.98921
3301	2	1.38	4	166	768	0.005	41.50	0.22	1.000	0.99999
3302	1	0.73	62	2,756	648	0.096	44.45	4.25	1.000	0.99990
3303	5	4.97	131	7,428	1,790	0.073	56.70	4.15	1.031	0.99991
3313	2	7.21	15	4,299	1,419	0.011	286.60	3.03	1.000	0.99993
3422	1	2.13	4	515	993	0.004	128.75	0.52	1.000	0.99999
3471	2	3.60	2	216	490	0.004	108.00	0.44	1.000	0.99999
3472	6	7.58	1,486	225,018	1,308	1.136	151.43	172.03	1.136	0.99615
3551	1	0.95	1	57	1,042	0.001	57.00	0.05	1.000	0.99999
3552	3	7.78	584	155,468	582	1.003	266.21	267.13	1.003	0.99402
3553	5	11.92	257	38,829	870	0.295	151.09	44.63	1.158	0.99900
3592	4	7.73	71	6,224	1,747	0.041	87.66	3.56	1.000	0.99992
3593	1	0.73	33	1,452	949	0.035	44.00	1.53	1.000	0.99997
3621	3	2.57	59	3,389	1,588	0.037	57.44	2.13	1.017	0.99995
3661	2	4.00	24	1,211	1,078	0.022	50.46	1.12	1.043	0.99997
3662	3	1.22	7	185	875	0.008	26.43	0.21	1.000	0.99999
3663	1	5.63	8	2,706	309	0.026	338.25	8.76	1.000	0.99980
3664	3	2.79	43	1,776	577	0.075	41.30	3.08	1.049	0.99993
3671	4	14.90	6	1,161	655	0.009	193.50	1.77	1.000	0.99996
3673	1	11.83	4	2,842	274	0.015	710.50	10.37	1.000	0.99977
3675	4	24.85	4	1,491	421	0.010	372.75	3.54	1.000	0.99992
3691	1	0.58	60	2,100	375	0.160	35.00	5.60	1.000	0.99987
3692	3	3.36	19	2,082	416	0.046	109.58	5.00	1.056	0.99989

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3701	1	0.60	4	147	529	0.008	36.75	0.28	1.000	0.99999
3702	2	0.31	2	19	669	0.003	9.50	0.03	2.000	0.99999
3751	3	2.77	72	4,191	915	0.079	58.21	4.58	1.029	0.99990
3871	1	0.73	3	134	1,086	0.003	44.67	0.12	1.000	0.99999
3873	2	1.54	32	1,582	812	0.039	49.44	1.95	1.000	0.99996
3878	2	2.19	97	6,141	833	0.116	63.31	7.37	1.000	0.99983
3891	4	14.94	4	896	447	0.009	224.00	2.00	1.333	0.99996
3893	6	11.00	32	3,802	1,164	0.027	118.81	3.27	1.103	0.99993
3894	4	7.34	203	22,682	160	1.269	111.73	141.76	1.269	0.99682
3901	4	9.19	1,784	306,784	887	2.011	171.96	345.87	2.011	0.99225
3902	1	3.77	95	21,470	95	1.000	226.00	226.00	1.000	0.99494
3903	3	13.00	617	195,503	305	2.023	316.86	640.99	2.023	0.98564
3912	3	6.17	74	5,863	1,351	0.055	79.23	4.34	1.042	0.99990
3913	5	12.23	97	17,660	826	0.117	182.06	21.38	1.010	0.99952
3914	2	2.66	34	3,066	394	0.086	90.18	7.78	1.000	0.99983
3951	1	0.98	1	59	945	0.001	59.00	0.06	1.000	0.99999
3952	9	16.00	1,243	221,904	1,354	0.918	178.52	163.89	1.134	0.99633
3953	1	1.50	4	360	537	0.007	90.00	0.67	1.000	0.99998
3981	14	18.45	745	88,754	1,548	0.481	119.13	57.33	1.048	0.99872
3982	9	8.08	466	22,411	1,819	0.256	48.09	12.32	1.024	0.99972
3991	1	1.28	1	77	756	0.001	77.00	0.10	1.000	0.99999
3992	2	2.75	172	13,227	172	1.000	76.90	76.90	1.006	0.99828
402	2	11.95	2	717	109	0.018	358.50	6.58	1.000	0.99985
4031	3	2.15	15	604	710	0.021	40.27	0.85	1.000	0.99998
405	1	2.83	1	170	54	0.019	170.00	3.15	1.000	0.99993

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS	CUSTOMERS AFFECTED REPORTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4092	3	8.24	61	23,061	451	0.135	378.05	51.13	1.034	0.99885
4102	3	2.05	57	3,468	538	0.106	60.84	6.45	1.018	0.99986
4134	2	3.22	16	1,189	1,265	0.013	74.31	0.94	1.000	0.99998
4138	1	1.77	13	1,386	756	0.017	106.62	1.83	1.000	0.99996
4141	3	10.99	3	659	83	0.036	219.67	7.94	1.000	0.99982
4142	8	20.77	160	20,631	612	0.261	128.94	33.71	1.231	0.99924
4151	1	1.27	10	761	172	0.058	76.10	4.42	1.000	0.99990
4152	1	1.27	1	76	1,288	0.001	76.00	0.06	1.000	0.99999
4153	5	19.42	1,077	114,613	1,093	0.985	106.42	104.86	1.228	0.99765
4154	1	34.18	1	2,051	1,349	0.001	2051.00	1.52	1.000	0.99997
4171	1	0.58	38	1,331	1,182	0.032	35.03	1.13	1.000	0.99997
4172	3	5.82	1,825	88,275	1,819	1.003	48.37	48.53	1.003	0.99891
4173	3	6.49	739	43,528	688	1.074	58.90	63.27	1.074	0.99858
4181	1	2.87	16	2,756	777	0.021	172.25	3.55	1.000	0.99992
4211	1	2.00	59	7,128	707	0.083	120.81	10.08	1.000	0.99977
4212	8	24.81	32	2,989	1,070	0.030	93.41	2.79	1.032	0.99994
4222	5	6.62	1,230	53,888	1,070	1.150	43.81	50.36	1.150	0.99887
4223	1	0.32	11	217	1,112	0.010	19.73	0.20	1.000	0.99999
4224	3	2.23	32	1,400	765	0.042	43.75	1.83	1.032	0.99996
4302	5	14.95	10	1,508	662	0.015	150.80	2.28	1.111	0.99995
4303	1	3.98	10	2,395	1,281	0.008	239.50	1.87	1.000	0.99996
4312	3	21.55	29	20,267	891	0.033	698.86	22.75	1.000	0.99949
4313	4	38.98	551	242,174	551	1.000	439.52	439.52	1.477	0.99015
4321	2	4.97	12	1788	6	2.000	298.00	298.00	2.000	0.99320
4331	1	2.43	3	438	328	0.009	146.00	1.34	1.000	0.99997
4334	1	0.90	1	54	299	0.003	54.00	0.18	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS	CUSTOMERS AFFECTED REPORTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4341	2	3.23	11	734	1,815	0.006	66.73	0.40	1.100	0.99999
4342	2	4.15	93	11,330	836	0.111	121.83	13.55	1.011	0.99970
4343	1	1.22	1	73	1,674	0.001	73.00	0.04	1.000	0.99999
4361	1	1.50	1,638	147,420	1,638	1.000	90.00	90.00	1.000	0.99798
4362	3	8.30	839	50,658	837	1.002	60.38	60.52	1.002	0.99864
4363	3	8.38	699	68,711	697	1.003	98.30	98.58	1.003	0.99779
4364	4	6.77	861	53,531	846	1.018	62.17	63.28	1.018	0.99858
4371	18	14.58	84	6,591	1,550	0.054	78.46	4.25	1.000	0.99990
4372	4	4.55	422	37,859	419	1.007	89.71	90.36	1.007	0.99798
4373	5	3.62	763	67,540	760	1.004	88.52	88.87	1.005	0.99801
4385	3	4.08	3	245	1,152	0.003	81.67	0.21	1.000	0.99999
4386	1	1.27	1	76	1,668	0.001	76.00	0.05	1.000	0.99999
4431	4	12.90	18	2,482	1,412	0.013	137.89	1.76	1.000	0.99996
4512	2	5.53	1,148	324,153	1,147	1.001	282.36	282.61	1.001	0.99367
4513	1	1.37	1	82	701	0.001	82.00	0.12	1.000	0.99999
454	1	3.45	1	207	60	0.017	207.00	3.45	1.000	0.99992
4602	2	1.66	203	8,763	966	0.210	43.17	9.07	1.000	0.99980
4692	2	2.43	12	986	487	0.025	82.17	2.02	1.091	0.99995
4791	1	0.60	3	108	625	0.005	36.00	0.17	1.000	0.99999
4793	1	1.58	1	95	733	0.001	95.00	0.13	1.000	0.99999
4794	1	2.17	5	654	396	0.013	130.80	1.65	1.000	0.99996
5601	5	5.49	56	4,702	1,426	0.039	83.96	3.30	1.018	0.99993
5603	2	2.10	226	15,614	1,305	0.173	69.09	11.96	1.097	0.99973
5641	1	0.87	1	52	341	0.003	52.00	0.15	1.000	0.99999
5901	1	1.50	1	90	821	0.001	90.00	0.11	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
5903	1	4.77	11	3,154	287	0.038	286.73	10.99	1.000	0.99975
5904	5	8.32	119	6,167	1,280	0.093	51.82	4.82	1.000	0.99989
5905	9	14.74	109	5,220	1,934	0.056	47.89	2.70	1.058	0.99994
6021	9	80.30	58	26,475	1,355	0.043	456.47	19.54	1.018	0.99956
6022	2	4.41	52	10,613	562	0.093	204.10	18.88	1.020	0.99958
6023	1	20.55	1	1,233	129	0.008	1233.00	9.56	1.000	0.99979
6024	1	0.93	1	56	396	0.003	56.00	0.14	1.000	0.99999
6142	1	1.55	1	93	327	0.003	93.00	0.28	1.000	0.99999
6143	1	0.18	1	11	375	0.003	11.00	0.03	1.000	0.99999
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	449	1,081.82	30,033	4,374,780	172,441	0.174	145.67	25.37	1.103	0.99943

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
6/1/2021 to 6/30/2021
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	7	7.43	469	34,360	1,754	0.267	73.26	19.59	1.484	0.99955
1052	3	2.83	63	4,395	1,175	0.054	69.76	3.74	1.033	0.99991
1082	5	11.46	26	1,926	1,380	0.019	74.08	1.40	1.040	0.99997
1091	1	1.93	1	116	705	0.001	116.00	0.16	1.000	0.99999
1092	8	23.80	262	134,122	942	0.278	511.92	142.38	1.074	0.99670
1093	1	5.63	1	338	231	0.004	338.00	1.46	1.000	0.99997
1094	1	1.62	3	292	1,238	0.002	97.33	0.24	1.000	0.99999
1102	5	16.17	49	5,892	1,067	0.046	120.24	5.52	1.043	0.99987
1141	2	6.36	21	6,291	912	0.023	299.57	6.90	1.000	0.99984
1211	3	2.22	6	214	1,501	0.004	35.67	0.14	1.000	0.99999
1212	1	1.32	1	79	341	0.003	79.00	0.23	1.000	0.99999
1213	5	4.84	7	430	569	0.012	61.43	0.76	1.000	0.99998
1230	5	3.29	12	482	1,229	0.010	40.17	0.39	1.000	0.99999
1232	7	10.29	214	24,526	1,203	0.178	114.61	20.39	1.223	0.99953
1233	1	2.18	1	131	647	0.002	131.00	0.20	1.000	0.99999
1241	1	2.73	1	164	881	0.001	164.00	0.19	1.000	0.99999
1243	1	1.17	7	495	1,235	0.006	70.71	0.40	1.000	0.99999
1263	3	2.16	25	638	1,217	0.021	25.52	0.52	1.000	0.99999
1265	2	2.09	117	7,192	1,310	0.089	61.47	5.49	1.009	0.99987
1271	3	13.71	3	823	987	0.003	274.33	0.83	1.000	0.99998

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1273	1	1.65	1	99	870	0.001	99.00	0.11	1.000	0.99999
1282	4	10.29	4	618	697	0.006	154.50	0.89	1.000	0.99998
1284	2	4.60	30	3,059	954	0.031	101.97	3.21	1.034	0.99993
1312	7	12.93	52	6,255	965	0.054	120.29	6.48	1.040	0.99985
1451	1	1.47	15	1,321	551	0.027	88.07	2.40	1.000	0.99994
1452	4	13.72	8	1,683	460	0.017	210.38	3.66	1.143	0.99992
1453	4	10.41	10	897	1,816	0.006	89.70	0.49	1.000	0.99999
1454	5	9.18	108	3,255	945	0.114	30.14	3.44	1.038	0.99992
1521	4	3.57	26	1,803	384	0.068	69.35	4.70	1.083	0.99989
1523	5	7.09	198	28,155	753	0.263	142.20	37.39	1.131	0.99913
1842	2	1.93	2	116	292	0.007	58.00	0.40	1.000	0.99999
2051	4	4.62	211	15,375	208	1.014	72.87	73.92	1.014	0.99829
2052	2	4.80	86	12,065	86	1.000	140.29	140.29	1.911	0.99675
2091	2	3.80	4	581	900	0.004	145.25	0.65	1.000	0.99999
2092	2	2.40	24	1,593	946	0.025	66.38	1.68	1.000	0.99996
2171	1	0.70	5	213	586	0.009	42.60	0.36	1.000	0.99999
2172	1	1.38	1	83	243	0.004	83.00	0.34	1.000	0.99999
2211	1	1.87	18	2,017	740	0.024	112.06	2.73	1.000	0.99994
2212	6	9.18	51	4,059	1,354	0.038	79.59	3.00	1.063	0.99993
2492	1	3.12	1	187	29	0.034	187.00	6.45	1.000	0.99985
2511	2	4.83	622	110,123	621	1.002	177.05	177.33	1.002	0.99590
2621	3	6.02	68	7,452	1,200	0.057	109.59	6.21	1.046	0.99986
2622	1	1.03	1	62	114	0.009	62.00	0.54	1.000	0.99999
2921	7	3.43	25	970	393	0.064	38.80	2.47	1.136	0.99994
2951	3	3.78	8	573	1,236	0.006	71.63	0.46	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
2961	5	10.88	103	23,908	651	0.158	232.12	36.73	1.288	0.99915
2962	1	0.82	1	49	262	0.004	49.00	0.19	1.000	0.99999
3081	10	51.71	602	73,990	585	1.029	122.91	126.48	1.029	0.99707
3082	2	4.09	329	40,875	328	1.003	124.24	124.62	1.003	0.99712
3122	3	1.97	6	189	877	0.007	31.50	0.22	1.000	0.99999
3181	1	0.95	1	57	756	0.001	57.00	0.08	1.000	0.99999
3221	5	7.72	85	2,890	1,276	0.067	34.00	2.26	1.000	0.99995
3222	1	5.02	1	301	791	0.001	301.00	0.38	1.000	0.99999
3232	1	4.30	9	2,326	444	0.020	258.44	5.24	1.000	0.99988
3301	3	3.60	31	2,555	768	0.040	82.42	3.33	1.033	0.99992
3303	1	3.27	1	196	1,790	0.001	196.00	0.11	1.000	0.99999
3304	2	2.07	2	124	1,115	0.002	62.00	0.11	1.000	0.99999
3311	1	1.32	1	79	540	0.002	79.00	0.15	1.000	0.99999
3313	1	1.88	1	113	1,419	0.001	113.00	0.08	1.000	0.99999
3314	1	1.13	19	1,294	226	0.084	68.11	5.73	1.000	0.99987
3422	1	2.03	60	7,298	993	0.060	121.63	7.35	1.000	0.99983
3423	1	3.17	9	1,714	399	0.023	190.44	4.30	1.000	0.99990
3471	2	1.90	37	2,150	490	0.076	58.11	4.39	1.000	0.99990
3472	3	2.96	16	525	1,308	0.012	32.81	0.40	1.000	0.99999
3551	2	1.89	69	5,029	1,042	0.066	72.88	4.83	1.000	0.99989
3552	3	2.96	29	2,051	582	0.050	70.72	3.52	1.000	0.99992
3553	2	2.83	42	3,586	870	0.048	85.38	4.12	1.105	0.99990
3591	2	1.48	36	1,602	1,524	0.024	44.50	1.05	1.000	0.99998
3592	10	20.53	231	22,273	1,747	0.132	96.42	12.75	1.000	0.99970
3593	1	1.58	42	3,999	949	0.044	95.21	4.21	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
3594	1	2.53	1	152	787	0.001	152.00	0.19	1.000	0.99999
3621	4	3.62	148	6,213	1,588	0.093	41.98	3.91	1.014	0.99991
3661	2	2.23	32	3,351	1,078	0.030	104.72	3.11	1.032	0.99993
3662	5	4.82	32	1,124	875	0.037	35.13	1.28	1.000	0.99997
3663	1	0.92	14	770	309	0.045	55.00	2.49	1.000	0.99994
3664	3	6.33	3	380	577	0.005	126.67	0.66	1.000	0.99998
3671	1	0.68	1	41	655	0.002	41.00	0.06	1.000	0.99999
3675	1	1.62	25	2,425	421	0.059	97.00	5.76	1.000	0.99987
3691	1	1.35	19	1,539	375	0.051	81.00	4.10	1.000	0.99991
3693	1	2.22	181	24,229	181	1.000	133.86	133.86	1.000	0.99690
3701	2	5.98	2	359	529	0.004	179.50	0.68	1.000	0.99998
3702	1	0.83	14	711	669	0.021	50.79	1.06	1.000	0.99998
3751	5	8.49	44	4,827	915	0.048	109.70	5.28	1.000	0.99988
3871	2	1.85	2	111	1,086	0.002	55.50	0.10	1.000	0.99999
3872	2	1.79	2	107	1,143	0.002	53.50	0.09	1.000	0.99999
3873	2	2.20	15	1,178	812	0.018	78.53	1.45	1.071	0.99997
3878	5	5.42	69	5,610	833	0.083	81.30	6.73	1.030	0.99984
3891	2	2.20	2	132	447	0.004	66.00	0.30	1.000	0.99999
3892	2	8.92	136	57,735	538	0.253	424.52	107.31	1.007	0.99752
3893	3	4.29	84	8,493	1,164	0.072	101.11	7.30	1.063	0.99983
3901	3	3.73	47	2,192	887	0.053	46.64	2.47	1.000	0.99994
3903	1	1.60	19	1,839	305	0.062	96.79	6.03	1.000	0.99986
3912	1	2.98	11	1,969	1,351	0.008	179.00	1.46	1.000	0.99997
3913	1	3.18	1	191	826	0.001	191.00	0.23	1.000	0.99999
3951	5	5.83	12	622	945	0.013	51.83	0.66	1.000	0.99998
3952	3	3.89	101	6,807	1,354	0.075	67.40	5.03	1.010	0.99988

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3953	5	16.82	147	34,260	537	0.274	233.06	63.80	1.050	0.99852
3981	1	1.33	2	161	1,548	0.001	80.50	0.10	1.000	0.99999
3991	1	1.08	17	1,070	756	0.022	62.94	1.42	1.000	0.99997
3992	2	2.45	2	147	172	0.012	73.50	0.85	1.000	0.99998
402	1	0.85	1	51	109	0.009	51.00	0.47	1.000	0.99999
4091	1	4.18	6	1,510	1,197	0.005	251.67	1.26	1.000	0.99997
4101	1	0.85	3	155	975	0.003	51.67	0.16	1.000	0.99999
4102	1	6.88	6	2,478	538	0.011	413.00	4.61	1.000	0.99989
4132	1	0.50	567	17,388	567	1.000	30.67	30.67	1.000	0.99929
4134	2	4.05	1,279	262,368	1,265	1.011	205.14	207.41	1.011	0.99520
4136	2	2.60	2	156	678	0.003	78.00	0.23	1.000	0.99999
4137	2	2.57	41	2,514	808	0.051	61.32	3.11	1.025	0.99993
4142	4	5.30	52	4,375	612	0.085	84.13	7.15	1.300	0.99983
4151	1	1.62	64	6,230	172	0.372	97.34	36.22	1.000	0.99916
4153	1	0.90	7	365	1,093	0.006	52.14	0.33	1.000	0.99999
4171	2	3.48	76	7,990	1,182	0.064	105.13	6.76	1.000	0.99984
4172	3	4.19	3	251	1,819	0.002	83.67	0.14	1.000	0.99999
4181	2	4.75	2	285	777	0.003	142.50	0.37	1.000	0.99999
4182	1	1.92	7	811	773	0.009	115.86	1.05	1.000	0.99998
4211	1	3.43	2	413	707	0.003	206.50	0.58	1.000	0.99999
4212	6	5.08	171	3,462	1,070	0.160	20.25	3.24	1.024	0.99993
4222	12	14.86	46	2,454	1,070	0.043	53.35	2.29	1.022	0.99995
4223	10	7.65	110	4,813	1,112	0.099	43.75	4.33	1.000	0.99990
4301	2	2.60	37	2,989	111	0.333	80.78	26.93	1.000	0.99938
4302	1	1.32	1	79	662	0.002	79.00	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
4303	2	15.42	11	8,690	1,281	0.009	790.00	6.78	1.000	0.99984
4304	1	0.48	8	238	244	0.033	29.75	0.98	1.000	0.99998
4311	1	3.28	1	197	880	0.001	197.00	0.22	1.000	0.99999
4312	1	2.35	14	1,974	891	0.016	141.00	2.22	1.000	0.99995
4313	4	4.21	20	1,461	551	0.036	73.05	2.65	1.053	0.99994
4321	1	3.33	1	200	6	0.167	200.00	33.33	1.000	0.99923
4333	1	3.22	1	193	699	0.001	193.00	0.28	1.000	0.99999
4341	10	16.01	2,081	185,256	1,815	1.147	89.02	102.07	1.147	0.99764
4342	1	1.67	1	100	836	0.001	100.00	0.12	1.000	0.99999
4343	1	4.28	1	257	1,674	0.001	257.00	0.15	1.000	0.99999
4361	4	3.85	7	397	1,638	0.004	56.71	0.24	1.750	0.99999
4362	2	2.04	85	5,185	837	0.102	61.00	6.19	1.012	0.99986
4363	6	12.42	84	6,824	697	0.121	81.24	9.79	1.024	0.99977
4364	2	1.68	9	524	846	0.011	58.22	0.62	1.000	0.99999
4371	5	5.33	5	319	1,550	0.003	63.80	0.21	1.000	0.99999
4372	2	3.10	2	186	419	0.005	93.00	0.44	1.000	0.99999
4373	2	2.70	31	2,514	760	0.041	81.10	3.31	1.148	0.99992
4431	6	9.25	8	845	1,412	0.006	105.63	0.60	1.000	0.99999
455	2	4.94	2	296	168	0.012	148.00	1.76	1.000	0.99996
4601	1	1.28	1	77	401	0.002	77.00	0.19	1.000	0.99999
4602	5	6.56	109	8,992	966	0.113	82.50	9.31	1.009	0.99978
4692	1	3.73	1	224	487	0.002	224.00	0.46	1.000	0.99999
4714	2	2.32	2	139	347	0.006	69.50	0.40	1.000	0.99999
4791	4	3.54	36	1,860	625	0.058	51.67	2.98	1.161	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
4794	2	4.78	34	2,747	396	0.086	80.79	6.94	1.063	0.99984
5601	2	2.00	6	396	1,426	0.004	66.00	0.28	1.000	0.99999
5901	4	2.22	101	2,663	821	0.123	26.37	3.24	1.010	0.99992
5902	4	4.45	7	446	962	0.007	63.71	0.46	1.167	0.99999
5903	1	1.98	13	1,551	287	0.045	119.31	5.40	1.000	0.99987
5904	2	15.68	91	6,303	1,280	0.071	69.26	4.92	1.046	0.99989
5905	3	4.00	82	8,798	1,934	0.042	107.29	4.55	1.025	0.99989
6021	4	9.26	89	9,240	1,355	0.066	103.82	6.82	1.085	0.99984
6022	1	1.93	1	116	562	0.002	116.00	0.21	1.000	0.99999
6024	2	3.62	173	18,400	396	0.437	106.36	46.46	1.006	0.99892
6141	4	6.84	4	411	644	0.006	102.75	0.64	1.000	0.99999
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	427	757.60	11,421	1,392,594	172,439	0.066	121.93	8.08	1.058	0.99981

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
7/1/2021 to 7/31/2021
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	1	0.82	23	1,145	777	0.030	49.78	1.47	1.000	0.99997
1082	2	2.83	1,381	153,239	1,380	1.001	110.96	111.04	1.001	0.99751
1091	4	8.26	37	2,992	705	0.052	80.86	4.24	1.000	0.99990
1092	1	0.85	22	1,139	942	0.023	51.77	1.21	1.000	0.99997
1094	1	0.78	4	188	1,238	0.003	47.00	0.15	1.000	0.99999
1101	1	1.42	1	85	165	0.006	85.00	0.52	1.000	0.99999
1103	1	1.07	1	64	1,006	0.001	64.00	0.06	1.000	0.99999
1211	1	1.42	1	85	1,501	0.001	85.00	0.06	1.000	0.99999
1230	1	0.57	1	34	1,229	0.001	34.00	0.03	1.000	0.99999
1233	2	4.70	2	282	647	0.003	141.00	0.44	1.000	0.99999
1241	3	21.08	129	67,777	881	0.146	525.40	76.93	1.500	0.99828
1242	1	1.17	857	60,561	857	1.000	70.67	70.67	1.000	0.99839
1263	4	4.16	503	26,580	1,217	0.413	52.84	21.84	1.091	0.99951
1271	2	23.21	14	2,508	987	0.014	179.14	2.54	1.077	0.99994
1273	1	2.33	13	1,832	870	0.015	140.92	2.11	1.000	0.99995
1284	1	4.00	1	240	954	0.001	240.00	0.25	1.000	0.99999
1285	2	3.70	374	55,587	1,122	0.333	148.63	49.54	1.100	0.99889

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1311	1	0.62	1	37	281	0.004	37.00	0.13	1.000	0.99999
1312	3	4.78	3	287	965	0.003	95.67	0.30	1.000	0.99999
1452	1	2.03	2	245	460	0.004	122.50	0.53	1.000	0.99999
1455	1	1.63	1	98	414	0.002	98.00	0.24	1.000	0.99999
1521	1	1.20	1	72	384	0.003	72.00	0.19	1.000	0.99999
1522	1	0.77	105	4,861	105	1.000	46.30	46.30	1.000	0.99896
1523	3	4.15	280	20,205	753	0.372	72.16	26.83	1.049	0.99940
2052	1	1.20	1	72	86	0.012	72.00	0.84	1.000	0.99998
2211	1	1.43	1	86	740	0.001	86.00	0.12	1.000	0.99999
2212	4	6.37	80	4,458	1,354	0.059	55.73	3.29	1.026	0.99993
2491	1	2.23	63	8,476	63	1.000	134.54	134.54	1.000	0.99699
2511	1	2.40	2	289	621	0.003	144.50	0.47	1.000	0.99999
2621	1	0.85	1	51	1,200	0.001	51.00	0.04	1.000	0.99999
2951	3	7.90	53	7,822	1,236	0.043	147.58	6.33	1.019	0.99986
2961	1	6.20	24	8,931	651	0.037	372.13	13.72	1.000	0.99969
2962	1	0.90	1	54	262	0.004	54.00	0.21	1.000	0.99999
3082	1	2.42	29	4,215	328	0.088	145.34	12.85	1.000	0.99971
3121	3	5.59	564	84,338	1,145	0.493	149.54	73.66	1.362	0.99835
3181	3	2.46	48	2,813	756	0.063	58.60	3.72	1.043	0.99992
3221	8	14.56	80	14,107	1,276	0.063	176.34	11.06	1.026	0.99975
3301	2	5.35	2	321	768	0.003	160.50	0.42	1.000	0.99999
3302	1	2.42	1	145	648	0.002	145.00	0.22	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
3303	3	3.04	1,802	140,581	1,790	1.007	78.01	78.54	1.007	0.99824
3304	2	5.28	101	24,118	1,115	0.091	238.79	21.63	1.010	0.99952
3312	1	0.37	29	643	425	0.068	22.17	1.51	1.000	0.99997
3314	2	2.29	31	2,354	226	0.137	75.94	10.42	1.000	0.99977
3422	2	4.46	3	322	993	0.003	107.33	0.32	1.000	0.99999
3472	1	0.38	1	23	1,308	0.001	23.00	0.02	1.000	0.99999
3551	1	1.72	1,042	107,447	1,042	1.000	103.12	103.12	1.000	0.99769
3552	4	10.00	320	116,248	582	0.550	363.28	199.74	1.016	0.99553
3553	1	1.70	869	88,985	870	0.999	102.40	102.28	1.000	0.99771
3591	3	3.82	35	2,305	1,524	0.023	65.86	1.51	1.000	0.99997
3592	2	4.20	6	835	1,747	0.003	139.17	0.48	1.000	0.99999
3594	1	1.12	11	744	787	0.014	67.64	0.95	1.000	0.99998
3621	1	0.80	1	48	1,588	0.001	48.00	0.03	1.000	0.99999
3661	2	1.25	77	2,693	1,078	0.071	34.97	2.50	1.000	0.99994
3662	8	7.46	183	15,374	875	0.209	84.01	17.57	3.268	0.99961
3663	1	3.08	1	185	309	0.003	185.00	0.60	1.000	0.99999
3664	4	5.81	17	1,278	577	0.029	75.18	2.21	1.308	0.99995
3673	2	2.05	5	314	274	0.018	62.80	1.15	1.000	0.99997
3691	1	1.78	1	107	375	0.003	107.00	0.29	1.000	0.99999
3701	1	3.78	34	7,724	529	0.064	227.18	14.60	1.000	0.99967
3702	1	1.25	6	452	669	0.009	75.33	0.68	1.000	0.99998
3871	1	0.50	1	30	1,086	0.001	30.00	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
3872	2	2.35	47	4,728	1,143	0.041	100.60	4.14	1.000	0.99991
3878	1	0.92	1	55	833	0.001	55.00	0.07	1.000	0.99999
3891	1	1.10	1	66	447	0.002	66.00	0.15	1.000	0.99999
3902	1	1.20	1	72	95	0.011	72.00	0.76	1.000	0.99998
3913	1	0.95	1	57	826	0.001	57.00	0.07	1.000	0.99999
3951	1	0.17	945	10,269	945	1.000	10.87	10.87	1.000	0.99976
3953	2	3.07	22	2,955	537	0.041	134.32	5.50	1.048	0.99988
3971	2	2.52	4	368	691	0.006	92.00	0.53	1.000	0.99999
3981	2	2.33	1,549	137,926	1,548	1.001	89.04	89.10	1.001	0.99800
3982	6	8.18	139	14,070	1,819	0.076	101.22	7.74	1.007	0.99983
3991	2	7.61	412	164,475	756	0.545	399.21	217.56	1.033	0.99513
3992	1	0.80	1	48	172	0.006	48.00	0.28	1.000	0.99999
4031	1	1.62	5	488	710	0.007	97.60	0.69	1.000	0.99998
4091	1	1.30	14	1,103	1,197	0.012	78.79	0.92	1.000	0.99998
4092	1	4.27	1	256	451	0.002	256.00	0.57	1.000	0.99999
4102	1	4.53	6	1,637	538	0.011	272.83	3.04	1.000	0.99993
4131	1	1.18	205	14,736	205	1.000	71.88	71.88	1.000	0.99839
4133	1	1.77	1	106	278	0.004	106.00	0.38	1.000	0.99999
4134	1	1.12	1	67	1,265	0.001	67.00	0.05	1.000	0.99999
4141	1	3.98	1	239	83	0.012	239.00	2.88	1.000	0.99994
4142	2	2.70	2	162	612	0.003	81.00	0.26	1.000	0.99999
4152	1	2.18	1	131	1,288	0.001	131.00	0.10	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
4153	1	4.77	15	4,296	1,093	0.014	286.40	3.93	1.000	0.99991
4154	3	10.93	1,389	213,886	1,349	1.030	153.99	158.55	1.030	0.99645
4155	2	1.31	1,679	89,659	1,678	1.001	53.40	53.43	1.001	0.99880
4172	3	5.95	102	15,284	1,819	0.056	149.84	8.40	1.000	0.99981
4181	2	0.92	20	820	777	0.026	41.00	1.06	1.053	0.99998
4182	2	10.31	10	3,210	773	0.013	321.00	4.15	1.000	0.99991
4212	3	2.80	3	168	1,070	0.003	56.00	0.16	1.000	0.99999
4222	4	3.90	79	4,419	1,070	0.074	55.94	4.13	1.026	0.99991
4223	2	2.90	55	6,435	1,112	0.049	117.00	5.79	1.000	0.99987
4224	1	6.28	33	12,461	765	0.043	377.61	16.29	1.000	0.99964
4301	1	0.55	9	302	111	0.081	33.56	2.72	1.000	0.99994
4303	1	4.32	10	2,595	1,281	0.008	259.50	2.03	1.000	0.99995
4313	2	2.79	13	1,236	551	0.024	95.08	2.24	1.000	0.99995
4341	5	7.56	35	2,671	1,815	0.019	76.31	1.47	1.094	0.99997
4342	7	11.51	185	13,126	836	0.221	70.95	15.70	1.149	0.99965
4343	2	1.97	47	3,224	1,674	0.028	68.60	1.93	1.022	0.99996
4361	1	0.98	1	59	1,638	0.001	59.00	0.04	1.000	0.99999
4363	2	1.86	96	5,415	697	0.138	56.41	7.77	2.000	0.99983
4364	1	3.32	1	199	846	0.001	199.00	0.24	1.000	0.99999
4371	3	11.82	46	16,519	1,550	0.030	359.11	10.66	1.022	0.99976
4372	3	5.25	9	549	419	0.021	61.00	1.31	1.125	0.99997
4373	2	2.98	2	179	760	0.003	89.50	0.24	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
4385	1	1.00	1	60	1,152	0.001	60.00	0.05	1.000	0.99999
4431	7	19.35	164	22,013	1,412	0.116	134.23	15.59	1.086	0.99965
4432	12	9.78	650	117,160	476	1.366	180.25	246.13	1.366	0.99449
4511	4	11.37	57	13,624	1,129	0.050	239.02	12.07	1.000	0.99973
4601	1	1.27	1	76	401	0.002	76.00	0.19	1.000	0.99999
4714	1	23.42	1	1,405	347	0.003	1405.00	4.05	1.000	0.99991
4791	2	1.94	23	1,154	625	0.037	50.17	1.85	1.045	0.99996
4794	3	6.53	16	1,991	396	0.040	124.44	5.03	1.000	0.99989
5601	1	0.57	36	1,244	1,426	0.025	34.56	0.87	1.000	0.99998
5602	5	7.92	11	1,901	711	0.015	172.82	2.67	1.000	0.99994
5603	2	1.56	9	719	1,305	0.007	79.89	0.55	1.125	0.99999
5902	1	1.33	103	8,246	962	0.107	80.06	8.57	1.000	0.99981
5905	1	3.40	1	204	1,934	0.001	204.00	0.11	1.000	0.99999
6024	1	1.18	1	71	396	0.003	71.00	0.18	1.000	0.99999
6141	1	3.25	165	32,201	644	0.256	195.16	50.00	1.000	0.99888
6142	1	2.80	9	1,513	327	0.028	168.11	4.63	1.000	0.99990
6143	1	3.80	41	9,360	375	0.109	228.29	24.96	1.000	0.99944
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	248	487.27	17,772	2,012,869	172,439	0.103	113.26	11.67	1.045	0.99974

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
8/1/2021 to 8/31/2021
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	0.97	1	58	1,754	0.001	58.00	0.03	1.000	0.99999
1051	2	2.40	20	944	777	0.026	47.20	1.21	1.000	0.99997
1052	1	0.42	1	25	1,175	0.001	25.00	0.02	1.000	0.99999
1082	1	0.77	10	464	1,380	0.007	46.40	0.34	1.000	0.99999
1092	1	2.77	10	1,669	942	0.011	166.90	1.77	1.000	0.99996
1101	2	1.89	2	113	165	0.012	56.50	0.68	2.000	0.99998
1102	1	1.40	1	84	1,067	0.001	84.00	0.08	1.000	0.99999
1104	1	0.25	1	15	191	0.005	15.00	0.08	1.000	0.99999
1141	3	10.54	56	10,163	912	0.061	181.48	11.14	1.077	0.99975
1211	1	1.07	1	64	1,501	0.001	64.00	0.04	1.000	0.99999
1232	1	1.25	1	75	1,203	0.001	75.00	0.06	1.000	0.99999
1241	1	1.07	5	321	881	0.006	64.20	0.36	1.000	0.99999
1262	2	1.05	2	63	167	0.012	31.50	0.38	1.000	0.99999
1263	2	6.05	3	590	1,217	0.002	196.67	0.48	1.000	0.99999
1265	2	4.87	15	2,913	1,310	0.011	194.20	2.22	1.000	0.99995
1267	1	2.20	1	132	83	0.012	132.00	1.59	1.000	0.99996
1271	2	7.97	2	478	987	0.002	239.00	0.48	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
1273	1	4.42	1	265	870	0.001	265.00	0.30	1.000	0.99999
1451	1	0.73	55	2,446	551	0.100	44.47	4.44	1.000	0.99990
1453	2	1.74	2	104	1,816	0.001	52.00	0.06	1.000	0.99999
1454	3	6.55	3,959	682,238	945	4.189	172.33	721.94	1.967	0.98383
1522	1	1.25	1	75	105	0.010	75.00	0.71	1.000	0.99998
1523	3	2.67	4	234	753	0.005	58.50	0.31	1.000	0.99999
1842	1	1.25	1	75	292	0.003	75.00	0.26	1.000	0.99999
2052	2	2.01	3	177	86	0.035	59.00	2.06	1.000	0.99995
2091	2	2.79	183	15,570	900	0.203	85.08	17.30	1.005	0.99961
2211	2	2.10	4	284	740	0.005	71.00	0.38	1.000	0.99999
2212	4	4.95	59	3,628	1,354	0.044	61.49	2.68	1.017	0.99994
2501	1	2.75	1	165	84	0.012	165.00	1.96	1.000	0.99996
2511	1	0.48	1	29	621	0.002	29.00	0.05	1.000	0.99999
2621	1	1.47	1	88	1,200	0.001	88.00	0.07	1.000	0.99999
2622	1	2.37	3	426	114	0.026	142.00	3.74	1.000	0.99992
2951	3	5.75	31	3,574	1,236	0.025	115.29	2.89	1.000	0.99994
2961	3	6.12	74	15,992	651	0.114	216.11	24.57	1.000	0.99945
3122	1	2.50	1	150	877	0.001	150.00	0.17	1.000	0.99999
3123	2	3.56	25	4,765	1,111	0.023	190.60	4.29	1.000	0.99990
3221	6	7.97	2,718	384,934	1,276	2.130	141.62	301.67	1.004	0.99324
3231	2	2.61	42	1,939	211	0.199	46.17	9.19	1.024	0.99979
3303	4	4.10	4	246	1,790	0.002	61.50	0.14	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	2.42	14	1,155	1,115	0.013	82.50	1.04	1.000	0.99998
3312	2	3.50	6	894	425	0.014	149.00	2.10	1.200	0.99995
3315	2	3.02	65	5,694	1,599	0.041	87.60	3.56	1.016	0.99992
3422	1	1.82	25	2,732	993	0.025	109.28	2.75	1.000	0.99994
3472	2	1.14	73	3,030	1,308	0.056	41.51	2.32	1.106	0.99995
3551	1	1.05	2	127	1,042	0.002	63.50	0.12	1.000	0.99999
3552	1	10.57	10	6,344	582	0.017	634.40	10.90	1.000	0.99976
3553	2	2.66	16	1,245	870	0.018	77.81	1.43	1.067	0.99997
3591	2	5.58	2	335	1,524	0.001	167.50	0.22	1.000	0.99999
3592	1	1.43	4	346	1,747	0.002	86.50	0.20	1.000	0.99999
3593	1	1.22	1	73	949	0.001	73.00	0.08	1.000	0.99999
3594	1	0.75	26	1,187	787	0.033	45.65	1.51	1.000	0.99997
3621	5	6.12	166	7,671	1,588	0.105	46.21	4.83	1.012	0.99989
3661	2	5.53	105	5,888	1,078	0.097	56.08	5.46	1.010	0.99988
3662	1	0.65	13	512	875	0.015	39.38	0.59	1.000	0.99999
3663	2	2.69	27	3,123	309	0.087	115.67	10.11	1.038	0.99977
3664	2	2.00	25	1,417	577	0.043	56.68	2.46	1.000	0.99994
3673	1	4.02	1	241	274	0.004	241.00	0.88	1.000	0.99998
3694	2	2.91	12	735	524	0.023	61.25	1.40	1.000	0.99997
3701	1	2.80	34	5,726	529	0.064	168.41	10.82	1.000	0.99976
3702	2	3.59	23	2,263	669	0.034	98.39	3.38	1.000	0.99992
3872	3	4.94	3	297	1,143	0.003	99.00	0.26	1.500	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3873	1	1.05	31	1,962	812	0.038	63.29	2.42	1.000	0.99995
3891	2	1.69	2	101	447	0.004	50.50	0.23	2.000	0.99999
3893	4	2.42	9	518	1,164	0.008	57.56	0.45	1.000	0.99999
3894	1	1.02	1	61	160	0.006	61.00	0.38	1.000	0.99999
3903	1	4.05	1	243	305	0.003	243.00	0.80	1.000	0.99998
3912	1	0.52	1,351	42,241	1,351	1.000	31.27	31.27	1.000	0.99930
3951	3	2.76	3	166	945	0.003	55.33	0.18	1.000	0.99999
3952	1	7.72	71	32,935	1,354	0.052	463.87	24.32	1.000	0.99946
3953	1	0.78	83	3,948	537	0.155	47.57	7.35	1.000	0.99984
3981	3	3.22	19	982	1,548	0.012	51.68	0.63	1.056	0.99999
3982	1	0.25	1	15	1,819	0.001	15.00	0.01	1.000	0.99999
3991	1	1.35	16	1,301	756	0.021	81.31	1.72	1.000	0.99996
4031	2	8.82	63	27,252	710	0.089	432.57	38.38	1.000	0.99914
4091	2	1.32	1,198	76,065	1,197	1.001	63.49	63.55	1.001	0.99858
4101	1	2.82	1	169	975	0.001	169.00	0.17	1.000	0.99999
4131	2	1.93	23	2,195	205	0.112	95.43	10.71	1.045	0.99976
4151	1	1.32	172	13,588	172	1.000	79.00	79.00	1.000	0.99823
4152	3	3.78	1,315	105,014	1,288	1.021	79.86	81.53	1.021	0.99817
4153	4	6.84	81	6,262	1,093	0.074	77.31	5.73	1.000	0.99987
4154	5	6.10	1,399	110,462	1,349	1.037	78.96	81.88	1.037	0.99817
4155	3	3.61	1,912	118,203	1,678	1.139	61.82	70.44	1.139	0.99842
4171	1	5.70	45	15,429	1,182	0.038	342.87	13.05	1.000	0.99971

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4172	3	9.63	25	12,181	1,819	0.014	487.24	6.70	1.000	0.99985
4173	2	1.37	2	82	688	0.003	41.00	0.12	2.000	0.99999
4181	2	2.90	20	1,720	777	0.026	86.00	2.21	1.000	0.99995
4182	2	21.17	5	3,169	773	0.006	633.80	4.10	1.000	0.99991
4212	4	3.72	5	276	1,070	0.005	55.20	0.26	1.000	0.99999
4222	2	5.63	27	2,298	1,070	0.025	85.11	2.15	1.000	0.99995
4223	2	9.30	22	1,446	1,112	0.020	65.73	1.30	1.000	0.99997
4303	2	5.31	24	3,675	1,281	0.019	153.13	2.87	1.000	0.99994
4304	2	5.62	22	4,491	244	0.090	204.14	18.41	1.048	0.99959
4313	1	1.73	1	104	551	0.002	104.00	0.19	1.000	0.99999
4321	5	37.48	64	29,691	6	10.667	463.92	4948.50	1.067	0.88915
4334	1	1.35	1	81	299	0.003	81.00	0.27	1.000	0.99999
4341	9	7.80	5,576	225,557	1,815	3.072	40.45	124.27	3.072	0.99722
4342	2	1.90	1,672	96,320	836	2.000	57.61	115.22	2.000	0.99742
4343	6	6.75	5,028	202,357	1,674	3.004	40.25	120.88	3.004	0.99729
4361	5	7.57	45	2,715	1,638	0.027	60.33	1.66	1.023	0.99996
4364	1	1.30	18	1,413	846	0.021	78.50	1.67	1.000	0.99996
4371	1	0.43	1	26	1,550	0.001	26.00	0.02	1.000	0.99999
4373	2	2.33	2	140	760	0.003	70.00	0.18	1.000	0.99999
4386	1	2.12	16	2,047	1,668	0.010	127.94	1.23	1.000	0.99997
4431	1	1.95	6	666	1,412	0.004	111.00	0.47	1.000	0.99999
4511	3	7.88	88	11,380	1,129	0.078	129.32	10.08	1.000	0.99977

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4512	3	4.59	3	275	1,147	0.003	91.67	0.24	1.000	0.99999
4601	1	5.95	1	357	401	0.002	357.00	0.89	1.000	0.99998
4692	3	17.44	431	150,711	487	0.885	349.68	309.47	1.005	0.99307
4712	1	1.45	1	87	129	0.008	87.00	0.67	1.000	0.99998
4714	3	8.96	19	2,606	347	0.055	137.16	7.51	1.118	0.99983
4791	2	1.40	2	84	625	0.003	42.00	0.13	1.000	0.99999
5601	3	4.23	3	254	1,426	0.002	84.67	0.18	1.000	0.99999
5901	2	3.35	54	2,974	821	0.066	55.07	3.62	1.000	0.99992
5903	9	59.67	1,014	327,896	287	3.533	323.37	1142.49	1.196	0.97441
5905	3	6.95	24	4,499	1,934	0.012	187.46	2.33	1.000	0.99995
6021	1	1.78	4	431	1,355	0.003	107.75	0.32	1.000	0.99999
6022	1	1.30	19	1,493	562	0.034	78.58	2.66	1.000	0.99994
6141	1	1.78	1	107	644	0.002	107.00	0.17	1.000	0.99999
6142	1	0.60	1	36	327	0.003	36.00	0.11	1.000	0.99999
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	248	521.25	30,002	2,839,367	172,439	0.174	94.64	16.47	1.532	0.99963

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
9/1/2021 to 9/30/2021
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	2.30	69	9,510	1,754	0.039	137.83	5.42	1.000	0.99987
1082	1	0.97	1	58	1,380	0.001	58.00	0.04	1.000	0.99999
1091	1	0.10	1	6	705	0.001	6.00	0.01	1.000	0.99999
1092	1	0.78	4	188	942	0.004	47.00	0.20	1.000	0.99999
1093	1	0.30	1	18	231	0.004	18.00	0.08	1.000	0.99999
1094	1	6.75	4	1,623	1,238	0.003	405.75	1.31	1.000	0.99997
1101	1	1.15	35	2,424	165	0.212	69.26	14.69	1.000	0.99965
1102	2	1.65	16	757	1,067	0.015	47.31	0.71	1.000	0.99998
1103	1	1.90	86	9,809	1,006	0.085	114.06	9.75	1.000	0.99977
1142	5	7.49	38	3,213	218	0.174	84.55	14.74	1.056	0.99965
1211	3	2.30	104	5,867	1,501	0.069	56.41	3.91	1.529	0.99991
1213	1	1.03	1	62	569	0.002	62.00	0.11	1.000	0.99999
1230	1	1.18	1	71	1,229	0.001	71.00	0.06	1.000	0.99999
1232	5	3.55	1,202	32,100	1,203	0.999	26.71	26.68	1.003	0.99939
1233	2	6.92	52	1,531	647	0.080	29.38	2.36	1.000	0.99995
1241	1	6.23	10	3,741	881	0.011	374.10	4.25	1.000	0.99990
1243	3	4.37	1,237	97,748	1,235	1.002	79.02	79.15	1.002	0.99810

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1265	1	5.07	1	304	1,310	0.001	304.00	0.23	1.000	0.99999
1271	1	1.47	211	18,589	987	0.214	88.10	18.83	1.000	0.99955
1273	1	0.38	1	23	870	0.001	23.00	0.03	1.000	0.99999
1452	2	9.92	46	16,885	460	0.100	367.07	36.71	1.022	0.99912
1454	2	4.40	93	14,034	945	0.098	150.90	14.85	1.000	0.99964
1521	1	0.73	25	1,122	384	0.065	44.88	2.92	1.000	0.99993
1523	1	1.05	1	63	753	0.001	63.00	0.08	1.000	0.99999
1841	1	2.78	552	92,184	552	1.000	167.00	167.00	1.000	0.99619
1842	1	0.95	1	57	292	0.003	57.00	0.20	1.000	0.99999
2051	1	0.72	1	43	208	0.005	43.00	0.21	1.000	0.99999
2091	3	6.96	3	417	900	0.003	139.00	0.46	1.000	0.99999
2092	2	3.01	55	5,015	946	0.058	91.18	5.30	1.000	0.99987
2212	2	2.25	2	135	1,354	0.001	67.50	0.10	1.000	0.99999
2511	1	0.68	1	41	621	0.002	41.00	0.07	1.000	0.99999
2621	4	14.67	8	1,383	1,200	0.007	172.88	1.15	1.000	0.99997
2921	3	5.33	7	904	393	0.018	129.14	2.30	1.000	0.99994
2951	5	7.30	39	3,651	1,236	0.032	93.62	2.95	1.026	0.99993
2952	2	5.19	208	37,741	371	0.561	181.45	101.73	1.005	0.99756
2961	3	11.56	730	127,865	651	1.121	175.21	196.41	1.121	0.99552
3081	1	1.67	1	100	585	0.002	100.00	0.17	1.000	0.99999
3121	4	2.77	13	609	1,145	0.011	46.85	0.53	1.083	0.99999
3122	2	2.63	29	2,319	877	0.033	79.97	2.64	1.000	0.99994
3181	2	3.35	25	4,281	756	0.033	171.24	5.66	1.042	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
3221	6	9.06	16	1,856	1,276	0.013	116.00	1.45	1.143	0.99997
3231	1	1.77	211	22,366	211	1.000	106.00	106.00	1.000	0.99746
3232	1	1.40	1	84	444	0.002	84.00	0.19	1.000	0.99999
3301	1	1.52	3	273	768	0.004	91.00	0.36	1.000	0.99999
3302	1	5.55	1	333	648	0.002	333.00	0.51	1.000	0.99999
3303	2	1.80	42	2,354	1,790	0.023	56.05	1.32	1.024	0.99997
3304	5	10.60	1,195	129,662	1,115	1.072	108.50	116.29	1.072	0.99722
3314	2	1.67	8	520	226	0.035	65.00	2.30	1.000	0.99994
3315	2	1.95	19	1,037	1,599	0.012	54.58	0.65	1.056	0.99998
3422	1	2.73	1	164	993	0.001	164.00	0.17	1.000	0.99999
3423	1	2.57	18	2,780	399	0.045	154.44	6.97	1.000	0.99983
3471	2	10.43	7	2,169	490	0.014	309.86	4.43	1.000	0.99989
3472	2	9.55	115	38,867	1,308	0.088	337.97	29.71	1.000	0.99929
3551	2	3.12	40	3,750	1,042	0.038	93.75	3.60	1.053	0.99991
3552	1	1.48	21	1,889	582	0.036	89.95	3.25	1.000	0.99992
3553	1	0.98	1	59	870	0.001	59.00	0.07	1.000	0.99999
3592	3	2.06	213	8,089	1,747	0.122	37.98	4.63	1.614	0.99989
3594	1	6.72	25	10,082	787	0.032	403.28	12.81	1.000	0.99969
3621	6	10.49	54	5,870	1,588	0.034	108.70	3.70	1.038	0.99991
3662	1	1.33	1	80	875	0.001	80.00	0.09	1.000	0.99999
3664	2	1.76	7	373	577	0.012	53.29	0.65	1.167	0.99998
3671	2	2.57	40	3,145	655	0.061	78.63	4.80	1.000	0.99989

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3675	1	0.58	421	14,693	421	1.000	34.90	34.90	1.000	0.99916
3694	3	6.65	516	32,319	524	0.985	62.63	61.68	1.365	0.99852
3701	2	2.23	2	134	529	0.004	67.00	0.25	1.000	0.99999
3702	1	2.12	1	127	669	0.001	127.00	0.19	1.000	0.99999
3751	3	1.18	3	71	915	0.003	23.67	0.08	1.000	0.99999
3871	2	6.03	2	362	1,086	0.002	181.00	0.33	2.000	0.99999
3878	2	3.95	2	237	833	0.002	118.50	0.28	1.000	0.99999
3893	3	5.20	79	15,456	1,164	0.068	195.65	13.28	1.026	0.99968
3901	1	0.45	1	27	887	0.001	27.00	0.03	1.000	0.99999
3902	1	1.62	13	1,262	95	0.137	97.08	13.28	1.000	0.99968
3903	1	0.95	1	57	305	0.003	57.00	0.19	1.000	0.99999
3951	3	6.98	3	419	945	0.003	139.67	0.44	1.000	0.99999
3952	2	1.46	72	3,809	1,354	0.053	52.90	2.81	1.014	0.99993
3981	4	5.19	1,649	192,039	1,548	1.065	116.46	124.06	1.065	0.99703
3982	8	39.24	1,885	219,384	1,819	1.036	116.38	120.61	1.036	0.99711
4091	1	0.62	14	522	1,197	0.012	37.29	0.44	1.000	0.99999
4101	3	3.87	18	1,655	975	0.018	91.94	1.70	1.059	0.99996
4131	1	1.57	1	94	205	0.005	94.00	0.46	1.000	0.99999
4137	3	4.25	28	3,394	808	0.035	121.21	4.20	1.000	0.99990
4138	1	0.57	14	489	756	0.019	34.93	0.65	1.000	0.99998
4151	1	1.12	13	871	172	0.076	67.00	5.06	1.000	0.99988
4152	2	2.22	24	1,628	1,288	0.019	67.83	1.26	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
4153	1	3.87	41	9,358	1,093	0.038	228.24	8.56	1.000	0.99979
4171	1	2.78	6	1,006	1,182	0.005	167.67	0.85	1.000	0.99998
4172	1	0.63	61	2,330	1,819	0.034	38.20	1.28	1.000	0.99997
4173	1	0.62	1	37	688	0.001	37.00	0.05	1.000	0.99999
4181	1	2.10	19	2,397	777	0.024	126.16	3.08	1.000	0.99993
4222	2	2.14	1,086	28,739	1,070	1.015	26.46	26.86	1.015	0.99936
4223	1	0.68	94	3,921	1,112	0.085	41.71	3.53	1.000	0.99992
4302	2	9.20	8	1,233	662	0.012	154.13	1.86	1.000	0.99996
4303	3	10.12	23	5,187	1,281	0.018	225.52	4.05	1.045	0.99990
4313	2	3.96	2	238	551	0.004	119.00	0.43	1.000	0.99999
4321	1	0.85	6	306	6	1.000	51.00	51.00	1.000	0.99884
4331	13	7.17	310	7,441	328	0.945	24.00	22.69	1.044	0.99946
4332	1	2.73	1	164	330	0.003	164.00	0.50	1.000	0.99999
434	1	0.47	1	28	18	0.056	28.00	1.56	1.000	0.99996
4343	1	1.05	1,674	105,908	1,674	1.000	63.27	63.27	1.000	0.99848
4361	3	3.06	18	842	1,638	0.011	46.78	0.51	1.059	0.99999
4362	2	1.95	46	3,161	837	0.055	68.72	3.78	1.022	0.99991
4363	4	4.20	1,400	82,873	697	2.009	59.20	118.90	2.009	0.99715
4364	3	3.90	8	901	846	0.009	112.63	1.07	1.143	0.99997
4371	1	1.37	1	82	1,550	0.001	82.00	0.05	1.000	0.99999
4372	2	3.56	4	334	419	0.010	83.50	0.80	1.000	0.99998
4373	1	1.17	5	350	760	0.007	70.00	0.46	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
4385	2	5.91	125	18,534	1,152	0.109	148.27	16.09	1.000	0.99961
4386	1	1.08	1	65	1,668	0.001	65.00	0.04	1.000	0.99999
4431	3	8.52	25	7,907	1,412	0.018	316.28	5.60	1.000	0.99987
4432	1	3.15	26	4,920	476	0.055	189.23	10.34	1.000	0.99975
4512	1	0.98	1	59	1,147	0.001	59.00	0.05	1.000	0.99999
4601	1	1.57	4	377	401	0.010	94.25	0.94	1.000	0.99998
4602	3	5.54	10	965	966	0.010	96.50	1.00	1.000	0.99998
4692	1	0.58	1	35	487	0.002	35.00	0.07	1.000	0.99999
4783	1	0.60	1	36	240	0.004	36.00	0.15	1.000	0.99999
4791	2	3.36	23	1,890	625	0.037	82.17	3.02	1.045	0.99993
4794	2	2.50	77	5,318	396	0.194	69.06	13.43	1.013	0.99968
5601	1	1.78	1	107	1,426	0.001	107.00	0.08	1.000	0.99999
5602	3	31.73	3	1,904	711	0.004	634.67	2.68	1.000	0.99994
5603	4	5.74	4	344	1,305	0.003	86.00	0.26	1.000	0.99999
5641	1	1.52	1	91	341	0.003	91.00	0.27	1.000	0.99999
5904	1	0.27	1	16	1,280	0.001	16.00	0.01	1.000	0.99999
5905	2	2.40	62	4,356	1,934	0.032	70.26	2.25	1.000	0.99995
6021	4	4.08	46	2,811	1,355	0.034	61.11	2.07	1.045	0.99995
6022	1	1.62	21	2,048	562	0.037	97.52	3.64	1.000	0.99991
6024	1	3.10	1	186	396	0.003	186.00	0.47	1.000	0.99999
6143	1	1.18	1	71	375	0.003	71.00	0.19	1.000	0.99999
6144	1	0.72	1	43	327	0.003	43.00	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
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	259	480.68	17,015	1,532,395	172,439	0.099	90.06	8.89	1.086	0.99979

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
10/1/2021 to 10/31/2021
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	2.28	2	137	1,754	0.001	68.50	0.08	1.000	0.99999
1052	1	1.42	77	6,547	1,175	0.066	85.03	5.57	1.000	0.99988
1082	8	14.86	1,419	143,598	1,380	1.028	101.20	104.06	1.028	0.99767
1091	3	6.25	1413	207,879	705	2.004	147.14	294.86	2.004	0.99327
1092	3	4.64	944	124,944	942	1.002	132.36	132.64	1.016	0.99703
1093	1	2.18	231	30,484	231	1.000	131.97	131.97	1.000	0.99704
1094	2	9.97	1,233	164,505	1,238	0.996	133.42	132.88	1.001	0.99702
1101	1	1.25	1	75	165	0.006	75.00	0.45	1.000	0.99999
1102	1	1.42	30	2,573	1,067	0.028	85.77	2.41	1.000	0.99995
1103	1	2.63	1	158	1,006	0.001	158.00	0.16	1.000	0.99999
1141	1	1.45	1	87	912	0.001	87.00	0.10	1.000	0.99999
1211	4	4.80	19	1,474	1,501	0.013	77.58	0.98	1.000	0.99998
1212	2	1.67	2	100	341	0.006	50.00	0.29	1.000	0.99999
1213	1	1.30	1	78	569	0.002	78.00	0.14	1.000	0.99999
1230	1	0.57	1	34	1,229	0.001	34.00	0.03	1.000	0.99999
1232	2	1.85	2	111	1,203	0.002	55.50	0.09	1.000	0.99999
1243	4	7.49	62	7,034	1,235	0.050	113.45	5.70	1.016	0.99987

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
1261	1	0.93	1	56	403	0.002	56.00	0.14	1.000	0.99999
1262	1	0.98	1	59	167	0.006	59.00	0.35	1.000	0.99999
1263	2	2.55	14	1,078	1,217	0.012	77.00	0.89	1.000	0.99998
1265	1	0.43	2	53	1,310	0.002	26.50	0.04	1.000	0.99999
1273	2	7.20	11	3,456	870	0.013	314.18	3.97	1.000	0.99991
1282	1	4.67	1	280	697	0.001	280.00	0.40	1.000	0.99999
1311	1	0.98	281	16,817	281	1.000	59.85	59.85	1.000	0.99866
1312	3	2.92	967	56,891	965	1.002	58.83	58.95	1.002	0.99868
1451	5	11.60	7	1,086	551	0.013	155.14	1.97	1.167	0.99996
1452	2	6.05	2	363	460	0.004	181.50	0.79	1.000	0.99998
1453	2	1.63	2	98	1,816	0.001	49.00	0.05	1.000	0.99999
1455	1	1.28	1	77	414	0.002	77.00	0.19	1.000	0.99999
1523	4	5.86	26	2,303	753	0.035	88.58	3.06	1.040	0.99993
1842	2	7.42	293	126,448	292	1.001	432.61	433.04	1.001	0.99011
1843	1	7.22	464	200,912	464	1.000	433.00	433.00	1.000	0.99011
2051	2	2.17	209	21,445	208	1.005	102.61	103.10	1.005	0.99769
2091	1	1.82	19	2,080	900	0.021	109.47	2.31	1.000	0.99995
2172	1	1.80	243	26,414	243	1.000	108.70	108.70	1.000	0.99756
2211	1	0.47	20	567	740	0.027	28.35	0.77	1.000	0.99998
2212	5	4.20	132	6,984	1,354	0.097	52.91	5.16	1.015	0.99988
2511	5	8.28	35	3,355	621	0.056	95.86	5.40	1.029	0.99988
2621	1	1.48	1	89	1,200	0.001	89.00	0.07	1.000	0.99999
2622	1	1.10	1	66	114	0.009	66.00	0.58	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
2921	2	5.20	2	312	393	0.005	156.00	0.79	1.000	0.99998
2951	7	10.91	77	8,701	1,236	0.062	113.00	7.04	1.711	0.99984
2961	3	6.56	8	1,454	651	0.012	181.75	2.23	1.000	0.99995
2962	2	6.25	524	98,415	262	2.000	187.81	375.63	2.000	0.99159
3081	1	2.40	1	144	585	0.002	144.00	0.25	1.000	0.99999
3122	2	5.32	13	1,211	877	0.015	93.15	1.38	1.000	0.99997
3123	1	1.23	1	74	1,111	0.001	74.00	0.07	1.000	0.99999
3221	3	10.19	655	260,966	1,276	0.513	398.42	204.52	1.023	0.99542
3232	1	2.53	12	1,830	444	0.027	152.50	4.12	1.000	0.99991
3301	2	4.27	37	4,477	768	0.048	121.00	5.83	1.000	0.99987
3303	3	3.40	46	4,450	1,790	0.026	96.74	2.49	1.022	0.99994
3304	4	4.72	26	2,004	1,115	0.023	77.08	1.80	1.083	0.99996
3311	1	2.07	43	5,355	540	0.080	124.53	9.92	1.000	0.99978
3314	2	7.80	9	3,185	226	0.040	353.89	14.09	1.000	0.99968
3315	1	0.77	31	1,447	1,599	0.019	46.68	0.90	1.000	0.99998
3422	2	4.34	2	260	993	0.002	130.00	0.26	1.000	0.99999
3423	3	7.86	3	471	399	0.008	157.00	1.18	1.000	0.99997
3472	2	1.15	10	377	1,308	0.008	37.70	0.29	1.111	0.99999
3551	1	0.83	20	1,019	1,042	0.019	50.95	0.98	1.000	0.99998
3553	3	5.55	225	15,984	870	0.259	71.04	18.37	1.009	0.99959
3591	2	1.78	2	107	1,524	0.001	53.50	0.07	1.000	0.99999
3592	5	15.06	21	4,583	1,747	0.012	218.24	2.62	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
3621	7	16.33	39	3,591	1,588	0.025	92.08	2.26	1.026	0.99995
3662	2	2.61	30	2,208	875	0.034	73.60	2.52	1.000	0.99994
3663	1	1.00	1	60	309	0.003	60.00	0.19	1.000	0.99999
3664	4	3.38	135	5,650	577	0.234	41.85	9.79	1.098	0.99978
3671	1	1.48	26	2,325	655	0.040	89.42	3.55	1.000	0.99992
3675	1	2.20	2	264	421	0.005	132.00	0.63	1.000	0.99999
3693	1	1.12	9	603	181	0.050	67.00	3.33	1.000	0.99993
3694	1	0.70	1	42	524	0.002	42.00	0.08	1.000	0.99999
3701	2	1.73	530	45,635	529	1.002	86.10	86.27	1.002	0.99807
3751	2	2.33	9	732	915	0.010	81.33	0.80	1.000	0.99998
3871	3	1.38	85	3,135	1,086	0.078	36.88	2.89	1.012	0.99994
3872	1	0.73	1	44	1,143	0.001	44.00	0.04	1.000	0.99999
3874	1	0.58	1	35	203	0.005	35.00	0.17	1.000	0.99999
3891	1	2.80	16	2,698	447	0.036	168.63	6.04	1.000	0.99986
3893	6	14.81	10	1,634	1,164	0.009	163.40	1.40	1.000	0.99997
3901	3	3.47	127	7,767	887	0.143	61.16	8.76	1.008	0.99980
3914	1	0.98	1	59	394	0.003	59.00	0.15	1.000	0.99999
3951	4	5.52	969	27,687	945	1.025	28.57	29.30	1.025	0.99934
3952	22	28.94	434	40,660	1,354	0.321	93.69	30.03	1.082	0.99933
3953	1	0.38	3	69	537	0.006	23.00	0.13	1.000	0.99999
3971	2	16.35	2	981	691	0.003	490.50	1.42	1.000	0.99997
3981	3	5.23	3	314	1,548	0.002	104.67	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
3991	1	1.23	1	74	756	0.001	74.00	0.10	1.000	0.99999
4031	2	6.53	2	392	710	0.003	196.00	0.55	1.000	0.99999
4101	3	5.77	993	184,496	975	1.018	185.80	189.23	1.018	0.99576
4102	3	9.45	19	3,635	538	0.035	191.32	6.76	1.000	0.99985
4134	2	2.52	1,266	116,418	1,265	1.001	91.96	92.03	1.001	0.99794
4137	1	1.08	1	65	808	0.001	65.00	0.08	1.000	0.99999
4138	1	0.78	14	663	756	0.019	47.36	0.88	1.000	0.99998
4142	1	1.92	1	115	612	0.002	115.00	0.19	1.000	0.99999
4152	3	5.35	65	7,133	1,288	0.050	109.74	5.54	1.000	0.99988
4153	4	7.50	1,096	102,024	1,093	1.003	93.09	93.34	1.003	0.99791
4171	2	3.79	3	264	1,182	0.003	88.00	0.22	1.000	0.99999
4172	1	0.78	8	382	1,819	0.004	47.75	0.21	1.000	0.99999
4173	1	0.73	1	44	688	0.001	44.00	0.06	1.000	0.99999
4181	3	3.60	31	2,409	777	0.040	77.71	3.10	1.000	0.99993
4182	4	4.24	64	3,293	773	0.083	51.45	4.26	1.032	0.99990
4211	1	2.03	1	122	707	0.001	122.00	0.17	1.000	0.99999
4222	2	1.12	8	271	1,070	0.007	33.88	0.25	1.143	0.99999
4303	3	3.59	171	9,459	1,281	0.133	55.32	7.38	1.024	0.99983
4321	1	1.92	1	115	6	0.167	115.00	19.17	1.000	0.99957
4341	10	10.96	1,905	56,849	1,815	1.050	29.84	31.32	1.050	0.99930
4342	1	1.33	18	1,452	836	0.022	80.67	1.74	1.000	0.99996
4343	1	1.55	10	934	1,674	0.006	93.40	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
4361	3	2.29	46	1,762	1,638	0.028	38.30	1.08	1.022	0.99998
4362	2	2.67	37	1,125	837	0.044	30.41	1.34	1.000	0.99997
4363	1	6.57	2	789	697	0.003	394.50	1.13	1.000	0.99997
4364	3	3.93	28	3,002	846	0.033	107.21	3.55	1.000	0.99992
4371	4	10.05	4	603	1,550	0.003	150.75	0.39	1.000	0.99999
4372	2	4.28	2	257	419	0.005	128.50	0.61	1.000	0.99999
4373	3	6.59	535	116,997	760	0.704	218.69	153.94	1.015	0.99655
4431	9	15.26	118	9,475	1,412	0.084	80.30	6.71	1.000	0.99985
4432	1	1.88	62	7,025	476	0.130	113.31	14.76	1.000	0.99967
4511	4	14.89	47	15,439	1,129	0.042	328.49	13.67	1.000	0.99969
4513	1	1.17	701	49,362	701	1.000	70.42	70.42	1.000	0.99842
4601	2	2.68	7	371	401	0.017	53.00	0.93	1.000	0.99998
4602	3	9.88	12	3,650	966	0.012	304.17	3.78	1.000	0.99992
4692	2	7.07	24	6,000	487	0.049	250.00	12.32	1.000	0.99972
4712	1	2.70	129	20,898	129	1.000	162.00	162.00	1.000	0.99630
4714	1	2.20	96	12,707	347	0.277	132.36	36.62	1.000	0.99918
5601	10	19.39	159	18,669	1,426	0.112	117.42	13.09	1.000	0.99971
5602	5	10.57	764	154,566	711	1.075	202.31	217.39	1.075	0.99513
5603	2	1.81	25	1,075	1,305	0.019	43.00	0.82	1.000	0.99998
5641	1	1.43	1	86	341	0.003	86.00	0.25	1.000	0.99999
5902	1	1.97	1	118	962	0.001	118.00	0.12	1.000	0.99999
5905	2	5.42	32	7,023	1,934	0.017	219.47	3.63	1.032	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
6141	1	1.12	91	6,153	644	0.141	67.62	9.55	1.000	0.99979
6142	1	0.92	7	388	327	0.021	55.43	1.19	1.000	0.99997
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	323	577.90	20,983	2,653,255	172,439	0.122	126.45	15.39	1.031	0.99966

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

11/1/2021 to 11/30/2021

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	1.00	12	722	1,758	0.007	60.17	0.41	1.000	0.99999
1051	1	1.02	41	2,508	781	0.052	61.17	3.21	1.000	0.99993
1052	2	23.78	66	68,642	1,185	0.056	1040.03	57.93	1.015	0.99866
1082	1	1.18	1	71	1,387	0.001	71.00	0.05	1.000	0.99999
1091	1	1.52	713	65,003	713	1.000	91.17	91.17	1.000	0.99792
1093	1	1.52	232	21,181	232	1.000	91.30	91.30	1.000	0.99789
1094	3	3.20	1,259	116,351	1,246	1.010	92.60	93.52	1.010	0.99786
1101	4	2.48	262	10,761	506	0.518	41.07	21.27	1.012	0.99951
1102	4	2.61	1,114	50,055	1,076	1.035	44.93	46.52	1.044	0.99892
1103	1	0.70	39	1,639	1,007	0.039	42.03	1.63	1.000	0.99996
1142	1	1.75	1	105	188	0.005	105.00	0.56	1.000	0.99999
1211	3	3.82	44	3,347	1,504	0.029	76.07	2.23	1.023	0.99995
1232	4	6.05	77	4,200	1,206	0.064	54.55	3.48	1.000	0.99992
1242	1	0.43	1	26	858	0.001	26.00	0.03	1.000	0.99999
1243	3	4.28	1,310	109,352	1,241	1.056	83.47	88.12	1.061	0.99796
1261	2	1.26	2	76	404	0.005	38.00	0.19	1.000	0.99999
1265	2	1.16	2	70	1,308	0.002	35.00	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
1271	4	5.71	17	962	988	0.017	56.59	0.97	1.063	0.99998
1273	5	6.19	53	4,537	870	0.061	85.60	5.21	1.082	0.99988
1282	1	1.10	19	1,255	700	0.027	66.05	1.79	1.000	0.99996
1284	1	0.18	1	11	954	0.001	11.00	0.01	1.000	0.99999
1312	1	0.87	10	527	971	0.010	52.70	0.54	1.000	0.99999
1451	1	0.63	4	154	554	0.007	38.50	0.28	1.000	0.99999
1452	2	3.49	2	209	461	0.004	104.50	0.45	1.000	0.99999
1453	2	15.00	50	4,802	1,821	0.027	96.04	2.64	1.000	0.99994
1521	1	1.30	1	78	386	0.003	78.00	0.20	1.000	0.99999
1523	2	2.34	24	1,887	758	0.032	78.63	2.49	1.043	0.99994
1842	1	1.93	1	116	295	0.003	116.00	0.39	1.000	0.99999
2091	1	2.73	1	164	912	0.001	164.00	0.18	1.000	0.99999
2092	1	1.48	1	89	950	0.001	89.00	0.09	1.000	0.99999
2211	2	0.74	22	664	741	0.030	30.18	0.90	1.048	0.99998
2212	2	2.07	75	4,651	1,369	0.055	62.01	3.40	1.000	0.99992
2492	1	2.53	1	152	29	0.034	152.00	5.24	1.000	0.99988
2511	2	2.20	8	558	624	0.013	69.75	0.89	1.000	0.99998
2621	1	0.88	1	53	1,206	0.001	53.00	0.04	1.000	0.99999
2921	1	0.92	1	55	394	0.003	55.00	0.14	1.000	0.99999
2951	3	5.00	123	12,449	1,246	0.099	101.21	9.99	1.000	0.99977
3121	1	1.35	14	1,135	1,150	0.012	81.07	0.99	1.000	0.99998
3122	1	2.10	1	126	884	0.001	126.00	0.14	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
3221	3	1.97	3	118	1,282	0.002	39.33	0.09	1.000	0.99999
3222	4	9.48	814	53,003	796	1.022	65.15	66.59	1.022	0.99848
3231	1	3.58	1	215	214	0.005	215.00	1.00	1.000	0.99998
3301	1	0.92	1	55	770	0.001	55.00	0.07	1.000	0.99999
3302	3	2.38	97	5,881	650	0.149	60.63	9.05	1.043	0.99979
3303	8	9.45	131	9,033	1,791	0.073	68.95	5.04	1.016	0.99988
3304	2	2.85	17	1,706	1,146	0.015	100.35	1.49	1.000	0.99997
3313	9	16.41	1,480	200,814	1,472	1.005	135.74	136.42	1.005	0.99689
3315	2	2.12	15	1,027	1,610	0.009	68.47	0.64	1.071	0.99999
3423	1	1.47	21	1,860	402	0.052	88.57	4.63	1.000	0.99989
3471	1	0.82	1	49	493	0.002	49.00	0.10	1.000	0.99999
3472	2	1.30	8	342	1,318	0.006	42.75	0.26	1.000	0.99999
3552	1	1.12	3	203	584	0.005	67.67	0.35	1.000	0.99999
3553	1	2.08	1	125	874	0.001	125.00	0.14	1.000	0.99999
3591	3	2.85	26	1,185	1,542	0.017	45.58	0.77	1.000	0.99998
3592	2	2.14	1,787	99,740	1,778	1.017	55.82	56.10	1.005	0.99872
3593	1	0.83	69	3,487	950	0.073	50.54	3.67	1.000	0.99992
3594	1	1.20	1	72	788	0.001	72.00	0.09	1.000	0.99999
3621	3	3.45	3	207	1,598	0.002	69.00	0.13	1.500	0.99999
3661	5	3.94	78	3,502	1,080	0.072	44.90	3.24	1.013	0.99992
3662	2	1.82	2	109	884	0.002	54.50	0.12	1.000	0.99999
3663	1	5.37	1	322	310	0.003	322.00	1.04	1.000	0.99998

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3664	2	2.55	20	2,163	580	0.034	108.15	3.73	1.053	0.99991
3671	1	3.03	1	182	658	0.002	182.00	0.28	1.000	0.99999
3691	1	0.60	47	1,715	376	0.125	36.49	4.56	1.000	0.99989
3701	1	1.17	1	70	532	0.002	70.00	0.13	1.000	0.99999
3871	1	0.38	68	1,590	1,089	0.062	23.38	1.46	1.000	0.99997
3872	6	4.35	62	3,211	1,162	0.053	51.79	2.76	1.016	0.99994
3873	2	3.88	6	873	814	0.007	145.50	1.07	1.000	0.99998
3878	4	4.17	27	2,080	840	0.032	77.04	2.48	1.038	0.99994
3891	3	3.09	27	1,804	449	0.060	66.81	4.02	1.800	0.99991
3893	5	6.86	6	471	1,168	0.005	78.50	0.40	1.000	0.99999
3901	1	1.38	95	7,921	886	0.107	83.38	8.94	1.000	0.99979
3903	1	1.43	26	2,252	310	0.084	86.62	7.26	1.000	0.99983
3912	1	1.70	1	102	1,358	0.001	102.00	0.08	1.000	0.99999
3913	3	3.94	45	4,475	826	0.054	99.44	5.42	1.023	0.99987
3951	5	10.28	25	1,663	953	0.026	66.52	1.75	1.042	0.99996
3952	4	4.48	36	1,915	1,332	0.027	53.19	1.44	1.029	0.99997
3953	3	5.90	23	3,968	540	0.043	172.52	7.35	1.000	0.99983
3971	2	1.59	34	1,640	692	0.049	48.24	2.37	1.063	0.99995
3981	1	1.95	8	937	1,558	0.005	117.13	0.60	1.000	0.99999
3982	1	1.73	18	1,880	1,823	0.010	104.44	1.03	1.000	0.99998
3991	1	0.75	1	45	758	0.001	45.00	0.06	1.000	0.99999
4031	4	5.21	31	2,644	712	0.044	85.29	3.71	1.033	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
4091	1	1.48	1	89	1,202	0.001	89.00	0.07	1.000	0.99999
4102	1	0.85	1	51	538	0.002	51.00	0.09	1.000	0.99999
4132	1	2.00	1	120	568	0.002	120.00	0.21	1.000	0.99999
4133	1	1.17	26	1,839	281	0.093	70.73	6.54	1.000	0.99985
4134	4	3.25	5	232	1,272	0.004	46.40	0.18	1.000	0.99999
4135	1	2.30	64	8,880	64	1.000	138.75	138.75	1.000	0.99683
4138	2	3.20	12	886	758	0.016	73.83	1.17	1.000	0.99997
4141	1	1.50	1	90	84	0.012	90.00	1.07	1.000	0.99998
4152	2	2.75	24	1,997	1,292	0.019	83.21	1.55	1.000	0.99996
4153	1	1.07	14	908	1,113	0.013	64.86	0.82	1.000	0.99998
4154	1	0.82	17	837	1,358	0.013	49.24	0.62	1.000	0.99999
4172	3	15.30	107	23,403	1,837	0.058	218.72	12.74	1.019	0.99971
4181	1	0.88	11	592	780	0.014	53.82	0.76	1.000	0.99998
4182	1	1.40	12	1,010	776	0.015	84.17	1.30	1.000	0.99997
4212	1	1.07	1	64	1,077	0.001	64.00	0.06	1.000	0.99999
4222	3	1.65	21	755	1,072	0.020	35.95	0.70	1.000	0.99998
4224	2	6.44	18	3,789	768	0.023	210.50	4.93	1.000	0.99989
4303	2	2.31	26	2,865	1,292	0.020	110.19	2.22	1.040	0.99995
4311	2	2.28	24	809	814	0.029	33.71	0.99	1.043	0.99998
4312	1	0.92	14	772	896	0.016	55.14	0.86	1.000	0.99998
4313	1	1.10	1	66	554	0.002	66.00	0.12	1.000	0.99999
4321	1	0.67	1	40	94	0.011	40.00	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
4331	8	3.54	397	38,556	330	1.202	97.20	116.84	1.202	0.99733
4343	1	2.62	17	2,682	1,677	0.010	157.76	1.60	1.000	0.99996
4361	2	1.55	16	875	1,649	0.010	54.69	0.53	1.067	0.99999
4364	1	1.30	4	312	852	0.005	78.00	0.37	1.000	0.99999
4371	3	2.49	47	2,498	1,553	0.030	53.15	1.61	1.000	0.99996
4372	2	3.30	420	70,813	425	0.988	168.60	166.62	1.002	0.99614
4373	2	5.19	760	128,640	764	0.995	169.26	168.38	1.001	0.99610
4386	4	10.10	217	59,962	1,662	0.131	276.32	36.08	1.014	0.99916
4431	4	6.96	1,423	88,610	1,420	1.002	62.28	62.40	1.002	0.99858
4511	1	1.20	81	5,844	1,138	0.071	72.15	5.14	1.000	0.99988
4512	1	3.65	1	219	1,149	0.001	219.00	0.19	1.000	0.99999
4601	1	1.50	24	2,174	404	0.059	90.58	5.38	1.000	0.99988
4602	2	1.65	7	398	972	0.007	56.86	0.41	1.000	0.99999
4692	1	0.73	1	44	488	0.002	44.00	0.09	1.000	0.99999
4714	1	0.87	10	526	348	0.029	52.60	1.51	1.000	0.99997
4791	1	1.30	1	78	626	0.002	78.00	0.12	1.000	0.99999
5601	4	6.55	39	8,817	1,362	0.029	226.08	6.47	1.000	0.99985
5602	3	1.70	32	466	713	0.045	14.56	0.65	1.000	0.99998
5603	1	0.82	17	844	1,394	0.012	49.65	0.61	1.000	0.99999
5902	2	1.55	157	7,994	964	0.163	50.92	8.29	1.006	0.99981
5904	1	0.50	51	1,533	1,284	0.040	30.06	1.19	1.000	0.99997
6141	1	0.68	1	41	648	0.002	41.00	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
	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUSTOMERS SERVED	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
Total:	263	380.63	15,006	1,398,465	172,061	0.087	93.19	8.13	1.020	0.99981

THE EMPIRE DISTRICT ELECTRIC COMPANY
CUSTOMER OUTAGE STATISTICS AND INDICES FOR MISSOURI
12/1/2021 to 12/31/2021
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	2.07	31	2,210	1,762	0.018	71.29	1.25	1.000	0.99997
1051	1	0.47	19	546	785	0.024	28.74	0.70	1.000	0.99998
1052	1	0.82	1	49	1,195	0.001	49.00	0.04	1.000	0.99999
1082	4	5.75	13	967	1,394	0.009	74.38	0.69	1.000	0.99998
1091	2	2.26	20	875	721	0.028	43.75	1.21	1.000	0.99997
1103	3	5.61	147	23,946	1,008	0.146	162.90	23.76	1.014	0.99947
1141	1	0.63	1	38	914	0.001	38.00	0.04	1.000	0.99999
1211	1	1.12	1	67	1,506	0.001	67.00	0.04	1.000	0.99999
1212	1	0.72	1	43	343	0.003	43.00	0.13	1.000	0.99999
1230	2	2.60	2	156	1,232	0.002	78.00	0.13	1.000	0.99999
1232	1	0.47	1	28	1,209	0.001	28.00	0.02	1.000	0.99999
1241	1	1.02	1	61	890	0.001	61.00	0.07	1.000	0.99999
1242	1	2.30	858	118,475	858	1.000	138.08	138.08	1.000	0.99698
1243	2	1.66	26	805	1,247	0.021	30.96	0.65	1.040	0.99999
1273	1	13.05	1	783	871	0.001	783.00	0.90	1.000	0.99998
1284	1	1.28	32	2,426	955	0.034	75.81	2.54	1.000	0.99994
1285	1	1.92	1	115	1,124	0.001	115.00	0.10	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
1311	1	1.83	1	110	284	0.004	110.00	0.39	1.000	0.99999
1312	3	4.97	979	206,299	977	1.002	210.72	211.16	1.002	0.99527
1451	1	2.62	287	45,145	556	0.516	157.30	81.20	1.000	0.99818
1452	1	1.32	1	79	462	0.002	79.00	0.17	1.000	0.99999
1455	1	0.13	1	8	416	0.002	8.00	0.02	1.000	0.99999
1521	1	1.00	4	240	388	0.010	60.00	0.62	1.000	0.99999
1523	1	1.20	14	1,008	763	0.018	72.00	1.32	1.000	0.99997
1842	1	0.92	1	55	298	0.003	55.00	0.18	1.000	0.99999
2091	2	7.78	924	287,855	923	1.001	311.53	311.87	1.001	0.99301
2211	4	4.00	22	1,001	742	0.030	45.50	1.35	1.158	0.99997
2212	5	6.62	74	6,843	1,384	0.053	92.47	4.94	1.042	0.99989
2621	5	5.92	31	2,741	1,212	0.026	88.42	2.26	1.000	0.99995
2622	1	3.75	1	225	116	0.009	225.00	1.94	1.000	0.99996
2921	1	0.65	19	741	396	0.048	39.00	1.87	1.000	0.99996
2951	2	16.85	15	2,452	1,256	0.012	163.47	1.95	1.071	0.99996
2952	6	23.64	436	191,126	379	1.150	438.36	504.29	1.150	0.98870
3121	2	2.79	9	511	1,156	0.008	56.78	0.44	1.125	0.99999
3122	1	0.70	6	252	891	0.007	42.00	0.28	1.000	0.99999
3123	1	1.23	1	74	1,132	0.001	74.00	0.07	1.000	0.99999
3221	3	2.25	60	1,537	1,289	0.047	25.62	1.19	1.034	0.99997
3222	2	1.45	26	1,686	801	0.032	64.85	2.10	1.040	0.99995
3231	1	1.25	1	75	216	0.005	75.00	0.35	1.000	0.99999

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3302	2	2.20	77	6,330	652	0.118	82.21	9.71	1.000	0.99978
3303	6	10.35	103	3,589	1,792	0.057	34.84	2.00	1.020	0.99996
3311	3	2.02	12	546	545	0.022	45.50	1.00	1.200	0.99998
3313	1	1.10	1	66	1,525	0.001	66.00	0.04	1.000	0.99999
3422	2	3.10	5	469	1,002	0.005	93.80	0.47	1.000	0.99999
3471	1	0.47	1	28	496	0.002	28.00	0.06	1.000	0.99999
3472	1	1.20	8	580	1,327	0.006	72.50	0.44	1.000	0.99999
3551	3	2.67	52	2,331	1,045	0.050	44.83	2.23	1.020	0.99995
3553	2	1.13	2	206	878	0.001	103.00	0.23	1.000	0.99999
3591	3	5.15	1,598	202,844	1,560	1.024	126.94	130.03	1.024	0.99709
3592	4	5.87	25	1,338	1,808	0.014	53.52	0.74	1.000	0.99998
3593	2	1.82	83	4,285	950	0.087	51.63	4.51	1.000	0.99990
3594	2	4.12	8	994	789	0.010	124.25	1.26	1.143	0.99997
3621	3	5.01	99	14,582	1,608	0.062	147.29	9.07	1.021	0.99980
3661	2	2.28	161	13,993	1,082	0.149	86.91	12.93	1.000	0.99971
3662	2	2.07	2	124	892	0.002	62.00	0.14	2.000	0.99999
3663	3	3.98	3	239	312	0.010	79.67	0.77	1.000	0.99998
3664	1	2.17	1	130	582	0.002	130.00	0.22	1.000	0.99999
3675	1	1.12	23	1,555	553	0.042	67.61	2.81	1.000	0.99994
3701	1	0.75	13	594	535	0.024	45.69	1.11	1.000	0.99998
3702	1	1.37	1	82	673	0.001	82.00	0.12	1.000	0.99999
3751	2	1.57	85	4,497	929	0.091	52.91	4.84	1.012	0.99989

CIRCUIT NUMBER	NUMBER OF OUTAGES	OUTAGE HOURS REPORTED	CUSTOMERS AFFECTED	CUSTOMER OUTAGE MINUTES	TOTAL CUST. ON AFFECTED CIRCUITS	SAIFI	CAIDI	SAIDI	CAIFI	ASAI
3872	3	5.70	3	342	1,180	0.003	114.00	0.29	1.000	0.99999
3891	2	2.06	76	5,834	451	0.169	76.76	12.94	1.013	0.99971
3893	6	9.60	32	3,321	1,171	0.027	103.78	2.84	1.185	0.99994
3901	2	2.24	51	3,598	884	0.058	70.55	4.07	1.000	0.99991
3913	3	6.18	37	7,066	825	0.045	190.97	8.56	1.000	0.99981
3951	2	1.50	8	288	961	0.008	36.00	0.30	1.000	0.99999
3952	3	3.05	9	585	1,309	0.007	65.00	0.45	1.000	0.99999
3981	2	5.67	5	1,026	1,568	0.003	205.20	0.65	1.000	0.99999
3982	5	18.91	155	8,210	1,827	0.085	52.97	4.49	1.000	0.99990
3991	3	4.78	18	1,632	761	0.024	90.67	2.14	1.125	0.99995
3992	1	0.97	1	58	173	0.006	58.00	0.34	1.000	0.99999
4091	1	1.80	1	108	1,206	0.001	108.00	0.09	1.000	0.99999
4101	1	2.37	333	47,585	981	0.339	142.90	48.51	1.000	0.99891
4102	2	3.62	9	754	539	0.017	83.78	1.40	1.125	0.99997
4131	1	0.97	8	468	205	0.039	58.50	2.28	1.000	0.99995
4132	2	1.27	569	9,564	568	1.002	16.81	16.84	1.002	0.99962
4133	1	1.13	26	1,781	284	0.092	68.50	6.27	1.000	0.99986
4137	1	2.60	7	1,094	817	0.009	156.29	1.34	1.000	0.99997
4138	1	1.07	11	711	760	0.014	64.64	0.94	1.000	0.99998
4142	1	2.18	14	1,840	621	0.023	131.43	2.96	1.000	0.99993
4152	1	1.47	1	88	1,297	0.001	88.00	0.07	1.000	0.99999
4154	2	1.16	18	590	1,366	0.013	32.78	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
4155	1	7.58	233	106,158	1,683	0.138	455.61	63.08	1.000	0.99859
4171	1	0.42	3	77	1,186	0.003	25.67	0.06	1.000	0.99999
4173	2	1.90	13	751	691	0.019	57.77	1.09	1.000	0.99998
4181	1	2.62	3	473	783	0.004	157.67	0.60	1.000	0.99999
4182	1	1.03	1	62	779	0.001	62.00	0.08	1.000	0.99999
4212	6	6.99	62	4,716	1,084	0.057	76.06	4.35	1.051	0.99990
4224	2	2.28	2	137	772	0.003	68.50	0.18	1.000	0.99999
4302	3	4.30	3	258	662	0.005	86.00	0.39	1.000	0.99999
4311	1	1.17	57	3,990	748	0.076	70.00	5.33	1.000	0.99988
4341	1	1.05	1,825	116,678	1,825	1.000	63.93	63.93	1.000	0.99857
4343	3	16.41	1,700	108,555	1,680	1.012	63.86	64.62	1.012	0.99855
4361	2	3.01	65	6,582	1,660	0.039	101.26	3.97	1.016	0.99991
4362	1	2.53	37	5,638	840	0.044	152.38	6.71	1.000	0.99985
4363	2	2.28	52	4,397	703	0.074	84.56	6.25	1.000	0.99986
4371	1	1.40	1	84	1,556	0.001	84.00	0.05	1.000	0.99999
4372	3	4.87	4	396	431	0.009	99.00	0.92	1.333	0.99998
4373	1	1.78	1	107	769	0.001	107.00	0.14	1.000	0.99999
4386	1	1.97	1	118	1,656	0.001	118.00	0.07	1.000	0.99999
4431	35	117.89	793	290,167	1,428	0.555	365.91	203.20	1.043	0.99545
4432	1	1.37	7	580	482	0.015	82.86	1.20	1.000	0.99997
4511	1	1.10	12	792	1,146	0.010	66.00	0.69	1.000	0.99998
4601	1	0.68	1	41	406	0.002	41.00	0.10	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
4602	1	1.03	57	3,560	978	0.058	62.46	3.64	1.000	0.99992
4692	3	6.72	101	30,904	488	0.207	305.98	63.33	1.020	0.99858
4714	1	0.47	10	284	349	0.029	28.40	0.81	1.000	0.99998
4782	2	1.57	2	94	99	0.020	47.00	0.95	1.000	0.99998
4793	2	3.73	2	224	777	0.003	112.00	0.29	1.000	0.99999
5601	8	11.24	507	45,831	1,297	0.391	90.40	35.34	1.045	0.99921
5602	1	0.63	1	38	715	0.001	38.00	0.05	1.000	0.99999
5603	6	3.53	1,517	125,374	1,484	1.022	82.65	84.48	1.030	0.99811
5901	1	4.03	6	1,455	827	0.007	242.50	1.76	1.000	0.99996
6021	2	2.57	35	2,529	1,364	0.026	72.26	1.85	1.061	0.99996
6022	3	1.34	6	230	568	0.011	38.33	0.40	1.000	0.99999
6024	1	0.07	1	4	398	0.003	4.00	0.01	1.000	0.99999
6141	1	0.48	1	29	651	0.002	29.00	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:	269	500.48	14,946	2,118,911	174,258	0.086	141.77	12.16	1.017	0.99973