

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

| | |
|----------------------------|--|
| UTILITY NAME | Farners Rural Electric Cooperative |
| REPORT PREPARED BY | Chuck Bishop |
| E-MAIL ADDRESS OF PREPARER | cbishop@farmersrecc.net |
| PHONE NUMBER OF PREPARER | 270-651-2191 Ext 8150 |

SECTION 2: REPORT YEAR

| | |
|-------------------------|------|
| CALENDAR YEAR OF REPORT | 2023 |
|-------------------------|------|

SECTION 3: MAJOR EVENT DAYS

| | |
|--|------------|
| T_{MED} | 7.99 |
| FIRST DATE USED TO DETERMINE T_{MED} | 1/1/2018 |
| LAST DATE USED TO DETERMINE T_{MED} | 12/31/2023 |
| NUMBER OF MED IN REPORT YEAR | 8 |

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 | 26452 | TOTAL CIRCUITS | 67 |
|-----------------|-------|----------------|----|

Excluding MED

| | 5 YEAR AVERAGE | | REPORTING YEAR |
|-------|----------------|-------|----------------|
| SAIDI | 174.93 | SAIDI | 539.24 |
| SAIFI | 1.28 | SAIFI | 1.79 |

Including MED

| | 5 YEAR AVERAGE | | REPORTING YEAR |
|-------|----------------|-------|----------------|
| SAIDI | 547.94 | SAIDI | 2509.85 |
| SAIFI | 1.80 | SAIFI | 3.69 |

Notes:

- 1) All duration indices (SAIDI, CAIDI) 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, CAIDI, and T_{MED}

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 1

1. SUBSTATION NAME AND NUMBER

Goodnight (1)

Goodnight1

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Barren County - Hwy 31E (N Jackson Hwy) - Goodnight

3. CIRCUIT NAME AND NUMBER

Hiseville (1)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Hiseville (1)

5. TOTAL CIRCUIT MILES (MILES)

76.59

6. CUSTOMER COUNT FOR THIS CIRCUIT

482

7. DATE OF LAST CIRCUIT TRIM (VM)

2022

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|------------------------|--------|
| Tree Related - Off R/W | 66.45% |
| Weather | 21.90% |
| Tree Related - On R/W | 5.39% |
| Animal | 4.94% |
| Other | 1.31% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

101.17

10. REPORTING YEAR (SAIDI)

113.03

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

1.382

12. REPORTING YEAR (SAIFI)

1.53

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

None taken or to be taken. Two outages drove the circuit's performance. Both were attributed to inclement weather conditions. The primary contributing outage was due to an off right-of-way tree during the five day outage event starting on June 25. No systemic deficiency was identified.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 4

1. SUBSTATION NAME AND NUMBER

Goodnight (1)

Goodnight1

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Barren County - Hwy 31E (N Jackson Hwy) - Goodnight

3. CIRCUIT NAME AND NUMBER

Rock Quarry (4)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Rock Quarry (4)

5. TOTAL CIRCUIT MILES (MILES)

48.46

6. CUSTOMER COUNT FOR THIS CIRCUIT

522

7. DATE OF LAST CIRCUIT TRIM (VM)

2021

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|-----------------------|--------|
| Public | 81.31% |
| Tree Related - On R/W | 11.14% |
| Weather | 5.31% |
| Planned Outage | 2.23% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

62.742

10. REPORTING YEAR (SAIDI)

81.74

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.762

12. REPORTING YEAR (SAIFI)

1.37

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

None taken or to be taken. The outage driving this circuit's performance was public caused and could not be anticipated.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 1

1. SUBSTATION NAME AND NUMBER

Munfordville (2)

Munfordville2

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Hart County - Hwy 31W (Main St) - Munfordville

3. CIRCUIT NAME AND NUMBER

Seymour (1)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Seymour (1)

5. TOTAL CIRCUIT MILES (MILES)

8.13

6. CUSTOMER COUNT FOR THIS CIRCUIT

40

7. DATE OF LAST CIRCUIT TRIM (VM)

2015 (Budgeted 2024)

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|------------------------|--------|
| Tree Related - Off R/W | 62.12% |
| Other | 37.88% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

26.778

10. REPORTING YEAR (SAIDI)

105.5

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.302

12. REPORTING YEAR (SAIFI)

2.28

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

None taken or to be taken. One outage drove the circuit's performance. It was attributed to an off right-of-way tree during inclement weather conditions. No systemic deficiency was identified.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 2

1. SUBSTATION NAME AND NUMBER

Munfordville (2)

Munfordville2

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Hart County - Hwy 31W (Main St) - Munfordville

3. CIRCUIT NAME AND NUMBER

Northtown (2)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Northtown (2)

5. TOTAL CIRCUIT MILES (MILES)

79.34

6. CUSTOMER COUNT FOR THIS CIRCUIT

466

7. DATE OF LAST CIRCUIT TRIM (VM)

2011 (Budgeted 2024)

8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

| | |
|------------------------|--------|
| Weather | 64.84% |
| Tree Related - Off R/W | 24.04% |
| Tree Related - On R/W | 8.62% |
| Other | 2.50% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

178.4

10. REPORTING YEAR (SAIDI)

280.6

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.852

12. REPORTING YEAR (SAIFI)

2.26

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

The outages driving this circuit's performance were primarily in inclement weather conditions. Two of the outages were during a storm on the same day and another was during the seven day outage event starting on March 3. This circuit is budgeted for right-of-way to be cleared in 2024.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 3

1. SUBSTATION NAME AND NUMBER

Munfordville (2)

Munfordville2

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Hart County - Hwy 31W (Main St) - Munfordville

3. CIRCUIT NAME AND NUMBER

Priceville (3)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Priceville (3)

5. TOTAL CIRCUIT MILES (MILES)

95.57

6. CUSTOMER COUNT FOR THIS CIRCUIT

617

7. DATE OF LAST CIRCUIT TRIM (VM)

2015 (Budgeted 2025)

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|------------------------|--------|
| Tree Related - Off R/W | 37.48% |
| Tree Related - On R/W | 24.63% |
| Weather | 22.00% |
| Public | 9.87% |
| Planned Outage | 3.18% |
| Other | 2.84% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

188.39

10. REPORTING YEAR (SAIDI)

179.29

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

1.716

12. REPORTING YEAR (SAIFI)

1.81

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

None taken or to be taken. Two outages drove this circuit's performance. One was during inclement weather conditions and the second was due to an off right-of-way tree. No systemic deficiency was identified.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 5

1. SUBSTATION NAME AND NUMBER

Munfordville (2)

Munfordville2

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Hart County - Hwy 31W (Main St) - Munfordville

3. CIRCUIT NAME AND NUMBER

Jonesville (5)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Jonesville (5)

5. TOTAL CIRCUIT MILES (MILES)

10.48

6. CUSTOMER COUNT FOR THIS CIRCUIT

53

7. DATE OF LAST CIRCUIT TRIM (VM)

2014 (Budgeted 2024)

8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Tree Related - Off R/W 79.32%

Tree Related - On R/W 20.68%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

69.702

10. REPORTING YEAR (SAIDI)

194.68

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.632

12. REPORTING YEAR (SAIFI)

2.57

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

This circuit only experienced two outages which were tree related. This circuit is budgeted for right-of-way to be cleared in 2024.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 2

1. SUBSTATION NAME AND NUMBER

Temple Hill (3)

TempleHill3

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Barren County, Hwy 63 (Temple Hill Rd) - Temple Hill

3. CIRCUIT NAME AND NUMBER

Morrison Park (2)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Morrison Park (2)

5. TOTAL CIRCUIT MILES (MILES)

19.92

6. CUSTOMER COUNT FOR THIS CIRCUIT

179

7. DATE OF LAST CIRCUIT TRIM (VM)

2017

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|-----------------------|--------|
| Tree Related - On R/W | 78.80% |
| Weather | 17.14% |
| Other | 2.15% |
| Planned Outage | 1.91% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

45.606

10. REPORTING YEAR (SAIDI)

45.87

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.618

12. REPORTING YEAR (SAIFI)

0.5

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

None taken or to be taken. The outages driving this circuit's performance were due to inclement weather conditions or off right-of-way tree. No systemic deficiency was identified.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 4

1. SUBSTATION NAME AND NUMBER

Temple Hill (3)

TempleHill3

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Barren County, Hwy 63 (Temple Hill Rd) - Temple Hill

3. CIRCUIT NAME AND NUMBER

Etoile (4)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Etoile (4)

5. TOTAL CIRCUIT MILES (MILES)

18.1

6. CUSTOMER COUNT FOR THIS CIRCUIT

107

7. DATE OF LAST CIRCUIT TRIM (VM)

2018

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|-----------------------|--------|
| Tree Related - On R/W | 62.00% |
| Power Supply | 18.76% |
| Other | 17.83% |
| Weather | 1.41% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

187.65

10. REPORTING YEAR (SAIDI)

238.72

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

1.442

12. REPORTING YEAR (SAIFI)

2.62

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

None taken or to be taken. This circuit's performance was primarily driven by tree related outages during inclement weather conditions. No systemic deficiency was identified.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 6

1. SUBSTATION NAME AND NUMBER

Temple Hill (3)

TempleHill3

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Barren County, Hwy 63 (Temple Hill Rd) - Temple Hill

3. CIRCUIT NAME AND NUMBER

Temple Hill (6)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Temple Hill (6)

5. TOTAL CIRCUIT MILES (MILES)

34.95

6. CUSTOMER COUNT FOR THIS CIRCUIT

269

7. DATE OF LAST CIRCUIT TRIM (VM)

2017

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|------------------------|--------|
| Weather | 79.32% |
| Tree Related - Off R/W | 14.97% |
| Tree Related - On R/W | 3.64% |
| Equipment Failure | 1.16% |
| Other | 0.91% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

76.448

10. REPORTING YEAR (SAIDI)

165.29

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.854

12. REPORTING YEAR (SAIFI)

1.48

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

None taken or to be taken. This circuit's performance was driven by outages during inclement weather conditions. No systematic deficiency was identified.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 2

1. SUBSTATION NAME AND NUMBER

Knob Lick (4)

KnobLick4

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Metcalfe County - Hwy 70 (Sulphur Well Knob Lick Rd) - Knob Lick

3. CIRCUIT NAME AND NUMBER

Edmonton (2)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Edmonton (2)

5. TOTAL CIRCUIT MILES (MILES)

49.54

6. CUSTOMER COUNT FOR THIS CIRCUIT

323

7. DATE OF LAST CIRCUIT TRIM (VM)

2019

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|------------------------|--------|
| Tree Related - On R/W | 54.88% |
| Tree Related - Off R/W | 31.75% |
| Weather | 12.33% |
| Other | 1.04% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

51.784

10. REPORTING YEAR (SAIDI)

203.37

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.54

12. REPORTING YEAR (SAIFI)

0.98

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

None taken or to be taken. This circuit's performance was driven by tree-related outages due to inclement weather conditions with several of them being off right-of-way trees. No systematic deficiency was identified.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 4

1. SUBSTATION NAME AND NUMBER

Knob Lick (4)

KnobLick4

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Metcalfe County - Hwy 70 (Sulphur Well Knob Lick Rd) - Knob Lick

3. CIRCUIT NAME AND NUMBER

Center (4)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Center (4)

5. TOTAL CIRCUIT MILES (MILES)

110.01

6. CUSTOMER COUNT FOR THIS CIRCUIT

701

7. DATE OF LAST CIRCUIT TRIM (VM)

2019

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|------------------------|--------|
| Tree Related - On R/W | 78.89% |
| Tree Related - Off R/W | 13.13% |
| Weather | 3.24% |
| Planned Outage | 2.01% |
| Animal | 1.74% |
| Other | 0.99% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

53.622

10. REPORTING YEAR (SAIDI)

67.69

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.384

12. REPORTING YEAR (SAIFI)

0.98

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

None taken or to be taken. This circuit's performance was driven by tree-related outages due to inclement weather conditions with several of them being off right-of-way trees. No systematic deficiency was identified.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 5

1. SUBSTATION NAME AND NUMBER

Knob Lick (4)

KnobLick4

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Metcalfe County - Hwy 70 (Sulphur Well Knob Lick Rd) - Knob Lick

3. CIRCUIT NAME AND NUMBER

Wisdom (5)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Wisdom (5)

5. TOTAL CIRCUIT MILES (MILES)

28.01

6. CUSTOMER COUNT FOR THIS CIRCUIT

142

7. DATE OF LAST CIRCUIT TRIM (VM)

2019

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|------------------------|--------|
| Tree Related - Off R/W | 49.66% |
| Tree Related - On R/W | 44.04% |
| Weather | 4.70% |
| Planned Outage | 1.60% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

102.56

10. REPORTING YEAR (SAIDI)

143.63

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.75

12. REPORTING YEAR (SAIFI)

1.64

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

None taken or to be taken. This circuit's performance was driven by tree-related outages due to inclement weather conditions with several of them being off right-of-way trees. No systematic deficiency was identified.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 1

1. SUBSTATION NAME AND NUMBER

Beckton (5)

Beckton5

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Barren County - Hwy 1297 (Old Bowling Green Rd) - Beckton

3. CIRCUIT NAME AND NUMBER

Glasgow (1)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Glasgow (1)

5. TOTAL CIRCUIT MILES (MILES)

18.15

6. CUSTOMER COUNT FOR THIS CIRCUIT

172

7. DATE OF LAST CIRCUIT TRIM (VM)

2020

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|--------|--------|
| Public | 94.56% |
| Other | 5.44% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

96.576

10. REPORTING YEAR (SAIDI)

256.02

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

1.0186

12. REPORTING YEAR (SAIFI)

1.82

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

None taken or to be taken. This circuit's performance was driven by a public caused outage.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 2

1. SUBSTATION NAME AND NUMBER

Beckton (5)

Beckton5

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Barren County - Hwy 1297 (Old Bowling Green Rd) - Beckton

3. CIRCUIT NAME AND NUMBER

Rocky Hill (2)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Rocky Hill (2)

5. TOTAL CIRCUIT MILES (MILES)

108.25

6. CUSTOMER COUNT FOR THIS CIRCUIT

1190

7. DATE OF LAST CIRCUIT TRIM (VM)

2015

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|------------------------|--------|
| Tree Related - On R/W | 87.17% |
| Tree Related - Off R/W | 5.50% |
| Other | 3.71% |
| Weather | 3.63% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

152.38

10. REPORTING YEAR (SAIDI)

270.28

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

1.892

12. REPORTING YEAR (SAIFI)

1.18

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

None taken or to be taken. This circuit's performance was driven by tree-related outages due to inclement weather conditions with several of them being off right-of-way trees. No systemic deficiency was identified.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 1

1. SUBSTATION NAME AND NUMBER

Cave City (6)

CaveCity6

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Barren County - Hwy 90 (Happy Valley Rd) - Cave City

3. CIRCUIT NAME AND NUMBER

Mammoth Cave (1)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Mammoth Cave (1)

5. TOTAL CIRCUIT MILES (MILES)

34.34

6. CUSTOMER COUNT FOR THIS CIRCUIT

429

7. DATE OF LAST CIRCUIT TRIM (VM)

2021

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|------------------------|--------|
| Weather | 78.92% |
| Planned Outage | 17.88% |
| Tree Related - Off R/W | 1.94% |
| Tree Related - On R/W | 0.99% |
| Other | 0.26% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

132.24

10. REPORTING YEAR (SAIDI)

203.28

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.918

12. REPORTING YEAR (SAIFI)

0.79

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

None taken or to be taken. This circuit's performance was driven by a single weather related outage and several planned outages. No systemic deficiency was identified.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 3

1. SUBSTATION NAME AND NUMBER

Cave City (6)

CaveCity6

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Barren County - Hwy 90 (Happy Valley Rd) - Cave City

3. CIRCUIT NAME AND NUMBER

Northtown (3)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Northtown (3)

5. TOTAL CIRCUIT MILES (MILES)

32.1

6. CUSTOMER COUNT FOR THIS CIRCUIT

370

7. DATE OF LAST CIRCUIT TRIM (VM)

2023

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|----------------------|--------|
| Tree Related Off R/W | 48.66% |
| Tree Related On R/W | 27.96% |
| Other | 13.24% |
| Weather | 6.56% |
| Equipment | 3.58% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

151.06

10. REPORTING YEAR (SAIDI)

80.99

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.948

12. REPORTING YEAR (SAIFI)

1.33

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

None taken or to be taken. This circuit's performance was driven several tree-related outages during inclement weather conditions. Many of these were due to off right-of-way trees. No systemic deficiency was identified.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 5

1. SUBSTATION NAME AND NUMBER

Cave City (6)

CaveCity6

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Barren County - Hwy 90 (Happy Valley Rd) - Cave City

3. CIRCUIT NAME AND NUMBER

Park City (5)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Park City (5)

5. TOTAL CIRCUIT MILES (MILES)

23.44

6. CUSTOMER COUNT FOR THIS CIRCUIT

435

7. DATE OF LAST CIRCUIT TRIM (VM)

2021

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|----------------------|--------|
| Tree Related Off R/W | 46.74% |
| Weather | 34.31% |
| Tree Related On R/W | 14.63% |
| Planned | 2.07% |
| Equipment Failure | 1.33% |
| Other | 0.92% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

89.722

10. REPORTING YEAR (SAIDI)

83.6

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.524

12. REPORTING YEAR (SAIFI)

0.68

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

None taken or to be taken. This circuit's performance was driven by several weather related outages and several tree-related outages due to inclement weather conditions. Many of these were due to off right-of-way trees. No systemic deficiency was identified.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 6

1. SUBSTATION NAME AND NUMBER

Cave City (6)

CaveCity6

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Barren County - Hwy 90 (Happy Valley Rd) - Cave City

3. CIRCUIT NAME AND NUMBER

Bearwallow (6)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Bearwallow (6)

5. TOTAL CIRCUIT MILES (MILES)

59.56

6. CUSTOMER COUNT FOR THIS CIRCUIT

555

7. DATE OF LAST CIRCUIT TRIM (VM)

2023

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|----------------------|--------|
| Tree Related Off R/W | 67.28% |
| Public | 18.01% |
| Weather | 5.09% |
| Tree Related On R/W | 4.52% |
| Other | 2.18% |
| Animal | 1.96% |
| Planned | 0.96% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

17.56

10. REPORTING YEAR (SAIDI)

254.47

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.17

12. REPORTING YEAR (SAIFI)

1.1

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

None taken or to be taken. This circuit's performance was driven by several tree-related outages (largest outage was an off right-of-way tree) due to inclement weather conditions. There were also several planned outages due to maintenance. No systemic deficiency was identified.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 1

1. SUBSTATION NAME AND NUMBER

Galloway (8)

Galloway8

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Metcalfe County - Hwy 68-80 (Glasgow Rd) - Cave Ridge

3. CIRCUIT NAME AND NUMBER

Edmonton (1)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Edmonton (1)

5. TOTAL CIRCUIT MILES (MILES)

177.81

6. CUSTOMER COUNT FOR THIS CIRCUIT

1406

7. DATE OF LAST CIRCUIT TRIM (VM)

2018

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|----------------------|--------|
| Tree Related Off R/W | 49.03% |
| Tree Related On R/W | 35.28% |
| Weather | 10.07% |
| Unknown | 2.74% |
| Equipment Failure | 2.17% |
| Other | 0.71% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

125.18

10. REPORTING YEAR (SAIDI)

346.95

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

1.27

12. REPORTING YEAR (SAIFI)

2.6

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

None taken or to be taken. This circuit's performance was driven by tree-related outages due to inclement weather conditions with several of them being off right-of-way trees mainly during a five day outage event starting on June 25. No systemic deficiency was identified.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 2

1. SUBSTATION NAME AND NUMBER

Bonnieville (9)

Bonnieville9

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Hart County - Hwy 31W (N Dixie Hwy) - Bonnieville

3. CIRCUIT NAME AND NUMBER

Mundfordville (2)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Mundfordville (2)

5. TOTAL CIRCUIT MILES (MILES)

51.1

6. CUSTOMER COUNT FOR THIS CIRCUIT

374

7. DATE OF LAST CIRCUIT TRIM (VM)

2015 (Budgeted 2025)

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|----------------------|--------|
| Tree Related On R/W | 53.53% |
| Tree Related Off R/W | 28.39% |
| Weather | 9.51% |
| Equipment Failure | 6.22% |
| Other | 2.35% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

204.55

10. REPORTING YEAR (SAIDI)

549.1

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

1.38

12. REPORTING YEAR (SAIFI)

4.26

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

This circuit's performance was driven by tree-related outages due to inclement weather conditions with the largest outage due to an on right-of-way tree during a five day outage event starting on June 25. This circuit is budgeted for right-of-way to be cleared in 2025.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 1

1. SUBSTATION NAME AND NUMBER

West Glasgow 1 (10)

WestGlasgow110

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Barren County - Donnelly Drive - Glasgow

3. CIRCUIT NAME AND NUMBER

B.G. Road (1)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

B.G. Road (1)

5. TOTAL CIRCUIT MILES (MILES)

32.37

6. CUSTOMER COUNT FOR THIS CIRCUIT

304

7. DATE OF LAST CIRCUIT TRIM (VM)

2021

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|----------------------|--------|
| Tree Related On R/W | 50.53% |
| Power Supply | 37.53% |
| Weather | 4.53% |
| Tree Related Off R/W | 4.11% |
| Other | 3.30% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

82.494

10. REPORTING YEAR (SAIDI)

163.74

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.838

12. REPORTING YEAR (SAIFI)

1.44

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

None taken or to be taken. This circuit's performance was driven by two outages. One was tree-related due to inclement weather conditions during a five day outage event starting on June 25 and the other related to power supply. No systemic deficiency was identified.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 2

1. SUBSTATION NAME AND NUMBER

West Glasgow 1 (10)

WestGlasgow110

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Barren County - Donnelly Drive - Glasgow

3. CIRCUIT NAME AND NUMBER

Donnelly Drive (2)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Donnelly Drive (2)

5. TOTAL CIRCUIT MILES (MILES)

8.37

6. CUSTOMER COUNT FOR THIS CIRCUIT

105

7. DATE OF LAST CIRCUIT TRIM (VM)

2021

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|----------------------|--------|
| Power Supply | 47.09% |
| Weather | 42.33% |
| Planned | 9.34% |
| Tree Related Off R/W | 1.24% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

18.74

10. REPORTING YEAR (SAIDI)

167.95

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.318

12. REPORTING YEAR (SAIFI)

1.58

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

None taken or to be taken. This circuit's performance was driven by two outages. One was power supply related and the other weather related during a five day outage event starting on June 25. No systemic deficiency was identified.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 4

1. SUBSTATION NAME AND NUMBER

Seymour (11)

Seymour11

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Hart County - Hwy 218 (Legrande Hwy) - Legrande

3. CIRCUIT NAME AND NUMBER

Monroe (4)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Monroe (4)

5. TOTAL CIRCUIT MILES (MILES)

60.87

6. CUSTOMER COUNT FOR THIS CIRCUIT

433

7. DATE OF LAST CIRCUIT TRIM (VM)

2012 (Budgeted 2024)

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|----------------------|--------|
| Tree Related On R/W | 37.07% |
| Weather | 27.23% |
| Tree Related Off R/W | 17.26% |
| Other | 10.77% |
| Planned | 3.51% |
| Equipment Failure | 3.15% |
| Public | 1.01% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

36.734

10. REPORTING YEAR (SAIDI)

188.62

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.382

12. REPORTING YEAR (SAIFI)

2.46

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

This circuit's performance was driven by a variety of outages. Most were tree-related due to inclement weather conditions in addition to other weather related outages. There were also many planned outages for maintenance. This circuit is budgeted for right-of-way to be cleared in 2024.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 1

1. SUBSTATION NAME AND NUMBER

Fox Hollow (12)

FoxHollow12

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Barren County - Hwy 63 (Temple Hill Rd) - Glasgow

3. CIRCUIT NAME AND NUMBER

Roseville Rd (1)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Roseville Rd (1)

5. TOTAL CIRCUIT MILES (MILES)

38.26

6. CUSTOMER COUNT FOR THIS CIRCUIT

489

7. DATE OF LAST CIRCUIT TRIM (VM)

2020

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|-----------------------|--------|
| Tree Related - On R/W | 99.37% |
| Other | 0.63% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

73.388

10. REPORTING YEAR (SAIDI)

165.89

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

1.206

12. REPORTING YEAR (SAIFI)

0.73

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

None taken or to be taken. This circuit's performance was driven by two outages. Both were tree-related during inclement weather conditions (one of which was weather related during a five day outage event starting on June 25). No systemic deficiency was identified.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 2

1. SUBSTATION NAME AND NUMBER

Bon Ayr (16)

BonAyr16

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Barren County - Hwy 68-80 (Bowling Green Rd) - Bon Ayr

3. CIRCUIT NAME AND NUMBER

Beckton (2)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Beckton (2)

5. TOTAL CIRCUIT MILES (MILES)

8.84

6. CUSTOMER COUNT FOR THIS CIRCUIT

104

7. DATE OF LAST CIRCUIT TRIM (VM)

2021

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|-------------------|--------|
| Other | 50.92% |
| Weather | 48.24% |
| Equipment Failure | 0.85% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

99.218

10. REPORTING YEAR (SAIDI)

106.12

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

1.164

12. REPORTING YEAR (SAIFI)

1.43

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

None taken or to be taken. This circuit's performance was driven by several minor outages. Most all were during inclement weather conditions with several having not identified cause after inspection of lines. No systemic deficiency was identified.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 3

1. SUBSTATION NAME AND NUMBER

Jonesville (17)

Jonesville17

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Hart County - Hwy 357 (Hammons ville Rd) - Munfordville

3. CIRCUIT NAME AND NUMBER

Seymour (3)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Seymour (3)

5. TOTAL CIRCUIT MILES (MILES)

118.43

6. CUSTOMER COUNT FOR THIS CIRCUIT

690

7. DATE OF LAST CIRCUIT TRIM (VM)

2015 (Budgeted 2025)

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|----------------------|--------|
| Tree Related On R/W | 44.81% |
| Weather | 27.16% |
| Equipment Failure | 21.04% |
| Other | 4.98% |
| Public | 1.01% |
| Tree Related Off R/W | 1.00% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

218.14

10. REPORTING YEAR (SAIDI)

213.12

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

1.43

12. REPORTING YEAR (SAIFI)

2.28

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

This circuit's performance was driven by several outages during inclement weather conditions with the largest being an on right-of-way tree during a five day outage event starting on June 25. This circuit is budgeted for right-of-way to be cleared in 2025.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 1

1. SUBSTATION NAME AND NUMBER

Roseville (18)

Roseville18

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Barren County - Roseville Rd - Roseville

3. CIRCUIT NAME AND NUMBER

Etoile (1)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Etoile (1)

5. TOTAL CIRCUIT MILES (MILES)

111.97

6. CUSTOMER COUNT FOR THIS CIRCUIT

609

7. DATE OF LAST CIRCUIT TRIM (VM)

2018

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|----------------------|--------|
| Tree Related On R/W | 57.11% |
| Tree Related Off R/W | 26.01% |
| Weather | 6.82% |
| Other | 5.95% |
| Public | 4.11% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

100.42

10. REPORTING YEAR (SAIDI)

299.37

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.956

12. REPORTING YEAR (SAIFI)

2.54

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

None taken or to be taken. This circuit's performance was driven by several tree-related outages due to inclement weather conditions (four of the top five outages occurred during a five day outage event starting on June 25). No systemic deficiency was identified.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 2

1. SUBSTATION NAME AND NUMBER

Roseville (18)

Roseville18

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Barren County - Roseville Rd - Roseville

3. CIRCUIT NAME AND NUMBER

State Park (2)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

State Park (2)

5. TOTAL CIRCUIT MILES (MILES)

50.99

6. CUSTOMER COUNT FOR THIS CIRCUIT

432

7. DATE OF LAST CIRCUIT TRIM (VM)

2018

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|----------------------|--------|
| Tree Related On R/W | 73.37% |
| Weather | 14.46% |
| Tree Related Off R/W | 8.49% |
| Other | 3.68% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

72.544

10. REPORTING YEAR (SAIDI)

225.42

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.81

12. REPORTING YEAR (SAIFI)

1.83

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

None taken or to be taken. This circuit's performance was driven by several tree-related outages due to inclement weather conditions (the two driving outages occurred during a five day outage event starting on June 25). No systemic deficiency was identified.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: CIRCUIT REPORTING

(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

Circuit # 4

1. SUBSTATION NAME AND NUMBER

Roseville (18)

Roseville18

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Barren County - Roseville Rd - Roseville

3. CIRCUIT NAME AND NUMBER

Temple Hill (4)

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Temple Hill (4)

5. TOTAL CIRCUIT MILES (MILES)

34.21

6. CUSTOMER COUNT FOR THIS CIRCUIT

227

7. DATE OF LAST CIRCUIT TRIM (VM)

2018

**8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE**

| | |
|---------------------|--------|
| Weather | 92.14% |
| Tree Related On R/W | 5.54% |
| Other | 1.29% |
| Equipment Failure | 1.03% |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

43.138

10. REPORTING YEAR (SAIDI)

75.14

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.474

12. REPORTING YEAR (SAIFI)

0.83

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

None taken or to be taken. This circuit's performance was driven by several weather and tree-related outages due to inclement weather conditions (the primary driving outage occurred during a five day outage event starting on June 25). No systemic deficiency was identified.

Electric Distribution Utility Annual Reliability Report

SECTION 6: VEGETATION MANAGEMENT PLAN REVIEW

In 2024, Farmers RECC will work to clear the circuits listed below. We have contracts with Townsend Tree Service and WA Kendall to perform all work.

Right-of-way clearing planned (339 miles)

- Munfordville (2)-Seymour (1)
- Munfordville (2)-Northtown (2)
- Munfordville (2)-Jonesville (5)
- Seymour (11)-Uno (2)
- Seymour (11)-Bearwallow (3)
- Jonesville (17)-Hammons ville (1)

In 2024, Farmers RECC will work to spray with herbicide the following circuits.

Right-of-way herbicide spraying (6289 miles)

- Munfordville (2)-Cub Run (6)
- Knob Lick (4)-Sulphur Well (1)
- Knob Lick (4)-Edmonton (2)
- Knob Lick (4)-Hiseville (3)
- Knob Lick (4)-Center (4)
- Knob Lick (4)-Wisdom (5)
- Goodnight (1)-Hwy 68-80 (2)
- Cave City (6)-Mammoth Cave (1)
- Cave City (6)-Northtown (3)

In 2024, Farmers RECC will continue to perform hot spot clearing, trimming yard trees, and clearing for new work orders with the contractors listed above.

Electric Distribution Utility Annual Reliability Report

SECTION 7: UTILITY COMMENTS