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COMMISSION

Electric Distribution Utility Annual Reliability Report For 2017

April 2018

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliablility Report

SECTION 1: CONTACT INFORMATION UTILITY NAME Blue Grass Energy Kyle Lancaster REPORT PREPARED BY E-MAIL ADDRESS OF PREPARER kylel@bgenergy.com PHONE NUMBER OF PREPARER (859) 885-2103 **SECTION 2: REPORTING YEAR** CALENDAR YEAR OF REPORT 2017 **SECTION 3: MAJOR EVENT DAYS (MED)** T_{MED} 10.48 FIRST DATE USED TO DETERMINE TMED January 1 2012

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.

December 31 2016

LAST DATE USED TO DETERMINE TMED

NUMBER OF MED IN REPORT YEAR

SECTION 4: SYSTEM RELIABILITY INFORMATION AND RESULTS

		incidaing MED		
	5 YEAR AVERAGE		REPORTING YEAR	
SAIDI	170.21	SAIDI	174.61	
SAIFI	1.2449	SAIFI	1.2603	

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 NU 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

KENTUCKY PUBLIC SERVICE COMMISSION

SECTION 6: VEGETATION MANAGEMENT PLAN REVIEW

INCLUDE CURRENT VEGETATION MANAGEMENT PLAN

Additional page may be attached as needed.

Substation Name and Number 3M #2 41 Substation Location Hwy 982, Cynthiana, KY 41031 Circuit Name and Number 3M #2 134 Circuit Location Webbers Total Circuit Length (Miles) 41.4 2017 Member Count 676 5 Year Average Member Count 666 Date of Last Trim January-12 Date of Next Trim 2018

	5 Year	Average	2017	
	SAIDI	SAIFI	SAIDI	SAIFI
	64.929299	1.227483745	180.7899408	2.639053254
Total Minutes/Frequency	216114.64	4085.6318	122214.00	1784.0000
Equipment Fault	9.84%	8.17%	16.82%	18.05%
Wind	4.99%	1.03%	0.11%	0.11%
Small Animal	14.22%	10.67%	19.93%	16.70%
Squirrel	0.27%	0.24%	0.00%	0.00%
Unknown Cause	3.44%	2.69%	1.60%	1.23%
Deterioration	0.86%	1.25%	0.13%	0.17%
Scheduled	6.27%	15.57%	0.36%	0.67%
Power Supplier	3.43%	15.24%	0.00%	0.00%
Bird	0.24%	0.22%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	5.90%	5.43%	6.78%	9.75%
Ice/Snow	0.03%	0.02%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.70%	0.56%	0.00%	0.00%
Tree - ROW	7.49%	5.29%	8.52%	7.34%
Lightning	34.54%	27.80%	43.75%	44.62%
Tree - Non ROW	5.05%	3.38%	1.18%	0.11%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	2.74%	2.42%	0.81%	1.23%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Substation Name and Number	3M #2	41
Substation Location	Hwy 982, Cynthiana, KY	41031
Circuit Name and Number	3M #2	164
Circuit Location	Oddville	
Total Circuit Length (Miles)	134.2	
2017 Member Count	1243	
5 Year Average Member Count	1224	
Date of Last Trim	July-16	
Date of Next Trim	2022	

	5 Year	Average	20	17
	SAIDI	SAIFI	SAIDI	SAIFI
	179.116166	1.715441529	191.2268705	2.257441673
Total Minutes/Frequency	1096232.54	10498.9006	237695.00	2806.0000
Equipment Fault	17.75%	14.44%	4.81%	4.92%
Wind	5.71%	4.18%	5.69%	7.13%
Small Animal	1.57%	2.82%	4.43%	5.95%
Squirrel	1.68%	1.26%	0.04%	0.04%
Unknown Cause	1.37%	3.82%	0.74%	0.46%
Deterioration	1.84%	2.39%	0.00%	0.00%
Scheduled	0.88%	1.72%	0.00%	0.00%
Power Supplier	6.92%	11.12%	0.00%	0.00%
Bird	0.02%	0.04%	0.00%	0.00%
Overload	0.06%	0.10%	0.00%	0.00%
Public Accident	27.00%	30.12%	58.33%	62.19%
Ice/Snow	1.03%	0.30%	0.00%	0.00%
Fire	0.00%	0.01%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	1.57%	2.13%	0.02%	0.04%
Lightning	22.97%	15.72%	0.60%	0.57%
Tree - Non ROW	8.17%	7.69%	25.33%	18.71%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	1.46%	2.15%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

<u>Corrections to be made:</u>
Public Accident caused outages. No corrections necessary at this time.

Substation Name and Number ALCAN 2 16 Substation Location 306 Mayde Road, Berea, KY 40403 Circuit Name and Number ALCAN 2 144 HITACHI Circuit Location Total Circuit Length (Miles) 1.5 2017 Member Count 1 5 Year Average Member Count 1 Date of Last Trim February-14 Date of Next Trim 2018

	5 Year	Average	2017	
	SAIDI	SAIFI	SAIDI	SAIFI
	13.8	0.4	69	2
Total Minutes/Frequency	69.00	2.0000	69.00	2.0000
Equipment Fault	0.00%	0.00%	0.00%	0.00%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	81.16%	50.00%	81.16%	50.00%
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	18.84%	50.00%	18.84%	50.00%
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:

BRACKEN_COUNTY

31

61 New Zion Rd, Foster, KY 41043

BRACKEN_COUNTY

Blakeston

139.2

1069

1070

November-13

2019

	5 Year	Average	20	017
	SAIDI	SAIFI	SAIDI	SAIFI
	209.1126415	1.835062642	320.1665108	2.123479888
Total Minutes/Frequency	1118572.00	9816.0000	342258.00	2270.0000
Equipment Fault	21.54%	27.26%	11.91%	11.10%
Wind	2.46%	2.86%	2.55%	1.67%
Small Animal	3.45%	3.38%	2.60%	4.27%
Squirrel	0.04%	0.06%	0.00%	0.00%
Unknown Cause	5.22%	6.51%	2.83%	3.44%
Deterioration	20.68%	15.52%	44.90%	42.73%
Scheduled	0.60%	1.33%	0.73%	1.10%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.54%	0.49%	1.28%	1.50%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	3.23%	3.43%	3.27%	4.67%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	12.32%	5.48%	0.00%	0.00%
Sag/Clearance	0.70%	0.96%	0.54%	0.97%
Tree - ROW	4.94%	5.68%	3.79%	4.71%
Lightning	17.53%	21.96%	16.25%	18.59%
Tree - Non ROW	6.75%	5.05%	9.30%	5.20%
Large Animal	0.01%	0.01%	0.03%	0.04%
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:

2016-2018 CWP conversion of deteriorating conductor.

Substation Name and Number CLAY_LICK 26 Substation Location 5627 Louisville, Rd., Salvisa, KY 40372 Circuit Name and Number CLAY LICK 114 Circuit Location Van Arsdell 1 Tie Total Circuit Length (Miles) 9.0 2017 Member Count 48 47 5 Year Average Member Count Date of Last Trim September-16 Date of Next Trim 2022

	5 Year	Average	2017	
	SAIDI	SAIFI	SAIDI	SAIFI
	156.906968	1.230345462	375.4583333	1.5
Total Minutes/Frequency	37239.00	292.0000	18022.00	72.0000
Equipment Fault	55.35%	35.27%	85.23%	73.61%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	3.17%	6.16%	0.00%	0.00%
Squirrel	2.24%	4.79%	0.00%	0.00%
Unknown Cause	6.00%	12.67%	0.00%	0.00%
Deterioration	0.93%	1.71%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	2.52%	4.79%	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	2.60%	5.48%	0.00%	0.00%
Lightning	22.75%	21.92%	14.77%	26.39%
Tree - Non ROW	4.26%	6.51%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.19%	0.68%	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 Substation Location 5627 Louisville, Rd., Salvisa, KY 40372 Circuit Name and Number CLAY_LICK 144 Circuit Location Bond's Mill Total Circuit Length (Miles) 61.3 2017 Member Count 629 622 5 Year Average Member Count Date of Last Trim December-16 Date of Next Trim 2022

	5 Year	Average	20	17
	SAIDI	SAIFI	SAIDI	SAIFI
	84.32607788	1.058509204	166.0937997	1.906200318
Total Minutes/Frequency	262257.00	3292.0000	104473.00	1199.0000
Equipment Fault	25.24%	28.55%	38.89%	55.13%
Wind	21.12%	21.63%	8.83%	8.67%
Small Animal	3.33%	5.74%	3.66%	6.67%
Squirrel	2.37%	3.40%	0.36%	0.75%
Unknown Cause	8.48%	11.94%	0.00%	0.00%
Deterioration	1.91%	2.22%	0.09%	0.17%
Scheduled	0.63%	1.12%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.56%	0.67%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	3.76%	3.37%	7.15%	4.50%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.42%	0.39%	0.00%	0.00%
Lightning	15.52%	14.06%	9.68%	14.10%
Tree - Non ROW	15.59%	5.62%	31.34%	10.01%
Large Animal	1.06%	1.18%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.03%	0.09%	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.

COLEMANSVILLE 32 Corner of HWY 1032 & 1054, Berry, KY 41003 COLEMANSVILLE 104

> Morgan Marcus 110.7 750 751 August-12 2018

	5 Year	5 Year Average		17
	SAIDI	SAIFI	SAIDI	SAIFI
	123.5059104	0.927311573	149.2266667	1.876
Total Minutes/Frequency	463491.00	3480.0000	111920.00	1407.0000
Equipment Fault	10.95%	12.50%	8.26%	3.98%
Wind	3.35%	5.00%	5.64%	4.19%
Small Animal	1.07%	1.90%	0.55%	0.50%
Squirrel	0.05%	0.09%	0.00%	0.00%
Unknown Cause	5.38%	25.69%	16.27%	59.35%
Deterioration	4.66%	2.87%	0.05%	0.07%
Scheduled	3.43%	10.43%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	4.77%	2.39%	0.00%	0.00%
Public Accident	10.24%	7.76%	10.48%	7.46%
Ice/Snow	0.51%	0.17%	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	3.48%	1.95%	14.40%	4.83%
Lightning	24.39%	17.13%	3.64%	6.75%
Tree - Non ROW	27.72%	12.13%	40.72%	12.86%
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:

COLEMANSVILLE 32
Corner of HWY 1032 & 1054, Berry, KY 41003
COLEMANSVILLE 124
Robinson
71.2

71.2 580 580 October-12 2018

	5 Year	5 Year Average		2017	
	SAIDI	SAIFI	SAIDI	SAIFI	
	139.2118229	1.151903459	224.2172414	1.193103448	
Total Minutes/Frequency	404014.00	3343.0000	130046.00	692.0000	
Equipment Fault	31.04%	17.11%	84.74%	63.29%	
Wind	0.52%	0.81%	0.00%	0.00%	
Small Animal	9.96%	16.84%	4.71%	12.86%	
Squirrel	0.08%	0.21%	0.00%	0.00%	
Unknown Cause	8.02%	12.53%	3.68%	11.71%	
Deterioration	7.70%	5.68%	4.79%	9.25%	
Scheduled	1.62%	2.15%	0.00%	0.00%	
Power Supplier	0.00%	0.00%	0.00%	0.00%	
Bird	0.36%	0.87%	0.09%	0.14%	
Overload	0.00%	0.00%	0.00%	0.00%	
Public Accident	9.15%	7.30%	0.12%	0.43%	
Ice/Snow	0.13%	0.21%	0.00%	0.00%	
Fire	0.55%	0.33%	1.62%	1.30%	
Sag/Clearance	0.00%	0.00%	0.00%	0.00%	
Tree - ROW	0.30%	0.57%	0.05%	0.14%	
Lightning	25.75%	30.90%	0.20%	0.87%	
Tree - Non ROW	4.83%	4.49%	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.

CROOKSVILLE 13
765 Crooksville Rd., Richmond, KY 40475
CROOKSVILLE 114
Speedwell
68.6

68.6 626 627 November-14 2020

	5 Year	5 Year Average		017
	SAIDI	SAIFI	SAIDI	SAIFI
	71.12611726	0.716540271	71.05591054	0.845047923
Total Minutes/Frequency	222846.00	2245.0000	44481.00	529.0000
Equipment Fault	4.31%	4.94%	0.71%	0.38%
Wind	1.18%	1.51%	5.93%	6.43%
Small Animal	14.34%	17.64%	35.81%	41.97%
Squirrel	0.87%	1.43%	4.11%	5.67%
Unknown Cause	11.34%	18.57%	13.66%	15.69%
Deterioration	7.18%	7.26%	0.00%	0.00%
Scheduled	0.27%	0.31%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	3.01%	3.30%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	11.14%	8.46%	5.49%	5.29%
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	12.94%	9.31%	14.63%	9.45%
Lightning	23.63%	19.20%	8.01%	5.86%
Tree - Non ROW	8.77%	6.64%	11.63%	9.26%
Large Animal	0.77%	0.85%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.25%	0.58%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

CROOKSVILLE 13
765 Crooksville Rd., Richmond, KY 40475
CROOKSVILLE 144
Crooksville Rd
15.6
358
358

November-14 2020

	5 Year	5 Year Average		2017	
	SAIDI	SAIFI	SAIDI	SAIFI	
	78.01910967	0.945987216	107.3184358	1.203910615	
Total Minutes/Frequency	139793.00	1695.0000	38420.00	431.0000	
Equipment Fault	3.21%	2.60%	0.00%	0.00%	
Wind	0.00%	0.00%	0.00%	0.00%	
Small Animal	11.81%	15.69%	33.03%	44.55%	
Squirrel	0.00%	0.00%	0.00%	0.00%	
Unknown Cause	1.44%	3.07%	4.48%	9.98%	
Deterioration	0.00%	0.00%	0.00%	0.00%	
Scheduled	0.17%	0.35%	0.41%	0.70%	
Power Supplier	0.00%	0.00%	0.00%	0.00%	
Bird	0.25%	0.41%	0.00%	0.00%	
Overload	0.02%	0.06%	0.00%	0.00%	
Public Accident	18.07%	30.86%	0.00%	0.00%	
Ice/Snow	0.00%	0.00%	0.00%	0.00%	
Fire	0.00%	0.00%	0.00%	0.00%	
Sag/Clearance	0.00%	0.00%	0.00%	0.00%	
Tree - ROW	14.78%	16.46%	9.51%	10.21%	
Lightning	2.77%	1.53%	0.00%	0.00%	
Tree - Non ROW	47.48%	28.97%	52.58%	34.57%	
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:

DAVIS 4
3876 Delong Rd., Lexington, KY 40515
DAVIS 104

Ashgrove Pike 18.6 347 377 October-15 2021

	5 Year	Average	2017	
	SAIDI	SAIFI	SAIDI	SAIFI
	99.93447845	1.107008679	301.1469741	2.622478386
Total Minutes/Frequency	188222.00	2085.0000	104498.00	910.0000
Equipment Fault	0.67%	0.38%	0.31%	0.22%
Wind	1.40%	2.73%	1.91%	5.93%
Small Animal	7.07%	8.11%	0.04%	0.11%
Squirrel	0.25%	0.43%	0.00%	0.00%
Unknown Cause	1.29%	2.30%	0.00%	0.00%
Deterioration	2.07%	1.29%	0.00%	0.00%
Scheduled	1.72%	1.53%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	3.35%	4.12%	2.79%	3.41%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	2.44%	1.15%	4.39%	2.64%
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	17.01%	25.42%	4.28%	5.71%
Lightning	19.97%	20.82%	32.21%	38.46%
Tree - Non ROW	42.76%	31.70%	54.07%	43.52%
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:

DAVIS 4
3876 Delong Rd., Lexington, KY 40515
DAVIS 114
Delong Rd

Delong Rd 15.6 159 173 December-14 2018

	5 Year	Average	20	2017	
	SAIDI	SAIFI	SAIDI	SAIFI	
	85.57471443	0.976798292	141.572327	1.119496855	
Total Minutes/Frequency	73853.00	843.0000	22510.00	178.0000	
Equipment Fault	3.71%	3.80%	0.00%	0.00%	
Wind	17.87%	5.22%	58.64%	24.72%	
Small Animal	25.68%	38.20%	19.71%	24.72%	
Squirrel	12.50%	17.67%	12.51%	24.72%	
Unknown Cause	8.23%	10.44%	0.00%	0.00%	
Deterioration	0.09%	0.12%	0.00%	0.00%	
Scheduled	0.03%	0.36%	0.00%	0.00%	
Power Supplier	0.00%	0.00%	0.00%	0.00%	
Bird	0.18%	0.36%	0.00%	0.00%	
Overload	0.00%	0.00%	0.00%	0.00%	
Public Accident	13.90%	6.52%	0.00%	0.00%	
Ice/Snow	11.18%	5.81%	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	3.68%	6.41%	9.14%	25.84%	
Tree - Non ROW	2.95%	5.10%	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:

Substation Name and Number **DAVIS** 4 Substation Location 3876 Delong Rd., Lexington, KY 40515 Circuit Name and Number **DAVIS** 124 E Hickman Circuit Location 64.2 Total Circuit Length (Miles) 2017 Member Count 465 5 Year Average Member Count 505 Date of Last Trim October-15 Date of Next Trim 2021

	5 Year	5 Year Average		2017	
	SAIDI	SAIFI	SAIDI	SAIFI	
	184.0560991	2.387935983	187.4430108	1.356989247	
Total Minutes/Frequency	464546.00	6027.0000	87161.00	631.0000	
Equipment Fault	44.00%	53.06%	1.90%	4.28%	
Wind	13.84%	10.98%	0.04%	0.16%	
Small Animal	0.96%	1.14%	0.45%	1.11%	
Squirrel	2.50%	1.43%	0.00%	0.00%	
Unknown Cause	2.41%	2.51%	0.00%	0.00%	
Deterioration	19.41%	11.73%	83.81%	81.30%	
Scheduled	0.41%	0.58%	0.26%	1.43%	
Power Supplier	0.00%	0.00%	0.00%	0.00%	
Bird	0.31%	0.41%	0.00%	0.00%	
Overload	3.04%	10.20%	0.00%	0.00%	
Public Accident	4.41%	2.37%	0.61%	0.48%	
Ice/Snow	0.22%	0.17%	0.00%	0.00%	
Fire	0.00%	0.00%	0.00%	0.00%	
Sag/Clearance	0.02%	0.02%	0.00%	0.00%	
Tree - ROW	2.35%	2.22%	0.00%	0.00%	
Lightning	1.26%	1.14%	3.19%	6.81%	
Tree - Non ROW	4.86%	2.02%	9.73%	4.44%	
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:

2016-2018 CWP conversion of deteriorating conductor.

DAVIS 4
3876 Delong Rd., Lexington, KY 40515
DAVIS 134
Tates Creek Estates

Tates Creek Esta 5.0 295 320 December-15 2021

	5 Year	Average	20	2017	
	SAIDI	SAIFI	SAIDI	SAIFI	
	64.54691834	0.901819493	96.41355932	1.66440678	
Total Minutes/Frequency	103353.00	1444.0000	28442.00	491.0000	
Equipment Fault	18.27%	9.97%	3.67%	2.24%	
Wind	0.00%	0.00%	0.00%	0.00%	
Small Animal	32.14%	42.52%	60.07%	72.51%	
Squirrel	1.91%	3.46%	0.51%	0.41%	
Unknown Cause	3.70%	4.02%	0.00%	0.00%	
Deterioration	11.91%	9.00%	12.96%	7.74%	
Scheduled	2.36%	4.09%	0.00%	0.00%	
Power Supplier	0.00%	0.00%	0.00%	0.00%	
Bird	2.09%	2.35%	0.25%	0.41%	
Overload	1.76%	2.15%	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	17.73%	12.40%	20.07%	13.85%	
Lightning	4.54%	5.68%	0.00%	0.00%	
Tree - Non ROW	3.59%	4.36%	2.46%	2.85%	
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:

Substation Name and Number Substation Location Circuit Name and Number Circuit Location

Total Circuit Length (Miles) 2017 Member Count 5 Year Average Member Count

Date of Last Trim Date of Next Trim FAYETTE2

6

2442 Armstrong Mill, Lexington, KY 40515

FAYETTE2

124

Armstrong Mill 6.4 1063 1065 December-16 2020

 5 Year Average
 2017

 SAIDI
 SAIFI

 54.26131378
 0.466753492

 186.6660395
 0.904045155

	34.20131376	0.400/33492	100.0000373	0.704043133
Total Minutes/Frequency	289004.00	2486.0000	198426.00	961.0000
Equipment Fault	72.15%	42.52%	99.94%	99.69%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	0.36%	0.76%	0.00%	0.00%
Squirrel	0.35%	0.72%	0.06%	0.31%
Unknown Cause	0.68%	1.73%	0.00%	0.00%
Deterioration	0.78%	2.94%	0.00%	0.00%
Scheduled	1.08%	9.05%	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	24.60%	42.28%	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 FOUR OAKS 33 **Substation Location** 4255 Hwy. 27 South, Falmouth, KY 41040 Circuit Name and Number FOUR_OAKS 124 Circuit Location Morgan Total Circuit Length (Miles) 85.2 2017 Member Count 952 5 Year Average Member Count 943 Date of Last Trim October-16 Date of Next Trim 2022

	5 Year	Average	20	2017	
	SAIDI	SAIFI	SAIDI	SAIFI	
	123.4075882	1.190222239	129.5273109	1.281512605	
Total Minutes/Frequency	581670.00	5610.0000	123310.00	1220.0000	
Equipment Fault	9.08%	10.14%	6.38%	4.43%	
Wind	1.83%	2.23%	0.05%	0.08%	
Small Animal	5.15%	9.48%	5.40%	8.20%	
Squirrel	0.07%	0.12%	0.00%	0.00%	
Unknown Cause	3.93%	6.04%	0.54%	1.39%	
Deterioration	11.85%	8.20%	10.44%	11.39%	
Scheduled	2.76%	3.42%	0.04%	0.33%	
Power Supplier	0.00%	0.00%	0.00%	0.00%	
Bird	1.25%	1.07%	0.00%	0.00%	
Overload	0.90%	1.14%	0.00%	0.00%	
Public Accident	12.37%	7.68%	8.96%	5.00%	
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	0.06%	0.09%	0.00%	0.00%	
Lightning	3.92%	7.31%	4.89%	6.39%	
Tree - Non ROW	46.70%	42.75%	63.30%	62.79%	
Large Animal	0.00%	0.00%	0.00%	0.00%	
Vandalism	0.00%	0.00%	0.00%	0.00%	
Contractor	0.14%	0.32%	0.00%	0.00%	
Flash Flood	0.00%	0.00%	0.00%	0.00%	
	100%	100%	100%	100%	

Corrections to be made:

FOUR_OAKS 33
4255 Hwy. 27 South, Falmouth, KY 41040
FOUR_OAKS 134
Sunrise
136.4
750

743

November-17

2023

2017 5 Year Average SAIDI **SAIFI** SAIDI SAIFI 70.60204037 0.506666667 0.492285536 67.748 380.0000 262166.00 1828.0000 50811.00 Total Minutes/Frequency Equipment Fault 14.23% 15.86% 1.08% 1.84% Wind 1.53% 1.64% 0.00% 0.00% Small Animal 5.93% 14.00% 3.33% 9.21% Squirrel 0.07% 0.22% 0.01% 0.26% Unknown Cause 5.81% 7.66% 0.00% 0.00% 40.79% Deterioration 15.00% 17.51% 26.93% Scheduled 0.10% 0.77% 0.00% 0.00% 0.00% Power Supplier 0.00% 0.00% 0.00% Bird 0.05% 0.16% 0.00% 0.00% Overload 0.00% 0.00% 0.00% 0.00% Public Accident 10.28% 7.39% 20.79% 34.87% Ice/Snow 4.27% 1.09% 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 3.02% 2.19% 0.11% 0.53% Lightning 10.61% 13.13% 2.51% 2.11% Tree - Non ROW 29.09% 18.38% 31.16% 24.47% Large Animal 0.00% 0.00% 0.00% 0.00% Vandalism 0.00% 0.00% 0.00% 0.00% 0.00% Contractor 0.00% 0.00% 0.00% Flash Flood 0.00% 0.00% 0.00% 0.00% 100% 100% 100% 100%

Corrections to be made:

2016-2018 CWP conversion of deteriorating conductor.

Substation Name and Number HICKORY PLAINS Substation Location 1075 Old US 25, Berea, KY 40403 Circuit Name and Number HICKORY PLAINS 134 Circuit Location Red Lick Total Circuit Length (Miles) 73.7 2017 Member Count 1106 1094 5 Year Average Member Count Date of Last Trim May-13 2018 Date of Next Trim

	5 Year Average		20	2017	
	SAIDI	SAIFI	SAIDI	SAIFI	
	50.36677528	0.48217906	72.92585895	0.754068716	
Total Minutes/Frequency	275452.00	2637.0000	80656.00	834.0000	
Equipment Fault	6.36%	7.21%	0.10%	0.12%	
Wind	4.30%	4.02%	6.59%	7.67%	
Small Animal	9.34%	14.98%	13.84%	20.38%	
Squirrel	0.14%	0.34%	0.00%	0.00%	
Unknown Cause	8.00%	10.09%	3.15%	3.48%	
Deterioration	0.85%	0.53%	0.00%	0.00%	
Scheduled	0.31%	0.80%	0.00%	0.00%	
Power Supplier	0.00%	0.00%	0.00%	0.00%	
Bird	0.26%	0.42%	0.00%	0.00%	
Overload	2.14%	2.28%	0.00%	0.00%	
Public Accident	25.63%	17.67%	0.00%	0.00%	
Ice/Snow	0.00%	0.00%	0.00%	0.00%	
Fire	0.00%	0.00%	0.00%	0.00%	
Sag/Clearance	0.00%	0.00%	0.00%	0.00%	
Tree - ROW	14.22%	17.52%	31.89%	42.57%	
Lightning	10.37%	9.59%	15.63%	11.99%	
Tree - Non ROW	17.46%	13.35%	28.80%	13.79%	
Large Animal	0.64%	1.21%	0.00%	0.00%	
Vandalism	0.00%	0.00%	0.00%	0.00%	
Contractor	0.00%	0.00%	0.00%	0.00%	
Flash Flood	0.00%	0.00%	0.00%	0.00%	
	100%	100%	100%	100%	

Corrections to be made:

Circuit to be trimmed in 2018.

Date of Last Trim

Date of Next Trim

HICKORY PLAINS 9 1075 Old US 25, Berea, KY 40403 HICKORY PLAINS 154 North-City of Berea

North-City of Be 12.9 425 420 March-13 2018

	5 Year	5 Year Average		2017	
	SAIDI	SAIFI	SAIDI	SAIFI	
	46.03265315	0.576722683	46.73882353	0.731764706	
Total Minutes/Frequency	96739.00	1212.0000	19864.00	311.0000	
Equipment Fault	4.95%	3.63%	0.60%	0.32%	
Wind	5.25%	8.91%	15.33%	22.51%	
Small Animal	12.36%	18.23%	40.86%	42.44%	
Squirrel	0.07%	0.17%	0.00%	0.00%	
Unknown Cause	6.47%	8.99%	11.81%	11.25%	
Deterioration	3.32%	3.14%	0.00%	0.00%	
Scheduled	0.81%	0.74%	0.00%	0.00%	
Power Supplier	0.00%	0.00%	0.00%	0.00%	
Bird	0.00%	0.00%	0.00%	0.00%	
Overload	0.29%	0.33%	0.00%	0.00%	
Public Accident	0.25%	0.25%	0.00%	0.00%	
Ice/Snow	0.00%	0.00%	0.00%	0.00%	
Fire	0.00%	0.00%	0.00%	0.00%	
Sag/Clearance	0.00%	0.00%	0.00%	0.00%	
Tree - ROW	14.06%	11.47%	31.01%	22.51%	
Lightning	50.89%	40.18%	0.39%	0.96%	
Tree - Non ROW	1.28%	3.96%	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 to be trimmed in 2018. No corrections necessary at this time.

	5 Year Average		2017	
	SAIDI	SAIFI	SAIDI	SAIFI
	162.8591254	1.410804652	386.2272727	1.805194805
Total Minutes/Frequency	139541.02	1208.8062	59479.00	278.0000
Equipment Fault	4.57%	3.81%	0.00%	0.00%
Wind	7.58%	9.60%	0.00%	0.00%
Small Animal	3.42%	5.29%	3.40%	8.27%
Squirrel	0.17%	0.25%	0.00%	0.00%
Unknown Cause	3.19%	3.89%	3.05%	8.27%
Deterioration	8.17%	4.72%	0.00%	0.00%
Scheduled	0.55%	0.50%	0.00%	0.00%
Power Supplier	10.90%	24.22%	0.00%	0.00%
Bird	0.08%	0.17%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	1.08%	4.80%	0.00%	0.00%
Ice/Snow	0.30%	0.17%	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	0.06%	0.17%	0.00%	0.00%
Lightning	48.73%	35.82%	67.24%	54.68%
Tree - Non ROW	11.21%	6.62%	26.30%	28.78%
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:

Substation Name and Number MERCER_CO 25 754 Industrial Park Drive, Harrodsburg, KY 40330 Substation Location Circuit Name and Number MERCER_CO 104 Circuit Location Mercer Co. Schools Total Circuit Length (Miles) 2.1 20 2017 Member Count 20 5 Year Average Member Count Date of Last Trim January-16 2021 Date of Next Trim

	5 Year Average		2017	
	SAIDI	SAIFI	SAIDI	SAIFI
	36.70652174	0.488224638	40.8	0.5
Total Minutes/Frequency	3684.00	49.0000	816.00	10.0000
Equipment Fault	27.36%	16.33%	0.00%	0.00%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	23.32%	22.45%	100.00%	100.00%
Squirrel	7.38%	16.33%	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	18.57%	38.78%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	13.19%	4.08%	0.00%	0.00%
Ice/Snow	10.18%	2.04%	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:

Substation Name and Number **NEWBY** Substation Location 247 Maple Grove Rd., Richmond, KY 40475 Circuit Name and Number **NEWBY** 104 Circuit Location Hickory Hill Total Circuit Length (Miles) 14.6 2017 Member Count 256 5 Year Average Member Count 255 Date of Last Trim December-17 Date of Next Trim 2023

	5 Year	Average	2017	
	SAIDI	SAIFI	SAIDI	SAIFI
	128.6236968	0.819399057	131.6289063	1.203125
Total Minutes/Frequency	164037.00	1045.0000	33697.00	308.0000
Equipment Fault	4.60%	4.59%	0.54%	0.32%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	3.08%	7.56%	9.02%	15.91%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.91%	1.15%	4.21%	3.57%
Deterioration	0.16%	0.29%	0.55%	0.32%
Scheduled	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.41%	1.34%	0.00%	0.00%
Overload	0.05%	0.19%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Ice/Snow	0.10%	0.10%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	64.78%	55.79%	85.67%	79.87%
Lightning	2.73%	3.54%	0.00%	0.00%
Tree - Non ROW	23.19%	25.45%	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 the end of 2017.

Substation Name and Number **NEWBY Substation Location** 247 Maple Grove Rd., Richmond, KY 40475 Circuit Name and Number NEWBY 124 Circuit Location Shallow Ford Total Circuit Length (Miles) 14.6 2017 Member Count 156 5 Year Average Member Count 155 Date of Last Trim January-12 Date of Next Trim 2018

	5 Year	Average	20	2017	
	SAIDI	SAIFI	SAIDI	SAIFI	
	137.6939447	0.958629543	136.0897436	1.435897436	
Total Minutes/Frequency	107009.00	745.0000	21230.00	224.0000	
Equipment Fault	15.42%	22.42%	71.93%	67.86%	
Wind	0.94%	0.40%	4.40%	0.89%	
Small Animal	1.59%	3.76%	2.07%	3.13%	
Squirrel	0.30%	0.54%	0.00%	0.00%	
Unknown Cause	0.20%	0.40%	0.00%	0.00%	
Deterioration	0.34%	0.27%	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	0.04%	0.13%	0.00%	0.00%	
Public Accident	7.26%	14.50%	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	0.12%	0.13%	0.00%	0.00%	
Tree - ROW	4.29%	8.46%	21.60%	28.13%	
Lightning	4.50%	7.25%	0.00%	0.00%	
Tree - Non ROW	64.94%	41.61%	0.00%	0.00%	
Large Animal	0.06%	0.13%	0.00%	0.00%	
Vandalism	0.00%	0.00%	0.00%	0.00%	
Contractor	0.00%	0.00%	0.00%	0.00%	
Flash Flood	0.00%	0.00%	0.00%	0.00%	
	100%	100%	100%	100%	

Corrections to be made:

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

NINEVAH 22 1746 Clifton Rd., Lawrenceburg, KY 40342 NINEVAH 104 Wild Cat/ Fox Creek Office

44.3 406 403 December-17 2023

	5 Year A	Average	2017	
	SAIDI	SAIFI	SAIDI	SAIFI
	164.0630824	1.3169005	226.137931	1.724137931
Total Minutes/Frequency	330365.11	2651.7725	91812.00	700.0000
Equipment Fault	1.63%	2.38%	0.07%	0.14%
Wind	4.44%	3.36%	8.13%	7.43%
Small Animal	0.94%	2.56%	1.07%	3.14%
Squirrel	0.51%	1.55%	0.00%	0.00%
Unknown Cause	1.95%	4.11%	0.00%	0.00%
Deterioration	3.41%	2.34%	0.33%	0.57%
Scheduled	1.49%	5.09%	0.00%	0.00%
Power Supplier	43.11%	29.37%	0.00%	0.00%
Bird	0.01%	0.04%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.46%	0.83%	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	7.73%	6.15%	0.52%	0.57%
Lightning	8.22%	18.03%	5.64%	9.00%
Tree - Non ROW	26.11%	24.21%	84.24%	79.14%
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:

Date of Next Trim

NINEVAH 22 1746 Clifton Rd., Lawrenceburg, KY 40342 NINEVAH 134 Lane's Mill/Dove Creek Estates

59.0 953 945 December-17 2023

	5 Year	Average	20	17
	SAIDI	SAIFI	SAIDI	SAIFI
	241.1537703	2.166218256	188.2109129	2.277019937
Total Minutes/Frequency	1139840.89	10238.8784	179365.00	2170.0000
Equipment Fault	13.29%	20.14%	0.39%	0.32%
Wind	18.96%	19.47%	41.25%	58.62%
Small Animal	1.29%	2.51%	2.27%	3.00%
Squirrel	0.43%	0.88%	0.47%	0.74%
Unknown Cause	3.82%	5.57%	9.45%	12.40%
Deterioration	3.04%	2.34%	0.68%	0.83%
Scheduled	0.90%	2.69%	0.16%	1.20%
Power Supplier	30.64%	18.50%	0.00%	0.00%
Bird	0.57%	1.43%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	3.53%	9.75%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.01%	0.02%	0.00%	0.00%
Sag/Clearance	0.33%	0.40%	0.00%	0.00%
Tree - ROW	2.15%	1.81%	5.60%	4.10%
Lightning	2.00%	1.88%	1.71%	1.01%
Tree - Non ROW	19.02%	12.64%	38.02%	17.79%
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:

Date of Next Trim

Substation Name and Number
Substation Location
Circuit Name and Number
Circuit Location
Total Circuit Length (Miles)
2017 Member Count
5 Year Average Member Count
Date of Last Trim

NORTH MADISON 15
2064 Jacks Creek Pike, Richmond KY 40475
NORTH MADISON 114

Boones Trace 29.2 480 470 November-16 2022

	5 Year Average		2	2017	
	SAIDI	SAIFI	SAIDI	SAIFI	
	97.85684536	0.699035208	122.41875	0.608333333	
Total Minutes/Frequency	230001.00	1643.0000	58761.00	292.0000	
Equipment Fault	56.79%	34.88%	81.21%	56.85%	
Wind	0.00%	0.00%	0.00%	0.00%	
Small Animal	4.16%	6.21%	4.86%	10.62%	
Squirrel	0.00%	0.00%	0.00%	0.00%	
Unknown Cause	0.64%	1.22%	1.14%	3.42%	
Deterioration	0.41%	0.67%	1.16%	3.42%	
Scheduled	0.83%	2.07%	1.19%	5.82%	
Power Supplier	0.00%	0.00%	0.00%	0.00%	
Bird	0.00%	0.00%	0.00%	0.00%	
Overload	6.36%	6.82%	0.00%	0.00%	
Public Accident	9.96%	18.87%	10.44%	19.86%	
Ice/Snow	0.57%	0.85%	0.00%	0.00%	
Fire	0.00%	0.00%	0.00%	0.00%	
Sag/Clearance	0.10%	0.12%	0.00%	0.00%	
Tree - ROW	0.07%	0.12%	0.00%	0.00%	
Lightning	2.00%	2.56%	0.00%	0.00%	
Tree - Non ROW	18.10%	25.62%	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.

NORTH MADISON 15 2064 Jacks Creek Pike, Richmond KY 40475 NORTH MADISON 124

Indigo Run 17.3 260 255 November-15 2021

	5 Year	5 Year Average		2017	
	SAIDI	SAIFI	SAIDI	SAIFI	
	3.142663834	0.034560662	3.846153846	0.053846154	
Total Minutes/Frequency	4001.00	44.0000	1000.00	14.0000	
Equipment Fault	20.09%	11.36%	5.50%	7.14%	
Wind	0.00%	0.00%	0.00%	0.00%	
Small Animal	14.92%	18.18%	0.00%	0.00%	
Squirrel	0.00%	0.00%	0.00%	0.00%	
Unknown Cause	9.67%	13.64%	5.00%	7.14%	
Deterioration	2.95%	4.55%	11.80%	14.29%	
Scheduled	7.37%	9.09%	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	0.00%	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	4.77%	2.27%	0.00%	0.00%	
Lightning	35.87%	34.09%	60.30%	50.00%	
Tree - Non ROW	4.35%	6.82%	17.40%	21.43%	
Large Animal	0.00%	0.00%	0.00%	0.00%	
Vandalism	0.00%	0.00%	0.00%	0.00%	
Contractor	0.00%	0.00%	0.00%	0.00%	
Flash Flood	0.00%	0.00%	0.00%	0.00%	
	100%	100%	100%	100%	

Corrections to be made:

Substation Name and Number	OXFORD	40
Substation Location	3466 Cynthiana Rd., Georg	getown, KY 40324
Circuit Name and Number	OXFORD	104
Circuit Location	Carrick Pi	ke
Total Circuit Length (Miles)	38.6	
2017 Member Count	334	
5 Year Average Member Count	272	
Date of Last Trim	June-14	
Date of Next Trim	2020	

	5 Year	Average	20	2017	
	SAIDI	SAIFI	SAIDI	SAIFI	
	254.0876257	1.532129087	438.8083832	2.104790419	
Total Minutes/Frequency	344931.34	2079.9098	146562.00	703.0000	
Equipment Fault	55.24%	34.09%	46.95%	40.11%	
Wind	0.06%	0.05%	0.00%	0.00%	
Small Animal	0.45%	1.06%	0.39%	1.00%	
Squirrel	0.11%	0.19%	0.00%	0.00%	
Unknown Cause	0.83%	1.73%	0.00%	0.00%	
Deterioration	1.65%	2.79%	0.00%	0.00%	
Scheduled	0.60%	2.84%	0.00%	0.00%	
Power Supplier	12.01%	27.79%	0.00%	0.00%	
Bird	0.06%	0.19%	0.00%	0.00%	
Overload	0.00%	0.00%	0.00%	0.00%	
Public Accident	0.28%	0.67%	0.38%	1.71%	
Ice/Snow	0.00%	0.00%	0.00%	0.00%	
Fire	0.00%	0.00%	0.00%	0.00%	
Sag/Clearance	0.00%	0.00%	0.00%	0.00%	
Tree - ROW	3.57%	5.24%	2.75%	5.26%	
Lightning	7.11%	10.14%	13.33%	20.91%	
Tree - Non ROW	18.04%	13.22%	36.19%	31.01%	
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%	

<u>Corrections to be made:</u> Equipment repaired at time of outage. No corrections necessary at this time.

Substation Name and Number
Substation Location
Circuit Name and Number
Circuit Location
Total Circuit Length (Miles)
2017 Member Count

5 Year Average Member Count Date of Last Trim Date of Next Trim POWELL TAYLOR

28

1024 Powell Taylor Rd., Lawrenceburg, KY 40342

POWELL TAYLOR 114

Birdie Rd 56.9 376 372 November-17

2023

	5 Year Average		2017	
	SAIDI	SAIFI	SAIDI	SAIFI
	162.1254368	1.447183345	243.481383	2.385638298
Total Minutes/Frequency	301244.00	2689.0000	91549.00	897.0000
Equipment Fault	3.84%	3.16%	0.12%	0.11%
Wind	23.21%	15.58%	2.55%	8.58%
Small Animal	3.11%	3.12%	7.73%	4.46%
Squirrel	0.55%	1.12%	0.09%	0.22%
Unknown Cause	1.36%	2.23%	0.00%	0.00%
Deterioration	0.17%	0.30%	0.05%	0.11%
Scheduled	0.68%	2.49%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	2.46%	2.60%	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	4.53%	6.55%	4.04%	5.46%
Lightning	10.59%	14.28%	22.20%	32.33%
Tree - Non ROW	47.63%	44.14%	57.06%	35.45%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	1.87%	4.43%	6.15%	13.27%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Substation Name and Number

Substation Location

Circuit Name and Number

Circuit Location

Total Circuit Length (Miles)

2017 Member Count

5 Year Average Member Count

Date of Last Trim

Date of Next Trim

POWELL TAYLOR

28

1024 Powell Taylor Rd., Lawrenceburg, KY 40342

POWELL TAYLOR

124

Puckett Rd

33.4

343

339

November-12

2018

5 Year Average

2017

SAIDI 67.65545226 **SAIFI**

SAIDI

SAIFI 0.534508574 108.1895044 0.577259475

Total Minutes/Frequency	114677.00	906.0000	37109.00	198.0000
Equipment Fault	9.87%	12.25%	0.00%	0.00%
Wind	6.03%	10.93%	16.28%	45.45%
Small Animal	15.77%	18.87%	0.75%	2.53%
Squirrel	0.31%	0.66%	0.00%	0.00%
Unknown Cause	2.76%	5.52%	0.00%	0.00%
Deterioration	1.51%	2.54%	0.10%	0.51%
Scheduled	4.33%	5.85%	0.46%	1.01%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.38%	0.77%	0.00%	0.00%
Overload	0.09%	0.22%	0.00%	0.00%
Public Accident	0.52%	1.21%	0.25%	0.51%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.61%	1.32%	0.00%	0.00%
Tree - ROW	0.04%	0.11%	0.00%	0.00%
Lightning	12.62%	13.13%	0.38%	2.53%
Tree - Non ROW	45.15%	26.60%	81.78%	47.47%
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:

Substation Name and Number

Substation Location

Circuit Name and Number

Circuit Location

Total Circuit Length (Miles)

2017 Member Count

5 Year Average Member Count

Date of Last Trim

Date of Next Trim

POWELL TAYLOR

28

1024 Powell Taylor Rd., Lawrenceburg, KY 40342

POWELL TAYLOR

134

Walmart/Briar Creek

10.2

328

324

February-17

2023

	5 Year	Average	20	017
	SAIDI	SAIFI	SAIDI	SAIFI
	24.18549493	0.24184261	13.76219512	0.283536585
Total Minutes/Frequency	39202.00	392.0000	4514.00	93.0000
Equipment Fault	6.62%	4.34%	4.21%	1.08%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	4.12%	11.99%	17.46%	16.13%
Squirrel	2.49%	4.34%	0.00%	0.00%
Unknown Cause	0.41%	1.02%	0.00%	0.00%
Deterioration	3.43%	12.24%	1.06%	1.08%
Scheduled	10.26%	17.86%	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	1.18%	1.53%	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	0.34%	0.51%	0.00%	0.00%
Tree - ROW	0.00%	0.00%	0.00%	0.00%
Lightning	9.84%	3.32%	2.50%	1.08%
Tree - Non ROW	52.06%	21.43%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	9.25%	21.43%	74.77%	80.65%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

POWELL TAYLOR 28 1024 Powell Taylor Rd., Lawrenceburg, KY 40342 POWELL TAYLOR 144 Powell Taylor/Glenview

9.2 182 180 July-17 2023

	5 Year	5 Year Average		2017	
	SAIDI	SAIFI	SAIDI	SAIFI	
	60.1281529	0.910611461	21.32967033	1.263736264	
Total Minutes/Frequency	54079.00	819.0000	3882.00	230.0000	
Equipment Fault	7.07%	3.79%	0.00%	0.00%	
Wind	0.00%	0.00%	0.00%	0.00%	
Small Animal	5.69%	5.74%	32.43%	9.57%	
Squirrel	1.76%	2.32%	4.95%	1.74%	
Unknown Cause	2.75%	2.44%	0.00%	0.00%	
Deterioration	2.81%	2.81%	0.00%	0.00%	
Scheduled	2.04%	22.47%	28.44%	80.00%	
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	14.76%	25.27%	10.43%	3.91%	
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	13.46%	6.72%	4.95%	1.74%	
Lightning	6.35%	5.62%	6.59%	1.74%	
Tree - Non ROW	43.31%	22.83%	12.21%	1.30%	
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:

SOUTH ELKHORN 12
3251 Keene Rd., Nicholasville, KY 40356
SOUTH ELKHORN 104
Firebrook/Dogwood Trace
21.3
1078

1075

January-15

2019

5 Year Average 2017 SAIDI SAIFI SAIDI SAIFI 0.536614081 58.25020308 1.080975781 30.28245864 2884.2919 62793.72 1165.2919 Total Minutes/Frequency 162767.72 **Equipment Fault** 24.07% 40.63% 11.57% 1.97% Wind 0.00% 0.00% 0.00% 0.00% Small Animal 2.46% 2.01% 4.48% 3.26% 0.86% 0.94% 2.07% 2.15% Squirrel 0.00% 0.00% 0.00% Unknown Cause 0.00% 0.00% 0.00% 0.55% 0.31% Deterioration 0.34% 0.52% 0.00% 0.00% Scheduled 31.02% 37.25% 80.41% 92.19% Power Supplier Bird 0.45% 0.62% 0.00% 0.00% Overload 0.57% 0.17% 1.47% 0.43% 37.26% 0.00% 0.00% Public Accident 15.36% 0.83% 0.66% 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 1.49% 1.42% 0.00% 0.00% Tree - ROW Lightning 0.10% 0.10% 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% 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

100%

100%

100%

100%

Corrections to be made:

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

SOUTH ELKHORN 12
3251 Keene Rd., Nicholasville, KY 40356
SOUTH ELKHORN 114
Bellarive & Equestrian Woods
16.8
427

426 May-15 2019

	5 Year Average		20	2017	
	SAIDI	SAIFI	SAIDI	SAIFI	
	48.05517619	0.669091801	46.83832923	0.996560196	
Total Minutes/Frequency	102311.97	1424.5312	19999.97	425.5312	
Equipment Fault	2.59%	1.12%	0.00%	0.00%	
Wind	0.40%	0.14%	0.00%	0.00%	
Small Animal	36.89%	29.55%	0.00%	0.00%	
Squirrel	0.58%	0.77%	0.00%	0.00%	
Unknown Cause	0.45%	0.49%	0.00%	0.00%	
Deterioration	8.39%	2.67%	0.00%	0.00%	
Scheduled	0.02%	0.21%	0.00%	0.00%	
Power Supplier	19.55%	29.87%	100.00%	100.00%	
Bird	23.34%	29.41%	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	1.09%	1.68%	0.00%	0.00%	
Lightning	0.00%	0.00%	0.00%	0.00%	
Tree - Non ROW	4.10%	2.39%	0.00%	0.00%	
Large Animal	0.00%	0.00%	0.00%	0.00%	
Vandalism	0.00%	0.00%	0.00%	0.00%	
Contractor	2.59%	1.68%	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 SOUTH ELKHORN 12 3251 Keene Rd., Nicholasville, KY 40356 Substation Location Circuit Name and Number SOUTH ELKHORN 124 Champions Circuit Location 29.5 Total Circuit Length (Miles) 402 2017 Member Count 5 Year Average Member Count 401 December-15 Date of Last Trim Date of Next Trim 2021

	5 Year Average		2017	
	SAIDI	SAIFI	SAIDI	SAIFI
	64.57742748	0.590010518	65.42041878	1.203027858
Total Minutes/Frequency	129439.01	1182.6172	26299.01	483.6172
Equipment Fault	3.25%	3.04%	16.02%	7.44%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	2.33%	4.82%	0.00%	0.00%
Squirrel	2.16%	4.65%	6.35%	6.62%
Unknown Cause	2.92%	3.04%	0.00%	0.00%
Deterioration	1.70%	1.10%	0.00%	0.00%
Scheduled	0.66%	0.59%	0.00%	0.00%
Power Supplier	14.55%	33.88%	71.60%	82.84%
Bird	0.52%	1.35%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	0.81%	0.85%	2.68%	0.83%
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	50.38%	36.70%	3.35%	2.27%
Lightning	4.45%	2.62%	0.00%	0.00%
Tree - Non ROW	16.27%	7.36%	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.

SOUTH ELKHORN 12
3251 Keene Rd., Nicholasville, KY 40356
SOUTH ELKHORN 134
Keene/South Elkhorn Rd
8.5
128
128

February-13

2018

	5 Year	Average	2017	
	SAIDI	SAIFI	SAIDI	SAIFI
	19.19144517	0.472503421	71.93989174	1.160622697
Total Minutes/Frequency	12248.31	301.5597	9208.31	148.5597
Equipment Fault	1.72%	0.66%	0.00%	0.00%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	0.68%	0.33%	0.00%	0.00%
Squirrel	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Deterioration	0.60%	0.33%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Power Supplier	48.95%	42.30%	65.11%	85.86%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	4.72%	6.96%	0.00%	0.00%
Public Accident	42.82%	49.08%	34.89%	14.14%
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	0.51%	0.33%	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. Public Accident caused outages. No corrections necessary at this time.

Substation Name and Number SOUTH JESSAMINE 14 1307 Chrisman Mill Rd., Nicholasville, KY 40356 Substation Location Circuit Name and Number SOUTH JESSAMINE 104 John Watt's Drive Circuit Location 4.3 Total Circuit Length (Miles) 23 2017 Member Count 5 Year Average Member Count 22 December-16 Date of Last Trim Date of Next Trim 2022

	5 Year Average		2017	
	SAIDI	SAIFI	SAIDI	SAIFI
	4.437335944	0.044551566	8.47826087	0.086956522
Total Minutes/Frequency	498.00	5.0000	195.00	2.0000
Equipment Fault	47.79%	40.00%	0.00%	0.00%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	20.48%	20.00%	52.31%	50.00%
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	13.05%	20.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
ce/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%
Γree - ROW	0.00%	0.00%	0.00%	0.00%
Lightning	0.00%	0.00%	0.00%	0.00%
Γree - Non ROW	18.67%	20.00%	47.69%	50.00%
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:

Substation Name and Number SOUTH JESSAMINE 1307 Chrisman Mill Rd., Nicholasville, KY 40356 Substation Location Circuit Name and Number SOUTH JESSAMINE Circuit Location Total Circuit Length (Miles) 2017 Member Count 5 Year Average Member Count Date of Last Trim Date of Next Trim

	5 Year Average		2017	
	SAIDI	SAIFI	SAIDI	SAIFI
	104.634398	0.728665608	200.6666667	0.784946237
Total Minutes/Frequency	284897.00	1984.0000	111972.00	438.0000
Equipment Fault	19.40%	14.47%	9.16%	4.34%
Wind	26.47%	9.32%	67.23%	42.01%
Small Animal	2.20%	5.49%	0.48%	2.28%
Squirrel	0.68%	1.61%	1.03%	4.57%
Unknown Cause	1.35%	2.67%	0.00%	0.00%
Deterioration	2.36%	2.72%	0.00%	0.00%
Scheduled	0.66%	0.76%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.59%	2.47%	0.00%	0.00%
Overload	0.10%	0.25%	0.00%	0.00%
Public Accident	17.92%	26.92%	4.06%	20.78%
Ice/Snow	0.61%	0.50%	0.00%	0.00%
Fire	11.06%	10.53%	0.00%	0.00%
Sag/Clearance	0.31%	1.36%	0.00%	0.00%
Tree - ROW	1.20%	2.27%	2.34%	7.76%
Lightning	7.61%	12.25%	5.76%	9.36%
Tree - Non ROW	7.46%	6.30%	9.95%	8.68%
Large Animal	0.03%	0.05%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.05%	0.01%	0.23%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

14

124

Sulpher Well

59.3

558

545

June-17

2023

Corrections to be made:

Storm related outages. No corrections necessary at this time.

Date of Next Trim

SOUTH JESSAMINE 14
1307 Chrisman Mill Rd., Nicholasville, KY 40356
SOUTH JESSAMINE 134
Chrisman Mill

Chrisman Mil 112.2 889 868 January-15 2021

	5 Year	Average	20	017
	SAIDI	SAIFI	SAIDI	SAIFI
	109.0643978	0.921180045	256.1687289	1.494938133
Total Minutes/Frequency	473112.00	3996.0000	227734.00	1329.0000
Equipment Fault	38.90%	27.63%	67.93%	67.27%
Wind	2.87%	0.95%	5.76%	2.48%
Small Animal	3.39%	5.21%	4.20%	7.90%
Squirrel	1.70%	1.88%	0.11%	0.30%
Unknown Cause	4.88%	6.08%	0.58%	1.20%
Deterioration	1.88%	1.55%	0.02%	0.08%
Scheduled	1.01%	19.87%	0.08%	0.15%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	0.75%	1.65%	0.33%	0.83%
Overload	0.01%	0.03%	0.00%	0.00%
Public Accident	19.95%	11.86%	0.55%	1.05%
Ice/Snow	1.12%	1.23%	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	0.93%	1.28%	0.99%	2.26%
Lightning	8.41%	11.89%	0.73%	1.35%
Tree - Non ROW	14.19%	8.91%	18.72%	15.12%
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:

Substation Name and Number SOUTH POINT 17 Laudale Drive, Nicholasville, KY 40356 Substation Location SOUTH POINT Circuit Name and Number 114 Southpoint Drive Circuit Location 6.5 Total Circuit Length (Miles) 431 2017 Member Count 5 Year Average Member Count 407 February-15 Date of Last Trim Date of Next Trim 2021

	5 Year	5 Year Average		2017	
	SAIDI	SAIFI	SAIDI	SAIFI	
	0.964489753	0.009821688	1.05800464	0.009280742	
Total Minutes/Frequency	1964.00	20.0000	456.00	4.0000	
Equipment Fault	23.22%	20.00%	100.00%	100.00%	
Wind	0.00%	0.00%	0.00%	0.00%	
Small Animal	15.99%	30.00%	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	2.55%	10.00%	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	3.11%	5.00%	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	13.75%	20.00%	0.00%	0.00%	
Lightning	41.40%	15.00%	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:

WEST BEREA 8
5350 Walnutmeadow Rd., Berea, KY 40403
WEST BEREA 134
Wallacton
36.1
462
457

December-15

2021

	5 Year Average		2017	
	SAIDI	SAIFI	SAIDI	SAIFI
	151.8580025	1.666939864	129.1298701	2.166666667
Total Minutes/Frequency	346635.00	3805.0000	59658.00	1001.0000
Equipment Fault	24.30%	19.13%	56.22%	26.37%
Wind	0.97%	1.47%	0.21%	0.20%
Small Animal	10.35%	15.61%	12.53%	8.29%
Squirrel	0.27%	0.53%	1.07%	1.00%
Unknown Cause	20.17%	14.98%	5.68%	4.00%
Deterioration	0.64%	1.08%	0.21%	0.20%
Scheduled	0.31%	0.21%	0.00%	0.00%
Power Supplier	9.65%	11.72%	0.00%	0.00%
Bird	0.14%	0.21%	0.00%	0.00%
Overload	0.03%	0.05%	0.00%	0.00%
Public Accident	17.64%	12.85%	0.00%	0.00%
Ice/Snow	0.03%	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	5.76%	3.07%	2.87%	1.30%
Lightning	2.10%	1.60%	2.34%	1.50%
Tree - Non ROW	7.64%	17.45%	18.85%	57.14%
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:

WEST BEREA 8
5350 Walnutmeadow Rd., Berea, KY 40403
WEST BEREA 154
Dogwood

Dogwood 44.5 1215 1201 November-15 2021

	5 Year Average		20	2017	
	SAIDI	SAIFI	SAIDI	SAIFI	
	122.7242768	1.069963324	134.1045267	1.167078189	
Total Minutes/Frequency	736715.00	6423.0000	162937.00	1418.0000	
Equipment Fault	9.20%	7.99%	40.22%	34.70%	
Wind	4.94%	8.38%	0.00%	0.00%	
Small Animal	3.97%	6.93%	5.34%	6.77%	
Squirrel	0.23%	0.62%	0.12%	0.35%	
Unknown Cause	2.22%	2.65%	0.07%	0.07%	
Deterioration	0.01%	0.02%	0.00%	0.00%	
Scheduled	0.94%	0.75%	2.55%	2.05%	
Power Supplier	11.38%	17.17%	0.00%	0.00%	
Bird	0.00%	0.00%	0.00%	0.00%	
Overload	0.06%	0.08%	0.00%	0.00%	
Public Accident	20.02%	19.55%	0.37%	1.55%	
Ice/Snow	0.00%	0.00%	0.00%	0.00%	
Fire	0.00%	0.00%	0.00%	0.00%	
Sag/Clearance	0.14%	0.30%	0.00%	0.00%	
Tree - ROW	4.30%	5.46%	0.99%	1.97%	
Lightning	7.84%	9.73%	0.21%	0.35%	
Tree - Non ROW	34.73%	20.38%	50.13%	52.19%	
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:

Substation Name and Number WEST NICHOLASVILLE 398 Bass Pond Glen Dr., Nicholasville, KY 40356 Substation Location Circuit Name and Number WEST NICHOLASVILLE Shun Pike Circuit Location 47.8 Total Circuit Length (Miles) 420 2017 Member Count 418 5 Year Average Member Count Date of Last Trim April-15 Date of Next Trim 2021

3

124

	5 Year	Average	20	017
	SAIDI	SAIFI	SAIDI	SAIFI
	88.4387708	0.844771624	230.599576	2.402481834
Total Minutes/Frequency	184676.82	1764.0424	96851.82	1009.0424
Equipment Fault	0.67%	0.74%	0.33%	0.20%
Wind	0.18%	0.23%	0.35%	0.40%
Small Animal	13.91%	29.82%	19.66%	42.22%
Squirrel	0.67%	1.19%	1.28%	2.08%
Unknown Cause	1.71%	2.83%	0.00%	0.00%
Deterioration	0.11%	0.23%	0.00%	0.00%
Scheduled	0.77%	0.96%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	4.81%	6.58%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	15.43%	10.26%	3.83%	2.68%
Ice/Snow	6.38%	5.39%	0.00%	0.00%
Fire	0.19%	0.17%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	9.07%	5.27%	0.00%	0.00%
Lightning	4.79%	3.97%	1.00%	2.08%
Tree - Non ROW	41.30%	32.37%	73.56%	50.34%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Date of Next Trim

WEST NICHOLASVILLE

3

398 Bass Pond Glen Dr., Nicholasville, KY 40356 134

WEST NICHOLASVILLE

Lone Oak/Clear Creek

45.7 996

990

May-17

2023

	5 Year	Average	2017	
	SAIDI	SAIFI	SAIDI	SAIFI
	57.27930212	0.664278523	45.3228118	1.044679195
Total Minutes/Frequency	283646.52	3289.5005	45141.52	1040.5005
Equipment Fault	31.73%	22.68%	1.74%	1.25%
Wind	36.18%	28.09%	0.00%	0.00%
Small Animal	17.93%	34.49%	95.63%	96.06%
Squirrel	0.39%	0.82%	2.39%	2.50%
Unknown Cause	0.27%	0.46%	0.00%	0.00%
Deterioration	0.29%	0.24%	0.00%	0.00%
Scheduled	0.22%	0.36%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Bird	1.41%	2.55%	0.23%	0.19%
Overload	2.02%	3.19%	0.00%	0.00%
Public Accident	0.21%	0.30%	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	2.58%	1.98%	0.00%	0.00%
Lightning	1.46%	1.43%	0.00%	0.00%
Tree - Non ROW	5.31%	3.40%	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:

5 Year Average Member Count Date of Last Trim Date of Next Trim WEST NICHOLASVILLE

3

398 Bass Pond Glen Dr., Nicholasville, KY 40356

WEST NICHOLASVILLE

154

North Main St 8.6 693

689 November-16

2022

	5 Year	Average	20	017
	SAIDI	SAIFI	SAIDI	SAIFI
	16.62666479	0.39225529	49.64697859	1.127734359
Total Minutes/Frequency	57287.36	1351.5199	34405.36	781.5199
Equipment Fault	3.51%	2.15%	0.00%	0.00%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	58.78%	58.42%	96.39%	98.21%
Squirrel	0.59%	0.67%	0.00%	0.00%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Deterioration	0.81%	0.44%	1.34%	0.77%
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	13.77%	23.38%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Tree - ROW	11.14%	8.29%	0.00%	0.00%
Lightning	11.41%	6.66%	2.27%	1.02%
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:

WEST NICHOLASVILLE 3
398 Bass Pond Glen Dr., Nicholasville, KY 40356
WEST NICHOLASVILLE 164

Squire Lake 6.3 445 442 January-13 2019

	5 Year Average		2017	
	SAIDI SAIFI		SAIDI	SAIFI
	30.95614256	0.498366327	55.37980607	1.138490394
Total Minutes/Frequency	68490.01	1102.6282	24644.01	506.6282
Equipment Fault	54.27%	44.17%	1.62%	0.39%
Wind	0.34%	0.27%	0.00%	0.00%
Small Animal	34.96%	48.40%	87.57%	96.05%
Squirrel	0.29%	0.63%	0.46%	0.59%
Unknown Cause	0.55%	1.18%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Scheduled	0.90%	0.27%	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	4.67%	3.54%	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	0.30%	0.18%	0.00%	0.00%
Tree - Non ROW	3.72%	1.36%	10.35%	2.96%
Large Animal	0.00%	0.00%	0.00%	0.00%
Vandalism	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Flash Flood	0.00%	0.00%	0.00%	0.00%
	100%	100%	100%	100%

Corrections to be made:

Substation Name and Number Substation Location

Circuit Name and Number

Circuit Location

Total Circuit Length (Miles)

2017 Member Count

5 Year Average Member Count

Date of Last Trim

Date of Next Trim

WEST NICHOLASVILLE 2

18

398 Bass Pond Glen Dr., Nicholasville, KY 40356

WEST NICHOLASVILLE 2

214

Bell Place/Keene Crossing

11.0

683

675

December-15

2021

	5 Year Average		2017	
	SAIDI	SAIFI	SAIDI	SAIFI
	5.985645875	0.092497351	7.588579795	0.105417277
Total Minutes/Frequency	20190.00	312.0000	5183.00	72.0000
Equipment Fault	66.42%	55.45%	51.17%	23.61%
Wind	0.00%	0.00%	0.00%	0.00%
Small Animal	9.84%	12.18%	23.25%	29.17%
Squirrel	11.08%	17.63%	25.58%	47.22%
Unknown Cause	8.76%	10.90%	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	0.51%	0.96%	0.00%	0.00%
Lightning	3.40%	2.88%	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:



DISTRIBUTION RIGHT-OF-WAY VEGETATION MANAGEMENT 2018 PLAN/ 2017 PLAN REVIEW

April 2018

Blue Grass Energy Vegetation Management Plan

2017 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 2017.

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.

2015-2018 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 18 distribution circuits scheduled in 2017 for a total of 736 miles of distribution line. In 2018, there are 27 distribution circuits, for a total of 658 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	2015	2016	2017	2018
Scheduled	718	796	736	658
Completed	712	796	736	TBD

Of the 2015 & 2016 maintenance year mileage, 16 circuits consisting of 731 miles were identified for selective herbicide application and completed in 2017. Herbicide application of 18 circuits

consisting of 731 miles from the 2016 & 2017 maintenance years are scheduled to be completed in 2018.

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

Maintenance Year - Herbicide	2016	2017	2018
Scheduled	591	816	731
Completed	591	816	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 2017 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 2018 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	2013	2014	2015	2016	2017
TOTALS	65	91	77	86	110

[†]Outages on primary conductor excluding major event days

2017 VEGETATION MANAGEMENT PLAN REVIEW

No Changes were implemented in 2017 to the ROW management plan. The "Distribution Right-Of-Way Vegetation Management Plan" Dated January 2017 reiterated in detail the processes that were built into the plan.

In 2017, all scheduled mileage was completed within the 2017 calendar year.

Listed below are some of the processes used in 2017:

- 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 general 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 individually and 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.

2018 VEGETATION MANAGEMENT PLAN

In addition to continuing the Distribution Right-Of-Way Vegetation Management Plans outlined for 2017 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
- > 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.

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	5-6	Annual inspection and selective maintenance