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Electric Distribution Utility Annual Reliability Report For 2019

March 2020

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@bgenenergy.com
PHONE NUMBER OF PREPARER	(859) 885-2103

SECTION 2: REPORTING YEAR

CALENDAR YEAR OF REPORT	2019
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SECTION 3: MAJOR EVENT DAYS (MED)

T_{MED}	11.38
FIRST DATE USED TO DETERMINE T_{MED}	January 1 2014
LAST DATE USED TO DETERMINE T_{MED}	December 31 2018
NUMBER OF MED IN REPORT YEAR	3

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	57854	TOTAL CIRCUITS	136
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Excluding MED

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	126.93	SAIDI	130.19
SAIFI	1.0921	SAIFI	1.1387

Including MED

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	214.46	SAIDI	169.64
SAIFI	1.3048	SAIFI	1.3050

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

37-114

Substation Name and Number	3M	37
Substation Location	Hwy 982, Cynthiana, KY 41031	
Circuit Name and Number	3M	114
Circuit Location	3M Plant	
Total Circuit Length (Miles)	0.4	
2019 Member Count	1	
5 Year Average Member Count	1	
Date of Last Trim	December-14	
Date of Next Trim	2023	

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
58.2	0.4	106	1

Total Minutes/Frequency	291.00	2.0000	106.00	1.0000
Equipment Fault	100.00%	100.00%	100.00%	100.00%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	0.00%	0.00%	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	0.00%	0.00%	0.00%	0.00%
Lightning	0.00%	0.00%	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.

41-104

Substation Name and Number 3M #2 41
 Substation Location Hwy 982, Cynthia, KY 41031
 Circuit Name and Number 3M #2 104
 Circuit Location Webbers
 Total Circuit Length (Miles) 42.1
 2019 Member Count 704
 5 Year Average Member Count 685
 Date of Last Trim December-18
 Date of Next Trim 2024

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
131.998773	1.676514141	321.6079545	3.323863636

Total Minutes/Frequency	452091.00	5742.0000	226412.00	2340.0000
Equipment Fault	21.91%	26.40%	34.61%	50.94%
Wind	3.25%	4.09%	6.43%	9.96%
Small Animal	6.69%	7.07%	0.11%	0.21%
Squirrel	0.25%	0.35%	0.00%	0.00%
Unknown Cause	1.46%	1.72%	0.00%	0.00%
Deterioration	0.11%	0.19%	0.00%	0.00%
Scheduled	0.37%	0.35%	0.09%	0.13%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.09%	0.10%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	1.83%	3.03%	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	0.33%	0.38%	0.00%	0.00%
Tree - ROW	32.35%	18.01%	51.44%	29.74%
Lightning	23.94%	32.22%	3.80%	6.54%
Tree - Non ROW	6.10%	4.35%	3.52%	2.48%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	1.31%	1.72%	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 3M #2 41
 Substation Location Hwy 982, Cynthiana, KY 41031
 Circuit Name and Number 3M #2 144
 Circuit Location Hospital
 Total Circuit Length (Miles) 1.7
 2019 Member Count 5
 5 Year Average Member Count 5
 Date of Last Trim November-15
 Date of Next Trim 2021

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
12.16853789	0.205549626	14	0.4

Total Minutes/Frequency	296.00	5.0000	70.00	2.0000
Equipment Fault	0.00%	0.00%	0.00%	0.00%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	20.27%	20.00%	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	56.08%	40.00%	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	23.65%	40.00%	100.00%	100.00%
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	0.00%	0.00%	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.

10-124

Substation Name and Number	ALCAN 1	10
Substation Location	306 Mayde Road, Berea, KY 40403	
Circuit Name and Number	ALCAN 1	124
Circuit Location	Mayde Rd/MENASHA KI USA	
Total Circuit Length (Miles)	3.7	
2019 Member Count	40	
5 Year Average Member Count	43	
Date of Last Trim	January-18	
Date of Next Trim	2022	

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
50.81814159	0.813053097	38.325	1.1

Total Minutes/Frequency	10938.00	175.0000	1533.00	44.0000
Equipment Fault	4.68%	2.29%	27.79%	6.82%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	27.11%	39.43%	72.21%	93.18%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Deterioration	37.12%	16.00%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	18.10%	25.71%	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	12.99%	16.57%	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:

No corrections necessary at this time.

31-114

Substation Name and Number BRACKEN_COUNTY 31
 Substation Location 61 New Zion Rd, Foster, KY 41043
 Circuit Name and Number BRACKEN_COUNTY 114
 Circuit Location Lenoxburg
 Total Circuit Length (Miles) 85.9
 2019 Member Count 660
 5 Year Average Member Count 657
 Date of Last Trim December-13
 Date of Next Trim 2020

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
101.0477063	0.70336595	111.7348485	0.937878788

Total Minutes/Frequency	332149.00	2312.0000	73745.00	619.0000
Equipment Fault	13.06%	9.95%	2.80%	2.58%
Wind	8.44%	4.41%	20.61%	8.08%
Small Animal	2.79%	4.33%	3.01%	4.68%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	5.12%	9.13%	7.00%	10.34%
Deterioration	4.42%	4.71%	15.65%	11.95%
Scheduled	0.93%	2.03%	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	6.58%	11.46%	6.59%	14.38%
Ice/Snow	0.95%	0.91%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	3.68%	8.65%	16.57%	32.31%
Tree - ROW	3.13%	2.81%	13.77%	10.02%
Lightning	6.58%	5.84%	0.15%	0.16%
Tree - Non ROW	43.30%	34.17%	13.84%	5.49%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	1.04%	1.60%	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.

42-244

Substation Name and Number	BRIDGEPORT #2	42
Substation Location	218 Taylor Branch Rd., Frankfort, KY 40601	
Circuit Name and Number	BRIDGEPORT #2	244
Circuit Location	Coolbrook	
Total Circuit Length (Miles)	37.3	
2019 Member Count	1084	
5 Year Average Member Count	1066	
Date of Last Trim	August-18	
Date of Next Trim	2024	

	5 Year Average		2019	
	SAIDI	SAIFI	SAIDI	SAIFI
	187.4741795	1.68439634	194.699262	1.583948339

Total Minutes/Frequency	999596.60	8981.0600	211054.00	1717.0000
Equipment Fault	16.93%	17.88%	46.24%	45.89%
Wind	10.91%	12.60%	4.32%	2.56%
Small Animal	3.95%	7.00%	1.48%	3.32%
Squirrel	0.30%	0.56%	0.00%	0.00%
Unknown Cause	0.84%	1.41%	2.72%	4.72%
Deterioration	0.51%	0.66%	0.05%	0.12%
Scheduled	1.16%	2.04%	0.58%	0.52%
Power Supplier	6.23%	11.56%	0.00%	0.00%
Bird	0.03%	0.06%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	1.09%	2.05%	0.00%	0.00%
Ice/Snow	4.23%	1.51%	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	5.30%	3.21%	0.06%	0.12%
Lightning	25.32%	19.12%	27.22%	30.34%
Tree - Non ROW	22.58%	18.46%	17.32%	12.41%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.63%	1.88%	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	CLAY_LICK	26
Substation Location	5627 Louisville, Rd., Salvisa, KY	40372
Circuit Name and Number	CLAY_LICK	124
Circuit Location	Mccouns Ferry	
Total Circuit Length (Miles)	72.8	
2019 Member Count	629	
5 Year Average Member Count	616	
Date of Last Trim	December-14	
Date of Next Trim	2021	

	5 Year Average		2019	
	SAIDI	SAIFI	SAIDI	SAIFI
	127.9053009	0.946105141	332.2988871	2.103338633
Total Minutes/Frequency	394083.00	2915.0000	209016.00	1323.0000
Equipment Fault	2.31%	3.95%	0.33%	0.45%
Wind	17.58%	10.94%	23.56%	15.42%
Small Animal	5.42%	10.46%	3.51%	8.77%
Squirrel	0.77%	0.75%	0.00%	0.08%
Unknown Cause	1.40%	2.92%	0.42%	0.60%
Deterioration	0.45%	1.03%	0.00%	0.00%
Scheduled	0.03%	0.10%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.27%	0.58%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.22%	0.45%	0.16%	0.60%
Ice/Snow	2.97%	0.86%	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	5.36%	8.92%	2.90%	4.76%
Lightning	38.91%	34.03%	54.68%	48.68%
Tree - Non ROW	24.27%	24.97%	14.45%	20.63%
Large Animal	0.03%	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:

Storm related outages. No corrections necessary at this time.

32-104

Substation Name and Number COLEMANSVILLE 32
 Substation Location Corner of HWY 1032 & 1054, Berry, KY 41003
 Circuit Name and Number COLEMANSVILLE 104
 Circuit Location Morgan Marcus
 Total Circuit Length (Miles) 111.8
 2019 Member Count 784
 5 Year Average Member Count 772
 Date of Last Trim June-19
 Date of Next Trim 2025

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
273.4884032	1.910428955	575.3673469	3.415816327

Total Minutes/Frequency	1055056.00	7370.0000	451088.00	2678.0000
Equipment Fault	21.11%	14.40%	44.42%	32.82%
Wind	4.89%	3.65%	7.98%	3.55%
Small Animal	1.25%	1.87%	0.49%	0.82%
Squirrel	0.07%	0.11%	0.00%	0.00%
Unknown Cause	3.83%	14.33%	4.66%	7.77%
Deterioration	3.41%	1.66%	7.61%	3.96%
Scheduled	9.84%	12.42%	20.37%	24.68%
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	1.99%	2.39%	0.02%	0.04%
Ice/Snow	0.22%	0.08%	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	3.57%	1.79%	0.00%	0.00%
Lightning	23.39%	19.93%	0.85%	4.33%
Tree - Non ROW	20.44%	15.70%	10.47%	18.11%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	6.00%	11.68%	3.13%	3.92%
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.

32-124

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) 72.1
 2019 Member Count 580
 5 Year Average Member Count 571
 Date of Last Trim December-18
 Date of Next Trim 2024

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
186.1165577	1.438350188	216.9775862	1.494827586

Total Minutes/Frequency	531170.00	4105.0000	125847.00	867.0000
Equipment Fault	30.73%	19.32%	30.09%	26.30%
Wind	10.79%	12.74%	29.86%	32.06%
Small Animal	4.45%	7.82%	0.94%	2.08%
Squirrel	0.02%	0.07%	0.00%	0.00%
Unknown Cause	5.44%	9.18%	0.00%	0.00%
Deterioration	4.05%	3.39%	0.64%	1.38%
Scheduled	0.54%	0.61%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.04%	0.07%	0.00%	0.00%
Overload	0.01%	0.02%	0.00%	0.00%
Public Accident	6.94%	5.94%	0.12%	0.23%
Ice/Snow	0.10%	0.17%	0.00%	0.00%
Fire	0.42%	0.27%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	3.93%	1.80%	0.00%	0.00%
Lightning	28.20%	32.81%	22.00%	18.11%
Tree - Non ROW	3.88%	4.26%	14.38%	12.69%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.47%	1.51%	1.97%	7.15%
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.

13-114

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) 69.1
 2019 Member Count 641
 5 Year Average Member Count 633
 Date of Last Trim November-14
 Date of Next Trim 2021

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
65.20559711	0.598036884	62.84087363	0.68798752

Total Minutes/Frequency	206508.00	1894.0000	40281.00	441.0000
Equipment Fault	5.68%	7.55%	6.92%	7.26%
Wind	1.30%	1.85%	0.00%	0.00%
Small Animal	21.60%	28.83%	46.43%	46.49%
Squirrel	0.89%	1.58%	0.00%	0.00%
Unknown Cause	7.44%	11.77%	19.81%	26.08%
Deterioration	2.74%	4.75%	0.16%	0.23%
Scheduled	0.42%	0.95%	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	12.02%	10.03%	0.00%	0.00%
Ice/Snow	8.77%	3.12%	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	11.50%	8.45%	6.31%	6.35%
Lightning	6.54%	7.81%	0.34%	0.68%
Tree - Non ROW	19.69%	11.62%	20.04%	12.93%
Large Animal	1.42%	1.69%	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	CROOKSVILLE	13
Substation Location	765 Crooksville Rd., Richmond, KY 40475	
Circuit Name and Number	CROOKSVILLE	124
Circuit Location	Ogg Lane	
Total Circuit Length (Miles)	53.7	
2019 Member Count	700	
5 Year Average Member Count	692	
Date of Last Trim	February-15	
Date of Next Trim	2021	

	5 Year Average		2019	
	SAIDI	SAIFI	SAIDI	SAIFI
	50.1007114	0.401037003	97.65285714	0.782857143
Total Minutes/Frequency	173275.00	1387.0000	68357.00	548.0000
Equipment Fault	3.80%	2.88%	0.36%	0.55%
Wind	9.69%	5.98%	15.96%	9.67%
Small Animal	18.44%	19.03%	3.93%	10.04%
Squirrel	0.75%	1.87%	0.29%	0.55%
Unknown Cause	5.70%	8.58%	3.57%	6.75%
Deterioration	0.09%	0.29%	0.02%	0.18%
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	0.03%	0.14%	0.00%	0.00%
Ice/Snow	8.28%	12.18%	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	5.85%	13.19%	11.11%	26.28%
Lightning	1.69%	2.96%	0.77%	0.55%
Tree - Non ROW	45.56%	32.44%	63.97%	45.44%
Large Animal	0.11%	0.43%	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	124
Circuit Location	Delong Rd	
Total Circuit Length (Miles)	15.7	
2019 Member Count	160	
5 Year Average Member Count	166	
Date of Last Trim	December-19	
Date of Next Trim	2023	

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
113.6699468	2.05123413	141.9	3.93125

Total Minutes/Frequency	94317.00	1702.0000	22704.00	629.0000
Equipment Fault	8.49%	19.80%	1.55%	0.79%
Wind	16.09%	5.17%	0.00%	0.00%
Small Animal	22.99%	19.45%	5.66%	2.38%
Squirrel	4.95%	5.17%	0.00%	0.00%
Unknown Cause	5.77%	5.17%	12.98%	7.00%
Deterioration	1.30%	0.24%	0.00%	0.00%
Scheduled	0.16%	0.24%	0.56%	0.16%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.14%	0.12%	0.26%	0.16%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	8.98%	28.44%	28.92%	74.56%
Ice/Snow	8.70%	2.82%	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	16.72%	8.11%	50.06%	14.94%
Lightning	5.73%	5.29%	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:

Circuit Trimmed at end of 2019. 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)	5.0	
2019 Member Count	297	
5 Year Average Member Count	308	
Date of Last Trim	December-15	
Date of Next Trim	2020	

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
94.52134137	1.099847869	118.7239057	1.414141414

Total Minutes/Frequency	145583.00	1694.0000	35261.00	420.0000
Equipment Fault	33.24%	25.09%	86.55%	70.71%
Wind	4.06%	3.84%	0.00%	0.00%
Small Animal	20.76%	34.30%	3.88%	8.81%
Squirrel	0.10%	0.12%	0.00%	0.00%
Unknown Cause	2.63%	3.42%	0.00%	0.00%
Deterioration	2.53%	2.24%	0.00%	0.00%
Scheduled	2.07%	3.13%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.17%	0.30%	0.48%	0.71%
Overload	0.38%	0.24%	0.00%	0.00%
Public Accident	1.68%	1.18%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.29%	0.41%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	28.86%	19.95%	4.04%	10.95%
Lightning	1.53%	2.77%	0.00%	0.00%
Tree - Non ROW	1.70%	3.01%	5.04%	8.81%
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 FAYETTE1 5
 Substation Location 2442 Armstrong Mill, Lexington, KY 40515
 Circuit Name and Number FAYETTE1 104
 Circuit Location Squires Rd-Right
 Total Circuit Length (Miles) 14.4
 2019 Member Count 692
 5 Year Average Member Count 685
 Date of Last Trim March-18
 Date of Next Trim 2022

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
35.20454051	0.266853681	53.1517341	0.24132948

Total Minutes/Frequency	120579.00	914.0000	36781.00	167.0000
Equipment Fault	41.49%	32.49%	38.71%	14.37%
Wind	11.57%	4.60%	37.52%	22.16%
Small Animal	11.27%	24.07%	4.23%	23.95%
Squirrel	4.61%	7.00%	0.00%	0.00%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Deterioration	9.59%	6.78%	0.93%	1.80%
Scheduled	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.03%	0.33%	0.09%	1.80%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.45%	0.22%	1.49%	1.20%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	6.78%	5.03%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	5.35%	6.78%	17.03%	34.73%
Lightning	4.86%	6.35%	0.00%	0.00%
Tree - Non ROW	3.99%	6.35%	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	FAYETTE1	5
Substation Location	2442 Armstrong Mill, Lexington, KY 40515	
Circuit Name and Number	FAYETTE1	134
Circuit Location	Armstrong Mill	
Total Circuit Length (Miles)	7.0	
2019 Member Count	816	
5 Year Average Member Count	808	
Date of Last Trim	March-18	
Date of Next Trim	2022	

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
28.80576833	0.229521129	65.03308824	0.446078431

Total Minutes/Frequency	116342.00	927.0000	53067.00	364.0000
Equipment Fault	59.78%	46.82%	92.92%	90.38%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	35.64%	47.25%	0.41%	1.10%
Squirrel	0.48%	1.19%	0.37%	0.82%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Deterioration	0.24%	0.11%	0.00%	0.00%
Scheduled	1.61%	1.40%	3.53%	3.57%
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	0.70%	0.97%	1.54%	2.47%
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	0.46%	0.76%	0.00%	0.00%
Lightning	0.21%	0.43%	0.00%	0.00%
Tree - Non ROW	0.90%	1.08%	1.23%	1.65%
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 FAYETTE1 5
 Substation Location 2442 Armstrong Mill, Lexington, KY 40515
 Circuit Name and Number FAYETTE1 144
 Circuit Location Squire Rd-Left
 Total Circuit Length (Miles) 7.2
 2019 Member Count 554
 5 Year Average Member Count 548
 Date of Last Trim April-18
 Date of Next Trim 2022

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
87.01711742	0.734120087	138.734657	0.752707581

Total Minutes/Frequency	238606.00	2013.0000	76859.00	417.0000
Equipment Fault	56.91%	54.15%	88.47%	82.25%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	3.47%	6.46%	1.58%	3.60%
Squirrel	0.86%	1.64%	0.00%	0.00%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Deterioration	0.19%	0.40%	0.00%	0.00%
Scheduled	0.35%	2.43%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.16%	0.15%	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	20.26%	21.81%	9.67%	13.43%
Lightning	7.01%	6.46%	0.00%	0.00%
Tree - Non ROW	10.78%	6.51%	0.28%	0.72%
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 FAYETTE2 6
 Substation Location 2442 Armstrong Mill, Lexington, KY 40515
 Circuit Name and Number FAYETTE2 114
 Circuit Location Hartland
 Total Circuit Length (Miles) 10.8
 2019 Member Count 692
 5 Year Average Member Count 692
 Date of Last Trim December-16
 Date of Next Trim 2020

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
34.33313408	0.898792826	37.41618497	1.047687861

Total Minutes/Frequency	118723.00	3108.0000	25892.00	725.0000
Equipment Fault	21.25%	5.05%	16.13%	3.72%
Wind	17.67%	22.20%	0.00%	0.00%
Small Animal	9.63%	24.29%	0.22%	0.28%
Squirrel	0.11%	0.06%	0.00%	0.00%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Deterioration	0.42%	0.10%	0.00%	0.00%
Scheduled	32.67%	25.90%	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	0.78%	0.16%	3.59%	0.69%
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	0.00%	0.00%	0.00%	0.00%
Lightning	0.00%	0.00%	0.00%	0.00%
Tree - Non ROW	17.46%	22.23%	80.06%	95.31%
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	FAYETTE2	6
Substation Location	2442 Armstrong Mill, Lexington, KY 40515	
Circuit Name and Number	FAYETTE2	124
Circuit Location	Armstrong Mill	
Total Circuit Length (Miles)	6.4	
2019 Member Count	1064	
5 Year Average Member Count	1063	
Date of Last Trim	December-16	
Date of Next Trim	2020	

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
103.6906774	0.926106853	191.6907895	1.14943609

Total Minutes/Frequency	551311.00	4924.0000	203959.00	1223.0000
Equipment Fault	42.25%	24.90%	5.14%	12.10%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	35.12%	21.99%	94.42%	87.00%
Squirrel	0.02%	0.06%	0.00%	0.00%
Unknown Cause	0.50%	1.08%	0.38%	0.82%
Deterioration	2.27%	4.45%	0.00%	0.00%
Scheduled	0.57%	4.57%	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	19.28%	42.95%	0.06%	0.08%
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	0.00%	0.00%	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:

No corrections necessary at this time.

Substation Name and Number	FOUR_OAKS	33
Substation Location	4255 Hwy. 27 South, Falmouth, KY	41040
Circuit Name and Number	FOUR_OAKS	104
Circuit Location	Broadford	
Total Circuit Length (Miles)	40.5	
2019 Member Count	216	
5 Year Average Member Count	212	
Date of Last Trim	November-17	
Date of Next Trim	2023	

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
108.3396038	0.733742942	96.96759259	0.861111111

Total Minutes/Frequency	114579.00	776.0000	20945.00	186.0000
Equipment Fault	19.75%	25.52%	4.70%	20.43%
Wind	15.66%	7.47%	0.00%	0.00%
Small Animal	3.79%	6.31%	1.42%	1.08%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	4.13%	4.51%	16.26%	10.22%
Deterioration	13.99%	8.38%	0.00%	0.00%
Scheduled	0.06%	0.13%	0.31%	0.54%
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	1.17%	2.19%	0.00%	0.00%
Ice/Snow	0.11%	0.52%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	6.23%	4.77%	34.09%	19.89%
Tree - ROW	8.48%	11.47%	32.64%	28.49%
Lightning	9.08%	15.85%	0.88%	0.54%
Tree - Non ROW	17.56%	12.89%	9.69%	18.82%
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:

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

33-114

Substation Name and Number FOUR_OAKS 33
Substation Location 4255 Hwy. 27 South, Falmouth, KY 41040
Circuit Name and Number FOUR_OAKS 114
Circuit Location Morgan
Total Circuit Length (Miles) 85.7
2019 Member Count 974
5 Year Average Member Count 954
Date of Last Trim October-16
Date of Next Trim 2022

	5 Year Average		2019	
	SAIDI	SAIFI	SAIDI	SAIFI
	186.1155072	1.479779911	310.5770021	1.784394251
Total Minutes/Frequency	887576.00	7057.0000	302502.00	1738.0000
Equipment Fault	7.17%	9.58%	5.30%	6.73%
Wind	2.21%	3.36%	0.35%	1.04%
Small Animal	2.06%	3.83%	1.94%	3.62%
Squirrel	0.02%	0.06%	0.00%	0.00%
Unknown Cause	1.44%	3.13%	0.30%	0.58%
Deterioration	31.98%	19.57%	75.56%	58.06%
Scheduled	2.44%	4.69%	1.84%	5.12%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.56%	0.44%	0.00%	0.00%
Overload	1.44%	2.17%	1.55%	4.89%
Public Accident	8.68%	6.43%	2.17%	2.82%
Ice/Snow	0.66%	0.50%	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	0.02%	0.03%	0.00%	0.00%
Lightning	7.73%	10.05%	9.06%	15.82%
Tree - Non ROW	33.50%	35.92%	1.92%	1.32%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.09%	0.26%	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	FOUR_OAKS	33
Substation Location	4255 Hwy. 27 South, Falmouth, KY	41040
Circuit Name and Number	FOUR_OAKS	124
Circuit Location	Sunrise	
Total Circuit Length (Miles)	137.1	
2019 Member Count	766	
5 Year Average Member Count	750	
Date of Last Trim	November-17	
Date of Next Trim	2023	

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
99.77866132	0.672971306	122.7088773	0.852480418

Total Minutes/Frequency	374223.00	2524.0000	93995.00	653.0000
Equipment Fault	3.81%	4.71%	0.39%	0.31%
Wind	2.79%	4.52%	6.86%	12.86%
Small Animal	6.87%	15.10%	1.37%	6.74%
Squirrel	0.03%	0.12%	0.00%	0.00%
Unknown Cause	2.28%	3.53%	0.03%	0.15%
Deterioration	22.05%	16.92%	30.50%	17.15%
Scheduled	2.79%	4.36%	10.81%	15.16%
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	11.12%	9.47%	4.38%	3.37%
Ice/Snow	6.30%	3.41%	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	2.99%	3.76%	0.00%	0.00%
Lightning	8.25%	9.35%	7.50%	6.74%
Tree - Non ROW	30.71%	24.76%	38.15%	37.52%
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	FOUR_OAKS	33
Substation Location	4255 Hwy. 27 South, Falmouth, KY 41040	
Circuit Name and Number	FOUR_OAKS	134
Circuit Location	Hammer	
Total Circuit Length (Miles)	4.0	
2019 Member Count	20	
5 Year Average Member Count	20	
Date of Last Trim	August-16	
Date of Next Trim	2022	

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
56.25728165	0.980341085	123.9	2.5

Total Minutes/Frequency	5509.00	96.0000	2478.00	50.0000
Equipment Fault	35.72%	42.71%	79.42%	82.00%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	12.63%	15.63%	6.78%	12.00%
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	23.45%	19.79%	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	20.57%	14.58%	13.80%	6.00%
Tree - Non ROW	7.62%	7.29%	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.

36-104

Substation Name and Number HEADQUARTERS 36
 Substation Location 2195 Saltwell Hedquarters, Rd., Carlisle, KY 40311
 Circuit Name and Number HEADQUARTERS 104
 Circuit Location V3-1 US 68
 Total Circuit Length (Miles) 9.7
 2019 Member Count 71
 5 Year Average Member Count 70
 Date of Last Trim June-16
 Date of Next Trim 2022

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
42.38135306	0.621000644	51.28169014	0.492957746

Total Minutes/Frequency	14929.57	218.7583	3641.00	35.0000
Equipment Fault	1.15%	0.46%	0.00%	0.00%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	18.04%	15.09%	5.05%	5.71%
Squirrel	8.14%	6.86%	0.00%	0.00%
Unknown Cause	15.02%	14.17%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Scheduled	0.26%	1.37%	0.00%	0.00%
Power Supplier	9.80%	34.17%	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	1.13%	2.29%	4.64%	14.29%
Lightning	46.46%	25.60%	90.30%	80.00%
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:

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	114
Circuit Location	Arthur Road	
Total Circuit Length (Miles)	29.2	
2019 Member Count	159	
5 Year Average Member Count	158	
Date of Last Trim	July-17	
Date of Next Trim	2023	

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
266.5863719	1.298549097	537.3144654	1.635220126

Total Minutes/Frequency	210304.81	1024.4001	85433.00	260.0000
Equipment Fault	21.66%	22.65%	23.49%	46.92%
Wind	28.31%	10.45%	69.45%	39.62%
Small Animal	0.70%	2.64%	0.17%	0.77%
Squirrel	0.03%	0.20%	0.00%	0.00%
Unknown Cause	0.94%	2.64%	0.00%	0.00%
Deterioration	4.96%	8.30%	0.00%	0.00%
Scheduled	0.19%	0.49%	0.00%	0.00%
Power Supplier	3.06%	14.97%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	4.49%	5.95%	0.00%	0.00%
Public Accident	1.59%	1.85%	0.00%	0.00%
Ice/Snow	0.16%	0.10%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.17%	0.39%	0.00%	0.00%
Tree - ROW	0.78%	1.37%	0.00%	0.00%
Lightning	27.67%	22.26%	6.89%	12.69%
Tree - Non ROW	5.29%	5.76%	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	HEADQUARTERS	36
Substation Location	2195 Saltwell Hedquarters, Rd., Carlisle, KY 40311	
Circuit Name and Number	HEADQUARTERS	144
Circuit Location	Kentontown	
Total Circuit Length (Miles)	121.0	
2019 Member Count	718	
5 Year Average Member Count	712	
Date of Last Trim	December-19	
Date of Next Trim	2025	

	5 Year Average		2019	
	SAIDI	SAIFI	SAIDI	SAIFI
	288.3899815	1.939994275	679.4721448	4.540389972
Total Minutes/Frequency	1027350.75	6910.9702	487861.00	3260.0000
Equipment Fault	42.29%	41.92%	27.22%	52.39%
Wind	1.69%	1.82%	0.00%	0.00%
Small Animal	4.72%	7.60%	0.20%	0.74%
Squirrel	0.34%	0.42%	0.00%	0.00%
Unknown Cause	0.24%	0.49%	0.00%	0.00%
Deterioration	0.43%	0.78%	0.00%	0.00%
Scheduled	0.42%	1.71%	0.22%	1.01%
Power Supplier	2.73%	9.67%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	7.64%	7.94%	11.28%	10.31%
Ice/Snow	1.21%	1.30%	0.00%	0.00%
Fire	0.01%	0.01%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	2.15%	2.91%	0.00%	0.00%
Lightning	5.05%	4.04%	1.29%	0.89%
Tree - Non ROW	31.09%	19.39%	59.79%	34.66%
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 104
 Circuit Location Old US 25
 Total Circuit Length (Miles) 18.7
 2019 Member Count 305
 5 Year Average Member Count 294
 Date of Last Trim May-18
 Date of Next Trim 2024

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
25.25359655	0.387377218	36.43278689	0.485245902

Total Minutes/Frequency	37159.00	570.0000	11112.00	148.0000
Equipment Fault	4.72%	3.51%	11.34%	6.08%
Wind	0.06%	0.18%	0.20%	0.68%
Small Animal	16.73%	19.82%	11.09%	20.95%
Squirrel	0.14%	0.18%	0.00%	0.00%
Unknown Cause	5.62%	5.44%	14.65%	13.51%
Deterioration	44.56%	46.32%	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	1.11%	0.70%	0.00%	0.00%
Public Accident	5.67%	10.18%	18.97%	39.19%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	1.11%	0.53%	0.00%	0.00%
Sag/Clearance	2.10%	1.93%	0.00%	0.00%
Tree - ROW	0.44%	0.35%	1.48%	1.35%
Lightning	3.69%	4.04%	0.00%	0.00%
Tree - Non ROW	14.03%	6.84%	42.28%	18.24%
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 144
 Circuit Location Silver Creek/Rainbow Sub
 Total Circuit Length (Miles) 24.2
 2019 Member Count 728
 5 Year Average Member Count 702
 Date of Last Trim December-14
 Date of Next Trim 2020

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
84.61213315	0.949277693	158.4711538	1.767857143

Total Minutes/Frequency	297170.00	3334.0000	115367.00	1287.0000
Equipment Fault	7.88%	6.93%	1.97%	1.79%
Wind	11.63%	6.39%	29.38%	15.31%
Small Animal	9.30%	15.99%	4.59%	9.01%
Squirrel	0.11%	0.15%	0.00%	0.00%
Unknown Cause	0.31%	0.45%	0.00%	0.00%
Deterioration	1.96%	2.76%	4.91%	6.99%
Scheduled	1.81%	2.22%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.01%	0.03%	0.00%	0.00%
Public Accident	18.08%	21.18%	0.00%	0.00%
Ice/Snow	11.74%	6.00%	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	7.51%	8.04%	6.20%	9.40%
Lightning	2.86%	2.31%	2.80%	1.32%
Tree - Non ROW	26.79%	27.56%	50.14%	56.18%
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 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) 12.8
 2019 Member Count 454
 5 Year Average Member Count 438
 Date of Last Trim May-18
 Date of Next Trim 2024

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
78.04167472	0.869300942	132.9251101	1.405286344

Total Minutes/Frequency	170932.00	1904.0000	60348.00	638.0000
Equipment Fault	2.85%	2.26%	0.53%	0.47%
Wind	26.18%	29.36%	69.11%	76.65%
Small Animal	6.58%	11.08%	0.13%	0.63%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	4.40%	5.62%	0.63%	0.78%
Deterioration	1.80%	1.89%	0.00%	0.00%
Scheduled	1.77%	2.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.18%	1.58%	0.50%	4.70%
Public Accident	6.06%	3.62%	17.15%	10.82%
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	12.11%	9.09%	10.96%	5.49%
Lightning	26.94%	23.58%	0.00%	0.00%
Tree - Non ROW	10.61%	8.09%	0.99%	0.47%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.53%	1.84%	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	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)	37.9	
2019 Member Count	351	
5 Year Average Member Count	344	
Date of Last Trim	March-17	
Date of Next Trim	2023	

	5 Year Average		2019	
	SAIDI	SAIFI	SAIDI	SAIFI
	74.47472046	0.719343215	30.2962963	1.284900285

Total Minutes/Frequency	127965.00	1236.0000	10634.00	451.0000
Equipment Fault	2.61%	2.99%	9.57%	2.88%
Wind	0.05%	0.08%	0.00%	0.00%
Small Animal	3.32%	5.50%	6.31%	2.00%
Squirrel	0.14%	0.16%	0.00%	0.00%
Unknown Cause	0.54%	0.73%	6.44%	2.00%
Deterioration	0.44%	0.49%	1.27%	0.22%
Scheduled	2.85%	10.19%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	3.33%	3.40%	0.00%	0.00%
Public Accident	4.26%	32.52%	50.82%	88.91%
Ice/Snow	0.19%	0.08%	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	4.23%	2.02%	2.26%	0.44%
Lightning	15.50%	9.47%	3.19%	0.67%
Tree - Non ROW	62.52%	32.20%	20.14%	2.88%
Large Animal	0.03%	0.16%	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.

39-104

Substation Name and Number JACKSONVILLE 39
 Substation Location 1386 Russell Cave Rd., Cynthiana, KY 41031
 Circuit Name and Number JACKSONVILLE 104
 Circuit Location Broadwell
 Total Circuit Length (Miles) 25.1
 2019 Member Count 154
 5 Year Average Member Count 156
 Date of Last Trim April-14
 Date of Next Trim 2021

	5 Year Average		2019	
	SAIDI	SAIFI	SAIDI	SAIFI
	83.07655959	0.768752073	110.5844156	0.798701299

Total Minutes/Frequency	64732.00	599.0000	17030.00	123.0000
Equipment Fault	14.39%	13.86%	0.00%	0.00%
Wind	1.21%	1.00%	4.62%	4.88%
Small Animal	2.58%	4.51%	0.12%	0.81%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.34%	0.67%	0.00%	0.00%
Deterioration	0.17%	0.67%	0.00%	0.00%
Scheduled	1.56%	5.84%	0.00%	0.00%
Power Supplier	1.58%	6.34%	0.00%	0.00%
Bird	0.18%	0.33%	0.00%	0.00%
Overload	0.10%	0.17%	0.37%	0.81%
Public Accident	19.02%	21.20%	29.91%	39.02%
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	13.60%	7.85%	50.80%	37.40%
Lightning	20.38%	23.87%	14.18%	17.07%
Tree - Non ROW	24.57%	13.02%	0.00%	0.00%
Large Animal	0.32%	0.67%	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:

ROW repaired at time of outage. 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)	91.8	
2019 Member Count	646	
5 Year Average Member Count	654	
Date of Last Trim	August-13	
Date of Next Trim	2020	

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
60.88427257	0.525312791	66.87616099	0.569659443

Total Minutes/Frequency	199002.00	1717.0000	43202.00	368.0000
Equipment Fault	26.20%	25.74%	5.58%	4.89%
Wind	2.36%	2.68%	3.70%	4.62%
Small Animal	4.54%	8.68%	0.94%	2.99%
Squirrel	0.73%	0.99%	0.00%	0.00%
Unknown Cause	20.30%	16.54%	17.33%	14.13%
Deterioration	0.74%	2.39%	0.83%	2.17%
Scheduled	2.90%	6.81%	9.06%	18.75%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.80%	0.87%	0.00%	0.00%
Overload	0.07%	0.12%	0.00%	0.00%
Public Accident	1.49%	3.55%	1.45%	1.36%
Ice/Snow	0.11%	0.35%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	1.23%	1.63%	0.00%	0.00%
Tree - ROW	22.09%	15.43%	12.32%	14.13%
Lightning	4.74%	6.70%	9.50%	15.49%
Tree - Non ROW	11.38%	6.93%	39.28%	21.47%
Large Animal	0.32%	0.58%	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	JACKSONVILLE	39
Substation Location	1386 Russell Cave Rd., Cynthiana, KY 41031	
Circuit Name and Number	JACKSONVILLE	124
Circuit Location	Silas	
Total Circuit Length (Miles)	26.7	
2019 Member Count	206	
5 Year Average Member Count	208	
Date of Last Trim	November-19	
Date of Next Trim	2025	

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
85.86988193	0.83854121	156.407767	1.791262136

Total Minutes/Frequency	89501.00	874.0000	32220.00	369.0000
Equipment Fault	28.04%	34.44%	56.88%	59.08%
Wind	13.86%	13.27%	27.03%	17.62%
Small Animal	8.23%	10.18%	1.17%	3.52%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	7.10%	10.64%	0.00%	0.00%
Deterioration	14.22%	9.61%	2.07%	1.36%
Scheduled	0.79%	1.72%	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	0.36%	0.23%	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	0.96%	0.57%	0.84%	0.81%
Lightning	8.10%	8.58%	10.20%	12.20%
Tree - Non ROW	17.69%	8.47%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.65%	2.29%	1.80%	5.42%
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) 62.0
 2019 Member Count 452
 5 Year Average Member Count 466
 Date of Last Trim November-16
 Date of Next Trim 2022

5 Year Average **2019**
SAIDI **SAIFI** **SAIDI** **SAIFI**
 115.5989812 1.132701927 307.5154867 1.89380531

Total Minutes/Frequency	269296.82	2638.7173	138997.00	856.0000
Equipment Fault	38.84%	18.23%	72.52%	52.57%
Wind	13.67%	12.47%	0.00%	0.00%
Small Animal	5.48%	7.12%	0.72%	1.99%
Squirrel	1.47%	1.52%	0.00%	0.00%
Unknown Cause	2.77%	3.75%	1.87%	4.91%
Deterioration	0.24%	0.34%	0.00%	0.00%
Scheduled	0.40%	0.42%	0.15%	0.23%
Power Supplier	13.14%	32.62%	0.00%	0.00%
Bird	0.57%	0.72%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	1.27%	1.74%	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	0.03%	0.04%	0.00%	0.00%
Tree - ROW	1.32%	1.74%	0.00%	0.00%
Lightning	3.57%	4.81%	0.49%	0.82%
Tree - Non ROW	17.24%	14.48%	24.25%	39.49%
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	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	
2019 Member Count	20	
5 Year Average Member Count	20	
Date of Last Trim	January-16	
Date of Next Trim	2021	

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
41.97362319	0.60557971	108.9	1.85

Total Minutes/Frequency	4228.00	61.0000	2178.00	37.0000
Equipment Fault	0.00%	0.00%	0.00%	0.00%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	41.49%	52.46%	38.43%	51.35%
Squirrel	6.43%	13.11%	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	11.49%	3.28%	0.00%	0.00%
Ice/Snow	8.87%	1.64%	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	31.72%	29.51%	61.57%	48.65%
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:

Storm related outages. 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	114
Circuit Location	Little Rock	
Total Circuit Length (Miles)	88.6	
2019 Member Count	475	
5 Year Average Member Count	470	
Date of Last Trim	March-14	
Date of Next Trim	2021	

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
169.7020275	1.289801559	256.7410526	1.458947368

Total Minutes/Frequency	398700.86	3030.2820	121952.00	693.0000
Equipment Fault	6.61%	6.83%	0.10%	0.14%
Wind	6.70%	4.85%	17.34%	13.56%
Small Animal	3.51%	4.22%	0.45%	0.87%
Squirrel	0.03%	0.07%	0.00%	0.00%
Unknown Cause	4.09%	6.77%	5.27%	11.40%
Deterioration	6.17%	4.92%	9.95%	11.69%
Scheduled	0.14%	2.05%	0.00%	0.00%
Power Supplier	11.02%	30.20%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	7.15%	5.94%	10.76%	7.94%
Ice/Snow	15.62%	7.16%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.59%	1.25%	0.00%	0.00%
Tree - ROW	8.74%	6.50%	10.74%	11.83%
Lightning	16.54%	11.72%	28.04%	23.38%
Tree - Non ROW	13.07%	7.52%	17.35%	19.19%
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 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
 2019 Member Count 149
 5 Year Average Member Count 145
 Date of Last Trim July-18
 Date of Next Trim 2024

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
151.9115971	1.322088786	218.4228188	1.241610738

Total Minutes/Frequency	109847.00	956.0000	32545.00	185.0000
Equipment Fault	42.30%	32.11%	95.43%	82.70%
Wind	1.10%	0.31%	0.00%	0.00%
Small Animal	3.85%	7.53%	3.71%	16.22%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.12%	0.21%	0.00%	0.00%
Deterioration	0.33%	0.21%	0.00%	0.00%
Scheduled	0.07%	0.21%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.04%	0.10%	0.00%	0.00%
Public Accident	6.59%	10.15%	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	0.11%	0.10%	0.00%	0.00%
Tree - ROW	4.17%	6.59%	0.00%	0.00%
Lightning	8.89%	9.62%	0.00%	0.00%
Tree - Non ROW	32.36%	32.74%	0.86%	1.08%
Large Animal	0.06%	0.10%	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	
2019 Member Count	388	
5 Year Average Member Count	377	
Date of Last Trim	November-15	
Date of Next Trim	2021	

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
53.79860377	0.612331469	191.8221649	2.237113402

Total Minutes/Frequency	101301.00	1153.0000	74427.00	868.0000
Equipment Fault	2.61%	2.60%	1.45%	0.81%
Wind	2.97%	2.86%	1.37%	1.84%
Small Animal	8.47%	11.54%	1.29%	2.19%
Squirrel	1.24%	1.47%	0.00%	0.00%
Unknown Cause	1.27%	1.73%	0.00%	0.00%
Deterioration	2.14%	1.91%	0.72%	0.58%
Scheduled	0.03%	0.09%	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	0.11%	0.09%	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	7.84%	5.90%	8.27%	5.88%
Lightning	3.27%	2.43%	0.00%	0.00%
Tree - Non ROW	70.03%	69.38%	86.90%	88.71%
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 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
 2019 Member Count 619
 5 Year Average Member Count 601
 Date of Last Trim September-18
 Date of Next Trim 2024

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
62.80134871	0.428427062	44.72213247	0.432956381

Total Minutes/Frequency	188656.00	1287.0000	27683.00	268.0000
Equipment Fault	7.28%	9.48%	32.70%	31.72%
Wind	0.42%	0.62%	0.00%	0.00%
Small Animal	12.40%	20.82%	45.54%	40.67%
Squirrel	0.03%	0.47%	0.00%	0.00%
Unknown Cause	3.02%	5.21%	7.01%	7.46%
Deterioration	2.04%	1.40%	0.00%	0.00%
Scheduled	0.52%	2.10%	2.28%	9.33%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	1.11%	2.18%	0.00%	0.00%
Public Accident	1.09%	2.10%	2.23%	4.10%
Ice/Snow	0.04%	0.08%	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	4.02%	4.66%	0.00%	0.00%
Lightning	9.65%	13.52%	0.00%	0.00%
Tree - Non ROW	8.80%	9.63%	10.25%	6.72%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.02%	0.08%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	49.57%	27.66%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

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	154
Circuit Location	Jiggwate	
Total Circuit Length (Miles)	30.0	
2019 Member Count	217	
5 Year Average Member Count	211	
Date of Last Trim	October-15	
Date of Next Trim	2021	

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
127.9580775	0.598232238	329.3456221	1.050691244

Total Minutes/Frequency	134753.00	630.0000	71468.00	228.0000
Equipment Fault	47.18%	25.40%	87.35%	64.91%
Wind	4.73%	3.17%	0.03%	1.75%
Small Animal	10.88%	24.76%	4.33%	10.53%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	6.46%	15.71%	4.16%	11.84%
Deterioration	0.16%	0.16%	0.00%	0.00%
Scheduled	0.13%	0.16%	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	19.77%	9.68%	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	2.82%	5.08%	4.13%	10.96%
Lightning	6.17%	12.86%	0.00%	0.00%
Tree - Non ROW	1.42%	2.38%	0.00%	0.00%
Large Animal	0.19%	0.48%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.07%	0.16%	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 NICHOLASVILLE 1
 Substation Location 1049 Bethany Rd., Nicholasville, KY 40356
 Circuit Name and Number NICHOLASVILLE 114
 Circuit Location Mackey Pike/McLane
 Total Circuit Length (Miles) 20.2
 2019 Member Count 233
 5 Year Average Member Count 217
 Date of Last Trim January-18
 Date of Next Trim 2024

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
65.40608382	1.067387104	61.88841202	1.394849785

Total Minutes/Frequency	70836.00	1156.0000	14420.00	325.0000
Equipment Fault	8.99%	4.24%	0.00%	0.00%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	42.09%	67.65%	66.62%	74.46%
Squirrel	1.04%	1.73%	5.13%	6.15%
Unknown Cause	1.84%	2.77%	3.05%	6.15%
Deterioration	0.46%	0.26%	1.56%	0.31%
Scheduled	0.08%	0.26%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.21%	0.35%	0.61%	0.62%
Overload	0.27%	0.35%	0.00%	0.00%
Public Accident	0.85%	0.35%	4.17%	1.23%
Ice/Snow	1.12%	0.69%	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	8.14%	3.89%	7.10%	4.00%
Lightning	7.72%	5.54%	0.00%	0.00%
Tree - Non ROW	26.60%	11.59%	11.76%	7.08%
Large Animal	0.58%	0.35%	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	NICHOLASVILLE	1
Substation Location	1049 Bethany Rd., Nicholasville, KY 40356	
Circuit Name and Number	NICHOLASVILLE	134
Circuit Location	Bethany/US 27	
Total Circuit Length (Miles)	11.3	
2019 Member Count	144	
5 Year Average Member Count	134	
Date of Last Trim	February-19	
Date of Next Trim	2025	

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
32.88645418	0.394422311	51.01388889	0.569444444

Total Minutes/Frequency	22012.00	264.0000	7346.00	82.0000
Equipment Fault	6.32%	4.17%	0.87%	2.44%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	15.27%	14.02%	29.50%	13.41%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	17.17%	19.32%	51.46%	62.20%
Deterioration	1.53%	0.76%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	1.37%	2.65%	4.10%	8.54%
Overload	3.16%	4.55%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Ice/Snow	0.78%	0.38%	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	35.01%	37.12%	14.08%	13.41%
Lightning	17.51%	14.77%	0.00%	0.00%
Tree - Non ROW	1.88%	2.27%	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:

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 104
 Circuit Location Shiloh Point
 Total Circuit Length (Miles) 12.1
 2019 Member Count 200
 5 Year Average Member Count 195
 Date of Last Trim August-15
 Date of Next Trim 2021

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
26.39132702	0.144489287	61.465	0.27

Total Minutes/Frequency	25754.00	141.0000	12293.00	54.0000
Equipment Fault	47.05%	54.61%	35.53%	44.44%
Wind	29.41%	17.73%	61.62%	46.30%
Small Animal	0.15%	0.71%	0.00%	0.00%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.35%	0.71%	0.00%	0.00%
Deterioration	19.08%	19.15%	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	0.00%	0.00%	0.00%	0.00%
Lightning	2.61%	3.55%	0.00%	0.00%
Tree - Non ROW	1.36%	3.55%	2.85%	9.26%
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	134
Circuit Location	Stringtown	
Total Circuit Length (Miles)	31.1	
2019 Member Count	252	
5 Year Average Member Count	246	
Date of Last Trim	November-16	
Date of Next Trim	2022	

	5 Year Average		2019	
	SAIDI	SAIFI	SAIDI	SAIFI
	82.4685255	0.466829061	110.6706349	0.638888889

Total Minutes/Frequency	101401.00	574.0000	27889.00	161.0000
Equipment Fault	2.11%	2.96%	2.67%	3.11%
Wind	0.34%	0.35%	0.82%	0.62%
Small Animal	5.25%	10.10%	0.00%	0.00%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	4.72%	5.75%	14.79%	15.53%
Deterioration	3.20%	4.70%	0.00%	0.00%
Scheduled	0.44%	2.09%	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	0.18%	0.35%	0.00%	0.00%
Ice/Snow	1.18%	0.70%	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	4.73%	6.27%	0.90%	1.86%
Lightning	0.14%	1.39%	0.00%	0.00%
Tree - Non ROW	22.63%	22.47%	80.81%	78.88%
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	55.07%	42.86%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

No corrections necessary at this time.

40-104

Substation Name and Number OXFORD 40
 Substation Location 3466 Cynthia Rd., Georgetown, KY 40324
 Circuit Name and Number OXFORD 104
 Circuit Location Carrick
 Total Circuit Length (Miles) 39.5
 2019 Member Count 357
 5 Year Average Member Count 307
 Date of Last Trim December-19
 Date of Next Trim 2025

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
306.2523263	2.141234415	309.2829132	2.557422969

Total Minutes/Frequency	470810.69	3291.7825	110414.00	913.0000
Equipment Fault	41.61%	30.68%	10.88%	10.84%
Wind	0.04%	0.03%	0.00%	0.00%
Small Animal	0.69%	1.09%	1.89%	2.30%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.54%	0.94%	0.00%	0.00%
Deterioration	1.21%	1.76%	0.00%	0.00%
Scheduled	0.59%	3.77%	0.46%	7.23%
Power Supplier	20.80%	30.19%	33.89%	38.66%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.12%	0.36%	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	2.51%	3.04%	0.00%	0.00%
Lightning	17.73%	17.77%	52.73%	40.85%
Tree - Non ROW	14.16%	10.36%	0.14%	0.11%
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.

40-114

Substation Name and Number	OXFORD	40
Substation Location	3466 Cynthiana Rd., Georgetown, KY 40324	
Circuit Name and Number	OXFORD	114
Circuit Location	Finnell	
Total Circuit Length (Miles)	20.7	
2019 Member Count	180	
5 Year Average Member Count	155	
Date of Last Trim	December-19	
Date of Next Trim	2025	

	5 Year Average		2019	
	SAIDI	SAIFI	SAIDI	SAIFI
	127.0602631	1.207986693	166.1	1.6

Total Minutes/Frequency	98487.46	936.3395	29898.00	288.0000
Equipment Fault	9.98%	10.57%	11.33%	18.06%
Wind	4.33%	0.96%	14.18%	2.78%
Small Animal	6.91%	12.60%	4.32%	11.11%
Squirrel	0.56%	1.07%	0.00%	0.00%
Unknown Cause	0.99%	1.92%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Power Supplier	51.91%	55.14%	65.26%	62.15%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.07%	0.11%	0.00%	0.00%
Public Accident	0.04%	0.11%	0.00%	0.00%
Ice/Snow	1.29%	2.56%	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	0.12%	0.21%	0.25%	0.35%
Lightning	4.92%	3.95%	0.76%	0.69%
Tree - Non ROW	18.89%	10.79%	3.90%	4.86%
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.

40-134

Substation Name and Number OXFORD 40
 Substation Location 3466 Cynthiana Rd., Georgetown, KY 40324
 Circuit Name and Number OXFORD 134
 Circuit Location BCTC
 Total Circuit Length (Miles) 31.8
 2019 Member Count 307
 5 Year Average Member Count 264
 Date of Last Trim August-16
 Date of Next Trim 2022

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
138.259179	1.149758192	355.7687296	2.654723127

Total Minutes/Frequency	182781.00	1520.0000	109221.00	815.0000
Equipment Fault	0.25%	0.26%	0.15%	0.12%
Wind	40.79%	37.11%	50.93%	49.82%
Small Animal	4.13%	8.42%	0.95%	2.33%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.52%	0.72%	0.87%	1.35%
Deterioration	0.00%	0.00%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Power Supplier	35.76%	38.95%	29.29%	36.69%
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	0.20%	0.13%	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	4.24%	4.93%	3.35%	3.80%
Lightning	1.21%	0.72%	0.00%	0.00%
Tree - Non ROW	12.90%	8.75%	14.46%	5.89%
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 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) 57.8
 2019 Member Count 384
 5 Year Average Member Count 376
 Date of Last Trim November-17
 Date of Next Trim 2023

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
263.8106292	1.671173502	374.3828125	1.768229167

Total Minutes/Frequency	495521.00	3139.0000	143763.00	679.0000
Equipment Fault	2.57%	2.99%	3.09%	5.74%
Wind	18.50%	14.59%	0.14%	0.15%
Small Animal	1.68%	2.87%	0.53%	5.30%
Squirrel	0.08%	0.19%	0.00%	0.00%
Unknown Cause	0.86%	1.27%	2.52%	3.98%
Deterioration	0.04%	0.16%	0.02%	0.29%
Scheduled	0.48%	2.36%	0.22%	1.03%
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	0.39%	0.86%	0.00%	0.00%
Ice/Snow	10.09%	4.49%	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	3.57%	7.65%	2.48%	3.98%
Lightning	6.33%	11.98%	0.41%	0.44%
Tree - Non ROW	54.27%	46.80%	90.59%	79.09%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	1.14%	3.79%	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 124
 Circuit Location Puckett Rd
 Total Circuit Length (Miles) 34.1
 2019 Member Count 341
 5 Year Average Member Count 334
 Date of Last Trim March-18
 Date of Next Trim 2024

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
102.6470197	0.874106993	91.18181818	1.134897361

Total Minutes/Frequency	171214.00	1458.0000	31093.00	387.0000
Equipment Fault	30.46%	35.80%	16.20%	20.67%
Wind	8.03%	13.24%	18.43%	24.03%
Small Animal	6.22%	5.56%	1.05%	3.36%
Squirrel	2.14%	2.74%	11.30%	9.56%
Unknown Cause	0.59%	1.30%	0.00%	0.00%
Deterioration	0.73%	3.70%	2.13%	10.08%
Scheduled	0.24%	2.19%	0.78%	7.75%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.05%	0.21%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.64%	0.89%	0.00%	0.00%
Ice/Snow	3.60%	4.18%	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	0.10%	0.27%	0.40%	0.78%
Lightning	8.17%	7.27%	1.12%	0.52%
Tree - Non ROW	39.03%	22.63%	48.59%	23.26%
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.

23-114

Substation Name and Number SINAI 23
 Substation Location Hwy 62, Lawrenceburg, KY 40342
 Circuit Name and Number SINAI 114
 Circuit Location Buntain School Rd/Birdie
 Total Circuit Length (Miles) 27.8
 2019 Member Count 209
 5 Year Average Member Count 204
 Date of Last Trim June-17
 Date of Next Trim 2023

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
81.50743055	1.278921289	72.44976077	1.296650718

Total Minutes/Frequency	83016.11	1302.5937	15142.00	271.0000
Equipment Fault	0.75%	0.54%	2.80%	1.11%
Wind	1.47%	1.92%	6.97%	8.86%
Small Animal	17.61%	18.42%	67.80%	54.24%
Squirrel	3.36%	6.76%	18.06%	32.10%
Unknown Cause	3.13%	3.61%	0.00%	0.00%
Deterioration	0.35%	0.46%	1.40%	1.48%
Scheduled	1.19%	1.00%	0.00%	0.00%
Power Supplier	62.07%	61.46%	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	1.02%	0.46%	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	3.00%	0.92%	0.00%	0.00%
Lightning	3.16%	2.00%	2.48%	1.48%
Tree - Non ROW	2.74%	2.15%	0.49%	0.74%
Large Animal	0.12%	0.23%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.04%	0.08%	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) 57.3
 2019 Member Count 382
 5 Year Average Member Count 372
 Date of Last Trim June-19
 Date of Next Trim 2025

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
181.389188	1.848014158	195.8376963	1.748691099

Total Minutes/Frequency	337670.91	3440.2305	74810.00	668.0000
Equipment Fault	5.61%	3.87%	0.08%	0.15%
Wind	9.67%	4.04%	0.11%	0.15%
Small Animal	3.83%	4.21%	11.03%	11.68%
Squirrel	0.13%	0.20%	0.00%	0.00%
Unknown Cause	1.63%	2.01%	0.00%	0.00%
Deterioration	0.27%	0.44%	0.10%	0.15%
Scheduled	9.66%	8.20%	40.66%	26.80%
Power Supplier	27.28%	42.13%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.02%	0.06%	0.00%	0.00%
Public Accident	3.49%	4.53%	2.97%	4.49%
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	0.16%	0.15%	0.00%	0.00%
Lightning	1.57%	0.70%	0.18%	0.15%
Tree - Non ROW	36.69%	29.47%	44.87%	56.44%
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 ELKHORN 12
 Substation Location 3251 Keene Rd., Nicholasville, KY 40356
 Circuit Name and Number SOUTH ELKHORN 104
 Circuit Location Firebrook/Dogwood Trace
 Total Circuit Length (Miles) 21.3
 2019 Member Count 1080
 5 Year Average Member Count 1068
 Date of Last Trim October-19
 Date of Next Trim 2023

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
44.90120326	0.780464125	50.59166667	1.09537037

Total Minutes/Frequency	239807.72	4168.2919	54639.00	1183.0000
Equipment Fault	14.38%	27.23%	7.69%	3.30%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	4.60%	3.67%	4.88%	3.13%
Squirrel	0.58%	0.67%	0.18%	0.25%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Deterioration	0.25%	0.22%	0.00%	0.00%
Scheduled	0.23%	0.36%	0.00%	0.00%
Power Supplier	21.06%	25.77%	0.00%	0.00%
Bird	0.41%	0.43%	0.00%	0.00%
Overload	0.38%	0.12%	0.00%	0.00%
Public Accident	25.29%	10.63%	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	11.36%	4.27%	4.17%	1.94%
Lightning	2.54%	0.70%	0.00%	0.00%
Tree - Non ROW	18.93%	25.93%	83.09%	91.38%
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 ELKHORN 12
 Substation Location 3251 Keene Rd., Nicholasville, KY 40356
 Circuit Name and Number SOUTH ELKHORN 124
 Circuit Location Champions
 Total Circuit Length (Miles) 29.9
 2019 Member Count 419
 5 Year Average Member Count 414
 Date of Last Trim December-15
 Date of Next Trim 2021

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
41.84984133	0.491121551	54.21718377	0.568019093

Total Minutes/Frequency	86714.01	1017.6172	22717.00	238.0000
Equipment Fault	27.21%	22.01%	84.63%	78.57%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	5.55%	8.94%	5.36%	8.40%
Squirrel	1.93%	3.14%	0.00%	0.00%
Unknown Cause	4.37%	5.11%	0.20%	1.26%
Deterioration	2.53%	1.28%	0.00%	0.00%
Scheduled	0.60%	0.49%	0.00%	0.00%
Power Supplier	21.71%	39.37%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	1.33%	1.28%	0.00%	0.00%
Public Accident	1.01%	0.59%	0.00%	0.00%
Ice/Snow	2.11%	0.39%	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	9.29%	9.34%	9.67%	10.92%
Lightning	6.38%	2.95%	0.14%	0.84%
Tree - Non ROW	15.97%	5.11%	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.

14-104

Substation Name and Number SOUTH JESSAMINE 14
 Substation Location 1307 Chrisman Mill Rd., Nicholasville, KY 40356
 Circuit Name and Number SOUTH JESSAMINE 104
 Circuit Location John Watts Drive
 Total Circuit Length (Miles) 4.3
 2019 Member Count 24
 5 Year Average Member Count 23
 Date of Last Trim December-16
 Date of Next Trim 2022

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
7.76751003	0.05242414	26.20833333	0.125

Total Minutes/Frequency	889.00	6.0000	629.00	3.0000
Equipment Fault	0.00%	0.00%	0.00%	0.00%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	11.47%	16.67%	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	7.31%	16.67%	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	6.41%	16.67%	9.06%	33.33%
Lightning	64.34%	33.33%	90.94%	66.67%
Tree - Non ROW	10.46%	16.67%	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 SOUTH JESSAMINE 14
 Substation Location 1307 Chrisman Mill Rd., Nicholasville, KY 40356
 Circuit Name and Number SOUTH JESSAMINE 114
 Circuit Location Southbrook
 Total Circuit Length (Miles) 24.9
 2019 Member Count 897
 5 Year Average Member Count 856
 Date of Last Trim August-16
 Date of Next Trim 2022

	5 Year Average		2019	
	SAIDI	SAIFI	SAIDI	SAIFI
	88.66424028	0.997753526	169.6176143	1.824972129

Total Minutes/Frequency	379271.00	4268.0000	152147.00	1637.0000
Equipment Fault	20.13%	19.35%	45.74%	42.82%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	5.67%	7.05%	0.14%	0.24%
Squirrel	4.91%	5.04%	0.00%	0.00%
Unknown Cause	0.12%	0.73%	0.28%	1.83%
Deterioration	0.43%	0.61%	0.00%	0.00%
Scheduled	0.07%	0.21%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.01%	0.02%	0.02%	0.06%
Overload	0.10%	0.14%	0.00%	0.00%
Public Accident	17.53%	23.69%	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	0.33%	0.66%	0.07%	0.67%
Lightning	1.37%	1.29%	0.06%	0.12%
Tree - Non ROW	21.54%	20.81%	53.70%	54.25%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	27.79%	20.41%	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 SOUTH JESSAMINE 14
 Substation Location 1307 Chrisman Mill Rd., Nicholasville, KY 40356
 Circuit Name and Number SOUTH JESSAMINE 124
 Circuit Location Sulpher Well
 Total Circuit Length (Miles) 60.2
 2019 Member Count 609
 5 Year Average Member Count 581
 Date of Last Trim June-17
 Date of Next Trim 2023

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
180.1617109	1.704085828	507.1789819	6.093596059

Total Minutes/Frequency	523225.00	4949.0000	308872.00	3711.0000
Equipment Fault	10.18%	5.50%	0.03%	0.03%
Wind	14.47%	3.82%	0.00%	0.00%
Small Animal	19.72%	23.60%	32.25%	29.88%
Squirrel	0.56%	1.05%	0.00%	0.00%
Unknown Cause	0.83%	1.01%	1.27%	1.24%
Deterioration	1.30%	1.05%	0.00%	0.00%
Scheduled	0.90%	1.11%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	10.63%	17.30%	17.99%	23.04%
Overload	0.04%	0.08%	0.00%	0.00%
Public Accident	13.40%	15.54%	16.44%	16.44%
Ice/Snow	0.38%	0.22%	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	12.01%	9.74%	19.44%	12.02%
Lightning	11.82%	17.68%	11.94%	16.36%
Tree - Non ROW	3.69%	2.26%	0.65%	1.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.06%	0.04%	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 JESSAMINE 14
 Substation Location 1307 Chrisman Mill Rd., Nicholasville, KY 40356
 Circuit Name and Number SOUTH JESSAMINE 144
 Circuit Location Industrial Park
 Total Circuit Length (Miles) 4.5
 2019 Member Count 29
 5 Year Average Member Count 28
 Date of Last Trim December-16
 Date of Next Trim 2022

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
19.05346318	0.282005717	67	1.034482759

Total Minutes/Frequency	2635.00	39.0000	1943.00	30.0000
Equipment Fault	4.14%	2.56%	0.00%	0.00%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	4.67%	5.13%	6.33%	6.67%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	3.30%	5.13%	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	14.46%	10.26%	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	1.86%	2.56%	0.00%	0.00%
Lightning	2.50%	2.56%	0.00%	0.00%
Tree - Non ROW	69.07%	71.79%	93.67%	93.33%
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.

24-114

Substation Name and Number VAN_ARSDELL 24
 Substation Location 104 Bardstown Rd., Harrodsburg, KY 40330
 Circuit Name and Number VAN_ARSDELL 114
 Circuit Location Shakertown/Mcafee Ln
 Total Circuit Length (Miles) 127.4
 2019 Member Count 936
 5 Year Average Member Count 916
 Date of Last Trim December-14
 Date of Next Trim 2020

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
73.105543	0.779196123	67.54487179	0.870726496

Total Minutes/Frequency	334756.00	3568.0000	63222.00	815.0000
Equipment Fault	4.47%	4.62%	2.33%	2.21%
Wind	25.50%	6.92%	4.30%	3.80%
Small Animal	11.57%	13.14%	15.71%	12.02%
Squirrel	4.73%	3.25%	4.83%	5.77%
Unknown Cause	1.45%	1.49%	0.78%	0.49%
Deterioration	1.16%	1.60%	0.00%	0.00%
Scheduled	3.05%	25.48%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.31%	0.50%	0.23%	0.12%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	4.32%	4.23%	9.47%	4.29%
Ice/Snow	0.77%	0.20%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.17%	0.17%	0.00%	0.00%
Tree - ROW	7.50%	10.03%	27.83%	31.17%
Lightning	10.30%	12.61%	22.88%	28.71%
Tree - Non ROW	23.81%	14.27%	10.81%	9.45%
Large Animal	0.32%	0.36%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.39%	0.67%	0.00%	0.00%
Flash Flood	0.16%	0.45%	0.84%	1.96%
	100%	100%	100%	100%

Corrections to be made:
 Circuit to be trimmed in 2020.

Substation Name and Number VAN_ARSDELL 24
 Substation Location 104 Bardstown Rd., Harrodsburg, KY 40330
 Circuit Name and Number VAN_ARSDELL 144
 Circuit Location Kirkwood
 Total Circuit Length (Miles) 88.7
 2019 Member Count 628
 5 Year Average Member Count 614
 Date of Last Trim March-15
 Date of Next Trim 2021

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
133.2121413	0.879149486	145.5907643	0.910828025

Total Minutes/Frequency	409266.00	2701.0000	91431.00	572.0000
Equipment Fault	37.76%	31.73%	71.64%	61.01%
Wind	22.19%	21.29%	12.75%	8.22%
Small Animal	1.75%	5.26%	3.29%	11.54%
Squirrel	0.03%	0.11%	0.00%	0.00%
Unknown Cause	2.26%	4.07%	1.40%	3.15%
Deterioration	2.40%	2.89%	9.42%	9.27%
Scheduled	0.03%	0.04%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.01%	0.04%	0.00%	0.00%
Public Accident	4.05%	6.37%	0.00%	0.00%
Ice/Snow	4.18%	1.85%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.45%	1.22%	0.00%	0.00%
Tree - ROW	1.92%	4.96%	0.80%	2.97%
Lightning	13.27%	9.44%	0.61%	2.62%
Tree - Non ROW	9.68%	10.70%	0.09%	1.22%
Large Animal	0.01%	0.04%	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 BEREA	8
Substation Location	5350 Walnutmeadow Rd., Berea, KY 40403	
Circuit Name and Number	WEST BEREA	114
Circuit Location	Days Inn/Berea Sewer	
Total Circuit Length (Miles)	4.4	
2019 Member Count	139	
5 Year Average Member Count	137	
Date of Last Trim	December-16	
Date of Next Trim	2022	

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
28.32010426	0.3777771	106.5035971	1.381294964

Total Minutes/Frequency	19341.00	258.0000	14804.00	192.0000
Equipment Fault	78.52%	75.97%	100.00%	100.00%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	21.48%	24.03%	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	0.00%	0.00%	0.00%	0.00%
Lightning	0.00%	0.00%	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.

Substation Name and Number	WEST BEREA	8
Substation Location	5350 Walnutmeadow Rd., Berea, KY 40403	
Circuit Name and Number	WEST BEREA	144
Circuit Location	Walnut Meadow	
Total Circuit Length (Miles)	46.0	
2019 Member Count	235	
5 Year Average Member Count	231	
Date of Last Trim	September-15	
Date of Next Trim	2021	

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
116.9645444	0.69113956	347.6893617	1.604255319

Total Minutes/Frequency	135049.00	798.0000	81707.00	377.0000
Equipment Fault	44.74%	43.36%	34.08%	25.73%
Wind	2.23%	2.76%	0.35%	0.27%
Small Animal	4.44%	9.27%	2.03%	5.04%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	1.37%	2.26%	2.27%	4.77%
Deterioration	2.08%	3.01%	0.00%	0.00%
Scheduled	0.07%	0.13%	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	36.72%	29.20%	60.55%	61.54%
Ice/Snow	1.50%	0.88%	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	2.13%	2.51%	0.00%	0.00%
Lightning	2.88%	4.64%	0.72%	2.65%
Tree - Non ROW	1.83%	2.01%	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.

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)	48.5	
2019 Member Count	433	
5 Year Average Member Count	427	
Date of Last Trim	April-15	
Date of Next Trim	2021	

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
183.9772171	1.511340599	378.0300231	3.233256351

Total Minutes/Frequency	392709.82	3226.0424	163687.00	1400.0000
Equipment Fault	23.93%	15.68%	56.08%	34.50%
Wind	0.12%	0.34%	0.00%	0.00%
Small Animal	7.32%	19.50%	2.30%	8.14%
Squirrel	0.32%	0.71%	0.02%	0.14%
Unknown Cause	0.27%	0.81%	0.26%	1.07%
Deterioration	0.04%	0.09%	0.00%	0.00%
Scheduled	0.27%	0.50%	0.00%	0.00%
Power Supplier	8.68%	13.21%	20.82%	30.43%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	10.37%	12.12%	6.10%	11.71%
Ice/Snow	3.00%	2.94%	0.00%	0.00%
Fire	0.09%	0.09%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	7.90%	6.14%	5.06%	5.57%
Lightning	1.65%	1.95%	0.08%	0.14%
Tree - Non ROW	36.04%	25.91%	9.28%	8.29%
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	134
Circuit Location	Lone Oak/Clear Creek	
Total Circuit Length (Miles)	46.8	
2019 Member Count	1015	
5 Year Average Member Count	1001	
Date of Last Trim	May-17	
Date of Next Trim	2023	

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
84.93231092	1.271574951	246.0256158	4.113300493

Total Minutes/Frequency	424970.52	6362.5005	249716.00	4175.0000
Equipment Fault	33.64%	25.89%	25.41%	24.57%
Wind	0.14%	0.06%	0.00%	0.00%
Small Animal	12.57%	18.48%	1.31%	1.34%
Squirrel	0.45%	0.57%	0.00%	0.00%
Unknown Cause	0.82%	1.02%	0.53%	0.62%
Deterioration	0.16%	0.08%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Power Supplier	42.28%	47.51%	71.95%	72.41%
Bird	0.02%	0.03%	0.00%	0.00%
Overload	1.27%	1.57%	0.00%	0.00%
Public Accident	0.20%	0.19%	0.11%	0.05%
Ice/Snow	0.16%	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	1.88%	0.97%	0.00%	0.00%
Lightning	1.10%	0.60%	0.00%	0.00%
Tree - Non ROW	5.30%	3.00%	0.69%	1.01%
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 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) 8.6
 2019 Member Count 691
 5 Year Average Member Count 681
 Date of Last Trim November-16
 Date of Next Trim 2022

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
29.63798701	0.491871573	81.01013025	1.018813314

Total Minutes/Frequency	100959.36	1675.5199	55978.00	704.0000
Equipment Fault	1.83%	1.49%	0.28%	0.28%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	33.71%	47.90%	0.24%	0.43%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.01%	0.06%	0.02%	0.14%
Deterioration	0.46%	0.36%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Power Supplier	55.15%	41.54%	99.47%	98.86%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.24%	0.06%	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	6.32%	6.80%	0.00%	0.28%
Lightning	2.28%	1.79%	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:

Power Supplier 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 164
 Circuit Location Squire Lake
 Total Circuit Length (Miles) 6.3
 2019 Member Count 457
 5 Year Average Member Count 451
 Date of Last Trim January-19
 Date of Next Trim 2025

5 Year Average		2019	
SAIDI	SAIFI	SAIDI	SAIFI
42.90972769	0.630142257	79.54923414	0.991247265

Total Minutes/Frequency	96670.01	1419.6282	36354.00	453.0000
Equipment Fault	35.23%	29.44%	0.97%	0.66%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	24.77%	37.59%	0.00%	0.00%
Squirrel	0.12%	0.21%	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	37.24%	31.70%	99.03%	99.34%
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	0.00%	0.00%	0.00%	0.00%
Tree - Non ROW	2.64%	1.06%	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.



DISTRIBUTION RIGHT-OF-WAY VEGETATION MANAGEMENT 2020 PLAN/ 2019 PLAN REVIEW

March 2020

Blue Grass Energy Vegetation Management Plan

2019 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 2019.

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.

2017-2020 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 out of 18 distribution circuits scheduled in 2019 for a total of 684 miles of distribution line completed. In 2020, there are 17 distribution circuits, for a total of 676 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	2017	2018	2019	2020
Scheduled	736	658	756	676
Completed	736	658	684	TBD

Of the 2017 & 2018 maintenance year mileage, 21 circuits consisting of 697 miles were identified for selective herbicide application and completed in 2019. Herbicide application consisting of 979 miles from the 2018 & 2019 maintenance years are scheduled to be completed in 2020.

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

Maintenance Year - Herbicide	2017	2018	2019	2020
Scheduled	816	731	697	979
Completed	816	731	697	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 2019 to identify species failure rates and help plan future scheduled and non-scheduled work to eliminate potential outages. The investigation of all tree related outages will continue through 2019 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	2015	2016	2017	2018	2019
TOTALS	77	86	110	142	150

†Outages on primary conductor excluding major event days

2019 VEGETATION MANAGEMENT PLAN REVIEW

No Changes were implemented in 2019 to the ROW management plan. The “Distribution Right-Of-Way Vegetation Management Plan” Dated April 2019 reiterated in detail the processes that were built into the plan.

In 2019, 684 trim miles out of 756 trim miles were completed 2019 calendar year. 72 trim miles were not completed due to weather delays. These miles were assigned to 2020 work and started in January. All 2019 herbicide miles were completed in 2019.

Listed below are some of the processes used in 2019:

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.

2020 VEGETATION MANAGEMENT PLAN

In addition to continuing the Distribution Right-Of-Way Vegetation Management Plans outlined for 2019 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 pilot program for using tree growth regulators (TGR) in urban area yard trees and continue use of TGR's in 2020.

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