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Electric Distribution Utility Annual Reliability Report For 2020

April 2021

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

UTILITY NAME	Blue Grass Energy
REPORT PREPARED BY	Kyle Lancaster
E-MAIL ADDRESS OF PREPARER	kylel@bgenergy.com
PHONE NUMBER OF PREPARER	(859) 885-2103

SECTION 2: REPORTING YEAR

CALENDAR YEAR OF REPORT	2020
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SECTION 3: MAJOR EVENT DAYS (MED)

T_{MED}	12.29
FIRST DATE USED TO DETERMINE T_{MED}	January 1 2015
LAST DATE USED TO DETERMINE T_{MED}	December 31 2019
NUMBER OF MED IN REPORT YEAR	4

NOTE: Per IEEE 1366 T_{MED} should be calculated using the daily SAIDI values for the five prior years. If five years of data are not available, then utilities should use what is available until five years are accumulated.

SECTION 4: SYSTEM RELIABILITY INFORMATION AND RESULTS

System-wide Information

TOTAL CUSTOMERS	58829	TOTAL CIRCUITS	138
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Excluding MED

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	116.56	SAIDI	95.63
SAIFI	1.0235	SAIFI	0.9605

Including MED

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	215.24	SAIDI	194.67
SAIFI	1.2802	SAIFI	1.2606

Notes:

- 1) All duration indices (SAIDI) are to be reported in units of minutes.
- 2) Reports are due on the first business day of May of each year
- 3) Reports cover the calendar year ending in the December before the reports are due.
- 4) IEEE 1366 (latest version) is used to define SAIDI, SAIFI, and T_{MED}

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SECTION 5: CIRCUIT REPORTING

(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1:

1. SUBSTATION NAME AND NUMBER
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
3. CIRCUIT NAME AND NUMBER
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
5. TOTAL CIRCUIT LENGTH (MILES)
6. CUSTOMER COUNT FOR THIS CIRCUIT
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
10. REPORTING YEAR (SAIDI)
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
12. REPORTING YEAR (SAIFI)
13. CORRECTIVE ACTION PLAN

REPEAT INFORMATION FOR EACH CIRCUIT EXCEEDING ITS 5 YEAR AVERAGE
FOR SAIDI AND/OR SAIFI

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SECTION 6: VEGETATION MANAGEMENT PLAN REVIEW

INCLUDE CURRENT VEGETATION MANAGEMENT PLAN

Additional page may be attached as needed.

Vegetation Management Plan Attached in Word Document.

SECTION 7: UTILITY COMMENTS

Substation Name and Number 3M #2 41
 Substation Location Hwy 982, Cynthiana, KY 41031
 Circuit Name and Number 3M #2 134
 Circuit Location Oddville
 Total Circuit Length (Miles) 136.8
 2020 Member Count 1295
 5 Year Average Member Count 1256
 Date of Last Trim 2016
 Date of Next Trim 2022

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
218.0262244	2.177560394	447.3667954	3.917374517

Total Minutes/Frequency	1369397.00	13677.0000	579340.00	5073.0000
Equipment Fault	13.08%	10.08%	28.78%	37.24%
Wind	3.88%	3.58%	47.04%	28.70%
Small Animal	5.63%	13.12%	1.90%	3.67%
Squirrel	0.03%	0.07%	0.00%	0.02%
Unknown Cause	1.43%	1.22%	0.40%	0.24%
Deterioration	2.07%	1.53%	0.05%	0.10%
Scheduled	0.79%	1.16%	0.31%	0.37%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	20.56%	21.81%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	19.88%	25.76%
Tree - ROW	0.70%	1.23%	0.66%	1.79%
Lightning	0.61%	0.79%	0.42%	0.51%
Tree - Non ROW	7.74%	6.68%	0.56%	1.60%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	1.17%	1.65%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	58%	63%	100%	100%

Corrections to be made:

Equipment repaired at time of outage. Storm related outages. No corrections necessary at this time.

Substation Name and Number 3M #2 41
 Substation Location Hwy 982, Cynthiana, KY 41032
 Circuit Name and Number 3M #2 154
 Circuit Location Paris
 Total Circuit Length (Miles) 53.8
 2020 Member Count 531
 5 Year Average Member Count 515
 Date of Last Trim 2016
 Date of Next Trim 2022

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
62.77073064	0.782789762	95.52919021	1.585687382

Total Minutes/Frequency	161660.00	2016.0000	50726.00	842.0000
Equipment Fault	10.14%	8.43%	0.00%	0.00%
Wind	0.26%	0.25%	0.00%	0.00%
Small Animal	2.71%	3.03%	1.57%	1.19%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.53%	0.40%	1.09%	0.48%
Deterioration	2.64%	1.39%	0.15%	0.12%
Scheduled	7.90%	30.90%	7.83%	37.89%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.14%	0.10%	0.00%	0.00%
Public Accident	2.57%	2.38%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	5.94%	2.58%	0.18%	0.12%
Lightning	13.99%	12.15%	35.08%	23.52%
Tree - Non ROW	53.19%	38.39%	54.10%	36.70%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Storm related outages. No corrections necessary at this time.

Substation Name and Number BRACKEN COUNTY 31
 Substation Location 61 New Zion Rd, Foster, KY 41043
 Circuit Name and Number BRACKEN COUNTY 104
 Circuit Location Lenoxburg
 Total Circuit Length (Miles) 86.2
 2020 Member Count 664
 5 Year Average Member Count 659
 Date of Last Trim 2020
 Date of Next Trim 2026

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
125.4630506	0.869524846	181.2906627	1.385542169

Total Minutes/Frequency	413100.00	2863.0000	120377.00	920.0000
Equipment Fault	10.58%	8.14%	10.41%	7.39%
Wind	6.81%	3.60%	0.08%	0.11%
Small Animal	23.43%	27.24%	72.99%	74.46%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	2.90%	5.03%	0.00%	0.00%
Deterioration	5.55%	5.55%	6.86%	5.43%
Scheduled	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	2.38%	4.61%	0.00%	0.00%
Ice/Snow	0.05%	0.03%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	2.96%	6.99%	0.00%	0.00%
Tree - ROW	4.15%	5.06%	5.61%	8.70%
Lightning	5.52%	4.82%	4.01%	3.80%
Tree - Non ROW	34.82%	27.63%	0.04%	0.11%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.84%	1.29%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Animal guards to be placed strategically.

21-214

Substation Name and Number BRIDGEPORT 21
 Substation Location 218 Taylor Branch Rd., Frankfort, KY 40601
 Circuit Name and Number BRIDGEPORT 214
 Circuit Location Huntington Woods/Taylor Branch
 Total Circuit Length (Miles) 92.2
 2020 Member Count 1325
 5 Year Average Member Count 1304
 Date of Last Trim 2016
 Date of Next Trim 2023

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
141.2820001	1.295465772	124.0249057	1.547924528

Total Minutes/Frequency	921111.00	8446.0000	164333.00	2051.0000
Equipment Fault	8.59%	11.93%	4.58%	3.95%
Wind	7.96%	6.64%	0.59%	0.39%
Small Animal	3.16%	6.31%	3.95%	6.68%
Squirrel	0.12%	0.27%	0.00%	0.00%
Unknown Cause	0.50%	1.75%	0.00%	0.00%
Deterioration	1.96%	2.14%	0.75%	0.59%
Scheduled	0.24%	0.18%	0.45%	0.29%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.03%	0.05%	0.00%	0.00%
Overload	0.03%	0.05%	0.00%	0.00%
Public Accident	0.38%	0.86%	2.03%	3.51%
Ice/Snow	3.13%	1.60%	0.00%	0.00%
Fire	1.93%	1.05%	0.11%	0.10%
Sag/Clearance	0.32%	0.72%	0.00%	0.00%
Tree - ROW	17.61%	20.79%	77.02%	67.09%
Lightning	29.17%	20.16%	0.01%	0.05%
Tree - Non ROW	16.87%	18.88%	10.49%	17.31%
Large Animal	8.01%	6.59%	0.02%	0.05%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Storm related outages. No corrections necessary at this time.

Substation Name and Number BRIDGEPORT #2 42
 Substation Location 218 Taylor Branch Rd., Frankfort, KY 40601
 Circuit Name and Number BRIDGEPORT #2 234
 Circuit Location Harvieland/Flatcreek
 Total Circuit Length (Miles) 73.3
 2020 Member Count 441
 5 Year Average Member Count 437
 Date of Last Trim 2020
 Date of Next Trim 2026

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
623.6468426	3.790476443	747.1088435	4.916099773

Total Minutes/Frequency	1361804.40	8276.9400	329475.00	2168.0000
Equipment Fault	18.23%	13.54%	61.88%	40.18%
Wind	8.48%	4.83%	8.37%	8.39%
Small Animal	1.31%	3.38%	3.27%	5.72%
Squirrel	0.03%	0.06%	0.00%	0.00%
Unknown Cause	1.80%	2.50%	2.57%	3.00%
Deterioration	0.33%	0.68%	0.41%	1.25%
Scheduled	0.07%	0.18%	0.28%	0.65%
Power Supplier	1.91%	5.23%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.49%	1.21%	0.00%	0.05%
Ice/Snow	0.94%	0.81%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.06%	0.14%	0.00%	0.00%
Tree - ROW	2.82%	3.50%	1.73%	2.95%
Lightning	19.36%	20.14%	6.90%	10.93%
Tree - Non ROW	43.97%	42.95%	13.83%	23.75%
Large Animal	0.01%	0.01%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.19%	0.82%	0.77%	3.14%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Equipment repaired at time of outage. No corrections necessary at this time.

Substation Name and Number CLAY_LICK 26
 Substation Location 5627 Louisville, Rd., Salvisa, KY 40372
 Circuit Name and Number CLAY_LICK 144
 Circuit Location Bonds Mill
 Total Circuit Length (Miles) 62.9
 2020 Member Count 646
 5 Year Average Member Count 635
 Date of Last Trim 2016
 Date of Next Trim 2023

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
71.50416518	0.924616036	83.75696594	1.574303406

Total Minutes/Frequency	226975.00	2935.0000	54107.00	1017.0000
Equipment Fault	21.43%	25.69%	1.80%	2.26%
Wind	11.04%	4.67%	0.00%	0.00%
Small Animal	7.40%	13.63%	9.88%	14.06%
Squirrel	1.80%	2.83%	0.00%	0.00%
Unknown Cause	1.16%	1.50%	4.88%	4.33%
Deterioration	0.26%	0.34%	0.00%	0.00%
Scheduled	0.04%	0.10%	0.18%	0.29%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.39%	0.92%	1.65%	2.65%
Public Accident	12.52%	25.89%	33.17%	63.03%
Ice/Snow	2.13%	0.20%	0.00%	0.00%
Fire	0.04%	0.07%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	1.36%	1.06%	3.76%	1.87%
Lightning	9.85%	10.66%	0.08%	0.20%
Tree - Non ROW	29.30%	10.97%	44.52%	11.21%
Large Animal	1.24%	1.36%	0.08%	0.10%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.04%	0.10%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Public Accident caused outages. No corrections necessary at this time.

Substation Name and Number COLEMANSVILLE 32
 Substation Location Corner of HWY 1032 & 1054, Berry, KY 41004
 Circuit Name and Number COLEMANSVILLE 114
 Circuit Location Kelat
 Total Circuit Length (Miles) 66.7
 2020 Member Count 443
 5 Year Average Member Count 435
 Date of Last Trim 2018
 Date of Next Trim 2025

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
115.915183	1.088375265	72.37020316	2.045146727

Total Minutes/Frequency	252199.00	2368.0000	32060.00	906.0000
Equipment Fault	38.75%	25.00%	54.09%	24.72%
Wind	5.49%	3.51%	0.00%	0.00%
Small Animal	5.66%	12.67%	3.47%	12.36%
Squirrel	0.46%	1.35%	0.00%	0.00%
Unknown Cause	1.38%	1.90%	10.76%	4.86%
Deterioration	0.12%	0.17%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.53%	18.71%	4.15%	48.90%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.00%	0.04%	0.00%	0.00%
Lightning	21.52%	21.24%	0.00%	0.00%
Tree - Non ROW	26.09%	15.41%	27.53%	9.16%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Power Supplier caused outages. No corrections necessary at this time.

Substation Name and Number COLEMANSVILLE 32
 Substation Location Corner of HWY 1032 & 1054, Berry, KY 41005
 Circuit Name and Number COLEMANSVILLE 124
 Circuit Location Robinson
 Total Circuit Length (Miles) 73.2
 2020 Member Count 600
 5 Year Average Member Count 589
 Date of Last Trim 2018
 Date of Next Trim 2025

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
148.9938588	1.331614267	34.65666667	1.363333333

Total Minutes/Frequency	439055.00	3924.0000	20794.00	818.0000
Equipment Fault	38.24%	21.97%	22.50%	8.44%
Wind	13.05%	13.33%	0.00%	0.00%
Small Animal	5.20%	8.15%	11.97%	7.95%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	5.90%	8.49%	0.81%	0.12%
Deterioration	3.59%	3.52%	41.50%	7.33%
Scheduled	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.40%	15.04%	8.51%	72.13%
Bird	0.05%	0.05%	0.00%	0.00%
Overload	0.02%	0.03%	0.00%	0.00%
Public Accident	7.65%	5.05%	4.98%	0.73%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.48%	0.23%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	4.96%	1.99%	7.14%	1.71%
Lightning	15.20%	16.13%	2.59%	1.59%
Tree - Non ROW	4.69%	4.46%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.57%	1.58%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Power Supplier caused outages. No corrections necessary at this time.

Substation Name and Number	COLEMANSVILLE	32
Substation Location	Corner of HWY 1032 & 1054, Berry, KY 41006	
Circuit Name and Number	COLEMANSVILLE	134
Circuit Location	Renaker	
Total Circuit Length (Miles)	78.9	
2020 Member Count	485	
5 Year Average Member Count	476	
Date of Last Trim	2018	
Date of Next Trim	2025	

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
83.33221007	0.635601375	42.17525773	1.313402062

Total Minutes/Frequency	198497.00	1514.0000	20455.00	637.0000
Equipment Fault	8.45%	9.31%	24.47%	7.22%
Wind	2.12%	1.52%	14.20%	1.73%
Small Animal	2.64%	4.10%	4.40%	2.35%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	1.28%	0.92%	0.00%	0.00%
Deterioration	3.32%	1.72%	0.32%	0.16%
Scheduled	0.25%	0.33%	1.15%	0.31%
Power Supplier	0.74%	32.36%	7.19%	76.92%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	7.00%	6.27%	42.70%	10.52%
Ice/Snow	10.04%	4.49%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	2.01%	4.82%	0.00%	0.00%
Tree - ROW	0.04%	0.07%	0.00%	0.00%
Lightning	52.75%	24.24%	5.56%	0.78%
Tree - Non ROW	9.36%	9.84%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Power Supplier caused outages. No corrections necessary at this time.

Substation Name and Number	CROOKSVILLE	13
Substation Location	765 Crooksville Rd., Richmond, KY	40475
Circuit Name and Number	CROOKSVILLE	114
Circuit Location	Speedwell	
Total Circuit Length (Miles)	69.3	
2020 Member Count	664	
5 Year Average Member Count	653	
Date of Last Trim	2014	
Date of Next Trim	2021	

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
95.34169235	0.787712294	210.2771084	1.606927711

Total Minutes/Frequency	311063.00	2570.0000	139624.00	1067.0000
Equipment Fault	2.78%	3.70%	0.00%	0.00%
Wind	6.99%	8.72%	13.64%	17.71%
Small Animal	12.95%	19.81%	2.41%	4.22%
Squirrel	0.59%	1.17%	0.00%	0.00%
Unknown Cause	4.75%	8.21%	0.50%	1.22%
Deterioration	1.33%	1.40%	1.35%	1.22%
Scheduled	0.48%	0.70%	0.63%	0.28%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	3.52%	4.67%	0.52%	2.62%
Ice/Snow	5.82%	2.30%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	8.51%	7.39%	2.99%	5.34%
Lightning	35.97%	30.43%	72.81%	63.26%
Tree - Non ROW	15.38%	10.27%	5.14%	4.12%
Large Animal	0.94%	1.25%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Storm related outages. No corrections necessary at this time.

Substation Name and Number	DAVIS	4
Substation Location	3876 Delong Rd., Lexington, KY	40515
Circuit Name and Number	DAVIS	114
Circuit Location	Ashgrove Pike	
Total Circuit Length (Miles)	19.8	
2020 Member Count	357	
5 Year Average Member Count	363	
Date of Last Trim	2015	
Date of Next Trim	2021	

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
117.6668433	1.085865608	175.5042017	1.386554622

Total Minutes/Frequency	213582.00	1971.0000	62655.00	495.0000
Equipment Fault	1.06%	1.32%	0.93%	2.02%
Wind	1.05%	2.99%	0.00%	0.00%
Small Animal	4.90%	8.47%	5.92%	9.49%
Squirrel	0.03%	0.05%	0.00%	0.00%
Unknown Cause	1.64%	2.49%	4.27%	6.67%
Deterioration	0.03%	0.05%	0.00%	0.00%
Scheduled	2.52%	3.40%	2.30%	1.41%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	1.36%	1.57%	0.00%	0.00%
Overload	0.01%	0.20%	0.00%	0.00%
Public Accident	4.19%	2.38%	0.23%	0.61%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	6.08%	7.91%	5.42%	7.88%
Lightning	21.52%	22.63%	0.00%	0.00%
Tree - Non ROW	55.61%	46.52%	80.94%	71.92%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

Substation Name and Number	DAVIS	4
Substation Location	3876 Delong Rd., Lexington, KY 40515	
Circuit Name and Number	DAVIS	144
Circuit Location	Tates Creek Estates	
Total Circuit Length (Miles)	5.1	
2020 Member Count	304	
5 Year Average Member Count	309	
Date of Last Trim	2020	
Date of Next Trim	2026	

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
110.3549525	1.310761049	107.3717105	1.473684211

Total Minutes/Frequency	170572.00	2026.0000	32641.00	448.0000
Equipment Fault	27.85%	20.63%	0.00%	0.00%
Wind	6.23%	8.88%	14.45%	25.67%
Small Animal	24.89%	35.69%	38.62%	33.48%
Squirrel	0.09%	0.10%	0.00%	0.00%
Unknown Cause	0.14%	0.54%	0.71%	2.46%
Deterioration	2.16%	1.88%	0.00%	0.00%
Scheduled	1.92%	3.60%	1.41%	5.13%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.14%	0.25%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	4.51%	5.03%	16.08%	18.30%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.25%	0.35%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	24.55%	16.58%	0.00%	0.00%
Lightning	0.33%	0.64%	0.00%	0.00%
Tree - Non ROW	6.95%	5.82%	28.74%	14.96%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Animal guards to be placed strategically.

Substation Name and Number	FAYETTE1	5
Substation Location	2442 Armstrong Mill, Lexington, KY 40515	
Circuit Name and Number	FAYETTE1	134
Circuit Location	Armstrong Mill	
Total Circuit Length (Miles)	7.9	
2020 Member Count	815	
5 Year Average Member Count	807	
Date of Last Trim	2018	
Date of Next Trim	2022	

	5 Year Average		2020	
	SAIDI	SAIFI	SAIDI	SAIFI
	27.90187682	0.235925239	24.35092025	0.316564417

Total Minutes/Frequency	112589.00	952.0000	19846.00	258.0000
Equipment Fault	61.46%	45.80%	8.70%	7.75%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	34.51%	49.26%	91.30%	92.25%
Squirrel	0.49%	1.16%	0.00%	0.00%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Scheduled	1.66%	1.37%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.72%	0.95%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.00%	0.00%	0.00%	0.00%
Lightning	0.21%	0.42%	0.00%	0.00%
Tree - Non ROW	0.93%	1.05%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Animal guards to be placed strategically.

Substation Name and Number HEADQUARTERS 36
 Substation Location 2195 Saltwell Hedquarters, Rd., Carlisle, KY 40311
 Circuit Name and Number HEADQUARTERS 114
 Circuit Location Arther Road
 Total Circuit Length (Miles) 29.7
 2020 Member Count 162
 5 Year Average Member Count 160
 Date of Last Trim 2017
 Date of Next Trim 2023

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
255.8214342	1.109623719	409.4876543	1.759259259

Total Minutes/Frequency	204496.00	887.0000	66337.00	285.0000
Equipment Fault	23.35%	29.43%	3.83%	10.88%
Wind	51.18%	23.68%	68.01%	36.14%
Small Animal	0.67%	3.04%	0.05%	0.70%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.13%	0.34%	0.00%	0.00%
Deterioration	13.66%	24.69%	26.38%	47.02%
Scheduled	0.01%	0.11%	0.04%	0.35%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.07%	0.11%	0.00%	0.00%
Ice/Snow	0.17%	0.11%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.18%	0.45%	0.00%	0.00%
Tree - ROW	0.81%	1.58%	0.00%	0.00%
Lightning	3.80%	8.23%	0.00%	0.00%
Tree - Non ROW	5.99%	8.23%	1.68%	4.91%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Equipment repaired at time of outage. Storm related outages. No corrections necessary at this time.

Substation Name and Number HEADQUARTERS 36
 Substation Location 2195 Saltwell Hedquarters, Rd., Carlisle, KY 40311
 Circuit Name and Number HEADQUARTERS 124
 Circuit Location Colville
 Total Circuit Length (Miles) 30.0
 2020 Member Count 182
 5 Year Average Member Count 180
 Date of Last Trim 2016
 Date of Next Trim 2023

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
63.5894523	0.78168693	106.5274725	1.846153846

Total Minutes/Frequency	57107.00	702.0000	19388.00	336.0000
Equipment Fault	32.39%	23.36%	0.07%	0.60%
Wind	29.96%	35.61%	40.28%	55.65%
Small Animal	3.31%	5.84%	2.40%	2.98%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.80%	1.42%	0.00%	0.00%
Deterioration	0.25%	0.28%	0.00%	0.00%
Scheduled	9.41%	9.26%	27.40%	19.05%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.30%	0.28%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	2.46%	1.28%	0.00%	0.00%
Ice/Snow	1.80%	0.43%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.43%	0.57%	0.00%	0.00%
Tree - ROW	0.23%	0.14%	0.00%	0.00%
Lightning	8.84%	11.82%	3.02%	2.38%
Tree - Non ROW	9.82%	9.69%	26.82%	19.35%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Storm related outages. No corrections necessary at this time.

Substation Name and Number HEADQUARTERS 36
 Substation Location 2195 Saltwell Hedquarters, Rd., Carlisle, KY 40311
 Circuit Name and Number HEADQUARTERS 134
 Circuit Location Morning Glory
 Total Circuit Length (Miles) 64.0
 2020 Member Count 385
 5 Year Average Member Count 380
 Date of Last Trim 2020
 Date of Next Trim 2026

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
117.616774	0.956447914	175.1376623	1.633766234

Total Minutes/Frequency	223441.00	1817.0000	67428.00	629.0000
Equipment Fault	15.05%	15.63%	0.42%	0.32%
Wind	16.72%	21.19%	55.42%	61.21%
Small Animal	11.08%	13.32%	3.41%	4.29%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	1.75%	1.87%	5.58%	5.09%
Deterioration	15.17%	12.16%	0.00%	0.00%
Scheduled	0.55%	0.94%	1.82%	2.70%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	1.89%	1.82%	6.17%	5.09%
Lightning	6.04%	9.52%	4.95%	11.29%
Tree - Non ROW	31.73%	23.56%	22.23%	10.02%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Storm related outages. No corrections necessary at this time.

Substation Name and Number HEADQUARTERS 36
 Substation Location 2195 Saltwell Hedquarters, Rd., Carlisle, KY 40311
 Circuit Name and Number HEADQUARTERS 144
 Circuit Location Kentontown
 Total Circuit Length (Miles) 121.5
 2020 Member Count 729
 5 Year Average Member Count 719
 Date of Last Trim 2019
 Date of Next Trim 2025

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
256.5178159	1.853125821	201.2208505	1.887517147

Total Minutes/Frequency	922737.00	6666.0000	146690.00	1376.0000
Equipment Fault	26.77%	32.99%	6.83%	5.52%
Wind	2.76%	3.17%	5.51%	6.18%
Small Animal	5.25%	7.88%	0.46%	0.87%
Squirrel	0.01%	0.03%	0.00%	0.07%
Unknown Cause	0.21%	0.39%	0.00%	0.00%
Deterioration	0.47%	0.80%	0.00%	0.00%
Scheduled	2.71%	5.28%	14.59%	17.59%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	11.93%	11.03%	21.53%	13.52%
Ice/Snow	1.29%	1.31%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	2.40%	3.02%	0.00%	0.00%
Lightning	4.82%	3.23%	0.00%	0.00%
Tree - Non ROW	41.39%	30.90%	51.08%	56.25%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

Substation Name and Number HICKORY PLAINS 9
 Substation Location 1075 Old US 25, Berea, KY 40403
 Circuit Name and Number HICKORY PLAINS 154
 Circuit Location North-City of Berea
 Total Circuit Length (Miles) 13.0
 2020 Member Count 464
 5 Year Average Member Count 448
 Date of Last Trim 2018
 Date of Next Trim 2024

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
88.51494118	1.030016375	69.07112069	1.127155172

Total Minutes/Frequency	198425.00	2309.0000	32049.00	523.0000
Equipment Fault	2.40%	1.82%	0.00%	0.00%
Wind	22.55%	24.21%	0.00%	0.00%
Small Animal	5.02%	7.49%	0.00%	0.00%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	4.86%	4.72%	12.78%	6.69%
Deterioration	1.39%	1.47%	0.00%	0.00%
Scheduled	1.52%	1.65%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.15%	1.30%	0.00%	0.00%
Public Accident	5.22%	2.99%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	14.00%	15.68%	22.10%	36.14%
Lightning	30.03%	29.19%	42.25%	43.02%
Tree - Non ROW	12.39%	7.97%	22.87%	14.15%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.46%	1.52%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Storm related outages. No corrections necessary at this time.

2-114

Substation Name and Number	HOLLOWAY	2
Substation Location	6447 Harrodsburg Rd., Nicholasville, KY 40356	
Circuit Name and Number	HOLLOWAY	114
Circuit Location	BGE HQ Office	
Total Circuit Length (Miles)	16.3	
2020 Member Count	698	
5 Year Average Member Count	682	
Date of Last Trim	2017	
Date of Next Trim	2023	

	5 Year Average		2020	
	SAIDI	SAIFI	SAIDI	SAIFI
	19.62597677	0.341841401	57.12320917	1.20773639

Total Minutes/Frequency	66943.00	1166.0000	39872.00	843.0000
Equipment Fault	1.99%	0.94%	0.27%	0.12%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	5.30%	4.03%	7.66%	4.63%
Squirrel	0.04%	0.09%	0.00%	0.00%
Unknown Cause	5.71%	4.72%	5.69%	4.27%
Deterioration	0.72%	0.43%	0.00%	0.00%
Scheduled	4.31%	3.52%	1.36%	3.80%
Power Supplier	46.58%	59.43%	78.21%	82.21%
Bird	1.27%	1.63%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	1.36%	1.72%	0.17%	0.24%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	22.88%	16.47%	4.01%	2.61%
Lightning	4.57%	4.97%	0.07%	0.12%
Tree - Non ROW	5.26%	2.06%	2.56%	2.02%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Power Supplier caused outages. No corrections necessary at this time.

Substation Name and Number HOLLOWAY 2
 Substation Location 6447 Harrodsburg Rd., Nicholasville, KY 40356
 Circuit Name and Number HOLLOWAY 124
 Circuit Location Clear Creek/Murphy's Lane
 Total Circuit Length (Miles) 39.5
 2020 Member Count 354
 5 Year Average Member Count 346
 Date of Last Trim 2017
 Date of Next Trim 2023

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
79.20444494	0.898894376	52.84463277	1.127118644

Total Minutes/Frequency	137016.00	1555.0000	18707.00	399.0000
Equipment Fault	1.52%	1.99%	0.84%	0.25%
Wind	0.05%	0.06%	0.00%	0.00%
Small Animal	3.08%	4.44%	5.17%	3.51%
Squirrel	0.13%	0.13%	0.00%	0.00%
Unknown Cause	1.94%	2.12%	10.57%	6.02%
Deterioration	0.27%	0.26%	0.00%	0.00%
Scheduled	2.21%	7.78%	0.00%	0.00%
Power Supplier	10.67%	22.38%	78.13%	87.22%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	4.16%	25.98%	1.27%	0.50%
Ice/Snow	0.18%	0.06%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	3.89%	1.61%	0.73%	1.00%
Lightning	13.50%	7.46%	3.28%	1.50%
Tree - Non ROW	58.39%	25.59%	0.00%	0.00%
Large Animal	0.03%	0.13%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Power Supplier caused outages. No corrections necessary at this time.

Substation Name and Number	HOLLOWAY	2
Substation Location	6447 Harrodsburg Rd., Nicholasville, KY 40356	
Circuit Name and Number	HOLLOWAY	134
Circuit Location	Keene	
Total Circuit Length (Miles)	34.9	
2020 Member Count	406	
5 Year Average Member Count	397	
Date of Last Trim	2019	
Date of Next Trim	2025	

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
94.50694386	0.972271882	95.88423645	1.445812808

Total Minutes/Frequency	187503.00	1929.0000	38929.00	587.0000
Equipment Fault	3.35%	9.49%	0.00%	0.00%
Wind	0.87%	1.50%	0.00%	0.00%
Small Animal	12.11%	8.50%	52.76%	21.29%
Squirrel	1.50%	2.64%	0.00%	0.00%
Unknown Cause	2.84%	3.89%	0.33%	0.17%
Deterioration	3.16%	3.42%	0.00%	0.00%
Scheduled	0.37%	0.83%	0.00%	0.00%
Power Supplier	8.79%	20.84%	42.34%	68.48%
Bird	1.03%	1.30%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	12.59%	6.01%	0.00%	0.00%
Ice/Snow	1.03%	0.26%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	12.96%	10.58%	3.75%	8.52%
Lightning	0.47%	0.73%	0.71%	1.36%
Tree - Non ROW	38.81%	29.81%	0.11%	0.17%
Large Animal	0.13%	0.21%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Power Supplier caused outages. No corrections necessary at this time.

Substation Name and Number HOLLOWAY 2
 Substation Location 6447 Harrodsburg Rd., Nicholasville, KY 40356
 Circuit Name and Number HOLLOWAY 144
 Circuit Location Southland C.C.
 Total Circuit Length (Miles) 29.7
 2020 Member Count 396
 5 Year Average Member Count 387
 Date of Last Trim 2018
 Date of Next Trim 2024

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
23.0153221	0.376715834	46.68939394	1.151515152

Total Minutes/Frequency	44538.00	729.0000	18489.00	456.0000
Equipment Fault	5.55%	2.88%	0.76%	0.66%
Wind	3.83%	4.12%	4.85%	3.51%
Small Animal	11.37%	13.31%	11.37%	8.55%
Squirrel	0.31%	0.55%	0.00%	0.00%
Unknown Cause	2.02%	1.65%	1.91%	1.32%
Deterioration	1.68%	1.23%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Power Supplier	33.27%	53.50%	80.16%	85.53%
Bird	0.74%	0.82%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.61%	0.41%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	10.47%	2.47%	0.95%	0.44%
Lightning	21.18%	8.92%	0.00%	0.00%
Tree - Non ROW	8.96%	10.15%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Power Supplier caused outages. No corrections necessary at this time.

Substation Name and Number JACKSONVILLE 39
 Substation Location 1386 Russell Cave Rd., Cynthiana, KY 41031
 Circuit Name and Number JACKSONVILLE 114
 Circuit Location Bourbon Acres
 Total Circuit Length (Miles) 93.4
 2020 Member Count 646
 5 Year Average Member Count 653
 Date of Last Trim 2020
 Date of Next Trim 2026

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
54.86122244	0.575108858	27.54024768	0.791021672

Total Minutes/Frequency	179243.00	1879.0000	17791.00	511.0000
Equipment Fault	32.80%	39.22%	42.41%	58.90%
Wind	2.86%	2.66%	19.72%	6.26%
Small Animal	5.24%	7.34%	12.96%	5.28%
Squirrel	0.02%	0.05%	0.00%	0.00%
Unknown Cause	9.21%	6.33%	0.00%	0.00%
Deterioration	0.97%	2.34%	1.47%	0.59%
Scheduled	2.36%	7.61%	1.74%	14.48%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	2.97%	4.52%	13.29%	4.70%
Ice/Snow	0.12%	0.32%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.09%	0.11%	0.00%	0.00%
Tree - ROW	24.97%	15.22%	4.46%	4.11%
Lightning	5.55%	7.45%	3.95%	5.68%
Tree - Non ROW	12.50%	6.28%	0.00%	0.00%
Large Animal	0.35%	0.53%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Equipment repaired at time of outage. No corrections necessary at this time.

Substation Name and Number LEES_LICK 34
 Substation Location HWY 1842, Cynthiana, KY 41031
 Circuit Name and Number LEES_LICK 124
 Circuit Location White Oak
 Total Circuit Length (Miles) 63.7
 2020 Member Count 465
 5 Year Average Member Count 459
 Date of Last Trim 2016
 Date of Next Trim 2023

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
133.4813895	1.027208663	165.5290323	0.898924731

Total Minutes/Frequency	306542.00	2359.0000	76971.00	418.0000
Equipment Fault	42.49%	26.45%	33.84%	34.93%
Wind	10.78%	11.49%	0.00%	0.00%
Small Animal	6.27%	9.71%	14.95%	21.77%
Squirrel	1.26%	1.57%	0.00%	0.00%
Unknown Cause	2.34%	4.32%	4.01%	7.42%
Deterioration	0.21%	0.38%	0.00%	0.00%
Scheduled	0.70%	0.76%	1.41%	1.91%
Power Supplier	6.59%	18.61%	0.00%	0.00%
Bird	0.50%	0.81%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	1.10%	1.91%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.02%	0.04%	0.00%	0.00%
Tree - ROW	0.04%	0.08%	0.00%	0.00%
Lightning	1.06%	1.70%	0.00%	0.00%
Tree - Non ROW	26.63%	22.17%	45.78%	33.97%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

Substation Name and Number LEES_LICK 34
 Substation Location HWY 1842, Cynthiana, KY 41031
 Circuit Name and Number LEES_LICK 134
 Circuit Location Leesburg
 Total Circuit Length (Miles) 19.7
 2020 Member Count 204
 5 Year Average Member Count 202
 Date of Last Trim 2015
 Date of Next Trim 2021

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
117.9996122	1.098755694	97.37745098	1.696078431

Total Minutes/Frequency	118885.00	1107.0000	19865.00	346.0000
Equipment Fault	4.94%	5.69%	0.41%	0.87%
Wind	1.29%	5.15%	0.00%	0.00%
Small Animal	8.11%	11.92%	10.11%	8.38%
Squirrel	0.20%	0.27%	0.00%	0.00%
Unknown Cause	4.06%	4.25%	14.70%	6.65%
Deterioration	9.62%	5.24%	0.00%	0.00%
Scheduled	11.93%	25.56%	71.37%	81.79%
Power Supplier	6.05%	13.82%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.31%	0.36%	1.83%	1.16%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	3.58%	2.08%	0.00%	0.00%
Tree - ROW	0.11%	0.18%	0.00%	0.00%
Lightning	34.29%	14.45%	1.57%	1.16%
Tree - Non ROW	15.41%	10.84%	0.00%	0.00%
Large Animal	0.10%	0.18%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Scheduled outages. No corrections necessary at this time.

Substation Name and Number	LEES_LICK	34
Substation Location	HWY 1842, Cynthiana, KY 41031	
Circuit Name and Number	LEES_LICK	144
Circuit Location	Hicks/Muddy Ford	
Total Circuit Length (Miles)	60.9	
2020 Member Count	497	
5 Year Average Member Count	491	
Date of Last Trim	2016	
Date of Next Trim	2022	

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
123.9349068	0.876737461	163.4104628	1.217303823

Total Minutes/Frequency	304205.00	2152.0000	81215.00	605.0000
Equipment Fault	14.39%	15.38%	18.87%	10.74%
Wind	2.21%	3.35%	3.27%	5.45%
Small Animal	1.26%	3.02%	0.48%	2.31%
Squirrel	0.19%	0.23%	0.00%	0.00%
Unknown Cause	0.03%	0.05%	0.12%	0.17%
Deterioration	4.30%	2.18%	0.00%	0.00%
Scheduled	4.44%	4.88%	16.63%	17.36%
Power Supplier	7.18%	22.07%	0.00%	0.00%
Bird	0.01%	0.05%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	3.31%	3.07%	0.08%	0.50%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.11%	0.23%	0.00%	0.00%
Lightning	4.55%	5.99%	0.25%	0.33%
Tree - Non ROW	58.00%	39.45%	60.30%	63.14%
Large Animal	0.02%	0.05%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

Substation Name and Number LEES_LICK 34
 Substation Location HWY 1842, Cynthiana, KY 41031
 Circuit Name and Number LEES_LICK 154
 Circuit Location Newtown
 Total Circuit Length (Miles) 3.3
 2020 Member Count 15
 5 Year Average Member Count 15
 Date of Last Trim 2016
 Date of Next Trim 2022

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
25.01311878	0.296971729	41.86666667	0.133333333

Total Minutes/Frequency	1853.00	22.0000	628.00	2.0000
Equipment Fault	10.74%	4.55%	0.00%	0.00%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	10.31%	13.64%	0.00%	0.00%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Scheduled	33.89%	9.09%	100.00%	100.00%
Power Supplier	36.43%	68.18%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.00%	0.00%	0.00%	0.00%
Lightning	8.63%	4.55%	0.00%	0.00%
Tree - Non ROW	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Scheduled outages. No corrections necessary at this time.

Substation Name and Number	MERCER_CO	25
Substation Location	754 Industrial Park Drive, Harrodsburg, KY 40330	
Circuit Name and Number	MERCER_CO	104
Circuit Location	Mercer Co. Schools	
Total Circuit Length (Miles)	2.1	
2020 Member Count	20	
5 Year Average Member Count	20	
Date of Last Trim	2016	
Date of Next Trim	2022	

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
63.37563452	0.887418419	106.4	1.4

Total Minutes/Frequency	6356.00	89.0000	2128.00	28.0000
Equipment Fault	0.00%	0.00%	0.00%	0.00%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	46.63%	57.30%	56.86%	67.86%
Squirrel	4.28%	8.99%	0.00%	0.00%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	7.65%	2.25%	0.00%	0.00%
Ice/Snow	5.90%	1.12%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.00%	0.00%	0.00%	0.00%
Lightning	35.54%	30.34%	43.14%	32.14%
Tree - Non ROW	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Animal guards to be placed strategically.

Substation Name and Number MILLERSBURG 38
 Substation Location 1024 Miller Station Rd., Carlisle, KY 40311
 Circuit Name and Number MILLERSBURG 114
 Circuit Location Little Rock
 Total Circuit Length (Miles) 89.5
 2020 Member Count 484
 5 Year Average Member Count 475
 Date of Last Trim 2014
 Date of Next Trim 2021

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
183.8741806	1.148847607	282.9524793	1.144628099

Total Minutes/Frequency	436392.59	2726.5850	136949.00	554.0000
Equipment Fault	23.36%	15.44%	55.18%	38.63%
Wind	8.67%	7.12%	8.09%	8.48%
Small Animal	4.85%	5.76%	5.27%	5.42%
Squirrel	0.03%	0.07%	0.00%	0.00%
Unknown Cause	2.17%	4.73%	0.00%	0.00%
Deterioration	5.61%	5.39%	0.00%	0.00%
Scheduled	0.27%	2.49%	0.45%	1.08%
Power Supplier	5.66%	16.78%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.06%	0.15%	0.18%	0.72%
Public Accident	4.88%	4.47%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	13.03%	10.27%	16.12%	15.16%
Lightning	15.23%	13.24%	1.11%	2.17%
Tree - Non ROW	16.19%	14.08%	13.59%	28.34%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Equipment repaired at time of outage. No corrections necessary at this time.

Substation Name and Number MILLERSBURG 38
 Substation Location 1024 Miller Station Rd., Carlisle, KY 40311
 Circuit Name and Number MILLERSBURG 124
 Circuit Location Taylors Creek
 Total Circuit Length (Miles) 34.5
 2020 Member Count 377
 5 Year Average Member Count 370
 Date of Last Trim 2016
 Date of Next Trim 2023

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
98.60318552	1.381995126	145.4164456	2.153846154

Total Minutes/Frequency	182281.90	2554.8130	54822.00	812.0000
Equipment Fault	1.20%	0.47%	1.05%	0.49%
Wind	2.00%	1.76%	0.44%	0.25%
Small Animal	14.29%	14.60%	9.61%	8.50%
Squirrel	0.08%	0.12%	0.00%	0.00%
Unknown Cause	2.79%	2.15%	2.91%	1.72%
Deterioration	9.13%	8.65%	21.21%	24.26%
Scheduled	13.40%	15.89%	26.57%	41.75%
Power Supplier	10.48%	13.85%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	4.69%	8.22%	8.01%	2.96%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	4.21%	2.74%	14.00%	8.62%
Lightning	5.57%	2.97%	0.00%	0.00%
Tree - Non ROW	31.62%	23.68%	16.21%	11.45%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.55%	4.89%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Scheduled outages. No corrections necessary at this time.

Substation Name and Number NEWBY 7
 Substation Location 247 Maple Grove Rd., Richmond, KY 40475
 Circuit Name and Number NEWBY 114
 Circuit Location Baldwin
 Total Circuit Length (Miles) 19.7
 2020 Member Count 135
 5 Year Average Member Count 130
 Date of Last Trim 2018
 Date of Next Trim 2023

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
99.41413281	0.685826335	86.40740741	1.2

Total Minutes/Frequency	64795.00	447.0000	11665.00	162.0000
Equipment Fault	51.79%	15.44%	0.00%	0.00%
Wind	8.33%	8.05%	17.08%	14.81%
Small Animal	14.43%	30.20%	14.32%	9.26%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	6.04%	6.94%	0.00%	0.00%
Deterioration	0.34%	0.22%	0.00%	0.00%
Scheduled	5.96%	16.33%	32.71%	44.44%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.12%	0.22%	0.69%	0.62%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.30%	0.22%	0.00%	0.00%
Lightning	5.09%	9.62%	14.56%	15.43%
Tree - Non ROW	7.61%	12.75%	20.64%	15.43%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Scheduled outages. No corrections necessary at this time.

Substation Name and Number NEWBY 7
 Substation Location 247 Maple Grove Rd., Richmond, KY 40475
 Circuit Name and Number NEWBY 124
 Circuit Location Shallow Ford
 Total Circuit Length (Miles) 14.7
 2020 Member Count 154
 5 Year Average Member Count 149
 Date of Last Trim 2018
 Date of Next Trim 2024

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
204.7992328	1.519840893	302.9545455	1.435064935

Total Minutes/Frequency	152268.00	1130.0000	46655.00	221.0000
Equipment Fault	60.11%	42.12%	96.89%	77.38%
Wind	0.79%	0.27%	0.00%	0.00%
Small Animal	2.66%	6.28%	0.29%	1.81%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.41%	0.35%	1.35%	1.81%
Deterioration	0.24%	0.18%	0.00%	0.00%
Scheduled	0.39%	3.72%	1.11%	18.10%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	4.86%	8.76%	0.36%	0.90%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	3.01%	5.58%	0.00%	0.00%
Lightning	4.13%	4.96%	0.00%	0.00%
Tree - Non ROW	23.34%	27.70%	0.00%	0.00%
Large Animal	0.05%	0.09%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Equipment repaired at time of outage. No corrections necessary at this time.

Substation Name and Number NEWBY 7
 Substation Location 247 Maple Grove Rd., Richmond, KY 40475
 Circuit Name and Number NEWBY 134
 Circuit Location Tates Creek Rd
 Total Circuit Length (Miles) 21.7
 2020 Member Count 392
 5 Year Average Member Count 379
 Date of Last Trim 2015
 Date of Next Trim 2021

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
137.5266268	1.071045904	415.9183673	2.339285714

Total Minutes/Frequency	260275.00	2027.0000	163040.00	917.0000
Equipment Fault	23.60%	21.16%	36.12%	43.73%
Wind	1.15%	1.63%	0.00%	0.00%
Small Animal	3.28%	6.51%	0.77%	1.96%
Squirrel	1.23%	2.22%	1.18%	3.05%
Unknown Cause	1.08%	1.73%	0.93%	1.64%
Deterioration	0.92%	1.18%	0.13%	0.22%
Scheduled	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.04%	0.05%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	36.81%	22.69%	54.87%	44.38%
Lightning	0.88%	1.09%	0.00%	0.00%
Tree - Non ROW	31.01%	41.74%	6.00%	5.02%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:
 Circuit to be trimmed in 2021.

Substation Name and Number NEWBY 7
 Substation Location 247 Maple Grove Rd., Richmond, KY 40475
 Circuit Name and Number NEWBY 144
 Circuit Location Bears Den/Mule Shed Rd
 Total Circuit Length (Miles) 57.7
 2020 Member Count 629
 5 Year Average Member Count 607
 Date of Last Trim 2018
 Date of Next Trim 2024

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
67.86447004	0.489996174	73.44674086	0.806041335

Total Minutes/Frequency	206088.00	1488.0000	46198.00	507.0000
Equipment Fault	16.39%	14.38%	43.67%	18.34%
Wind	0.38%	0.54%	0.00%	0.00%
Small Animal	10.97%	15.26%	5.63%	7.10%
Squirrel	0.03%	0.40%	0.00%	0.00%
Unknown Cause	2.53%	3.97%	0.29%	0.39%
Deterioration	1.87%	1.21%	0.00%	0.00%
Scheduled	0.96%	2.82%	2.18%	2.96%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	1.23%	2.96%	1.17%	3.55%
Ice/Snow	0.03%	0.07%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	3.35%	3.90%	0.54%	0.99%
Lightning	2.72%	4.50%	1.01%	2.17%
Tree - Non ROW	14.15%	26.01%	45.51%	64.50%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.02%	0.07%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	45.38%	23.92%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Equipment repaired at time of outage. No corrections necessary at this time.

Substation Name and Number	NICHOLASVILLE	1
Substation Location	1049 Bethany Rd., Nicholasville, KY 40356	
Circuit Name and Number	NICHOLASVILLE	124
Circuit Location	Spears	
Total Circuit Length (Miles)	46.3	
2020 Member Count	561	
5 Year Average Member Count	539	
Date of Last Trim	2017	
Date of Next Trim	2023	

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
92.85773064	0.78231516	259.1871658	2.190730838

Total Minutes/Frequency	250330.00	2109.0000	145404.00	1229.0000
Equipment Fault	4.49%	10.57%	2.84%	12.45%
Wind	1.14%	1.71%	0.07%	0.16%
Small Animal	9.06%	16.55%	11.95%	21.48%
Squirrel	16.84%	9.20%	0.00%	0.00%
Unknown Cause	3.74%	7.40%	2.80%	5.21%
Deterioration	0.00%	0.00%	0.00%	0.00%
Scheduled	11.53%	9.29%	19.86%	15.95%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.03%	0.05%	0.00%	0.00%
Overload	0.16%	0.09%	0.00%	0.00%
Public Accident	2.27%	1.61%	3.84%	2.69%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	7.35%	8.39%	1.53%	1.87%
Lightning	5.08%	7.87%	0.00%	0.00%
Tree - Non ROW	38.20%	27.17%	57.11%	40.20%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.11%	0.09%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

Substation Name and Number	NICHOLASVILLE	I
Substation Location	1049 Bethany Rd., Nicholasville, KY 40356	
Circuit Name and Number	NICHOLASVILLE	134
Circuit Location	Bethany/US 27	
Total Circuit Length (Miles)	11.5	
2020 Member Count	143	
5 Year Average Member Count	137	
Date of Last Trim	2019	
Date of Next Trim	2025	

	5 Year Average		2020	
	SAIDI	SAIFI	SAIDI	SAIFI
	30.63116102	0.39582288	29.41258741	0.412587413

Total Minutes/Frequency	21049.00	272.0000	4206.00	59.0000
Equipment Fault	5.28%	4.78%	13.12%	10.17%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	29.78%	27.21%	71.40%	66.10%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	17.96%	18.75%	0.00%	0.00%
Deterioration	1.60%	0.74%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	1.43%	2.57%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.42%	0.37%	2.09%	1.69%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	36.61%	36.03%	0.00%	0.00%
Lightning	4.58%	5.15%	1.69%	1.69%
Tree - Non ROW	2.34%	4.41%	11.70%	20.34%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Animal guards to be placed strategically.

Substation Name and Number	NICHOLASVILLE	1
Substation Location	1049 Bethany Rd., Nicholasville, KY 40356	
Circuit Name and Number	NICHOLASVILLE	144
Circuit Location		Country
Total Circuit Length (Miles)		4.4
2020 Member Count		24
5 Year Average Member Count		23
Date of Last Trim		2020
Date of Next Trim		2026

	5 Year Average		2020	
	SAIDI	SAIFI	SAIDI	SAIFI
	110.7341792	0.763026213	80.91666667	1

Total Minutes/Frequency	12771.00	88.0000	1942.00	24.0000
Equipment Fault	15.79%	30.68%	100.00%	100.00%
Wind	1.15%	3.41%	0.00%	0.00%
Small Animal	7.38%	34.09%	0.00%	0.00%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	73.80%	28.41%	0.00%	0.00%
Lightning	1.88%	3.41%	0.00%	0.00%
Tree - Non ROW	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Equipment repaired at time of outage. No corrections necessary at this time.

15-104

Substation Name and Number NORTH MADISON 15
 Substation Location 2064 Jacks Creek Pike, Richmond KY 40475
 Circuit Name and Number NORTH MADISON 104
 Circuit Location Shiloh Point
 Total Circuit Length (Miles) 12.3
 2020 Member Count 202
 5 Year Average Member Count 199
 Date of Last Trim 2015
 Date of Next Trim 2022

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
21.07381369	0.150426956	21.35148515	0.326732673

Total Minutes/Frequency	21014.00	150.0000	4313.00	66.0000
Equipment Fault	39.23%	32.67%	0.00%	0.00%
Wind	54.61%	34.00%	90.42%	39.39%
Small Animal	0.18%	0.67%	0.00%	0.00%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.42%	0.67%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Scheduled	1.55%	26.00%	7.56%	59.09%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.41%	0.67%	2.02%	1.52%
Lightning	1.93%	2.00%	0.00%	0.00%
Tree - Non ROW	1.67%	3.33%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Storm related outages. No corrections necessary at this time.

Substation Name and Number NORTH MADISON 15
 Substation Location 2064 Jacks Creek Pike, Richmond KY 40475
 Circuit Name and Number NORTH MADISON 114
 Circuit Location Boones Trace
 Total Circuit Length (Miles) 30.2
 2020 Member Count 541
 5 Year Average Member Count 534
 Date of Last Trim 2016
 Date of Next Trim 2023

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
164.8237555	0.907281231	407.4473198	1.741219963

Total Minutes/Frequency	440181.00	2423.0000	220429.00	942.0000
Equipment Fault	11.22%	12.75%	0.12%	0.11%
Wind	1.46%	1.69%	2.85%	4.25%
Small Animal	1.69%	4.70%	0.74%	4.67%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.35%	0.83%	0.00%	0.00%
Deterioration	0.15%	0.41%	0.00%	0.00%
Scheduled	0.42%	1.82%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.14%	0.45%	0.29%	1.17%
Overload	2.19%	6.15%	0.00%	0.00%
Public Accident	4.04%	4.17%	0.23%	0.32%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.26%	0.70%	0.29%	1.38%
Lightning	0.15%	0.41%	0.00%	0.00%
Tree - Non ROW	77.86%	65.66%	95.47%	88.11%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.04%	0.25%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

Substation Name and Number NORTH MADISON 15
 Substation Location 2064 Jacks Creek Pike, Richmond KY 40475
 Circuit Name and Number NORTH MADISON 124
 Circuit Location Indigo Run
 Total Circuit Length (Miles) 17.7
 2020 Member Count 272
 5 Year Average Member Count 269
 Date of Last Trim 2015
 Date of Next Trim 2022

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
6.107784219	0.081178939	9.625	0.253676471

Total Minutes/Frequency	8201.00	109.0000	2618.00	69.0000
Equipment Fault	5.41%	2.75%	6.95%	1.45%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	13.33%	35.78%	24.56%	44.93%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	1.68%	1.83%	0.00%	0.00%
Deterioration	3.21%	2.75%	0.00%	0.00%
Scheduled	20.38%	33.03%	63.83%	52.17%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.82%	0.92%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.00%	0.00%	0.00%	0.00%
Lightning	53.05%	20.18%	4.66%	1.45%
Tree - Non ROW	2.12%	2.75%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Scheduled outages. No corrections necessary at this time.

Substation Name and Number OXFORD 40
 Substation Location 3466 Cynthiana Rd., Georgetown, KY 40324
 Circuit Name and Number OXFORD 134
 Circuit Location Georgetown
 Total Circuit Length (Miles) 32.3
 2020 Member Count 317
 5 Year Average Member Count 290
 Date of Last Trim 2016
 Date of Next Trim 2022

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
154.5226186	1.381870354	130.3123028	1.52681388

Total Minutes/Frequency	224090.00	2004.0000	41309.00	484.0000
Equipment Fault	3.66%	4.19%	18.76%	16.53%
Wind	33.27%	28.14%	0.00%	0.00%
Small Animal	3.86%	7.73%	2.67%	5.58%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.42%	0.55%	0.00%	0.00%
Deterioration	0.05%	0.05%	0.28%	0.21%
Scheduled	0.76%	0.75%	4.14%	3.10%
Power Supplier	29.17%	29.54%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.02%	0.10%	0.10%	0.41%
Public Accident	2.59%	3.34%	14.04%	13.84%
Ice/Snow	0.16%	0.10%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	3.46%	3.74%	0.00%	0.00%
Lightning	0.99%	0.55%	0.00%	0.00%
Tree - Non ROW	21.58%	21.21%	60.01%	60.33%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

Substation Name and Number POWELL TAYLOR 28
 Substation Location 1024 Powell Taylor Rd., Lawrenceburg, KY 40342
 Circuit Name and Number POWELL TAYLOR 114
 Circuit Location Birdie Rd
 Total Circuit Length (Miles) 59.0
 2020 Member Count 394
 5 Year Average Member Count 384
 Date of Last Trim 2017
 Date of Next Trim 2023

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
263.8333121	1.75003191	261.8883249	2.269035533

Total Minutes/Frequency	507003.00	3363.0000	103184.00	894.0000
Equipment Fault	1.51%	1.69%	2.47%	1.57%
Wind	17.43%	12.25%	0.41%	0.11%
Small Animal	1.60%	2.62%	0.09%	0.56%
Squirrel	0.08%	0.18%	0.00%	0.00%
Unknown Cause	0.71%	0.80%	0.00%	0.00%
Deterioration	0.01%	0.09%	0.00%	0.00%
Scheduled	3.84%	13.92%	16.84%	44.30%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	8.81%	7.91%	43.25%	29.64%
Ice/Snow	9.86%	4.19%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	4.69%	9.16%	9.30%	11.97%
Lightning	10.51%	13.05%	27.64%	11.86%
Tree - Non ROW	39.82%	30.60%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	1.11%	3.54%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Scheduled outages. No corrections necessary at this time.

Substation Name and Number POWELL TAYLOR 28
 Substation Location 1024 Powell Taylor Rd., Lawrenceburg, KY 40342
 Circuit Name and Number POWELL TAYLOR 134
 Circuit Location Walmart/Briar Creek
 Total Circuit Length (Miles) 10.6
 2020 Member Count 345
 5 Year Average Member Count 337
 Date of Last Trim 2017
 Date of Next Trim 2023

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
9.156774031	0.127177417	24.03188406	0.185507246

Total Minutes/Frequency	15408.00	214.0000	8291.00	64.0000
Equipment Fault	54.72%	32.24%	93.22%	92.19%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	13.29%	25.23%	0.12%	1.56%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Deterioration	0.44%	1.40%	0.00%	0.00%
Scheduled	1.83%	0.47%	3.40%	1.56%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	2.52%	2.34%	1.16%	1.56%
Ice/Snow	2.92%	0.47%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.00%	0.00%	0.00%	0.00%
Lightning	1.25%	1.87%	0.00%	0.00%
Tree - Non ROW	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	23.03%	35.98%	2.10%	3.13%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Equipment repaired at time of outage. No corrections necessary at this time.

Substation Name and Number POWELL TAYLOR 28
 Substation Location 1024 Powell Taylor Rd., Lawrenceburg, KY 40342
 Circuit Name and Number POWELL TAYLOR 144
 Circuit Location Powell Taylor/Glenview
 Total Circuit Length (Miles) 9.3
 2020 Member Count 185
 5 Year Average Member Count 180
 Date of Last Trim 2017
 Date of Next Trim 2023

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
52.0374719	1.028469863	15.79459459	1.194594595

Total Minutes/Frequency	46954.00	928.0000	2922.00	221.0000
Equipment Fault	3.60%	2.80%	43.63%	9.05%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	9.77%	8.94%	11.57%	6.33%
Squirrel	0.83%	0.86%	0.00%	0.00%
Unknown Cause	0.17%	0.11%	0.00%	0.00%
Deterioration	0.15%	0.11%	0.00%	0.00%
Scheduled	2.35%	19.83%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	2.82%	2.91%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	5.78%	3.66%	0.00%	0.00%
Lightning	21.87%	20.47%	0.00%	0.00%
Tree - Non ROW	52.67%	40.30%	44.80%	84.62%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

Substation Name and Number	SINAI	23
Substation Location	Hwy 62, Lawrenceburg, KY 40342	
Circuit Name and Number	SINAI	134
Circuit Location	West Anderson/Lick Skillet	
Total Circuit Length (Miles)	48.8	
2020 Member Count	354	
5 Year Average Member Count	345	
Date of Last Trim	2019	
Date of Next Trim	2025	

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
67.31217992	1.029153164	56.64971751	1.039548023

Total Minutes/Frequency	116160.00	1776.0000	20054.00	368.0000
Equipment Fault	12.43%	5.91%	5.71%	1.09%
Wind	1.39%	0.73%	0.96%	0.54%
Small Animal	15.84%	9.46%	0.70%	0.82%
Squirrel	0.08%	0.06%	0.00%	0.00%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Deterioration	0.56%	0.51%	0.96%	0.82%
Scheduled	0.16%	0.17%	0.00%	0.00%
Power Supplier	15.13%	38.06%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	3.11%	1.24%	0.00%	0.00%
Ice/Snow	0.91%	0.11%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.90%	0.51%	0.00%	0.00%
Lightning	30.69%	20.21%	3.41%	0.54%
Tree - Non ROW	18.81%	23.03%	88.26%	96.20%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

Substation Name and Number SINAI 23
 Substation Location Hwy 62, Lawrenceburg, KY 40342
 Circuit Name and Number SINAI 154
 Circuit Location Glensboro
 Total Circuit Length (Miles) 60.0
 2020 Member Count 380
 5 Year Average Member Count 370
 Date of Last Trim 2019
 Date of Next Trim 2025

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
166.4688822	1.564426265	192.5105263	1.781578947

Total Minutes/Frequency	308373.00	2898.0000	73154.00	677.0000
Equipment Fault	6.88%	6.94%	3.34%	10.19%
Wind	7.75%	2.80%	0.29%	0.44%
Small Animal	5.94%	8.18%	7.63%	14.18%
Squirrel	0.07%	0.10%	0.00%	0.00%
Unknown Cause	3.90%	4.62%	9.13%	10.04%
Deterioration	0.22%	0.38%	0.00%	0.00%
Scheduled	14.04%	12.91%	14.98%	19.35%
Power Supplier	6.05%	24.78%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.02%	0.07%	0.00%	0.00%
Public Accident	4.27%	6.45%	1.88%	4.58%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	2.78%	2.48%	10.99%	9.90%
Lightning	2.78%	2.10%	8.01%	7.24%
Tree - Non ROW	45.30%	28.19%	43.74%	24.08%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

Substation Name and Number SOUTH POINT 17
 Substation Location Laudale Drive, Nicholasville, KY 40356
 Circuit Name and Number SOUTH POINT 124
 Circuit Location Brannon Crossing Movie Tavern
 Total Circuit Length (Miles) 10.6
 2020 Member Count 388
 5 Year Average Member Count 291
 Date of Last Trim 2020
 Date of Next Trim 2024

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
1.655400148	0.039905739	1.154639175	0.041237113

Total Minutes/Frequency	2406.00	58.0000	448.00	16.0000
Equipment Fault	1.08%	1.72%	0.00%	0.00%
Wind	6.03%	8.62%	0.00%	0.00%
Small Animal	17.58%	17.24%	6.25%	12.50%
Squirrel	3.53%	8.62%	0.00%	0.00%
Unknown Cause	2.91%	8.62%	0.00%	0.00%
Deterioration	1.33%	3.45%	0.00%	0.00%
Scheduled	32.67%	29.31%	93.75%	87.50%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	7.23%	5.17%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	23.90%	8.62%	0.00%	0.00%
Lightning	3.74%	8.62%	0.00%	0.00%
Tree - Non ROW	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Scheduled outages. No corrections necessary at this time.

Substation Name and Number VAN_ARSDALL 24
 Substation Location 104 Bardstown Rd., Harrodsburg, KY 40330
 Circuit Name and Number VAN_ARSDALL 114
 Circuit Location Shakertown/Mcafee Ln
 Total Circuit Length (Miles) 129.1
 2020 Member Count 958
 5 Year Average Member Count 927
 Date of Last Trim 2020
 Date of Next Trim 2026

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
95.90422462	0.826844262	163.3643006	1.692066806

Total Minutes/Frequency	444467.00	3832.0000	156503.00	1621.0000
Equipment Fault	8.09%	9.71%	13.98%	13.39%
Wind	20.66%	7.52%	4.31%	3.02%
Small Animal	9.28%	12.92%	3.76%	4.57%
Squirrel	3.54%	2.97%	0.00%	0.00%
Unknown Cause	0.41%	0.57%	0.00%	0.00%
Deterioration	3.72%	2.48%	9.52%	3.95%
Scheduled	0.11%	0.10%	0.32%	0.25%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.04%	0.05%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	1.59%	1.12%	0.00%	0.00%
Ice/Snow	0.04%	0.03%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	7.36%	13.65%	5.20%	10.49%
Lightning	7.71%	11.33%	0.86%	0.25%
Tree - Non ROW	37.07%	36.77%	62.03%	64.03%
Large Animal	0.25%	0.37%	0.02%	0.06%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.12%	0.42%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

Substation Name and Number VAN_ARSDALL 24
 Substation Location 104 Bardstown Rd., Harrodsburg, KY 40330
 Circuit Name and Number VAN_ARSDALL 134
 Circuit Location Cornishville/Bushtown
 Total Circuit Length (Miles) 73.7
 2020 Member Count 465
 5 Year Average Member Count 450
 Date of Last Trim 2015
 Date of Next Trim 2022

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
192.731174	0.917974947	218.2817204	1.139784946

Total Minutes/Frequency	433552.00	2065.0000	101501.00	530.0000
Equipment Fault	40.54%	31.48%	0.07%	0.19%
Wind	3.16%	2.23%	0.00%	0.00%
Small Animal	2.76%	7.12%	0.50%	1.32%
Squirrel	0.04%	0.15%	0.00%	0.00%
Unknown Cause	0.03%	0.10%	0.00%	0.00%
Deterioration	0.14%	0.44%	0.00%	0.00%
Scheduled	0.42%	1.36%	1.77%	4.91%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	1.61%	1.94%	0.00%	0.00%
Ice/Snow	13.02%	7.02%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	25.86%	24.84%	95.85%	86.98%
Lightning	10.51%	16.90%	0.07%	0.19%
Tree - Non ROW	1.92%	6.44%	1.73%	6.42%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Tree removed at time of outage. Circuit to be trimmed in 2022. No corrections necessary at this time.

Substation Name and Number	WEST BERIA	8
Substation Location	5350 Walnutmeadow Rd., Berea, KY 40403	
Circuit Name and Number	WEST BERIA	124
Circuit Location	Peggy Flats	
Total Circuit Length (Miles)	39.8	
2020 Member Count	754	
5 Year Average Member Count	755	
Date of Last Trim	2014	
Date of Next Trim	2021	

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
100.2653954	1.024024438	211.9734748	2.303713528

Total Minutes/Frequency	378532.00	3866.0000	159828.00	1737.0000
Equipment Fault	25.15%	28.56%	52.86%	60.68%
Wind	24.47%	22.25%	1.56%	0.98%
Small Animal	10.59%	14.49%	6.67%	9.04%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	1.34%	2.04%	0.00%	0.00%
Deterioration	0.83%	0.75%	0.00%	0.00%
Scheduled	0.46%	0.39%	0.72%	0.40%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	1.89%	1.40%	0.75%	0.86%
Ice/Snow	4.39%	0.67%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	7.68%	7.17%	5.38%	3.28%
Lightning	15.53%	15.05%	23.90%	16.47%
Tree - Non ROW	7.62%	7.22%	8.15%	8.29%
Large Animal	0.02%	0.03%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Equipment repaired at time of outage. No corrections necessary at this time.

Substation Name and Number WEST NICHOLASVILLE 3
 Substation Location 398 Bass Pond Glen Dr., Nicholasville, KY 40356
 Circuit Name and Number WEST NICHOLASVILLE 124
 Circuit Location Shun Pike
 Total Circuit Length (Miles) 49.3
 2020 Member Count 442
 5 Year Average Member Count 436
 Date of Last Trim 2015
 Date of Next Trim 2021

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
217.2593012	1.692875786	291.1063348	1.877828054

Total Minutes/Frequency	473313.82	3688.0424	128669.00	830.0000
Equipment Fault	20.08%	16.73%	0.94%	13.49%
Wind	3.22%	2.44%	11.49%	9.52%
Small Animal	6.12%	17.14%	0.32%	0.84%
Squirrel	0.27%	0.62%	0.00%	0.00%
Unknown Cause	0.41%	1.19%	1.19%	3.49%
Deterioration	0.03%	0.08%	0.00%	0.00%
Scheduled	0.10%	0.11%	0.00%	0.00%
Power Supplier	7.20%	11.55%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	19.68%	16.76%	59.84%	45.66%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	7.50%	5.69%	3.66%	1.81%
Lightning	3.73%	4.09%	12.62%	13.98%
Tree - Non ROW	31.66%	23.59%	9.95%	11.20%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Public Accident caused outages. No corrections necessary at this time.

Substation Name and Number WEST NICHOLASVILLE 3
 Substation Location 398 Bass Pond Glen Dr., Nicholasville, KY 40356
 Circuit Name and Number WEST NICHOLASVILLE 144
 Circuit Location Keeneland/Padock
 Total Circuit Length (Miles) 14.9
 2020 Member Count 589
 5 Year Average Member Count 581
 Date of Last Trim 2020
 Date of Next Trim 2024

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
91.73440815	1.093760316	114.4533107	1.073005093

Total Minutes/Frequency	266315.29	3175.3090	67413.00	632.0000
Equipment Fault	12.71%	6.08%	0.21%	0.32%
Wind	0.03%	0.06%	0.00%	0.00%
Small Animal	11.22%	21.36%	0.07%	0.63%
Squirrel	0.58%	1.04%	0.00%	0.00%
Unknown Cause	1.59%	2.58%	0.33%	0.95%
Deterioration	28.43%	20.41%	97.03%	93.51%
Scheduled	0.55%	0.35%	0.00%	0.00%
Power Supplier	17.69%	18.55%	0.00%	0.00%
Bird	0.09%	0.19%	0.07%	0.63%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	1.47%	1.89%	2.29%	3.96%
Lightning	1.54%	2.27%	0.00%	0.00%
Tree - Non ROW	24.10%	25.23%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Equipment repaired at time of outage. No corrections necessary at this time.

Substation Name and Number WEST NICHOLASVILLE 3
 Substation Location 398 Bass Pond Glen Dr., Nicholasville, KY 40356
 Circuit Name and Number WEST NICHOLASVILLE 154
 Circuit Location North Main St
 Total Circuit Length (Miles) 9.1
 2020 Member Count 692
 5 Year Average Member Count 682
 Date of Last Trim 2016
 Date of Next Trim 2023

5 Year Average		2020	
SAIDI	SAIFI	SAIDI	SAIFI
33.42112744	0.611741438	21.76445087	0.657514451

Total Minutes/Frequency	113992.36	2086.5199	15061.00	455.0000
Equipment Fault	1.96%	1.77%	2.55%	2.64%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	33.95%	42.63%	34.41%	23.96%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.01%	0.05%	0.00%	0.00%
Deterioration	0.41%	0.29%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Power Supplier	48.85%	33.36%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	8.55%	16.06%	63.04%	73.41%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	5.60%	5.46%	0.00%	0.00%
Lightning	0.68%	0.38%	0.00%	0.00%
Tree - Non ROW	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Public Accident caused outages. No corrections necessary at this time.



DISTRIBUTION RIGHT-OF-WAY VEGETATION MANAGEMENT 2021 PLAN/ 2020 PLAN REVIEW

April 2021

Blue Grass Energy Vegetation Management Plan

2020 Review of Plan Implementation

Blue Grass Energy developed a formal plan to manage the maintenance of vegetation on distribution rights-of-way (ROW) in 2007/2008. The plans goals were established to provide excellent member service, maintain current tree related reliability, and look for opportunities to increase production and reduce program cost. These plans were continued and improved into 2020.

As stated in the previously submitted Vegetation Management Plan, the plan may be modified from time-to-time based on performance as measured by tree-related service reliability and evaluations of member satisfaction with service reliability. Specific reliability metrics may include Tree SAIFI, trends in customer minutes interrupted by tree-related causes and tree-caused primary interruptions per 100 line miles as internal benchmarks of program performance over time. A Tree-Caused Outage Report summarizes these reliability criteria and is regularly reviewed and monitored daily. Upon reporting of tree related outages, a field investigation is conducted to determine the root cause.

2018-2021 Vegetation Management Strategy

SCHEDULED MAINTENANCE AND CLEARANCE

Blue Grass Energy provides electric service to over 57,000 members through a network of over 4,700 miles of distribution line. Blue Grass Energy uses a cyclic approach to preventive vegetation management of its electric distribution ROW. Different circuits or portions of circuits may be scheduled on different cycles based on site conditions, sensitivity of the line to interruptions caused by trees or criticality of the line. The maintenance cycle for tree removal, tree pruning or brush control may be the same or different for a given scheduling unit. Following pruning and clearance operations, herbicide application is conducted after one full growing season.

As illustrated in Table 1, Blue Grass Energy completed 17 distribution circuits scheduled in 2020 for a total of 697 miles of line completed. In 2021, there are 17 distribution circuits, for a total of 773 miles scheduled for completion. The varying site conditions determine the cost and cause completed miles to vary by year.

Table 1. Blue Grass Energy R/W Miles Scheduled vs. Completed - Trimming

Maintenance Year	2018	2019	2020	2021
Scheduled	685	756	676	773
Completed	658	684	676	TBD

Of the 2018 & 2019 maintenance year mileage, 21 circuits consisting of 979 miles were identified for selective herbicide application and completed in 2020. Herbicide application consisting of 762 miles from the 2020 & 2021 maintenance years are scheduled to be completed in 2021.

Table 2. Blue Grass Energy R/W Miles Scheduled vs. Completed - Herbicide

Maintenance Year - Herbicide	2018	2019	2020	2021
Scheduled	731	697	979	762
Completed	731	697	979	TBD

RELIABILITY

In 2008, Blue Grass Energy developed and implemented an outage investigation process to better understand the cause of tree failures. The data was again used in 2020 to identify species failure rates and help plan future scheduled and non-scheduled work to eliminate potential outages. The investigation of tree related outages will continue through 2021 to collect data on major outage categories.

Historical Blue Grass Energy tree caused outages within the right of way are illustrated in Table 3.

Table 3. Number of Tree-Caused Outages within the ROW on the Blue Grass Energy System†

Year	2016	2017	2018	2019	2020
TOTALS	86	110	142	150	114

†Outages on primary conductor excluding major event days

2020 VEGETATION MANAGEMENT PLAN REVIEW

No Changes were implemented in 2020 to the ROW management plan. The “Distribution Right-Of-Way Vegetation Management Plan” Dated March 2020 reiterated in detail the processes that were built into the plan.

In 2020, 676 trim miles and 979 herbicide miles were completed.

Listed below are some of the processes used in 2020:

1. Continuation of Formal Contractor Evaluation Program. Each contractor will be rated on nine qualitative categories such as customer complaints, quarterly mileage goals, exceptions/ omissions, quality/standards, tools/equipment, unscheduled interruptions/OSHA LWD, contractor cooperation & communication, crew professionalism, and data accuracy.
2. Yearly Revision of formal program policies and procedures and assurance of consistent implementation throughout the system to include additional detailed requirements.
3. Continued yearly revision of a 5-6 year maintenance cycle for the system based on collected field data. In areas where standard clearances cannot be consistently achieved (e.g., subdivisions), mid cycle assessments will be conducted, and cycles adjusted based on those findings. Recommended cycle lengths are guidelines.
4. ISA Certified Arborist Utility Specialist supervisory personnel have adequate utility vegetation management technical expertise and a qualified ISA Certified Assistant Arborist is on staff.

5. Selective use of herbicides to control resprouting from the stumps of removed deciduous trees.
6. Continuation of formal herbicide spray program to control woody species following maintenance pruning.
7. Written notification of property owners of the intent to prune trees and requirement of written permission for "yard" tree removals. We always strive to not allow property owners to influence pruning clearances.
8. The crew labor and equipment complements were adjusted throughout the year to maximize cost effectiveness.
9. Revised and improved the formal work monitoring and completion process. Each circuit is 100 percent audited by ROW supervisory personnel to ensure specifications for clearance and quality are achieved.
10. Records were maintained of key aspects of the ROW vegetation management program to document program performance. This data provides information necessary for ongoing program management and circuit scheduling.
11. Meet requirements for Arbor Day Foundation Tree Line USA certification.

2021 VEGETATION MANAGEMENT PLAN

In addition to continuing the Distribution Right-Of-Way Vegetation Management Plans outlined for 2020 we intend to utilize the following key objectives in the upcoming year:

- Continue Formal Crew Field Audit Evaluation process, at the 100 percent level
- Continue to Uphold National Arbor Day Tree Line USA standards
- Continue to uphold ANSI A300 pruning and Z133 safety standards
- Utilization of vegetation management Best Management Practices as defined by the International Society of Arboriculture.
- Continue to evaluate and increase production and quality with established work force.
- Further inspection and reduction of unnecessary reactive maintenance
- Utilize multiple ROW vegetation maintenance contractors
- Continue with formal herbicide spray program to control woody species following maintenance pruning.
- Evaluate effectiveness of program for using tree growth regulators (TGR) in urban area yard trees and continue use of TGR's in 2021.

Appendix

ROW VEGETATION MAINTENANCE CLEARANCE CYCLE SCHEDULING STRATEGY

The following table summarizes the Blue Grass Energy ROW vegetation maintenance scheduling strategy. Individual circuits may be accelerated or deferred based on assessment of field conditions and operating performance.

Circuit Description	Primary Cycle Length (Years)	Mid-cycle Inspection/selective Tree Maintenance (Years)
Feeder Multi-phase	5-6	2 to 3
Feeder Laterals (single-phase)	5-6	
Industrial Circuits	4-5	Annual inspection and selective maintenance