



Farmers Rural Electric Cooperative Corporation

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APR 01 2019

PUBLIC SERVICE  
COMMISSION

March 29, 2019

Ms. Gwen R. Pinson  
Executive Director  
Kentucky Public Service Commission  
P O Box 615  
211 Sower Blvd.  
Frankfort, KY 40602-0615

Dear Ms. Pinson:

Please find an original paper copy and an electronic version of Farmers Rural Electric's 2018 Distribution Reliability Report pursuant to the May 30, 2013 Order and the April 1, 2014 Order pertaining to Administrative Case No. 2011-00450.

If there are any questions or any further information needed Please contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Tony Wells'.

Tony Wells  
VP Member and Corporate Services  
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A Touchstone Energy™ Cooperative The logo for Touchstone Energy, featuring a stylized figure holding a torch or staff, with the text 'A Touchstone Energy™ Cooperative' to its left.

# 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	Tony Wells
E-MAIL ADDRESS OF PREPARER	<a href="mailto:twells@farmersrecc.com">twells@farmersrecc.com</a>
PHONE NUMBER OF PREPARER	270-651-2191 Ext 8200

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### SECTION 2: REPORT YEAR

CALENDAR YEAR OF REPORT	2018
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### SECTION 3: MAJOR EVENT DAYS

$T_{MED}$	12.78
FIRST DATE USED TO DETERMINE $T_{MED}$	1/1/2013
LAST DATE USED TO DETERMINE $T_{MED}$	12/31/2017
NUMBER OF MED IN REPORT YEAR	2

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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	25455	TOTAL CIRCUITS	62
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#### Excluding MED

5 YEAR AVERAGE		REPORTING YEAR	
SAIDI	159.66	SAIDI	82.38
SAIFI	1.65	SAIFI	0.89

#### Including MED

5 YEAR AVERAGE		REPORTING YEAR	
SAIDI	200.04	SAIDI	144.01
SAIFI	1.93	SAIFI	1.06

#### 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  $T_{MED}$
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# 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**

Temple Hill (3)

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

Barren Co., Hwy 163, Temple Hill

**3. CIRCUIT NAME AND NUMBER**

Etoile (4)

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

Etoile, crossing multiple rds serving towards Barren River State Park

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

18

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

110

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

2018

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

Off R/W	83.39%
On R/W	13.58%
Planned	2.50%
Weather	0.53%

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

170.55

**10. REPORTING YEAR (SAIDI)**

374.75

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

1.69

**12. REPORTING YEAR (SAIFI)**

1.47

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

None taken or to be taken. One circuit level outage broke criteria and circuit has been reconfigured.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #2

1. **SUBSTATION NAME AND NUMBER**  
Temple Hill (3)
2. **SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**  
Barren Co., Hwy 163, Temple Hill
3. **CIRCUIT NAME AND NUMBER**  
Roseville (5)
4. **CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)**  
Temple Hill - Hwy 63
5. **TOTAL CIRCUIT MILES (MILES)**  
6.5
6. **CUSTOMER COUNT FOR THIS CIRCUIT**  
32
7. **DATE OF LAST CIRCUIT TRIM (VM)**  
2018
8. **LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE**

Unknown	60.29%
Planned	28.16%
Weather	11.55%
9. **CIRCUIT 5 YEAR AVERAGE (SAIDI)**  
148.94
10. **REPORTING YEAR (SAIDI)**  
183.96
11. **CIRCUIT 5 YEAR AVERAGE (SAIFI)**  
1.64
12. **REPORTING YEAR (SAIFI)**  
1.46
13. **LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN**  
None taken or to be taken. Only 4 total outages. New configuration very small circuit

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #3

**1. SUBSTATION NAME AND NUMBER**

Temple Hill (3)

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

Barren Co., Hwy 163, Temple Hill

**3. CIRCUIT NAME AND NUMBER**

Temple Hill (6)

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

Temple Hill - Hwy 63

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

34.9

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

265

**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	84.34%
Weather	7.90%
Planned	4.58%
Animal	2.57%
On R/W	0.62%

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

73.64

**10. REPORTING YEAR (SAIDI)**

74.19

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

0.52

**12. REPORTING YEAR (SAIFI)**

0.76

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

None taken or to be taken. One outage was 84% of outage time.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #4

**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)**

22.7

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

175

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

Planned 2019

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

Weather	66.98%
On R/W	20.26%
Equipment Failure	9.00%
Public	3.76%

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

96.01

**10. REPORTING YEAR (SAIDI)**

65.29

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

0.84

**12. REPORTING YEAR (SAIFI)**

1.46

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

None taken or to be taken. Small number of outages and did not break hours criteria.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #5

**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**

Wisdom (5)

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

Knob Lick to Wisdom, Hwy 640

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

27.4

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

139

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

Planned 2019

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

On R/W	72.03%
Weather	22.08%
Planned	4.06%
Unknown	1.83%

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

91.56

**10. REPORTING YEAR (SAIDI)**

119.30

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

1.07

**12. REPORTING YEAR (SAIFI)**

0.85

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

None taken or to be taken. One outage was 68% of outage time and R/W is planned to be cut in 2019

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #6

**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)**

22.5

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

424

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

2014

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

On R/W	75.76%
Planned	10.99%
Animal	6.04%
Unknown	3.02%
Weather	2.57%
Equipment Failure	1.62%

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

25.11

**10. REPORTING YEAR (SAIDI)**

53.76

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

0.29

**12. REPORTING YEAR (SAIFI)**

0.68

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

None taken or to be taken. Only 4 outages that were not planned or Major Event day.



# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #7

1. **SUBSTATION NAME AND NUMBER**  
Parkway (7)
2. **SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**  
Barren County - Hwy 31E - Glasgow, KY
3. **CIRCUIT NAME AND NUMBER**  
Idea Park (1)
4. **CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)**  
Glasgow, KY - Idea Industrial Park - South of Glasgow, KY
5. **TOTAL CIRCUIT MILES (MILES)**  
1.3
6. **CUSTOMER COUNT FOR THIS CIRCUIT**  
10
7. **DATE OF LAST CIRCUIT TRIM (VM)**  
Before 2009
8. **LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE**  
On R/W 100.0%
9. **CIRCUIT 5 YEAR AVERAGE (SAIDI)**  
55.8
10. **REPORTING YEAR (SAIDI)**  
156.3
11. **CIRCUIT 5 YEAR AVERAGE (SAIFI)**  
0.4
12. **REPORTING YEAR (SAIFI)**  
2.1
13. **LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN**  
None taken or to be taken, very short industrial circuit

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #8

**1. SUBSTATION NAME AND NUMBER**

Parkway (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)**

19.8

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

408

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

Before 2009

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

On R/W	84.66%
Animal	5.70%
Planned	4.73%
Weather	1.96%
Unknown	1.18%
Off R/W	0.92%
Public	0.55%
Equipment Failure	0.30%

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

90.75

**10. REPORTING YEAR (SAIDI)**

54.37

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

0.71

**12. REPORTING YEAR (SAIFI)**

1.22

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

None taken or to be taken. One outage accounted for 81% of outage time.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #9

**1. SUBSTATION NAME AND NUMBER**

Galloway (8)

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

Metcalfe County, Hwy 68-80, Edmonton

**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)**

175.6

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

1332

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

2015

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

Off R/W	31.67%
On R/W	26.67%
Weather	19.66%
Equipment Failure	8.27%
R/W Contractor	4.03%
Animal	3.56%
Planned	2.69%
Other	2.31%
Unknown	0.67%
Public	0.47%

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

104.35

**10. REPORTING YEAR (SAIDI)**

121.26

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

1.36

**12. REPORTING YEAR (SAIFI)**

2.02

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

None taken or to be taken. This circuit was trimmed in 2018.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #10

**1. SUBSTATION NAME AND NUMBER**

Galloway (8)

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

Metcalfe County, Hwy 68-80, Edmonton

**3. CIRCUIT NAME AND NUMBER**

Wisdom (2)

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

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

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

109.4

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

837

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

2011

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

Planned	44.10%
Animal	16.36%
On R/W	12.48%
Equipment Failure	11.64%
Off R/W	5.50%
Weather	5.29%
Unknown	4.27%
Public	0.35%

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

111.49

**10. REPORTING YEAR (SAIDI)**

140.48

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

1.18

**12. REPORTING YEAR (SAIFI)**

1.22

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

This circuit is scheduled to be trimmed in 2019. 44% of outage time was due to a voltage conversion.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #11

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**  
Old Hwy 68-80 (3)
4. **CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)**  
Edmonton, KY - Old Hwy 68-80
5. **TOTAL CIRCUIT MILES (MILES)**  
0.93
6. **CUSTOMER COUNT FOR THIS CIRCUIT**  
16
7. **DATE OF LAST CIRCUIT TRIM (VM)**  
Before 2009
8. **LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE**

Animal	100.0%
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9. **CIRCUIT 5 YEAR AVERAGE (SAIDI)**  
6.77
10. **REPORTING YEAR (SAIDI)**  
25.53
11. **CIRCUIT 5 YEAR AVERAGE (SAIFI)**  
0.09
12. **REPORTING YEAR (SAIFI)**  
0.41
13. **LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN**  
None taken or to be taken. Circuit has experienced 2 outages in 4 years

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #12

**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)**

44.0

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

353

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

2016

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

On R/W	41.18%
Weather	30.33%
Off R/W	24.21%
Unknown	3.37%
Planned	0.42%
Equipment Failure	0.34%
Other	0.2%

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

151.84

**10. REPORTING YEAR (SAIDI)**

322.71

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

0.86

**12. REPORTING YEAR (SAIFI)**

1.68

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

Will inspect line to determine the effectiveness of trimming in 2016 and then develop necessary course of action.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #13

**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 Hill

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

49.7

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

369

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

2015

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

On R/W	79.83%
Weather	15.54%
Equipment Failure	3.28%
Public	0.93%
Planned	0.39%
Unknown	0.03%

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

187.78

**10. REPORTING YEAR (SAIDI)**

221.64

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

1.46

**12. REPORTING YEAR (SAIFI)**

0.74

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

Will inspect line to determine the effectiveness of trimming in 2015 and then develop necessary course of action.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #14

- 1. SUBSTATION NAME AND NUMBER**  
West Glasgow (10)
- 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**  
Barren County, Donnelly Drive, Glasgow
- 3. CIRCUIT NAME AND NUMBER**  
(1) Bowling Green Rd
- 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)**  
31.4
- 6. CUSTOMER COUNT FOR THIS CIRCUIT**  
300
- 7. DATE OF LAST CIRCUIT TRIM (VM)**  
Before 2009
- 8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE**

Public	85.7%
On R/W	4.5%
Planned	4.4%
Weather	2.2%
Unknown	2.0%
Animal	0.9%
Equipment Failure	0.2%
- 9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**  
67.96
- 10. REPORTING YEAR (SAIDI)**  
108.21
- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**  
0.82
- 12. REPORTING YEAR (SAIFI)**  
0.67
- 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN**  
None taken or to be taken. Public outages was 86% of outages



# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #15

**1. SUBSTATION NAME AND NUMBER**

West Glasgow (10)

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

Barren County, Donnelly Drive, Glasgow

**3. CIRCUIT NAME AND NUMBER**

Old Bowling Green Rd (2)

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

Glasgow - Hwy 1297 - Towards Beckton

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

8.0

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

97

**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	73.70%
Off R/W	14.29%
Public	7.67%
On R/W	3.68%
Weather	0.66%

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

92.33

**10. REPORTING YEAR (SAIDI)**

41.03

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

1.17

**12. REPORTING YEAR (SAIFI)**

1.18

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

None taken or to be taken. 1 outage was 74% of outage time and only 5 outages total

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #16

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**  
(3) Bearwallow
4. **CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)**  
Seymour - Highway 218 towards the Bearwallow community
5. **TOTAL CIRCUIT MILES (MILES)**  
12.1
6. **CUSTOMER COUNT FOR THIS CIRCUIT**  
98
7. **DATE OF LAST CIRCUIT TRIM (VM)**  
Before 2009
8. **LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE**

Weather	48.91%
On R/W	46.23%
Public	4.38%
Unknown	0.48%
9. **CIRCUIT 5 YEAR AVERAGE (SAIDI)**  
74.48
10. **REPORTING YEAR (SAIDI)**  
114.84
11. **CIRCUIT 5 YEAR AVERAGE (SAIFI)**  
0.61
12. **REPORTING YEAR (SAIFI)**  
1.15
13. **LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN**  
None taken or to be taken. Only 10 outages total

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #17

**1. SUBSTATION NAME AND NUMBER**

Fox Hollow (12)

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

Barren County - Hwy 63 - Glasgow, KY

**3. CIRCUIT NAME AND NUMBER**

Roseville (1)

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

Glasgow - Roseville Rd - Roseville Rd from Glasgow to Roseville

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

37.5

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

453

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

2015

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

Power Supply	50.86%
Unknown	45.51%
Planned	3.34%
On R/W	0.24%
Weather	0.06%

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

178.35

**10. REPORTING YEAR (SAIDI)**

116.79

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

1.80

**12. REPORTING YEAR (SAIFI)**

2.09

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

None taken or to be taken. 50% of outage time was power supplier.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #18

**1. SUBSTATION NAME AND NUMBER**

Fox Hollow (12)

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

Barren County - Hwy 63 - Glasgow, KY

**3. CIRCUIT NAME AND NUMBER**

Green Valley (4)

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

Glasgow, KY - Hy 90 - Green Valley

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

25.1

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

403

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

2013

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

On R/W	40.89%
Unknown	16.77%
Equipment Failure	15.04%
Animal	13.69%
Public	9.90%
Planned	3.72%

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

14.36

**10. REPORTING YEAR (SAIDI)**

53.35

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

0.2

**12. REPORTING YEAR (SAIFI)**

0.70

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

None taken or to be taken. New circuit, establishing 5 yr average.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #19

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**  
Beckton (2)
4. **CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)**  
Glasgow, KY - Hwy 685 - Beckton
5. **TOTAL CIRCUIT MILES (MILES)**  
7.2
6. **CUSTOMER COUNT FOR THIS CIRCUIT**  
62
7. **DATE OF LAST CIRCUIT TRIM (VM)**  
2014
8. **LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE**  
Tree off- RW                      100.0%
9. **CIRCUIT 5 YEAR AVERAGE (SAIDI)**  
17.8
10. **REPORTING YEAR (SAIDI)**  
24.3
11. **CIRCUIT 5 YEAR AVERAGE (SAIFI)**  
0.27
12. **REPORTING YEAR (SAIFI)**  
0.20
13. **LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN**  
None taken or to be taken. Off R/W tree

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #20

**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)**

51.7

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

405

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

2014

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

Weather	35.08%
Public	24.39%
Equipment Failure	22.98%
Off R/W	8.92%
On R/W	4.46%
Planned	4.16%

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

35.80

**10. REPORTING YEAR (SAIDI)**

134.69

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

0.33

**12. REPORTING YEAR (SAIFI)**

1.89

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

None taken or to be taken. Planned and Public accounted for 29% and 1 outage accounted for 33% of outage time.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #21

**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**

Merry Oaks (4)

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

Merry Oaks - Hwy 68-80

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

23.6

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

293

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

2014

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

Weather	61.00%
Off R/W	15.05%
Unknown	10.52%
Planned	6.18%
Equipment Failure	4.31%
On R/W	2.94%

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

11.64

**10. REPORTING YEAR (SAIDI)**

127.87

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

0.14

**12. REPORTING YEAR (SAIFI)**

1.10

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

None taken or to be taken. Only 4 years in calculating average. 2 outages were 60% of outage time

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #22

**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)**

117.4

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

657

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

2015

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

Weather	40.83%
Equipment Failure	29.30%
On R/W	16.42%
Off R/W	9.82%
Planned	2.03%
Public	1.31%
Unknown	0.28%

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

129.02

**10. REPORTING YEAR (SAIDI)**

115.26

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

0.82

**12. REPORTING YEAR (SAIFI)**

0.88

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

None taken or to be taken. New substation brought online in 2014 still establishing 5yr average. This circuit didn't pick up load till 2015.



# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #23

**1. SUBSTATION NAME AND NUMBER**

Roseville (18)

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

Barren County - Roseville Rd - Glasgow, KY

**3. CIRCUIT NAME AND NUMBER**

Etoile (1)

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

Roseville to Etoile, Cooktown - Roseville Rd, Payne Mill Rd, Etoile

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

110.5

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

597

**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	29.74%
On R/W	26.91%
Off R/W	24.28%
Animal	5.02%
Planned	4.64%
weather	4.13%
Unknown	2.75%
Public	2.52%

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

12.42

**10. REPORTING YEAR (SAIDI)**

234.09

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

2.48

**12. REPORTING YEAR (SAIFI)**

1.66

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

None taken or to be taken. New substation brought online in 2017 still establishing 5yr average.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #24

**1. SUBSTATION NAME AND NUMBER**

Roseville (18)

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

Barren County - Roseville Rd - Glasgow, KY

**3. CIRCUIT NAME AND NUMBER**

(2) Barren River State Park

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

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

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

50.6

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

395

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

2018

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

On R/W	70.34%
weather	14.25%
Off R/W	9.71%
Planned	3.98%
Animal	0.70%
Equipment Failure	0.64%
Unknown	0.38%

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

0.00

**10. REPORTING YEAR (SAIDI)**

88.17

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

0.00

**12. REPORTING YEAR (SAIFI)**

0.83

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

None taken or to be taken. New substation brought online in 2017 still establishing 5yr average.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #25

1. **SUBSTATION NAME AND NUMBER**  
Roseville (18)
2. **SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**  
Barren County - Roseville Rd - Glasgow, KY
3. **CIRCUIT NAME AND NUMBER**  
(3) Glasgow
4. **CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)**  
Roseville rd north out of sub.
5. **TOTAL CIRCUIT MILES (MILES)**  
3.4
6. **CUSTOMER COUNT FOR THIS CIRCUIT**  
25
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	100.00%
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9. **CIRCUIT 5 YEAR AVERAGE (SAIDI)**  
0.00
10. **REPORTING YEAR (SAIDI)**  
148.12
11. **CIRCUIT 5 YEAR AVERAGE (SAIFI)**  
0.00
12. **REPORTING YEAR (SAIFI)**  
1.20
13. **LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN**  
None taken or to be taken. New substation brought online in 2017 still establishing 5yr average.

# KENTUCKY PUBLIC SERVICE COMMISSION

## 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**  
(4) Temple Hill
4. **CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)**  
Roseville to Temple Hill - Wells Rd, Mt Pleasant and Woods Store-Etoile
5. **TOTAL CIRCUIT MILES (MILES)**  
32.3
6. **CUSTOMER COUNT FOR THIS CIRCUIT**  
214
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	0.657331
Public	0.181219
Planned	0.111409
Animal	0.031713
On R/W	1.83%
9. **CIRCUIT 5 YEAR AVERAGE (SAIDI)**  
0.00
10. **REPORTING YEAR (SAIDI)**  
24.22
11. **CIRCUIT 5 YEAR AVERAGE (SAIFI)**  
0.00
12. **REPORTING YEAR (SAIFI)**  
0.35
13. **LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN**  
None taken or to be taken. New substation brought online in 2017 still establishing 5yr average.

# KENTUCKY PUBLIC SERVICE COMMISSION

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## Electric Distribution Utility Annual Reliability Report

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Additional pages may be attached as necessary

### SECTION 7: VEGETATION MANAGEMENT PLAN REVIEW

## KENTUCKY PUBLIC SERVICE COMMISSION

### Electric Distribution Utility Annual Reliability Report

Additional pages may be attached as necessary

#### SECTION 7: VEGETATION MANAGEMENT PLAN REVIEW

#### Farmers RECC Vegetation Management Plan for 2019

Farmers RECC will be committed to its members by providing safe reliable electricity. For 2019 we have contracted with Environmental Consultants Inc. (ECI) to help oversee and manage our Right-Of-Way program.

In 2019 we will work on the circuits listed below. We have contracted with A&G Tree Service and to clear the following circuits.

- Galloway – Randolph has 110 miles of line
- Knob Lick – Edmonton has 49 miles of line
- Knob Lick – Hiseville has 22 miles of line
- Knob Lick – Center has 113 miles of line
- Knob Lick – Wisdom has 27 miles of line
- Knob Lick – Sulphur Well has 97 miles of line

Total Miles = 418 miles of line

We also have one A&G crew working hot spots & yard trees. They are cutting Right – Of – Way for new work orders.

We have contracted with Sage for Herbicide spraying on the following # circuits.

- Parkway – Haywood has 47 miles of line
- Bonnieville – Priceville has 43 miles of line
- Temple Hill – Summershade has 126 miles of line
- Temple Hill – Green Valley has 19 miles of line
- Temple Hill – Clover Creek has 64 miles of line
- Temple Hill – Temple Hill has 34 miles of line
- Beckton – Rocky Hill has 105 miles of line
- Goodnight – Country Club has 19 miles of line
- Galloway – Edmonton has 174 miles of line

Total Miles = 630 miles of line

By implementing this work plan we can keep our commitment to our members and provide a safe reliable service.

**KENTUCKY PUBLIC SERVICE COMMISSION**

SECTION 8: UTILITY COMMENTS

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