

# KENTUCKY PUBLIC SERVICE COMMISSION

## Electric Distribution Utility Annual Reliability Report

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### SECTION 1: CONTACT INFORMATION

UTILITY NAME	Farners Rural Electric Cooperative
REPORT PREPARED BY	Chuck Bishop
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PHONE NUMBER OF PREPARER	270-651-2191 Ext 8150

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### SECTION 2: REPORT YEAR

CALENDAR YEAR OF REPORT	2021
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### SECTION 3: MAJOR EVENT DAYS

$T_{MED}$	8.71
FIRST DATE USED TO DETERMINE $T_{MED}$	1/1/2016
LAST DATE USED TO DETERMINE $T_{MED}$	12/31/2020
NUMBER OF MED IN REPORT YEAR	1

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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.

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### SECTION 4: SYSTEM RELIABILITY INFORMATION AND RESULTS

#### System-wide Information

TOTAL CUSTOMERS	25106	TOTAL CIRCUITS	67
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#### Excluding MED

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	102.84	SAIDI	90.80
SAIFI	1.12	SAIFI	0.94

#### Including MED

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	139.57	SAIDI	149.85
SAIFI	1.26	SAIFI	1.18

#### 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

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### 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)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren County - Hwy 31 E - Goodnight Community

**3. CIRCUIT NAME AND NUMBER**

Hiseville (1)

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

Hiseville, Goodnight-Hiseville Rd Hwy 70 and Hwy 740

**5. TOTAL CIRCUIT MILES (MILES)**

75.9

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

486

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2014

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

Equipment Failure	24.79%
Planned	0.55%
Tree Related On R/W	4.98%
Weather	69.68%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

205.75

**10. REPORTING YEAR (SAIDI)**

221.28

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

1.77

**12. REPORTING YEAR (SAIFI)**

2.52

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

None taken or to be taken. Three outages drove the circuit's performance. One was a circuit level event caused by a fuse failure to which similar failures have not been identified to indicate concern. Another was a circuit level event caused by a storm, but no specific damage. The final was related to trees damaged during a storm event which caused an extended outage. The circuit is scheduled for cycle trim this year.

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---

### 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)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Hart Co., Hwy 357, Munfordville, KY

**3. CIRCUIT NAME AND NUMBER**

Seymour (1)

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

Hart Co., Hwy 31-W, Munfordville, KY

**5. TOTAL CIRCUIT MILES (MILES)**

8.2

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

41

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2015

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

Unknown	16.63%
Weather	83.37%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

124.21

**10. REPORTING YEAR (SAIDI)**

24.03

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

0.35

**12. REPORTING YEAR (SAIFI)**

0.54

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

None taken or to be taken. Most outages were weather related and there was no identifiable commonality between them.

# KENTUCKY PUBLIC SERVICE COMMISSION

## Electric Distribution Utility Annual Reliability Report

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### 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)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Hart Co., Hwy 357, Munfordville, KY

**3. CIRCUIT NAME AND NUMBER**

Jonesville (5)

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

Munfordville - Hwy 357 - Northeast of Munfordville

**5. TOTAL CIRCUIT MILES (MILES)**

10.5

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

54

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2014

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

Equipment Failure	100.00%
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**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

121.18

**10. REPORTING YEAR (SAIDI)**

45.18

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

0.73

**12. REPORTING YEAR (SAIFI)**

0.87

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

None taken or to be taken. A single outage was recorded on this circuit and the outage was related to a substation low bay arrester failure which is part of EKPC facilities.

# KENTUCKY PUBLIC SERVICE COMMISSION

## Electric Distribution Utility Annual Reliability Report

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### 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**

Munfordville (2)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Hart Co., Hwy 357, Munfordville, KY

**3. CIRCUIT NAME AND NUMBER**

Munfordville Industrial Park (7)

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

Munfordville -Industrial Park Next to Sub

**5. TOTAL CIRCUIT MILES (MILES)**

0.2

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

5

**7. DATE OF LAST CIRCUIT TRIM (VM)**

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

Weather	100.00%
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**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

3.06

**10. REPORTING YEAR (SAIDI)**

8.05

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

0.08

**12. REPORTING YEAR (SAIFI)**

0.37

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

None taken or to be taken. It was a result of two individual weather related outages of short duration.

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## Electric Distribution Utility Annual Reliability Report

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### 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**

Temple Hill (3)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren Co., Hwy 63, Temple Hill

**3. CIRCUIT NAME AND NUMBER**

Glover Creek - 44 Market (3)

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

Temple Hill - Glover Creek Rd, Hwy 90 and Kino Rd - Temple Hill to Kino

**5. TOTAL CIRCUIT MILES (MILES)**

64.8

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

556

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2017

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

Animal	5.26%
Equipment Failure	7.36%
Other	1.93%
Planned	0.16%
Public	71.98%
Tree Related Off R/W	0.48%
Tree Related On R/W	4.22%
Unknown	6.20%
Weather	2.40%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

76.17

**10. REPORTING YEAR (SAIDI)**

131.46

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

1.02

**12. REPORTING YEAR (SAIFI)**

2.40

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

None taken or to be taken. A single outage drove the circuit's performance. It was a circuit level event caused joint use attacher deficiency.

# KENTUCKY PUBLIC SERVICE COMMISSION

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### 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)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren Co., Hwy 63, Temple Hill

**3. CIRCUIT NAME AND NUMBER**

Etoile (4)

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

Etoile - Happy Hollow Rd

**5. TOTAL CIRCUIT MILES (MILES)**

17.8

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

122

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2018

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

Animal	58.00%
Equipment Failure	84.00%
Tree Related Off R/W	96.41%
Weather	2.17%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

228.31

**10. REPORTING YEAR (SAIDI)**

206.32

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

1.83

**12. REPORTING YEAR (SAIFI)**

2.04

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

None taken or to be taken. A single outage drove the circuit's performance. It was a circuit level event where an off right-of-way tree caused damage on a 3-phase pole during a storm.

# KENTUCKY PUBLIC SERVICE COMMISSION

## Electric Distribution Utility Annual Reliability Report

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### SECTION 5: CIRCUIT REPORTING

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

#### **CIRCUIT #7**

**1. SUBSTATION NAME AND NUMBER**

Knob Lick (4)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Metcalfe County - Hwy 70 - Knob Lick

**3. CIRCUIT NAME AND NUMBER**

Hiseville (3)

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

Knob Lick to Hiseville - Hwy 70

**5. TOTAL CIRCUIT MILES (MILES)**

21.8

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

167

**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	92.54%
Unknown	3.44%
Weather	4.02%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

56.77

**10. REPORTING YEAR (SAIDI)**

174.55

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

0.85

**12. REPORTING YEAR (SAIFI)**

0.84

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

None taken or to be taken. A single outage drove the circuit's performance. It was a circuit level event where an off right-of-way tree caused damage on a 3-phase pole during an icing event.

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## Electric Distribution Utility Annual Reliability Report

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### SECTION 5: CIRCUIT REPORTING

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

#### **CIRCUIT #8**

**1. SUBSTATION NAME AND NUMBER**

Beckton (5)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren County - Hwy 1297 - Beckton

**3. CIRCUIT NAME AND NUMBER**

Glasgow (1)

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

**5. TOTAL CIRCUIT MILES (MILES)**

18.3

**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**

Equipment Failure	10.26%
Tree Related Off R/W	2.77%
Tree Related On R/W	78.65%
Unknown	5.70%
Weather	2.62%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

123.31

**10. REPORTING YEAR (SAIDI)**

153.95

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

1.24

**12. REPORTING YEAR (SAIFI)**

1.17

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

None taken or to be taken. Two extended tree related outages during a storm event drove the circuit's performance.

# KENTUCKY PUBLIC SERVICE COMMISSION

## Electric Distribution Utility Annual Reliability Report

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### SECTION 5: CIRCUIT REPORTING

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

#### **CIRCUIT #9**

**1. SUBSTATION NAME AND NUMBER**

Beckton (5)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren County - Hwy 1297 - Beckton

**3. CIRCUIT NAME AND NUMBER**

Railton (3)

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

Beckton - Glasgow - Hwy 1297

**5. TOTAL CIRCUIT MILES (MILES)**

75.5

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

674

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2020

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

Animal	1.71%
Equipment Failure	3.00%
Planned	2.03%
Public	12.00%
R/W Contractor	6.38%
Tree Related Off R/W	56.37%
Tree Related On R/W	3.57%
Unknown	0.24%
Weather	14.70%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

67.55

**10. REPORTING YEAR (SAIDI)**

93.72

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

0.60

**12. REPORTING YEAR (SAIFI)**

1.54

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

None taken or to be taken. A single circuit level outage caused by an off right-of-way tree accounted for over 50% of the minutes drove the circuit's performance.

# KENTUCKY PUBLIC SERVICE COMMISSION

## Electric Distribution Utility Annual Reliability Report

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### SECTION 5: CIRCUIT REPORTING

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

#### **CIRCUIT #10**

**1. SUBSTATION NAME AND NUMBER**

Beckton (5)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren County - Hwy 1297 - Beckton

**3. CIRCUIT NAME AND NUMBER**

Merry Oaks (4)

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

Beckton - Hwy 685

**5. TOTAL CIRCUIT MILES (MILES)**

11.0

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

107

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2020

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

Planned	1.03%
Tree Related On R/W	1.09%
Weather	97.88%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

108.12

**10. REPORTING YEAR (SAIDI)**

208.05

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

0.45

**12. REPORTING YEAR (SAIFI)**

1.62

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

None taken or to be taken. A single outage drove the circuit's performance. It was a circuit level event caused by a broken insulator during storms.

# 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 #11**

**1. SUBSTATION NAME AND NUMBER**

Cave City (6)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren County - Hwy 90 - Cave City

**3. CIRCUIT NAME AND NUMBER**

Mammoth Cave (1)

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

Cave City, Hwy 70/90, Cave City to Mammoth Cave

**5. TOTAL CIRCUIT MILES (MILES)**

33.8

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

425

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2021

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

Animal	1.78%
Equipment Failure	1.65%
Planned	0.07%
Public	3.57%
Tree Related off R/W	6.68%
Tree Related On R/W	7.13%
Unknown	3.39%
Weather	75.72%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

60.97

**10. REPORTING YEAR (SAIDI)**

417.22

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

0.55

**12. REPORTING YEAR (SAIFI)**

2.37

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

None taken or to be taken. A single outage drove the circuit's performance. It was an extended circuit level event caused by tornado and storms which broke several poles.

# 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 #12**

**1. SUBSTATION NAME AND NUMBER**

Cave City (6)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren County - Hwy 90 - Cave City

**3. CIRCUIT NAME AND NUMBER**

Cave City (2)

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

Cave City - City of Cave City

**5. TOTAL CIRCUIT MILES (MILES)**

3.6

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

46

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2021

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

Equipment Failure	0.23%
Other	4.58%
Weather	95.20%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

6.02

**10. REPORTING YEAR (SAIDI)**

2809.28

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

0.03

**12. REPORTING YEAR (SAIFI)**

11.86

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

None taken or to be taken. Several outages by a storm event with tornadic activity drove the circuit's performance.

# 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 #13**

**1. SUBSTATION NAME AND NUMBER**

Cave City (6)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren County - Hwy 90 - Cave City

**3. CIRCUIT NAME AND NUMBER**

Northtown (3)

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

Cave City - North Toohey Ridge Rd - Northtown

**5. TOTAL CIRCUIT MILES (MILES)**

32.8

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

374

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2021

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

Animal	0.88%
Equipment Failure	0.05%
Tree Related off R/W	12.39%
Weather	86.67%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

110.13

**10. REPORTING YEAR (SAIDI)**

430.26

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

0.94

**12. REPORTING YEAR (SAIFI)**

1.35

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

None taken or to be taken. A single outage drove the circuit's performance. It was an extended circuit level event caused by tornado and storms which broke several poles.

# 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 #14**

**1. SUBSTATION NAME AND NUMBER**

Cave City (6)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren County - Hwy 90 - Cave City

**3. CIRCUIT NAME AND NUMBER**

Park City (5)

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

Cave City, Hwy 31-W, Cave City - Park City

**5. TOTAL CIRCUIT MILES (MILES)**

23.3

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

445

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2021

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

Animal	0.40%
Equipment Failure	7.63%
Planned	2.60%
Public	0.88%
Unknown	0.08%
Weather	88.41%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

35.40

**10. REPORTING YEAR (SAIDI)**

364.97

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

0.43

**12. REPORTING YEAR (SAIFI)**

1.67

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

None taken or to be taken. Two outages associated with extreme weather events, one of which had tornadic activity, drove the circuit's performance.

# 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 #15**

**1. SUBSTATION NAME AND NUMBER**

Parkway 1 (7)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren County - Hwy 31E - Glasgow, KY

**3. CIRCUIT NAME AND NUMBER**

Pritchardsville (2)

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

Glasgow, KY - Pritchardsville, South Fork Rd - South of Glasgow, KY

**5. TOTAL CIRCUIT MILES (MILES)**

20.0

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

419

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2020

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

Animal	0.09%
Equipment Failure	2.03%
Other	0.10%
Planned	1.86%
Public	13.98%
Tree Related On R/W	2.74%
Unknown	1.90%
Weather	77.30%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

72.69

**10. REPORTING YEAR (SAIDI)**

239.82

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

0.74

**12. REPORTING YEAR (SAIFI)**

2.33

**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. One was from an extreme weather event having tornadic activity and a second was a circuit level event related to the public cutting a tree which fell onto our line.

# 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 #16**

**1. SUBSTATION NAME AND NUMBER**

Galloway (8)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Metcalfe County - Hwy 68-80 - Edmonton, KY

**3. CIRCUIT NAME AND NUMBER**

Edmonton (1)

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

Edmonton, Hwy 68-80, Serves the city of Edmonton and surrounding area

**5. TOTAL CIRCUIT MILES (MILES)**

176.3

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

1404

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2018

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

Animal	0.70%
Equipment Failure	0.61%
Other	1.53%
Planned	0.32%
Public	0.15%
Tree Related off R/W	54.57%
Tree Related On R/W	0.05%
Unknown	0.30%
Weather	41.77%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

120.40

**10. REPORTING YEAR (SAIDI)**

257.96

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

1.53

**12. REPORTING YEAR (SAIFI)**

1.26

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

None taken or to be taken. Several outages drove the circuit's performance. Two were extended outages with damaged facilities attributed to extreme weather while the rest were primarily off right-of-way trees.

# KENTUCKY PUBLIC SERVICE COMMISSION

## Electric Distribution Utility Annual Reliability Report

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### SECTION 5: CIRCUIT REPORTING

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

#### **CIRCUIT #17**

**1. SUBSTATION NAME AND NUMBER**

Galloway (8)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Metcalfe County - Hwy 68-80 - Edmonton, KY

**3. CIRCUIT NAME AND NUMBER**

Randolph (2)

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

Edmonton, Hwy 68-80 - Hwy 640, Wisdom and Randolph

**5. TOTAL CIRCUIT MILES (MILES)**

110.4

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

858

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2019

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

Animal	0.13%
Equipment Failure	81.48%
Planned	1.62%
Public	1.05%
Tree Related off R/W	8.07%
Tree Related On R/W	0.59%
Unknown	0.50%
Weather	6.56%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

101.63

**10. REPORTING YEAR (SAIDI)**

258.88

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

1.13

**12. REPORTING YEAR (SAIFI)**

3.02

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

None taken or to be taken. A couple equipment failures outages drove the circuit's performance. Both were circuit level events caused by a broken insulators. After review, nothing indicated a systematic issue.

# 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 #18**

**1. SUBSTATION NAME AND NUMBER**

Bonnieville (9)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Hart County, Hwy 31-W, Bonnieville

**3. CIRCUIT NAME AND NUMBER**

Priceville (1)

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

Bonnieville, Hwy 728, Priceville - Lone Star

**5. TOTAL CIRCUIT MILES (MILES)**

44.3

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

366

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2017

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

Equipment Failure	49.59%
Planned	0.61%
R/W Contractor	0.26%
Tree Related off R/W	0.78%
Tree Related On R/W	10.70%
Unknown	4.67%
Weather	33.39%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

118.14

**10. REPORTING YEAR (SAIDI)**

97.95

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

0.66

**12. REPORTING YEAR (SAIFI)**

0.67

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

None taken or to be taken. A couple outages drove the circuit's performance. One was weather related and ultimately no specific issue was identified. The other equipment failure caused by a broken insulator. After review, nothing indicated a systematic issue.

# 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 #19**

**1. SUBSTATION NAME AND NUMBER**

Bonnieville (9)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Hart County, Hwy 31-W, Bonnieville

**3. CIRCUIT NAME AND NUMBER**

Munfordville (2)

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

Bonnieville - Munfordville - Hwy 31-W - Along 31-W and Pine ridge Hll

**5. TOTAL CIRCUIT MILES (MILES)**

50.7

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

371

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2017

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

Equipment Failure	27.24%
Other	0.49%
Public	3.21%
Tree Related off R/W	32.86%
Tree Related On R/W	16.79%
Unknown	14.11%
Weather	5.30%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

189.28

**10. REPORTING YEAR (SAIDI)**

125.90

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

0.99

**12. REPORTING YEAR (SAIFI)**

1.01

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

None taken or to be taken. Off right-of-way tree outages and a broken insulator drove the circuit performance.

# 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 #20**

**1. SUBSTATION NAME AND NUMBER**

West Glasgow 1 (10)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren County, Donnelly Drive, Glasgow

**3. CIRCUIT NAME AND NUMBER**

Bowling Green Rd (1)

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

Glasgow - Bowling Green Rd (hwy 68-80) and Oil City Rd - West of Glasgow

**5. TOTAL CIRCUIT MILES (MILES)**

31.7

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

299

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2021

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

Animal	0.13%
Planned	0.94%
Public	1.01%
Tree Related off R/W	1.69%
Tree Related On R/W	70.87%
Unknown	13.41%
Weather	11.95%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

74.318

**10. REPORTING YEAR (SAIDI)**

115.860

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

0.726

**12. REPORTING YEAR (SAIFI)**

1.550

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

None taken or to be taken. An single on right-of-way tree outage event drove the circuit performance. This was an area where the member limited the amount of trimming we could perform. We were successful in trimming more aggressively following the 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 #21**

**1. SUBSTATION NAME AND NUMBER**

Seymour (11)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Hart County - Hwy 218 - Horse Cave, KY

**3. CIRCUIT NAME AND NUMBER**

Uno (2)

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

Uno, KY - Hwy 31E - Uno, Bunnell Crossing

**5. TOTAL CIRCUIT MILES (MILES)**

116.0

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

781

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2012

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

Animal	0.49%
Equipment Failure	0.30%
Planned	5.76%
Public	0.02%
Tree Related off R/W	0.35%
Tree Related On R/W	0.67%
Unknown	10.74%
Weather	81.66%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

144.54

**10. REPORTING YEAR (SAIDI)**

230.27

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

1.29

**12. REPORTING YEAR (SAIFI)**

2.18

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

None taken or to be taken. Weather outage events drove the circuit performance. This primarily was from a single extreme weather event that had tornadic activity.

# 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 #22**

**1. SUBSTATION NAME AND NUMBER**

Seymour (11)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Hart County - Hwy 218 - Horse Cave, KY

**3. CIRCUIT NAME AND NUMBER**

Bearwallow (3)

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

Seymour - Highway 218 towards the Bearwallow community

**5. TOTAL CIRCUIT MILES (MILES)**

12.4

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

99

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2012

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

Animal	0.52%
Tree Related On R/W	99.48%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

90.94

**10. REPORTING YEAR (SAIDI)**

117.31

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

1.07

**12. REPORTING YEAR (SAIFI)**

0.68

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

None taken or to be taken. A single extreme weather event drove the circuit performance.  
The event that had tornadic activity.

# 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 #23**

**1. SUBSTATION NAME AND NUMBER**

Bon Ayr (16)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren County - Hwy 68-80 - Glasgow, KY

**3. CIRCUIT NAME AND NUMBER**

Park City (3)

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

Park City, KY - Bon Ayr - Park City Rd - Park City

**5. TOTAL CIRCUIT MILES (MILES)**

28.4

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

271

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2021

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

Animal	0.05%
Equipment Failure	9.06%
Planned	0.27%
Public	1.63%
R/W Contractor	0.53%
Tree Related off R/W	0.20%
Tree Related On R/W	0.11%
Unknown	0.03%
Weather	88.12%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

72.62

**10. REPORTING YEAR (SAIDI)**

298.72

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

0.75

**12. REPORTING YEAR (SAIFI)**

1.66

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

None taken or to be taken. A single extreme weather event drove the circuit performance.  
The event that had tornadic activity.

# 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 #24**

**1. SUBSTATION NAME AND NUMBER**

Jonesville (17)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Hart County - Hwy 357 - Munfordville, KY

**3. CIRCUIT NAME AND NUMBER**

Jonesville (2)

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

Munfordville to Jonesville - Hwy 357, Hammonsville Rd

**5. TOTAL CIRCUIT MILES (MILES)**

95.8

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

656

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2014

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

Animal	0.79%
Equipment Failure	20.02%
Planned	0.78%
Public	0.10%
Tree Related off R/W	4.53%
Tree Related On R/W	24.21%
Unknown	0.26%
Weather	49.30%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

219.98

**10. REPORTING YEAR (SAIDI)**

163.45

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

1.51

**12. REPORTING YEAR (SAIFI)**

1.87

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

None taken or to be taken. Two outage events drove the circuit performance. One was due to poor conductor sag which birds were a contributing factor. This was corrected during the outage. The second was related to a storm event which resulted in an insulator failure.

# 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 #25**

**1. SUBSTATION NAME AND NUMBER**

Jonesville (17)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Hart County - Hwy 357 - Munfordville, KY

**3. CIRCUIT NAME AND NUMBER**

Seymour (3)

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

Munfordville to Canmer - Hwy 357, Hwy 31-E - Hwy 357 to east of Canmer

**5. TOTAL CIRCUIT MILES (MILES)**

117.6

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

685

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2015

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

Equipment Failure	5.10%
Planned	1.34%
Tree Related off R/W	0.89%
Tree Related On R/W	1.30%
Unknown	0.04%
Weather	91.33%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

168.98

**10. REPORTING YEAR (SAIDI)**

501.43

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

1.23

**12. REPORTING YEAR (SAIFI)**

1.47

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

None taken or to be taken. Two extreme weather events with tornadic activity causing outages drove the circuit performance.

# KENTUCKY PUBLIC SERVICE COMMISSION

## Electric Distribution Utility Annual Reliability Report

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### SECTION 5: CIRCUIT REPORTING

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

#### **CIRCUIT #26**

**1. SUBSTATION NAME AND NUMBER**

Roseville (18)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren County - Roseville Rd - Glasgow, KY

**3. CIRCUIT NAME AND NUMBER**

State Park (2)

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

Etoile to Barren River State Park - Tobacco Rd, Hwy 31-E

**5. TOTAL CIRCUIT MILES (MILES)**

50.7

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

421

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2018

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

Animal	0.10%
Planned	1.75%
Public	0.78%
Tree Related off R/W	7.05%
Tree Related On R/W	7.66%
Unknown	6.90%
Weather	75.76%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

40.37

**10. REPORTING YEAR (SAIDI)**

123.86

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

0.52

**12. REPORTING YEAR (SAIFI)**

0.92

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

None taken or to be taken. Two weather related outages drove the circuit performance.

# 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 #27**

**1. SUBSTATION NAME AND NUMBER**

Roseville (18)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren County - Roseville Rd - Glasgow, KY

**3. CIRCUIT NAME AND NUMBER**

Temple Hill (4)

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

Roseville to Temple Hill - Wells Rd, Mt Pleasant and Woods Store - Etoile

**5. TOTAL CIRCUIT MILES (MILES)**

32.6

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

216

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2018

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

Equipment Failure	64.53%
Tree Related off R/W	19.59%
Weather	15.88%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

10.60

**10. REPORTING YEAR (SAIDI)**

134.02

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

0.13

**12. REPORTING YEAR (SAIFI)**

1.18

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

None taken or to be taken. A single equipment failure outage drove the circuit performance.  
After review, nothing indicated a systematic issue.

# Electric Distribution Utility Annual Reliability Report

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## **SECTION 6: VEGETATION MANAGEMENT PLAN REVIEW**

**In 2022, Farmers RECC will work to clear the circuits listed below. We have contracts with A&G Tree Service and Townsend Tree Service to perform all**

Right-of-way clearing planned (287.5 miles)

- Goodnight (1) - Hiseville (1)
- Goodnight (1) - Country Club (3)
- Goodnight (1) - Cave City (5)
- Munfordville (2) - Cub Run (6)
- Cave City (6) - Mammoth Cave (1)
- Cave City (6) - Northtown (3)
- Bon Ayr (16) - Dripping Springs (1)

**In 2022, Farmers RECC will work to spray with herbicide the following circuits.**

Right-of-way herbicide spraying (609 miles)

- Goodnight (1) - Rock Quarry (4)
- Beckton (5) - Glasgow (1)
- Beckton (5) - Red Cross / Railton (3)
- Beckton (5) - Bowling Green Rd (4)
- Cave City (6) - Cave City (2)
- Cave City (6) - Goodnight (4)
- Cave City (6) - Park City (5)
- Galloway (8) - Edmonton (1)
- West Glasgow 1 (10) - Bowling Green Rd (1)
- West Glasgow 1 (10) - Old Bowling Green Rd (2)
- Fox Hollow (12) - Roseville Rd (1)
- Fox Hollow (12) - 44 Market (2)
- Fox Hollow (12) - Green Valley (4)
- West Glasgow 2 (15) - Akebono (1)
- Bon Ayr (16) - Dripping Springs (1)
- Bon Ayr (16) - Beckton (2)
- Bon Ayr (16) - Park City (3)
- Bon Ayr (16) - Merry Oaks (4)

In 2022, 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

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## SECTION 7: UTILITY COMMENTS