

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

UTILITY NAME	Blue Grass Energy
REPORT PREPARED BY	Chris Brewer
E-MAIL ADDRESS OF PREPARER	<u>chrisb@bgenergy.com</u>
PHONE NUMBER OF PREPARER	859-885-2103

SECTION 2: REPORTING YEAR

CALENDAR YEAR OF REPORT	<u>2022</u>
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SECTION 3: MAJOR EVENT DAYS (MED)

	T_{MED}	<u>13.18</u>
FIRST DATE USED TO DETERMINE T_{MED}		<u>1/1/2017</u>
LAST DATE USED TO DETERMINE T_{MED}		<u>12/31/2021</u>
NUMBER OF MED IN REPORT YEAR		<u>3</u>

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	<u>61213</u>	TOTAL CIRCUITS	<u>139</u>
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Excluding MED

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	<u>146.97</u>	SAIDI	<u>192.05</u>
SAIFI	<u>1.21</u>	SAIFI	<u>1.59</u>

Including MED

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	<u>262.76</u>	SAIDI	<u>259.98</u>
SAIFI	<u>1.49</u>	SAIFI	<u>1.83</u>

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.

SECTION 7: UTILITY COMMENTS

41-124

Substation Name and Number 3M#2 41
Substation Location Hwy 982, Cynthiana, KY 41031
Circuit Name and Number 3M #2 124
Circuit Location Industrial Park
Total Circuit Length (Miles) 52.77
2022 Member Count 413
Date Of Last Trim 2018

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	62.27	0.4300	94.76	0.7000
Bird	0.33%	1.02%	0.84%	2.46%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	14.28%	10.67%	36.76%	25.61%
Equipment Fault	0.86%	1.02%	0.84%	0.70%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	41.90%	24.71%	7.15%	7.02%
Overload	3.46%	3.80%	8.92%	9.12%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	1.79%	2.19%	1.04%	0.35%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	4.98%	14.62%	7.35%	12.98%
Small Animal	13.94%	16.23%	6.58%	9.12%
Squirrel	0.22%	0.88%	0.45%	1.75%
Tree - Non ROW	4.96%	10.67%	1.86%	4.91%
Tree - ROW	0.06%	0.15%	0.16%	0.35%
Unknown Cause	10.79%	11.70%	26.76%	25.26%
Wind	2.43%	2.34%	1.30%	0.35%

Corrections to be made:

Equipment repaired at time of the outage. No other corrections needed at this time.

42-134

Substation Name and Number 3M #2 42
Substation Location Hwy 982, Cynthiana, KY 41031
Circuit Name and Number 3M #2 134
Circuit Location Mudlick/Smalley Branch
Total Circuit Length (Miles) 140.87
2022 Member Count 1339
Date Of Last Trim 2022

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	206.48	1.6600	263.17	1.6900
Bird	0.38%	0.82%	1.44%	3.80%
Contractor	0.00%	0.01%	0.00%	0.00%
Deterioration	0.31%	0.35%	0.03%	0.09%
Equipment Fault	15.00%	21.04%	4.85%	6.61%
Ice/Snow	2.50%	0.95%	9.37%	4.42%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	1.27%	1.13%	2.53%	2.37%
Overload	1.13%	1.19%	4.24%	5.54%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	0.16%	0.22%	0.00%	0.00%
Sag/Clearance	9.19%	12.89%	0.00%	0.00%
Scheduled	1.49%	1.75%	1.18%	2.64%
Small Animal	6.30%	7.99%	0.88%	2.41%
Squirrel	2.68%	3.13%	9.11%	12.47%
Tree - Non ROW	13.18%	9.37%	40.01%	31.37%
Tree - ROW	11.64%	12.41%	5.87%	5.99%
Unknown Cause	6.74%	7.13%	10.49%	13.49%
Wind	28.02%	19.63%	9.97%	8.76%

Corrections to be made:

No corrections needed at this time.

41-154

Substation Name and Number 3M #2 41
Substation Location Hwy 982, Cynthiana, KY 41032
Circuit Name and Number 3M #2 154
Circuit Location Paris
Total Circuit Length (Miles) 62.3
2022 Member Count 560
Date Of Last Trim 2022

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
Bird	0.07%	0.18%	0.12%	0.38%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	23.24%	13.23%	31.91%	20.18%
Equipment Fault	12.48%	6.61%	18.96%	9.47%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.72%	1.46%	0.00%	0.00%
Lightning	2.14%	3.78%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	1.47%	2.05%	0.99%	0.92%
Sag/Clearance	9.92%	9.52%	17.17%	20.14%
Scheduled	2.98%	15.28%	2.34%	8.32%
Small Animal	0.31%	0.65%	0.02%	0.04%
Squirrel	0.02%	0.05%	0.03%	0.12%
Tree - Non ROW	10.09%	13.84%	0.07%	0.15%
Tree - ROW	22.95%	21.13%	13.81%	20.02%
Unknown Cause	5.27%	2.97%	0.01%	0.04%
Wind	8.32%	9.26%	14.56%	20.21%

Corrections to be made:

Repaired at time of the outage. No other corrections needed.

10-114

Substation Name and Number Alcan 1 10
Substation Location 306 Mayde Rd, Berea, KY 40403
Circuit Name and Number Alcan1 114
Circuit Location Mayde Rd/MENASHA KI USA
Total Circuit Length (Miles) 3.9
2022 Member Count 44
Date Of Last Trim 2022

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Equipment Fault	0.00%	0.00%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	31.90%	36.67%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Small Animal	14.93%	20.83%	21.92%	32.89%
Squirrel	0.00%	0.00%	0.00%	0.00%
Tree - Non ROW	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.00%	0.00%	0.00%	0.00%
Unknown Cause	36.03%	22.50%	52.90%	35.53%
Wind	17.14%	20.00%	25.18%	31.58%

Corrections to be made:

No corrections needed at this time.

31-114

Substation Name and Number Bracken County 31
 Substation Location 60 New Zion Rd, Foster, KY 41043
 Circuit Name and Number Bracken County 114
 Circuit Location Lennoxburg Foster Rd
 Total Circuit Length (Miles) 87.5
 2022 Member Count 689
 Date Of Last Trim 2020

	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	185.14	1.14	213.28	0.96
Bird	0.05%	0.12%	0.28%	0.92%
Contractor	0.04%	0.04%	0.22%	0.31%
Deterioration	5.34%	5.02%	0.61%	0.77%
Equipment Fault	6.54%	7.73%	9.06%	7.24%
Ice/Snow	9.45%	2.34%	26.69%	5.55%
Large Animal	0.39%	0.44%	2.08%	3.24%
Lightning	1.71%	1.70%	1.49%	2.16%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	4.14%	4.60%	17.87%	20.03%
Sag/Clearance	1.59%	4.15%	0.00%	0.00%
Scheduled	1.63%	3.17%	3.77%	10.79%
Small Animal	15.39%	19.82%	0.45%	1.08%
Squirrel	0.27%	0.44%	1.46%	3.24%
Tree - Non ROW	15.50%	12.87%	15.29%	15.87%
Tree - ROW	24.08%	24.94%	10.17%	19.88%
Unknown Cause	2.79%	3.71%	0.05%	0.15%
Wind	11.08%	8.96%	10.52%	8.78%

Corrections to be made:

Storm and public accident related outages. No corrections needed at this time.

31-124

Substation Name and Number Bracken County 31
 Substation Location 60 New Zion Rd, Foster, KY 41043
 Circuit Name and Number Bracken County 124
 Circuit Location Mary Ingles Hwy/Willow Neave Rd
 Total Circuit Length (Miles) 143.1
 2022 Member Count 1115
 Date Of Last Trim 2020

	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	304.25	1.96	356.81	2.05
Bird	0.01%	0.03%	0.03%	0.09%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	11.79%	7.24%	34.18%	22.67%
Equipment Fault	22.53%	22.48%	5.46%	5.90%
Ice/Snow	3.47%	2.11%	10.09%	6.65%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	8.87%	7.33%	4.85%	3.57%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	3.80%	6.07%	0.05%	0.04%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	2.68%	3.24%	3.38%	4.62%
Small Animal	4.48%	6.15%	4.26%	7.26%
Squirrel	0.04%	0.06%	0.11%	0.18%
Tree - Non ROW	20.64%	16.09%	16.31%	20.07%
Tree - ROW	6.59%	10.67%	3.73%	9.82%
Unknown Cause	8.18%	10.43%	4.70%	2.99%
Wind	6.48%	7.89%	12.84%	16.15%

Corrections to be made:

2.9 miles of line to be rebuilt in 2023

21-214

Substation Name and Number Bridgeport 21
Substation Location 310 Taylor Branch Rd, Frankfort, KY 40601
Circuit Name and Number Bridgeport 214
Circuit Location Hickory Ridge/Taylor Branch
Total Circuit Length (Miles) 95.6
2022 Member Count 1379
Date Of Last Trim 2016

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	96.01	1.16	143.66	1.47
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.61%	0.58%	0.18%	0.30%
Equipment Fault	8.05%	8.15%	8.67%	14.33%
Ice/Snow	0.02%	0.02%	0.04%	0.05%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	11.18%	11.08%	14.89%	15.93%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	0.81%	1.45%	0.13%	0.30%
Sag/Clearance	3.34%	2.74%	6.92%	4.99%
Scheduled	0.82%	1.04%	1.49%	2.55%
Small Animal	9.65%	10.17%	14.43%	12.68%
Squirrel	0.01%	0.02%	0.02%	0.05%
Tree - Non ROW	13.62%	14.70%	11.14%	13.88%
Tree - ROW	33.94%	35.13%	7.85%	10.98%
Unknown Cause	4.00%	4.54%	2.13%	2.95%
Wind	13.85%	10.24%	32.12%	21.02%

Corrections to be made:

To be trimmed in 2023.

21-224

Substation Name and Number Bridgeport 21
Substation Location 310 Taylor Branch Rd, Frankfort, KY 40601
Circuit Name and Number Bridgeport 224
Circuit Location Lebanon Rd/Dixie Hwy
Total Circuit Length (Miles) 107.2
2022 Member Count 936
Date Of Last Trim 2019

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	4.61%	4.02%	8.53%	9.94%
Equipment Fault	27.19%	16.30%	41.16%	27.79%
Ice/Snow	1.95%	1.53%	0.00%	0.00%
Large Animal	0.16%	0.24%	0.00%	0.00%
Lightning	19.79%	22.60%	17.34%	25.00%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	0.84%	0.84%	0.46%	1.28%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	2.90%	5.48%	0.16%	0.38%
Small Animal	7.48%	11.75%	6.01%	12.35%
Squirrel	3.79%	8.87%	0.00%	0.00%
Tree - Non ROW	10.41%	8.99%	9.33%	7.83%
Tree - ROW	8.85%	5.96%	5.22%	1.96%
Unknown Cause	0.31%	0.60%	0.55%	1.43%
Wind	11.53%	12.83%	11.24%	12.05%

Corrections to be made:

Equipment repaired at time of the outage. No other corrections needed.

42-234

Substation Name and Number Bridgeport #2 42
 Substation Location 310 Taylor Branch Rd, Frankfort, KY 40601
 Circuit Name and Number Bridgeport #2 234
 Circuit Location Polsgrove Rd
 Total Circuit Length (Miles) 73.1
 2022 Member Count 442
 Date Of Last Trim 2020

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	640.18	4.21	1040.03	7.70
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.25%	1.00%	0.00%	0.00%
Deterioration	2.80%	1.84%	5.80%	2.88%
Equipment Fault	29.91%	20.63%	15.75%	12.28%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	7.22%	10.15%	7.53%	8.67%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	0.01%	0.03%	0.02%	0.03%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	0.19%	0.50%	0.05%	0.21%
Small Animal	3.49%	6.22%	4.67%	7.67%
Squirrel	0.01%	0.01%	0.02%	0.03%
Tree - Non ROW	24.38%	25.51%	13.81%	16.84%
Tree - ROW	3.77%	4.41%	3.92%	3.59%
Unknown Cause	3.58%	4.32%	4.16%	3.94%
Wind	24.40%	25.36%	44.27%	43.87%

Corrections to be made:

Storm related outages. Equipment repaired at time of the outage. No other corrections needed at this time.

42-244

Substation Name and Number Bridgeport #2 42
 Substation Location 310 Taylor Branch Rd, Frankfort, KY 40601
 Circuit Name and Number Bridgeport #2 244
 Circuit Location Evergreen Rd
 Total Circuit Length (Miles) 41.3
 2022 Member Count 1094
 Date Of Last Trim 2018

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	191.65	2.21	293.23	4.09
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.07%	0.09%	0.09%	0.07%
Equipment Fault	44.07%	46.58%	58.01%	64.15%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	19.82%	18.74%	16.82%	18.36%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	4.28%	5.92%	3.59%	4.77%
Small Animal	5.93%	7.94%	4.11%	4.81%
Squirrel	0.06%	0.16%	0.11%	0.27%
Tree - Non ROW	15.70%	15.39%	1.80%	2.02%
Tree - ROW	0.83%	0.92%	0.83%	0.65%
Unknown Cause	2.31%	2.49%	2.38%	2.31%
Wind	6.91%	1.74%	12.27%	2.60%

Corrections to be made:

Storm related outages. No corrections needed at this time.

26-114

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) 9.16
 2022 Member Count 53
 Date Of Last Trim 2022

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	66.32	0.90	136.24	1.96
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Equipment Fault	5.37%	2.63%	8.98%	2.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	39.30%	31.58%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	18.44%	22.81%	44.44%	52.00%
Public Accident	3.72%	3.07%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Small Animal	10.52%	18.42%	9.05%	15.00%
Squirrel	0.00%	0.00%	0.00%	0.00%
Tree - Non ROW	3.82%	3.95%	9.20%	9.00%
Tree - ROW	5.42%	5.70%	13.05%	13.00%
Unknown Cause	4.96%	7.46%	0.00%	0.00%
Wind	8.46%	4.93%	15.27%	9.00%

Corrections to be made:

Power supplier related outages. No corrections needed at this time.

26-124

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) 74.7
 2022 Member Count 643
 Date Of Last Trim 2021

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	177.50	1.47	253.53	2.56
Bird	0.06%	0.17%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	1.03%	1.30%	3.27%	2.95%
Equipment Fault	0.97%	1.65%	0.52%	0.43%
Ice/Snow	1.48%	0.30%	0.00%	0.00%
Large Animal	0.01%	0.02%	0.00%	0.00%
Lightning	22.48%	16.81%	0.56%	0.74%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	7.45%	13.82%	25.72%	39.26%
Public Accident	3.87%	6.06%	8.44%	12.06%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	1.28%	2.04%	2.03%	1.97%
Small Animal	6.49%	11.44%	2.14%	3.82%
Squirrel	0.64%	0.80%	0.03%	0.06%
Tree - Non ROW	29.43%	26.27%	50.94%	34.15%
Tree - ROW	11.32%	11.89%	1.69%	2.58%
Unknown Cause	0.65%	1.00%	0.35%	0.68%
Wind	12.84%	6.43%	4.30%	1.29%

Corrections to be made:

Power supplier related outages. No corrections needed at this time.

26-134

Substation Name and Number Clay Lick 26
 Substation Location 5627 Louisville Rd, Salvisa, KY 40372
 Circuit Name and Number Clay Lick 134
 Circuit Location Lillard's Ferry/Scotts Ferry
 Total Circuit Length (Miles) 54.5
 2022 Member Count 373
 Date Of Last Trim 2016

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	381.11	1.85	570.81	3.23
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.03%	0.15%	0.08%	0.33%
Equipment Fault	4.79%	11.67%	0.33%	0.41%
Ice/Snow	3.92%	3.66%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	3.93%	3.64%	0.64%	1.24%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	3.54%	11.17%	11.54%	31.38%
Public Accident	0.44%	1.79%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	1.66%	2.26%	0.05%	0.08%
Small Animal	1.22%	4.02%	0.81%	2.06%
Squirrel	0.02%	0.09%	0.00%	0.00%
Tree - Non ROW	54.84%	39.20%	63.75%	41.35%
Tree - ROW	0.93%	1.35%	1.17%	1.73%
Unknown Cause	0.04%	0.09%	0.10%	0.16%
Wind	24.62%	20.87%	21.54%	21.25%

Corrections to be made:

Power Supplier related outages. To be trimmed in 2023.

26-144

Substation Name and Number Clay Lick 26
 Substation Location 5627 Louisville Rd, Salvisa, KY 40372
 Circuit Name and Number Clay Lick 144
 Circuit Location Bonds Mill/Nevins Station
 Total Circuit Length (Miles) 65.5
 2022 Member Count 687
 Date Of Last Trim 2016

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	93.68	1.23	263.97	3.21
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.24%	0.27%	0.27%	0.19%
Equipment Fault	25.19%	20.96%	37.71%	33.21%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Fire	0.03%	0.05%	0.00%	0.00%
Ice/Snow	1.57%	0.15%	0.00%	0.00%
Large Animal	0.01%	0.02%	0.00%	0.00%
Lightning	10.43%	6.69%	10.99%	5.67%
Overload	0.29%	0.67%	0.00%	0.00%
Power Supplier	14.30%	16.83%	24.84%	31.44%
Public Accident	6.43%	17.03%	0.00%	0.00%
Scheduled	0.95%	0.70%	1.17%	0.98%
Small Animal	11.21%	17.40%	10.35%	14.31%
Squirrel	0.78%	1.24%	0.00%	0.00%
Tree - Non ROW	16.47%	10.04%	10.45%	9.89%
Tree - ROW	3.47%	3.36%	0.04%	0.05%
Unknown Cause	3.16%	3.68%	3.72%	4.18%
Wind	5.45%	0.90%	0.46%	0.09%

Corrections to be made:

Power Supplier related outages. To be trimmed in 2023.

32-104

Substation Name and Number Colemansville 32
 Substation Location Corner Of Hwy 1032 & 1054, Berry, KY 41006
 Circuit Name and Number Colemansville 104
 Circuit Location Morgan Marcus
 Total Circuit Length (Miles) 118.3
 2022 Member Count 806
 Date Of Last Trim 2019

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	272.96	1.76	583.80	4.32
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	1.72%	4.94%	0.00%	0.00%
Deterioration	10.95%	7.03%	14.14%	9.12%
Equipment Fault	15.09%	7.17%	0.06%	0.06%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	5.28%	6.35%	0.13%	0.18%
Overload	0.01%	0.01%	0.02%	0.03%
Power Supplier	2.38%	23.73%	5.55%	48.44%
Public Accident	0.01%	0.01%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	2.14%	4.40%	2.61%	5.67%
Small Animal	3.15%	3.90%	2.43%	1.41%
Squirrel	0.08%	0.13%	0.01%	0.03%
Tree - Non ROW	47.47%	30.93%	73.13%	33.64%
Tree - ROW	3.46%	1.81%	0.06%	0.12%
Unknown Cause	2.10%	3.22%	0.18%	0.21%
Wind	6.16%	6.37%	1.66%	1.08%

Corrections to be made:

1.8 miles of line to be rebuilt in 2023.

32-124

Substation Name and Number Colemansville 32
 Substation Location Corner Of HWY 1032 & 1054, Berry, KY 41006
 Circuit Name and Number Colemansville 124
 Circuit Location Robinson
 Total Circuit Length (Miles) 75.4
 2022 Member Count 622
 Date Of Last Trim 2018

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	111.38	1.23	117.47	2.55
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.76%	1.70%	0.00%	0.00%
Deterioration	3.00%	2.13%	0.04%	0.06%
Equipment Fault	22.26%	14.39%	29.12%	8.22%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	26.23%	15.62%	13.20%	1.48%
Overload	0.02%	0.03%	0.00%	0.00%
Power Supplier	5.58%	33.32%	25.41%	78.18%
Public Accident	0.38%	0.25%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	0.71%	0.44%	3.22%	0.96%
Small Animal	2.16%	4.21%	0.82%	0.51%
Squirrel	0.52%	0.52%	0.70%	0.45%
Tree - Non ROW	7.94%	6.54%	0.00%	0.00%
Tree - ROW	7.15%	2.63%	0.05%	0.06%
Unknown Cause	4.95%	3.94%	21.23%	8.47%
Wind	18.34%	14.31%	6.21%	1.60%

Corrections to be made:

Power supplier related outages. No corrections needed at this time.

32-134

Substation Name and Number Colemansville 32
 Substation Location Corner Of HWY 1032 & 1054, Berry, KY 41006
 Circuit Name and Number Colemansville 134
 Circuit Location Renaker
 Total Circuit Length (Miles) 80.9
 2022 Member Count 496
 Date Of Last Trim 2018

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	182.35	1.28	319.71	3.27
Bird	0.03%	0.03%	0.07%	0.06%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	1.50%	0.79%	0.00%	0.00%
Equipment Fault	19.64%	12.82%	48.22%	19.54%
Fire	0.06%	0.06%	0.17%	0.12%
Ice/Snow	4.46%	2.15%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	23.33%	11.43%	0.11%	0.12%
Overload	4.65%	2.82%	0.00%	0.00%
Power Supplier	3.49%	31.86%	9.87%	62.21%
Public Accident	7.31%	7.98%	15.17%	11.44%
Scheduled	10.79%	16.91%	1.68%	1.73%
Small Animal	1.65%	2.79%	0.15%	0.25%
Squirrel	0.04%	0.06%	0.07%	0.06%
Tree - Non ROW	13.01%	7.03%	0.19%	0.25%
Tree - ROW	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.79%	0.47%	0.77%	0.19%
Wind	9.26%	2.79%	23.54%	4.02%

Corrections to be made:

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

13-124

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) 55.69
 2022 Member Count 727
 Date Of Last Trim 2021

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	105.23	0.93	123.32	1.05
Equipment Fault	1.79%	1.15%	0.30%	0.13%
Wind	2.94%	1.61%	0.00%	0.00%
Contractor	0.10%	0.24%	0.42%	1.07%
Small Animal	13.52%	15.98%	16.40%	27.16%
Squirrel	0.35%	0.67%	1.18%	2.40%
Ice/Snow	3.96%	5.19%	0.00%	0.00%
Unknown Cause	3.44%	5.04%	1.37%	2.80%
Deterioration	0.11%	0.09%	0.44%	0.27%
Scheduled	0.55%	0.58%	0.42%	0.80%
Power Supplier	17.02%	21.57%	0.00%	0.00%
Bird	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Public Accident	12.17%	9.42%	51.04%	41.28%
Sag/Clearance	0.44%	0.76%	1.84%	3.33%
Tree - ROW	5.65%	9.08%	1.40%	2.66%
Lightning	5.64%	4.37%	13.50%	7.06%
Tree - Non ROW	32.30%	24.12%	11.69%	11.05%
Large Animal	0.03%	0.12%	0.00%	0.00%

Corrections to be made:

Public accident related outages. No corrections needed at this time.

13-144

Substation Name and Number Crooksville 13
 Substation Location 765 Crooksville Rd, Richmond, KY 40475
 Circuit Name and Number Crooksville 144
 Circuit Location Crooksville Rd
 Total Circuit Length (Miles) 16.5
 2022 Member Count 378
 Date Of Last Trim 2019

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	95.02	0.81	148.16	1.50
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.07%	0.13%	0.00%	0.00%
Equipment Fault	0.05%	0.07%	0.00%	0.00%
Ice/Snow	0.36%	0.20%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	21.15%	25.55%	65.97%	66.31%
Overload	1.40%	2.80%	0.00%	0.00%
Power Supplier	18.85%	25.02%	0.00%	0.00%
Public Accident	0.37%	0.33%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	0.08%	0.47%	0.11%	0.18%
Small Animal	5.38%	12.21%	6.12%	11.11%
Squirrel	0.00%	0.00%	0.00%	0.00%
Tree - Non ROW	32.64%	14.08%	5.12%	7.76%
Tree - ROW	9.69%	10.74%	0.82%	0.53%
Unknown Cause	2.98%	2.94%	0.00%	0.00%
Wind	6.97%	5.47%	21.86%	14.11%

Corrections to be made:

Storm related outages. No corrections needed at this time.

4-114

Substation Name and Number Davis 4
 Substation Location 3876 Delong Rd, Lexington, KY 40515
 Circuit Name and Number Davis 114
 Circuit Location Ashgrove Pike
 Total Circuit Length (Miles) 20.18
 2022 Member Count 362
 Date Of Last Trim 2021

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	263.78	2.44	273.04	1.70
Bird	0.09%	0.12%	0.34%	0.65%
Contractor	0.90%	1.33%	0.00%	0.00%
Deterioration	0.31%	0.12%	0.00%	0.00%
Equipment Fault	3.30%	11.12%	8.80%	10.32%
Ice/Snow	1.13%	0.81%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	9.33%	11.52%	3.85%	5.16%
Overload	0.73%	1.63%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	16.77%	9.30%	71.76%	58.55%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	4.01%	9.18%	0.56%	1.29%
Small Animal	3.47%	4.98%	4.19%	7.42%
Squirrel	0.72%	1.90%	1.42%	5.32%
Tree - Non ROW	39.20%	24.57%	2.72%	4.52%
Tree - ROW	16.47%	18.11%	0.00%	0.00%
Unknown Cause	1.62%	3.01%	0.00%	0.00%
Wind	1.93%	2.29%	6.36%	6.77%

Corrections to be made:

Public accident related outages. No corrections needed at this time.

5-104

Substation Name and Number Fayette 1 5
Substation Location 2442 Armstrong Mill Rd Lexington, KY 40515
Circuit Name and Number Fayette 1 104
Circuit Location Delong Rd
Total Circuit Length (Miles) 14.94
2022 Member Count 708
Date Of Last Trim 2022

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	142.08	1.16	269.40	1.88
Bird	0.01%	0.09%	0.00%	0.00%
Contractor	0.02%	0.03%	0.04%	0.08%
Deterioration	0.09%	0.09%	0.00%	0.00%
Equipment Fault	9.52%	4.49%	8.39%	4.55%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	10.65%	11.27%	20.02%	25.17%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	0.87%	1.36%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	0.24%	0.50%	0.00%	0.00%
Small Animal	4.26%	7.59%	2.77%	6.97%
Squirrel	2.56%	4.30%	0.08%	0.23%
Tree - Non ROW	59.89%	55.14%	65.44%	54.66%
Tree - ROW	2.84%	4.30%	0.22%	0.15%
Unknown Cause	1.66%	2.94%	0.18%	0.30%
Wind	7.42%	7.89%	2.86%	7.88%

Corrections to be made:

No corrections needed.

5-134

Substation Name and Number Fayette1 5
 Substation Location 2442 Armstrong Mill Rd Lexington, KY 40515
 Circuit Name and Number Fayette1 134
 Circuit Location Beulah Park/Bold Bidder
 Total Circuit Length (Miles) 7.76
 2022 Member Count 817
 Date Of Last Trim 2022

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	68.30	0.42	160.75	0.66
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Equipment Fault	46.62%	42.87%	37.93%	41.79%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	4.32%	11.46%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	0.37%	0.67%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	4.10%	3.92%	1.86%	3.54%
Small Animal	10.41%	22.39%	3.57%	11.19%
Squirrel	0.16%	0.52%	0.12%	0.75%
Tree - Non ROW	33.88%	17.96%	56.25%	42.16%
Tree - ROW	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.15%	0.22%	0.26%	0.56%
Wind	0.00%	0.00%	0.00%	0.00%

Corrections to be made:

Equipment repaired at time of the outage. No other corrections needed.

5-144

Substation Name and Number Fayette1 5
 Substation Location 2442 Armstrong Mill Rd Lexington, KY 40515
 Circuit Name and Number Fayette1 144
 Circuit Location Sundart/Mt Foraker
 Total Circuit Length (Miles) 7.42
 2022 Member Count 555
 Date Of Last Trim 2022

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	86.70	0.73	313.24	2.56
Bird	0.20%	0.29%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Equipment Fault	15.55%	14.47%	9.32%	11.68%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	2.41%	2.83%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	0.24%	0.64%	0.34%	0.92%
Small Animal	13.40%	15.88%	4.51%	4.81%
Squirrel	0.15%	0.39%	0.07%	0.14%
Tree - Non ROW	62.19%	58.21%	84.13%	79.76%
Tree - ROW	4.99%	5.77%	0.99%	1.63%
Unknown Cause	0.84%	1.32%	0.64%	1.06%
Wind	0.02%	0.20%	0.00%	0.00%

Corrections to be made:

No corrections needed.

6-144

Substation Name and Number Fayette2 6
 Substation Location 2442 Armstrong Mill Rd Lexington, KY 40515
 Circuit Name and Number Fayette2 144
 Circuit Location Farmview Dr
 Total Circuit Length (Miles) 3.19
 2022 Member Count 163
 Date Of Last Trim 2020

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	6.91	0.04	26.45	0.13
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Equipment Fault	0.00%	0.00%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	4.24%	4.35%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	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%
Tree - Non ROW	0.00%	0.00%	0.00%	0.00%
Tree - ROW	95.76%	95.65%	100.00%	100.00%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Wind	0.00%	0.00%	0.00%	0.00%

Corrections to be made:

No corrections needed.

33-104

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) 41.8
 2022 Member Count 221
 Date Of Last Trim 2017

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	249.79	2.18	603.26	4.58
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	1.13%	13.02%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Equipment Fault	3.20%	5.73%	2.62%	4.09%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.04%	0.06%	0.06%	0.10%
Lightning	9.32%	3.74%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	24.72%	26.40%	35.81%	43.71%
Public Accident	5.44%	4.10%	7.88%	6.79%
Sag/Clearance	3.73%	2.23%	0.00%	0.00%
Scheduled	16.99%	14.65%	24.41%	24.05%
Small Animal	3.07%	3.74%	0.00%	0.00%
Squirrel	0.05%	0.06%	0.07%	0.10%
Tree - Non ROW	14.65%	11.87%	17.11%	12.28%
Tree - ROW	7.29%	7.47%	1.70%	1.70%
Unknown Cause	2.64%	2.17%	1.25%	1.70%
Wind	7.74%	4.76%	9.12%	5.49%

Corrections to be made:

Power supplier and scheduled outages. No corrections needed at this time.

33-124

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) 141.2
 2022 Member Count 787
 Date Of Last Trim 2017

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	121.82	0.86	141.83	1.71
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	21.19%	8.12%	0.31%	0.15%
Equipment Fault	5.91%	6.38%	1.14%	0.60%
Ice/Snow	1.17%	0.98%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	10.82%	8.82%	0.25%	0.30%
Overload	0.56%	0.11%	0.00%	0.00%
Power Supplier	4.11%	22.14%	18.47%	58.99%
Public Accident	0.85%	0.64%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	5.77%	9.24%	13.00%	11.41%
Small Animal	2.77%	6.05%	1.93%	1.79%
Squirrel	0.17%	0.39%	0.77%	1.04%
Tree - Non ROW	30.79%	21.27%	42.19%	16.48%
Tree - ROW	2.51%	0.67%	11.28%	1.79%
Unknown Cause	7.78%	9.01%	6.32%	5.74%
Wind	5.60%	6.19%	4.34%	1.72%

Corrections to be made:

Power supplier outages. No corrections needed at this time.

33-134

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 Dr
 Total Circuit Length (Miles) 3.9
 2022 Member Count 20
 Date Of Last Trim 2022

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	86.68	0.68	318.20	2.60
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	26.02%	9.40%	0.00%	0.00%
Equipment Fault	7.55%	13.13%	0.00%	0.00%
Ice/Snow	27.46%	13.94%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	0.58%	0.65%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	4.08%	5.19%	55.06%	61.54%
Public Accident	12.48%	13.45%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	3.38%	3.40%	44.94%	38.46%
Small Animal	11.22%	15.72%	0.00%	0.00%
Squirrel	0.00%	0.00%	0.00%	0.00%
Tree - Non ROW	3.42%	7.46%	0.00%	0.00%
Tree - ROW	3.81%	17.67%	0.00%	0.00%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Wind	0.00%	0.00%	0.00%	0.00%

Corrections to be made:

Power supplier and scheduled outages. No corrections needed at this time.

36-104

Substation Name and Number Headquarters 36
 Substation Location 2195 Saltwell Headquarters Rd, Carlisle, KY 40311
 Circuit Name and Number Headquarters 104
 Circuit Location US 68
 Total Circuit Length (Miles) 10.18
 2022 Member Count 70
 Date Of Last Trim 2022

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	51.46	0.44	122.00	0.84
Bird	11.22%	9.15%	23.96%	24.56%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Equipment Fault	22.70%	13.79%	42.19%	24.56%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	42.35%	39.22%	18.73%	24.56%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Small Animal	8.47%	18.30%	0.27%	1.75%
Squirrel	0.00%	0.00%	0.00%	0.00%
Tree - Non ROW	1.14%	0.65%	0.00%	0.00%
Tree - ROW	7.18%	9.80%	0.00%	0.00%
Unknown Cause	6.95%	9.15%	14.85%	24.56%
Wind	0.00%	0.00%	0.00%	0.00%

Corrections to be made:

Equipment repaired at time of the outage. No corrections needed at this time.

36-124

Substation Name and Number Headquarters 36
 Substation Location 2195 Saltwell Headquarters Rd, Carlisle, KY 40311
 Circuit Name and Number Headquarters 124
 Circuit Location Colville
 Total Circuit Length (Miles) 30.4
 2022 Member Count 181
 Date Of Last Trim 2016

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	133.75	1.04	186.23	0.93
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.11%	0.21%	0.00%	0.00%
Equipment Fault	34.73%	25.32%	0.41%	0.59%
Ice/Snow	0.84%	0.32%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	33.19%	16.53%	62.58%	40.59%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	1.92%	1.27%	2.76%	1.76%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	7.73%	16.10%	9.32%	20.00%
Small Animal	1.80%	4.87%	0.95%	2.94%
Squirrel	0.00%	0.00%	0.00%	0.00%
Tree - Non ROW	4.60%	7.20%	0.00%	0.00%
Tree - ROW	6.55%	5.72%	22.31%	30.00%
Unknown Cause	0.92%	1.80%	1.68%	4.12%
Wind	7.62%	20.66%	0.00%	0.00%

Corrections to be made:

To be trimmed in 2023.

36-134

Substation Name and Number Headquarters 36
 Substation Location 2195 Saltwell Headquarters Rd, Carlisle, KY 40311
 Circuit Name and Number Headquarters 134
 Circuit Location Morning Glory
 Total Circuit Length (Miles) 64.59
 2022 Member Count 399
 Date Of Last Trim 2020

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	135.33	1.03	209.61	1.29
Bird	0.03%	0.20%	0.09%	0.79%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.12%	0.05%	0.00%	0.00%
Equipment Fault	6.30%	6.37%	6.93%	5.12%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	7.58%	8.29%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	0.06%	0.05%	0.18%	0.20%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	1.05%	4.60%	0.07%	0.39%
Small Animal	5.04%	8.04%	0.53%	1.38%
Squirrel	0.34%	0.56%	0.98%	1.97%
Tree - Non ROW	59.52%	45.05%	84.19%	76.18%
Tree - ROW	1.81%	1.92%	0.00%	0.00%
Unknown Cause	1.46%	1.67%	0.00%	0.00%
Wind	16.70%	23.21%	7.04%	13.98%

Corrections to be made:

No corrections needed at this time.

9-134

Substation Name and Number Hickory Plains 9
 Substation Location 1075 Old US 25, Berea, KY 40403
 Circuit Name and Number Hickory Plains 134
 Circuit Location Red Lick
 Total Circuit Length (Miles) 77.67
 2022 Member Count 1153
 Date Of Last Trim 2019

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	83.90	0.89	118.93	1.26
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.78%	0.32%	0.89%	0.55%
Equipment Fault	13.17%	11.01%	33.36%	25.69%
Fire	0.04%	0.02%	0.14%	0.07%
Ice/Snow	4.72%	1.37%	12.73%	4.21%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	2.35%	2.88%	0.63%	0.69%
Overload	0.03%	0.04%	0.00%	0.00%
Power Supplier	19.42%	22.60%	0.00%	0.00%
Public Accident	8.74%	11.19%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	2.83%	3.55%	1.14%	0.97%
Small Animal	13.27%	20.40%	28.95%	45.10%
Squirrel	0.12%	0.14%	0.32%	0.35%
Tree - Non ROW	19.53%	11.51%	8.35%	8.70%
Tree - ROW	6.81%	6.21%	8.64%	8.77%
Unknown Cause	6.80%	7.26%	4.85%	4.90%
Wind	1.39%	1.49%	0.00%	0.00%

Corrections to be made:

Equipment repaired at time of the outage. No corrections needed at this time.

9-144

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) 25.7
 2022 Member Count 753
 Date Of Last Trim 2020

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	149.21	1.57	318.08	3.32
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	1.04%	1.57%	0.00%	0.00%
Equipment Fault	34.89%	18.46%	70.74%	35.52%
Fire	0.00%	0.00%	0.00%	0.00%
Ice/Snow	6.28%	3.36%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	2.48%	3.48%	0.35%	0.45%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	10.97%	12.68%	0.00%	0.00%
Public Accident	0.01%	0.02%	0.00%	0.00%
Scheduled	3.39%	13.03%	3.74%	25.45%
Small Animal	3.38%	6.09%	3.61%	5.38%
Squirrel	0.20%	0.37%	0.07%	0.20%
Tree - Non ROW	23.87%	29.30%	19.32%	30.06%
Tree - ROW	4.89%	4.68%	1.41%	1.55%
Unknown Cause	1.49%	2.26%	0.77%	1.39%
Wind	7.10%	4.71%	0.00%	0.00%

Corrections to be made:

Equipment replaced at time of the outage. No corrections needed at this time.

9-154

Substation Name and Number Hickory Plains 9
 Substation Location 1075 Old US 25, Berea, KY 40403
 Circuit Name and Number Hickory Plains 154
 Circuit Location North-City Of Berea
 Total Circuit Length (Miles) 13.1
 2022 Member Count 470
 Date Of Last Trim 2018

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	111.70	1.18	187.51	1.38
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.36%	1.30%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Equipment Fault	1.21%	0.78%	3.08%	2.64%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	6.19%	9.67%	0.00%	0.00%
Overload	0.12%	1.12%	0.00%	0.00%
Power Supplier	14.85%	17.33%	0.00%	0.00%
Public Accident	4.17%	2.68%	0.27%	0.47%
Sag/Clearance	0.16%	0.26%	0.00%	0.00%
Scheduled	1.29%	1.64%	0.57%	1.56%
Small Animal	5.32%	10.34%	9.94%	28.93%
Squirrel	0.85%	1.75%	2.45%	7.31%
Tree - Non ROW	23.47%	10.45%	56.81%	25.66%
Tree - ROW	15.82%	15.54%	9.66%	14.00%
Unknown Cause	5.97%	5.62%	6.12%	5.44%
Wind	20.23%	21.53%	11.09%	14.00%

Corrections to be made:

No corrections needed at this time.

2-114

Substation Name and Number Holloway 2
 Substation Location 6447 Harrodsburg Rd, Nicholasville, KY 40356
 Circuit Name and Number Holloway 114
 Circuit Location Baker Ln
 Total Circuit Length (Miles) 16.24
 2022 Member Count 727
 Date Of Last Trim 2017

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	49.49	0.59	131.91	1.20
Bird	0.63%	1.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.34%	0.45%	0.27%	0.35%
Equipment Fault	1.51%	1.80%	0.18%	0.35%
Ice/Snow	0.15%	0.05%	0.00%	0.00%
Large Animal	0.03%	0.10%	0.00%	0.00%
Lightning	7.38%	3.19%	0.35%	0.81%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	52.99%	37.21%	89.03%	84.31%
Public Accident	0.04%	0.10%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	0.81%	1.80%	0.81%	0.46%
Small Animal	5.74%	6.53%	0.62%	1.15%
Squirrel	19.40%	34.76%	0.09%	0.23%
Tree - Non ROW	0.65%	0.90%	0.00%	0.00%
Tree - ROW	6.34%	6.38%	7.39%	9.57%
Unknown Cause	4.00%	5.74%	1.26%	2.77%
Wind	0.00%	0.00%	0.00%	0.00%

Corrections to be made:

Power supplier outages. No corrections needed at this time.

2-124

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 Ln
 Total Circuit Length (Miles) 40.55
 2022 Member Count 389
 Date Of Last Trim 2017

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	223.11	1.76	764.75	4.94
Bird	0.04%	0.12%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.90%	1.90%	0.27%	0.48%
Equipment Fault	38.23%	24.13%	54.46%	41.01%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.02%	0.06%	0.00%	0.00%
Lightning	11.42%	12.47%	16.17%	21.37%
Overload	0.81%	1.23%	0.00%	0.00%
Power Supplier	19.93%	22.57%	15.21%	20.29%
Public Accident	1.21%	0.89%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	0.71%	1.04%	0.18%	0.32%
Small Animal	0.69%	1.38%	0.19%	0.43%
Squirrel	3.96%	11.76%	0.13%	0.27%
Tree - Non ROW	15.22%	14.98%	9.85%	11.63%
Tree - ROW	5.10%	4.38%	3.38%	3.88%
Unknown Cause	1.76%	3.09%	0.17%	0.32%
Wind	0.00%	0.00%	0.00%	0.00%

Corrections to be made:

Power supplier outages. Equipment repaired at time of the outage. No corrections needed at this time.

2-134

Substation Name and Number Holloway 2
 Substation Location 6447 Harrodsburg Rd, Nicholasville, KY 40356
 Circuit Name and Number Holloway 134
 Circuit Location Keene-Troy Rd
 Total Circuit Length (Miles) 37.35
 2022 Member Count 434
 Date Of Last Trim 2019

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	94.82	0.81	331.06	2.03
Bird	1.03%	1.63%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	1.30%	2.30%	0.00%	0.00%
Equipment Fault	3.61%	3.93%	1.93%	3.29%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.04%	0.06%	0.00%	0.00%
Lightning	0.92%	1.57%	0.15%	0.35%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	25.16%	25.71%	35.54%	49.88%
Public Accident	0.80%	1.09%	0.17%	0.23%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	0.54%	0.54%	0.56%	0.94%
Small Animal	11.47%	9.62%	0.79%	2.35%
Squirrel	8.56%	24.74%	0.10%	0.35%
Tree - Non ROW	43.61%	22.32%	60.76%	42.61%
Tree - ROW	1.63%	4.54%	0.00%	0.00%
Unknown Cause	1.24%	1.81%	0.00%	0.00%
Wind	0.10%	0.12%	0.00%	0.00%

Corrections to be made:

Power supplier outages. No corrections needed at this time.

2-144

Substation Name and Number Holloway 2
 Substation Location 6447 Harrodsburg Rd, Nicholasville, KY 40356
 Circuit Name and Number Holloway 144
 Circuit Location Southland C.C.
 Total Circuit Length (Miles) 29.84
 2022 Member Count 398
 Date Of Last Trim 2018

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	54.65	0.66	136.02	1.17
Bird	0.38%	0.57%	0.00%	0.00%
Contractor	0.25%	0.19%	0.41%	0.43%
Deterioration	0.25%	0.29%	0.41%	0.65%
Equipment Fault	8.39%	4.31%	3.34%	1.73%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	0.18%	0.10%	0.28%	0.22%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	53.65%	38.25%	85.92%	86.39%
Public Accident	4.75%	2.87%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Small Animal	9.24%	10.72%	4.82%	5.83%
Squirrel	17.14%	37.32%	0.00%	0.00%
Tree - Non ROW	0.92%	0.48%	0.71%	0.22%
Tree - ROW	0.20%	0.19%	0.00%	0.00%
Unknown Cause	1.70%	2.20%	1.05%	2.38%
Wind	2.94%	2.49%	3.06%	2.16%

Corrections to be made:

Power supplier outages. No corrections needed at this time.

34-114

Substation Name and Number Lees Lick 34
 Substation Location Hwy 1842, Cynthiana, KY 41031
 Circuit Name and Number Lees Lick 114
 Circuit Location Davis
 Total Circuit Length (Miles) 20.69
 2022 Member Count 216
 Date Of Last Trim 2016

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	97.67	1.16	244.11	2.81
Bird	0.67%	0.71%	0.14%	0.22%
Contractor	2.64%	21.08%	0.00%	0.00%
Deterioration	8.17%	3.09%	15.95%	5.79%
Equipment Fault	9.47%	5.32%	10.62%	5.87%
Ice/Snow	5.11%	2.42%	10.80%	5.43%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	9.52%	5.00%	0.43%	0.29%
Overload	0.05%	0.10%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	4.43%	4.06%	3.35%	1.67%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	6.45%	5.87%	6.96%	7.10%
Small Animal	6.14%	7.45%	0.54%	0.51%
Squirrel	10.99%	23.18%	20.01%	49.38%
Tree - Non ROW	8.26%	3.61%	0.72%	0.07%
Tree - ROW	10.89%	5.06%	10.76%	5.79%
Unknown Cause	10.99%	9.67%	14.17%	15.64%
Wind	6.16%	3.35%	5.55%	2.24%

Corrections to be made:

No corrections needed at this time.

34-134

Substation Name and Number Lees Lick 34
 Substation Location HWY 1842, Cynthiana, KY 41031
 Circuit Name and Number Lees Lick 134
 Circuit Location Finnel Rd
 Total Circuit Length (Miles) 3.25
 2022 Member Count 18
 Date Of Last Trim 2022

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	105.18	1.02	149.40	1.76
Bird	0.05%	0.16%	0.39%	0.82%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.21%	0.23%	0.00%	0.00%
Equipment Fault	22.75%	27.81%	35.97%	26.64%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.08%	0.16%	0.00%	0.00%
Lightning	11.24%	12.03%	20.33%	21.72%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	0.23%	0.31%	0.00%	0.00%
Sag/Clearance	2.72%	1.80%	0.00%	0.00%
Scheduled	9.70%	23.13%	4.93%	24.18%
Small Animal	5.72%	8.44%	0.00%	0.00%
Squirrel	1.34%	1.80%	10.08%	9.43%
Tree - Non ROW	42.90%	20.55%	21.38%	9.84%
Tree - ROW	0.26%	0.39%	0.00%	0.00%
Unknown Cause	2.79%	3.20%	6.93%	7.38%
Wind	0.00%	0.00%	0.00%	0.00%

Corrections to be made:

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

38-104

Substation Name and Number Millersburg 38
 Substation Location 1-24 Miller Station Rd, Carlisle, KY 40311
 Circuit Name and Number Millersburg 104
 Circuit Location Lake Carnico
 Total Circuit Length (Miles) 94.2
 2022 Member Count 500
 Date Of Last Trim 2020

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	185.13	1.21	523.72	3.23
Bird	0.03%	0.04%	0.05%	0.08%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	11.97%	10.75%	1.61%	1.59%
Equipment Fault	2.87%	3.52%	0.89%	1.82%
Ice/Snow	1.98%	1.39%	0.00%	0.00%
Large Animal	3.74%	7.32%	6.47%	13.46%
Lightning	6.54%	7.65%	0.35%	0.30%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	17.57%	16.88%	30.66%	31.24%
Public Accident	1.65%	1.76%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	1.37%	3.88%	1.27%	4.08%
Small Animal	4.38%	7.40%	0.27%	0.53%
Squirrel	0.12%	0.20%	0.20%	0.38%
Tree - Non ROW	5.52%	3.15%	2.45%	1.13%
Tree - ROW	10.31%	11.98%	3.63%	2.65%
Unknown Cause	9.06%	8.83%	15.73%	16.11%
Wind	22.92%	15.25%	36.41%	26.63%

Corrections to be made:

Storms and power supplier outages. No corrections needed at this time.

38-114

Substation Name and Number Millersburg 38
 Substation Location 1024 Miller Station Rd, Carlisle, KY 40311
 Circuit Name and Number Millersburg 114
 Circuit Location Little Rock
 Total Circuit Length (Miles) 89.8
 2022 Member Count 492
 Date Of Last Trim 2021

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	225.26	1.30	225.45	1.53
Bird	0.05%	0.10%	0.26%	0.40%
Contractor	0.16%	0.35%	0.00%	0.00%
Deterioration	5.71%	5.46%	0.59%	0.27%
Equipment Fault	20.91%	17.43%	0.28%	0.40%
Fire	0.06%	0.06%	0.28%	0.27%
Ice/Snow	2.70%	3.82%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	8.40%	7.38%	0.55%	0.54%
Overload	0.05%	0.13%	0.00%	0.00%
Power Supplier	14.46%	15.79%	71.10%	65.86%
Public Accident	6.73%	7.29%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	0.59%	1.28%	2.08%	4.15%
Small Animal	4.24%	6.61%	2.03%	7.50%
Squirrel	0.11%	0.19%	0.20%	0.40%
Tree - Non ROW	15.02%	13.77%	7.08%	4.69%
Tree - ROW	10.47%	10.50%	10.96%	11.11%
Unknown Cause	1.79%	3.31%	2.94%	3.21%
Wind	8.56%	6.52%	1.66%	1.20%

Corrections to be made:

Power supplier outages. No corrections needed at this time.

38-124

Substation Name and Number Millersburg 38
 Substation Location 1024 Miller Station Rd, Carlisle, KY 40311
 Circuit Name and Number Millersburg 124
 Circuit Location Taylors Creek
 Total Circuit Length (Miles) 34.9
 2022 Member Count 381
 Date Of Last Trim 2016

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	126.15	1.37	351.46	2.65
Bird	0.25%	0.20%	0.32%	0.30%
Contractor	0.42%	4.89%	0.00%	0.00%
Deterioration	4.94%	7.75%	0.00%	0.00%
Equipment Fault	2.45%	7.60%	3.02%	18.22%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	2.77%	2.55%	0.40%	0.40%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	25.60%	14.92%	45.72%	38.14%
Public Accident	6.36%	9.51%	4.91%	3.30%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	8.60%	15.35%	2.87%	4.10%
Small Animal	7.85%	8.89%	3.31%	4.40%
Squirrel	1.87%	1.37%	2.51%	2.40%
Tree - Non ROW	22.03%	13.04%	26.14%	18.92%
Tree - ROW	8.67%	7.83%	1.89%	2.40%
Unknown Cause	5.08%	5.05%	3.54%	4.90%
Wind	3.11%	1.06%	5.38%	2.50%

Corrections to be made:

Power supplier outages. Circuit to be trimmed in 2023.

7-114

Substation Name and Number Newby 7
 Substation Location 247 Maple Grove Rd, Richmond, KY 40475
 Circuit Name and Number Newby 114
 Circuit Location Baldwin
 Total Circuit Length (Miles) 20.66
 2022 Member Count 141
 Date Of Last Trim 2018

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	218.21	1.01	273.40	1.72
Bird	0.06%	0.15%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.80%	1.78%	0.00%	0.00%
Equipment Fault	23.18%	10.10%	0.00%	0.00%
Ice/Snow	0.09%	0.45%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	2.52%	6.84%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	5.59%	4.90%	21.74%	14.10%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	3.21%	11.89%	1.43%	1.71%
Small Animal	3.23%	9.21%	2.48%	5.56%
Squirrel	0.00%	0.00%	0.00%	0.00%
Tree - Non ROW	40.05%	20.95%	9.15%	8.12%
Tree - ROW	1.53%	1.78%	5.94%	5.13%
Unknown Cause	10.73%	17.53%	29.62%	34.19%
Wind	9.01%	14.41%	29.65%	31.20%

Corrections to be made:

Storms and public accident outages. No corrections needed at this time.

7-124

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 Rd/Jacks Creek Rd
 Total Circuit Length (Miles) 15.1
 2022 Member Count 156
 Date Of Last Trim 2018

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	214.95	1.23	434.93	2.54
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	5.15%	4.56%	12.57%	10.94%
Equipment Fault	77.86%	61.55%	76.35%	64.63%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	3.87%	6.57%	1.12%	2.54%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	0.41%	0.42%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	1.00%	5.08%	1.56%	1.53%
Small Animal	3.82%	10.28%	5.35%	12.47%
Squirrel	0.00%	0.00%	0.00%	0.00%
Tree - Non ROW	6.08%	7.73%	0.00%	0.00%
Tree - ROW	1.14%	3.07%	2.78%	7.38%
Unknown Cause	0.49%	0.64%	0.27%	0.51%
Wind	0.16%	0.11%	0.00%	0.00%

Corrections to be made:

Equipment repaired at time of the outage. No corrections needed at this time.

7-134

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) 22.3
 2022 Member Count 398
 Date Of Last Trim 2021

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	218.26	1.51	237.03	1.14
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.18%	0.24%	0.00%	0.00%
Equipment Fault	34.69%	28.43%	91.09%	89.16%
Ice/Snow	0.16%	0.03%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	0.50%	0.68%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.29%	0.27%	0.00%	0.00%
Scheduled	0.05%	0.20%	0.22%	1.33%
Small Animal	1.26%	2.92%	0.46%	1.33%
Squirrel	0.49%	1.02%	0.00%	0.00%
Tree - Non ROW	32.51%	45.46%	0.73%	1.11%
Tree - ROW	28.23%	18.02%	7.50%	7.08%
Unknown Cause	1.06%	1.67%	0.00%	0.00%
Wind	0.57%	1.05%	0.00%	0.00%

Corrections to be made:

Equipment repaired at time of the outage. No corrections needed at this time.

7-144

Substation Name and Number Newby 7
 Substation Location 257 Maple Grove Rd, Richmond, KY 40475
 Circuit Name and Number Newby 144
 Circuit Location Bears Den/Mule Shed Rd
 Total Circuit Length (Miles) 59.12
 2022 Member Count 645
 Date Of Last Trim 2018

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	209.16	1.56	363.17	2.46
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.59%	0.37%	0.05%	0.06%
Equipment Fault	16.35%	14.75%	3.17%	6.92%
Ice/Snow	0.91%	0.89%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	0.24%	0.47%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	8.21%	6.13%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	5.48%	8.96%	14.85%	25.40%
Small Animal	13.77%	13.47%	1.78%	2.98%
Squirrel	0.20%	0.47%	0.55%	1.08%
Tree - Non ROW	39.62%	36.34%	53.75%	26.98%
Tree - ROW	6.06%	6.54%	3.37%	4.44%
Unknown Cause	6.55%	10.42%	17.07%	28.89%
Wind	2.01%	1.20%	5.40%	3.24%

Corrections to be made:

No corrections needed at this time.

1-114

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) 20.65
 2022 Member Count 236
 Date Of Last Trim 2018

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	70.64	0.92	115.86	1.66
Bird	0.76%	1.32%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.40%	0.28%	0.00%	0.00%
Equipment Fault	2.55%	1.98%	2.28%	1.55%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	5.45%	4.61%	0.51%	0.78%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	2.49%	1.32%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	5.62%	2.54%	0.62%	0.52%
Small Animal	16.21%	28.15%	10.79%	12.44%
Squirrel	1.11%	2.07%	0.36%	0.26%
Tree - Non ROW	26.76%	16.20%	15.52%	11.14%
Tree - ROW	9.47%	6.59%	5.61%	3.63%
Unknown Cause	26.68%	33.05%	64.31%	69.69%
Wind	2.48%	1.88%	0.00%	0.00%

Corrections to be made:

No corrections needed.

Substation Name and Number Nicholasville 1
 Substation Location 1049 Bethany Rd, Nicholasville, KY 40356
 Circuit Name and Number Nicholasville 134
 Circuit Location Bethany Rd
 Total Circuit Length (Miles) 11.59
 2022 Member Count 145
 Date Of Last Trim 2019

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	65.15	0.54	227.43	1.48
Bird	0.98%	2.85%	0.48%	1.90%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Equipment Fault	12.35%	12.69%	14.28%	17.06%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	0.60%	1.81%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	50.41%	36.79%	71.97%	66.82%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Small Animal	13.94%	17.62%	0.46%	1.90%
Squirrel	0.14%	0.52%	0.00%	0.00%
Tree - Non ROW	1.06%	3.11%	0.00%	0.00%
Tree - ROW	3.65%	5.18%	0.24%	0.95%
Unknown Cause	10.17%	16.32%	2.95%	5.69%
Wind	6.71%	3.11%	9.62%	5.69%

Corrections to be made:

Public accident outages. No corrections needed.

22-114

Substation Name and Number Ninevah 22
Substation Location 1746 Clifton Rd, Lawrenceburg, KY 40342
Circuit Name and Number Ninevah 114
Circuit Location Wildcat
Total Circuit Length (Miles) 45.3
2022 Member Count 416
Date Of Last Trim 2017

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	49.19	0.56	64.88	0.60
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.27%	0.97%	0.17%	0.40%
Equipment Fault	3.88%	6.48%	2.32%	0.40%
Flash Flood	1.42%	0.43%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	8.94%	11.45%	3.15%	3.61%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	0.29%	0.32%	0.00%	0.00%
Sag/Clearance	4.09%	3.89%	0.00%	0.00%
Scheduled	0.67%	0.86%	1.50%	2.01%
Small Animal	7.99%	19.44%	6.75%	14.86%
Squirrel	0.12%	0.22%	0.00%	0.00%
Tree - Non ROW	44.95%	30.24%	59.78%	51.81%
Tree - ROW	17.91%	20.84%	26.33%	26.91%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Wind	9.46%	4.86%	0.00%	0.00%

Corrections to be made:

To be trimmed in 2023.

22-124

Substation Name and Number Ninevah 22
 Substation Location 1746 Clifton Rd, Lawrenceburg, KY 40342
 Circuit Name and Number Ninevah 124
 Circuit Location Walker Ln
 Total Circuit Length (Miles) 13.49
 2022 Member Count 127
 Date Of Last Trim 2018

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	5.49	0.09	16.93	0.25
Bird	21.08%	15.56%	27.21%	21.88%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	1.95%	4.44%	2.51%	6.25%
Equipment Fault	6.49%	4.44%	8.37%	6.25%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	21.48%	8.89%	27.72%	12.50%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	7.24%	8.89%	9.35%	12.50%
Small Animal	25.26%	42.22%	24.84%	40.63%
Squirrel	0.00%	0.00%	0.00%	0.00%
Tree - Non ROW	1.95%	8.89%	0.00%	0.00%
Tree - ROW	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Wind	14.56%	6.67%	0.00%	0.00%

Corrections to be made:

Public accident related outages. No corrections needed.

22-134

Substation Name and Number Ninevah 22
 Substation Location 1746 Clifton Rd, Lawrenceburg, KY 40342
 Circuit Name and Number Ninevah 134
 Circuit Location Lanes Mill/Dove Creek
 Total Circuit Length (Miles) 60.7
 2022 Member Count 1000
 Date Of Last Trim 2017

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	109.05	0.98	204.05	1.98
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.13%	0.17%	0.28%	0.31%
Equipment Fault	7.59%	7.57%	0.42%	0.56%
Ice/Snow	1.99%	3.78%	0.83%	1.28%
Large Animal	0.00%	0.02%	0.00%	0.00%
Lightning	9.63%	9.57%	5.28%	3.21%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	0.38%	0.86%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	0.86%	0.99%	1.78%	1.63%
Small Animal	7.89%	14.94%	10.00%	18.42%
Squirrel	0.02%	0.02%	0.00%	0.00%
Tree - Non ROW	41.44%	37.24%	59.04%	60.15%
Tree - ROW	10.90%	11.48%	10.66%	5.71%
Unknown Cause	3.92%	5.48%	2.01%	3.16%
Wind	15.24%	7.89%	9.70%	5.56%

Corrections to be made:

To be trimmed in 2023.

15-104

Substation Name and Number North Madison 15
 Substation Location 2064 Jacks Creek Pike, Richmond, KY 40475
 Circuit Name and Number North Madison 104
 Circuit Location Falcon Crest Dr/Hickory Meadows Dr
 Total Circuit Length (Miles) 12.3
 2022 Member Count 213
 Date Of Last Trim 2022

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	53.30	0.61	143.94	2.33
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Equipment Fault	17.60%	9.46%	4.30%	2.06%
Ice/Snow	0.08%	0.16%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	7.58%	5.61%	0.64%	0.82%
Small Animal	0.25%	0.32%	0.45%	0.41%
Squirrel	16.47%	33.33%	29.68%	42.80%
Tree - Non ROW	0.65%	0.80%	0.00%	0.00%
Tree - ROW	10.53%	33.81%	18.69%	43.21%
Unknown Cause	4.94%	4.17%	8.90%	5.35%
Wind	41.89%	12.34%	37.34%	5.35%

Corrections to be made:

No corrections needed.

15-114

Substation Name and Number North Madison 15
 Substation Location 2064 Jacks Creek Pike, Richmond, KY 40475
 Circuit Name and Number North Madison 114
 Circuit Location Boones Trace
 Total Circuit Length (Miles) 30.4
 2022 Member Count 554
 Date Of Last Trim 2016

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	243.78	1.56	459.30	2.31
Bird	0.10%	0.27%	0.00%	0.00%
Contractor	0.03%	0.15%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Equipment Fault	5.68%	22.35%	8.68%	26.40%
Ice/Snow	0.98%	10.28%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	0.00%	0.00%	0.00%	0.00%
Overload	1.51%	3.68%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	1.85%	1.07%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	0.39%	1.12%	0.42%	1.12%
Small Animal	0.99%	2.64%	0.82%	2.24%
Squirrel	0.00%	0.00%	0.00%	0.00%
Tree - Non ROW	79.05%	45.56%	70.26%	36.00%
Tree - ROW	0.80%	1.07%	1.30%	1.28%
Unknown Cause	0.95%	1.47%	1.67%	3.04%
Wind	7.68%	10.33%	16.86%	29.92%

Corrections to be made:

To be trimmed in 2023.

15-124

Substation Name and Number North Madison 15
 Substation Location 2064 Jacks Creek Pike, Richmond KY 40475
 Circuit Name and Number North Madison 124
 Circuit Location Indigo Run
 Total Circuit Length (Miles) 18.2
 2022 Member Count 279
 Date Of Last Trim 2022

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	213.99	0.73	945.03	2.21
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.05%	0.10%	0.00%	0.00%
Equipment Fault	75.05%	31.44%	84.60%	51.39%
Ice/Snow	0.18%	0.50%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	9.68%	28.76%	0.03%	0.16%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	0.02%	0.10%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	0.63%	5.17%	0.08%	2.62%
Small Animal	0.67%	5.67%	0.07%	0.33%
Squirrel	0.00%	0.00%	0.00%	0.00%
Tree - Non ROW	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.09%	0.60%	0.03%	0.16%
Wind	13.63%	27.66%	15.19%	45.34%

Corrections to be made:

Equipment repaired at time of the outage. No corrections needed at this time.

15-134

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 Tates Creek
 Total Circuit Length (Miles) 31.59
 2022 Member Count 250
 Date Of Last Trim 2016

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	112.29	1.01	127.32	1.97
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Equipment Fault	13.42%	9.61%	2.12%	0.60%
Ice/Snow	2.84%	2.27%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	0.48%	0.94%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	1.50%	1.02%	6.59%	2.59%
Small Animal	7.75%	8.13%	21.55%	11.78%
Squirrel	0.00%	0.00%	0.00%	0.00%
Tree - Non ROW	20.49%	13.98%	3.01%	0.20%
Tree - ROW	39.03%	35.63%	28.22%	21.56%
Unknown Cause	12.50%	27.42%	38.52%	63.27%
Wind	1.99%	1.02%	0.00%	0.00%

Corrections to be made:

To be trimmed in 2023.

40-124

Substation Name and Number Oxford 40
 Substation Location 3466 Cynthiana Rd, Georgetown, KY 40324
 Circuit Name and Number Oxford 124
 Circuit Location Cherry Blossom
 Total Circuit Length (Miles) 23.5
 2022 Member Count 343
 Date Of Last Trim 2022

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	50.14	0.39	81.30	0.55
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	1.66%	1.42%	4.93%	4.76%
Equipment Fault	12.88%	6.64%	0.60%	0.53%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	21.33%	14.22%	53.93%	39.15%
Overload	6.21%	5.37%	19.39%	17.99%
Power Supplier	43.40%	49.92%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	0.78%	3.00%	1.90%	6.88%
Small Animal	6.17%	9.32%	15.68%	23.81%
Squirrel	0.46%	0.95%	1.36%	3.17%
Tree - Non ROW	2.34%	2.37%	3.20%	3.70%
Tree - ROW	0.00%	0.00%	0.00%	0.00%
Unknown Cause	0.68%	1.11%	0.00%	0.00%
Wind	4.08%	5.69%	0.00%	0.00%

Corrections to be made:

Storm related outages. No corrections needed.

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) 32.9
 2022 Member Count 324
 Date Of Last Trim 2022

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	242.38	1.84	276.36	1.90
Bird	0.36%	1.30%	1.53%	6.02%
Contractor	0.26%	0.60%	0.00%	0.00%
Deterioration	0.03%	0.04%	0.00%	0.00%
Equipment Fault	2.21%	2.91%	0.25%	0.16%
Ice/Snow	0.10%	0.07%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	0.10%	0.11%	0.12%	0.16%
Overload	0.01%	0.07%	0.00%	0.00%
Power Supplier	8.48%	10.48%	0.00%	0.00%
Public Accident	1.54%	2.35%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	0.57%	0.81%	0.33%	0.98%
Small Animal	2.40%	5.58%	0.07%	0.16%
Squirrel	0.13%	0.21%	0.57%	0.98%
Tree - Non ROW	44.88%	40.60%	77.01%	62.93%
Tree - ROW	2.06%	2.63%	0.00%	0.00%
Unknown Cause	1.20%	1.89%	3.92%	6.83%
Wind	35.68%	30.36%	16.20%	21.79%

Corrections to be made:

No corrections needed at this time.

28-124

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 Benson Creek/Hammonds Creek
 Total Circuit Length (Miles) 43.5
 2022 Member Count 423
 Date Of Last Trim 2018

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	69.19	0.68	98.13	0.65
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.39%	4.00%	0.00%	0.00%
Deterioration	0.90%	3.83%	1.05%	1.17%
Equipment Fault	4.49%	7.33%	0.09%	0.39%
Ice/Snow	4.99%	5.16%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	1.95%	1.67%	0.47%	0.78%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	0.68%	0.58%	0.41%	0.39%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	5.24%	4.50%	3.31%	6.25%
Small Animal	3.15%	6.99%	3.72%	8.98%
Squirrel	4.22%	5.66%	0.00%	0.00%
Tree - Non ROW	42.63%	29.14%	77.23%	78.52%
Tree - ROW	14.58%	12.49%	0.30%	0.39%
Unknown Cause	0.00%	0.00%	0.00%	0.00%
Wind	16.79%	18.65%	13.44%	3.13%

Corrections to be made:

No corrections needed at this time.

28-134

Substation Name and Number Powell Taylor 28
 Substation Location 1024 Powell Taylor Rd, Lawrenceburg, KY 40342
 Circuit Name and Number Powell Taylor 134
 Circuit Location Walmart/Briar Creek
 Total Circuit Length (Miles) 10.9
 2022 Member Count 364
 Date Of Last Trim 2017

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	12.54	0.18	22.87	0.30
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.80%	0.65%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Equipment Fault	38.49%	22.80%	1.40%	1.87%
Ice/Snow	2.07%	0.33%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	0.36%	0.98%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	0.44%	0.33%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	2.89%	2.28%	4.26%	5.61%
Small Animal	36.32%	57.65%	50.79%	60.75%
Squirrel	0.00%	0.00%	0.00%	0.00%
Tree - Non ROW	0.00%	0.00%	0.00%	0.00%
Tree - ROW	0.00%	0.00%	0.00%	0.00%
Unknown Cause	2.32%	3.91%	0.00%	0.00%
Wind	16.29%	11.07%	43.55%	31.78%

Corrections to be made:

No corrections needed at this time.

28-144

Substation Name and Number Powell Taylor 28
 Substation Location 1024 Powell Taylor Rd, Lawrenceburg, KY 40342
 Circuit Name and Number Powell Taylor 144
 Circuit Location Powell Taylor/Glenview
 Total Circuit Length (Miles) 9.3
 2022 Member Count 187
 Date Of Last Trim 2017

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	36.51	0.71	59.21	0.56
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Equipment Fault	6.00%	4.39%	0.00%	0.00%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	48.26%	36.91%	66.25%	54.81%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	0.00%	0.00%	0.00%	0.00%
Small Animal	9.99%	10.29%	0.35%	0.96%
Squirrel	0.00%	0.00%	0.00%	0.00%
Tree - Non ROW	6.83%	31.16%	9.14%	18.27%
Tree - ROW	20.82%	13.01%	0.00%	0.00%
Unknown Cause	0.23%	0.15%	0.00%	0.00%
Wind	7.87%	4.08%	24.25%	25.96%

Corrections to be made:

Storm related outages. No corrections needed at this time.

23-124

Substation Name and Number Sinai 23
 Substation Location HWY 62, Lawrenceburg, KY 40342
 Circuit Name and Number Sinai 124
 Circuit Location Beaver Lake/HWY 53
 Total Circuit Length (Miles) 100.4
 2022 Member Count 842
 Date Of Last Trim 2017

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	145.96	1.08	252.43	1.48
Bird	0.02%	0.06%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	2.13%	2.88%	0.36%	1.79%
Equipment Fault	20.27%	25.91%	2.28%	3.91%
Ice/Snow	0.21%	0.06%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	2.17%	2.79%	0.08%	0.16%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	0.07%	0.06%	0.04%	0.08%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	0.47%	0.85%	0.86%	1.14%
Small Animal	11.81%	19.42%	12.22%	19.40%
Squirrel	0.12%	0.26%	0.23%	0.57%
Tree - Non ROW	39.59%	23.35%	40.89%	28.12%
Tree - ROW	6.91%	10.31%	6.49%	10.68%
Unknown Cause	0.03%	0.06%	0.06%	0.16%
Wind	16.21%	14.01%	36.48%	33.99%

Corrections to be made:

No corrections needed at this time.

12-104

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 Blvd/Dogwood Trace
 Total Circuit Length (Miles) 22.17
 2022 Member Count 1084
 Date Of Last Trim 2019

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	83.94	1.05	292.16	3.06
Bird	0.21%	0.32%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.05%	0.07%	0.00%	0.00%
Equipment Fault	19.78%	10.79%	24.83%	12.39%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	1.56%	0.62%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	3.87%	3.14%	0.00%	0.00%
Small Animal	15.72%	23.02%	18.58%	33.20%
Squirrel	0.04%	0.09%	0.03%	0.06%
Tree - Non ROW	51.15%	55.38%	54.84%	49.61%
Tree - ROW	6.00%	3.14%	0.00%	0.00%
Unknown Cause	1.62%	3.43%	1.71%	4.73%
Wind	0.00%	0.00%	0.00%	0.00%

Corrections to be made:

No corrections needed at this time.

12-124

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) 32.1
 2022 Member Count 434
 Date Of Last Trim 2017

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	101.47	0.80	228.25	1.54
Bird	0.06%	0.12%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Equipment Fault	12.77%	16.65%	1.34%	3.64%
Ice/Snow	8.26%	1.61%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	0.01%	0.12%	0.00%	0.00%
Overload	0.54%	0.78%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	0.08%	0.12%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	1.00%	0.84%	1.62%	1.21%
Small Animal	6.12%	11.28%	7.82%	13.05%
Squirrel	0.00%	0.00%	0.00%	0.00%
Tree - Non ROW	33.24%	33.89%	15.40%	12.90%
Tree - ROW	5.03%	4.53%	4.16%	1.37%
Unknown Cause	1.20%	3.40%	0.00%	0.00%
Wind	31.68%	26.67%	69.66%	67.83%

Corrections to be made:

Storm related outages. No corrections needed 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) 130.9
 2022 Member Count 1003
 Date Of Last Trim 2020

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	138.58	1.30	248.63	2.20
Bird	0.04%	0.06%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	2.62%	1.36%	0.67%	0.51%
Equipment Fault	7.37%	6.33%	7.57%	3.64%
Flood	0.08%	0.26%	0.00%	0.00%
Ice/Snow	1.11%	1.07%	1.61%	1.52%
Large Animal	0.01%	0.03%	0.02%	0.05%
Lightning	3.79%	5.39%	0.16%	0.32%
Overload	0.02%	0.03%	0.04%	0.09%
Power Supplier	9.72%	15.92%	26.30%	45.78%
Public Accident	2.24%	1.91%	1.57%	1.57%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	0.52%	0.90%	0.81%	1.20%
Small Animal	10.22%	18.69%	8.58%	16.41%
Squirrel	2.34%	1.73%	0.00%	0.00%
Tree - Non ROW	35.48%	30.75%	28.84%	17.98%
Tree - ROW	7.95%	10.28%	7.67%	6.13%
Unknown Cause	0.68%	0.88%	1.11%	1.57%
Wind	15.82%	4.41%	15.05%	3.23%

Corrections to be made:

Power supplier and storm related outages. No corrections needed at this time.

24-124

Substation Name and Number Van Arsdell 24
 Substation Location 104 Bardstown Rd, Harrodsburg, KY 40330
 Circuit Name and Number Van Arsdell 124
 Circuit Location Bohon
 Total Circuit Length (Miles) 42.1
 2022 Member Count 365
 Date Of Last Trim 2019

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	63.32	0.81	142.79	2.31
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	2.13%	2.22%	0.72%	0.48%
Equipment Fault	8.32%	3.49%	6.91%	4.03%
Flood	0.52%	0.69%	0.00%	0.00%
Ice/Snow	0.31%	0.14%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	28.60%	33.82%	34.30%	47.35%
Overload	0.26%	0.28%	0.00%	0.00%
Power Supplier	20.16%	24.86%	44.00%	43.13%
Public Accident	1.29%	0.63%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	16.41%	13.26%	0.60%	0.48%
Small Animal	10.58%	11.04%	5.31%	4.34%
Squirrel	0.00%	0.00%	0.00%	0.00%
Tree - Non ROW	6.57%	3.89%	6.49%	0.48%
Tree - ROW	2.92%	2.50%	0.12%	0.12%
Unknown Cause	0.07%	0.07%	0.14%	0.12%
Wind	3.28%	2.57%	0.00%	0.00%

Corrections to be made:

Power supplier outages. Storm related outages. No corrections needed at this time.

24-134

Substation Name and Number Van Arsdell 24
 Substation Location 104Bardstown Rd, Harrodsburg, KY 40330
 Circuit Name and Number Van Arsdell 134
 Circuit Location Cornishville
 Total Circuit Length (Miles) 76.8
 2022 Member Count 472
 Date Of Last Trim 2015

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	232.23	2.05	373.65	5.11
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.05%	0.06%	0.06%	0.04%
Equipment Fault	8.88%	13.08%	12.64%	19.57%
Ice/Snow	10.63%	3.06%	0.00%	0.00%
Large Animal	1.06%	1.04%	3.19%	2.03%
Lightning	26.56%	26.92%	33.61%	29.39%
Overload	1.47%	1.78%	4.43%	3.48%
Power Supplier	5.70%	10.00%	17.16%	19.61%
Public Accident	8.69%	9.89%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	4.33%	7.40%	10.87%	12.23%
Small Animal	3.54%	5.14%	2.88%	3.44%
Squirrel	0.04%	0.06%	0.05%	0.04%
Tree - Non ROW	1.48%	2.73%	0.00%	0.00%
Tree - ROW	20.29%	11.90%	2.82%	0.70%
Unknown Cause	2.80%	4.14%	6.63%	5.85%
Wind	4.46%	2.81%	5.65%	3.61%

Corrections to be made:

Power supplier and storm related outages. No corrections needed at this time.

24-144

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) 91.5
 2022 Member Count 656
 Date Of Last Trim 2022

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	158.09	1.33	346.99	3.51
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	11.65%	10.99%	17.69%	11.28%
Equipment Fault	20.83%	18.52%	14.89%	16.54%
Fire	1.02%	1.16%	0.00%	0.00%
Ice/Snow	3.33%	1.13%	0.00%	0.00%
Large Animal	0.23%	0.28%	0.51%	0.53%
Lightning	22.08%	21.03%	32.01%	30.32%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	8.49%	15.43%	18.82%	28.65%
Public Accident	3.04%	2.29%	0.00%	0.00%
Sag/Clearance	0.37%	0.78%	0.00%	0.00%
Scheduled	0.98%	1.11%	0.75%	0.53%
Small Animal	3.78%	5.17%	5.85%	4.87%
Squirrel	0.00%	0.00%	0.00%	0.00%
Tree - Non ROW	5.33%	4.87%	7.34%	3.20%
Tree - ROW	1.67%	2.83%	0.00%	0.00%
Unknown Cause	1.40%	2.93%	2.09%	4.04%
Wind	15.80%	11.48%	0.07%	0.04%

Corrections to be made:

Power supplier and storm related outages. No corrections needed at this time.

8-124

Substation Name and Number West Berea 8
 Substation Location 5350 Walnut Meadow Rd, Berea, KY 40403
 Circuit Name and Number West Berea 124
 Circuit Location Peggy Flats/Creekwood Dr
 Total Circuit Length (Miles) 40.58
 2022 Member Count 790
 Date Of Last Trim 2021

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	86.29	0.89	97.75	0.97
Bird	0.00%	0.00%	0.00%	0.00%
Contractor	0.01%	0.06%	0.00%	0.00%
Deterioration	0.32%	0.34%	0.00%	0.00%
Equipment Fault	28.39%	31.77%	0.46%	0.40%
Ice/Snow	5.11%	0.80%	0.00%	0.00%
Large Animal	0.02%	0.03%	0.10%	0.13%
Lightning	16.15%	14.59%	4.75%	6.36%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	2.39%	1.79%	0.00%	0.00%
Sag/Clearance	1.69%	2.16%	0.00%	0.00%
Scheduled	0.75%	0.60%	0.97%	0.79%
Small Animal	10.09%	12.69%	5.25%	5.96%
Squirrel	0.02%	0.03%	0.08%	0.13%
Tree - Non ROW	21.41%	18.37%	65.86%	55.63%
Tree - ROW	4.44%	4.32%	3.07%	2.91%
Unknown Cause	5.34%	7.89%	15.54%	24.24%
Wind	3.86%	4.57%	3.92%	3.44%

Corrections to be made:

No corrections needed at this time.

18-114

Substation Name and Number West Nicholasville #2 18
 Substation Location 398 Bass Pond Glen Dr, Nicholasville, KY 40356
 Circuit Name and Number West Nicholasville #2 114
 Circuit Location Bell Place
 Total Circuit Length (Miles) 11.3
 2022 Member Count 688
 Date Of Last Trim 2022

Total Minutes/Frequency	5 Year Average		2022	
	SAIDI	SAIFI	SAIDI	SAIFI
	12.39	0.14	27.16	0.30
Bird	29.02%	22.02%	50.18%	32.85%
Contractor	0.00%	0.00%	0.00%	0.00%
Deterioration	0.00%	0.00%	0.00%	0.00%
Equipment Fault	12.49%	11.94%	7.15%	6.28%
Ice/Snow	0.00%	0.00%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	0.00%	0.00%	0.00%	0.00%
Overload	0.00%	0.00%	0.00%	0.00%
Power Supplier	0.00%	0.00%	0.00%	0.00%
Public Accident	0.00%	0.00%	0.00%	0.00%
Sag/Clearance	0.00%	0.00%	0.00%	0.00%
Scheduled	1.79%	5.31%	1.29%	1.93%
Small Animal	11.37%	23.61%	14.01%	26.09%
Squirrel	0.00%	0.00%	0.00%	0.00%
Tree - Non ROW	0.00%	0.00%	0.00%	0.00%
Tree - ROW	32.60%	20.16%	14.96%	16.43%
Unknown Cause	11.74%	15.92%	12.41%	16.43%
Wind	0.98%	1.06%	0.00%	0.00%

Corrections to be made:

Bird gaurds added to circuit. No other corrections needed at this time.



**DISTRIBUTION RIGHT-OF-WAY VEGETATION
MANAGEMENT 2023 PLAN/ 2022 PLAN REVIEW**

April 2023

Blue Grass Energy Vegetation Management Plan

2022 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 2022.

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.

2020-2023 Vegetation Management Strategy

SCHEDULED MAINTENANCE AND CLEARANCE

Blue Grass Energy provides electric service to over 60,000 members through a network of over 4,800 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 23 distribution circuits scheduled in 2022 and a total of 717 miles of line completed. In 2023, there are 21 distribution circuits, for a total of 773 miles scheduled for completion. The varying site conditions determine the cost and cause completed miles to vary by year.

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

Maintenance Year	2020	2021	2022	2023
Scheduled	676	773	768	773
Completed	676	773	717	TBD

Of the 2021& 2022 maintenance year mileage, 12 circuits consisting of 835 miles were identified for selective herbicide application in 2022. 582 miles were completed in 2022 due to contractor related labor shortages. Herbicide application consisting of 666 are scheduled for 2023. This

includes 552 miles from the 2021/2022 trim circuits and 114 miles from herbicide work not completed in 2022.

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

Maintenance Year - Herbicide	2020	2021	2022	2023
Scheduled	979	762	835	666
Completed	979	302	582	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 2022 to identify species failure rates and help plan future scheduled and non-scheduled work to eliminate potential outages. The investigation of tree related outages will continue through 2023 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	2018	2019	2020	2021	2022
TOTALS	142	150	114	222	167

†Outages on primary conductor excluding major event days

2022 VEGETATION MANAGEMENT PLAN REVIEW

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

In 2022, 717 trim miles and 582 herbicide miles were completed. 22,510 diameter inches treated with tree growth regulator (TGR).

Listed below are some of the processes used in 2022:

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. Vegetation Management personnel maintain ISA Certified Arborist Utility Specialist certification.
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. Met requirements for Arbor Day Foundation Tree Line USA certification.

2023 VEGETATION MANAGEMENT PLAN

In addition to continuing the Distribution Right-Of-Way Vegetation Management Plans outlined for 2021 we intend to utilize the following key objectives in the upcoming year:

- Continue Formal Crew Field Audit Evaluation process, at the 100 percent level
- Continue to Uphold National Arbor Day Tree Line USA standards
- Continue to uphold ANSI A300 pruning and Z133 safety standards
- Utilization of vegetation management Best Management Practices as defined by the International Society of Arboriculture.
- Continue to evaluate and increase production and quality with established work force.
- Further inspection and reduction of unnecessary reactive maintenance
- Utilize multiple ROW vegetation maintenance contractors
- Continue with formal herbicide spray program to control woody species following maintenance pruning.
- Evaluate effectiveness of program for using tree growth regulators (TGR) in urban area yard trees and continue use of TGR's in 2023.

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