



Farmers Rural Electric Cooperative Corporation

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APR 19 2018

PUBLIC SERVICE  
COMMISSION

April 10, 2018

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 2017 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'.

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A Touchstone Energy™ Cooperative The logo for Touchstone Energy, featuring a stylized figure holding a torch or similar symbol.

## KENTUCKY PUBLIC SERVICE COMMISSION

APR 19 2018

## Electric Distribution Utility Annual Reliability Report

PUBLIC SERVICE  
COMMISSION**SECTION 1: CONTACT INFORMATION**

UTILITY NAME	Farners Rural Electric Cooperative
REPORT PREPARED BY	Tony Wells
E-MAIL ADDRESS OF PREPARER	twells@farmersrecc.com
PHONE NUMBER OF PREPARER	270-651-2191 Ext 8200

**SECTION 2: REPORT YEAR**

CALENDAR YEAR OF REPORT	2017
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**SECTION 3: MAJOR EVENT DAYS**

$T_{MED}$	14.0
FIRST DATE USED TO DETERMINE $T_{MED}$	1/1/2012
LAST DATE USED TO DETERMINE $T_{MED}$	12/31/2016
NUMBER OF MED IN REPORT YEAR	1

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	25163	TOTAL CIRCUITS	62
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**Excluding MED**

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	162.41	SAIDI	117.25
SAIFI	1.67	SAIFI	1.21

**Including MED**

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	211.13	SAIDI	140.45
SAIFI	1.99	SAIFI	1.34

## 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)**

75.8

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

487

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

2014

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

Off R/W	39.12%
Weather	30.94%
On R/W	26.90%
Equipment Failure	1.69%
Other	0.69%
Planned	0.67%

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

214.88

**10. REPORTING YEAR (SAIDI)**

572.06

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

2.13

**12. REPORTING YEAR (SAIFI)**

3.20

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

Circuit will be inspected to determine why R/W is issue on 3 years since trim and will be trimmed if necessary

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #2

**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**

Lecta (2)

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

Goodnight Hwy 31E towards Glasgow - Tick Ridge Rd

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

69.6

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

839

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

2011

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

Weather	88.14%
Equipment Failure	3.92%
On R/W	3.62%
Unknown	2.56%
Public	0.85%
Planned	0.64%
Animal	0.14%
Off R/W	0.12%

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

119.66

**10. REPORTING YEAR (SAIDI)**

190.51

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

0.69

**12. REPORTING YEAR (SAIFI)**

1.43

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

None taken or to be taken. One circuit level outage was 86% of outage time.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #3

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**  
Country Club Circuit (3)
4. **CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)**  
Old Munfordville Rd and Backside of Country Club
5. **TOTAL CIRCUIT MILES (MILES)**  
18.9 miles
6. **CUSTOMER COUNT FOR THIS CIRCUIT**  
275
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	50.1%
Weather	34.0%
Off R/W	15.7%
Public	0.2%
Planned	0.0%
9. **CIRCUIT 5 YEAR AVERAGE (SAIDI)**  
192.63
10. **REPORTING YEAR (SAIDI)**  
294.06
11. **CIRCUIT 5 YEAR AVERAGE (SAIFI)**  
1.67
12. **REPORTING YEAR (SAIFI)**  
1.71
13. **LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN**  
None taken or to be taken. 90% of outage time occurred on MED.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #4

**1. SUBSTATION NAME AND NUMBER**

Munfordville (2)

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

Hart County - North 31-W - Munfordville, KY

**3. CIRCUIT NAME AND NUMBER**

Northtown (2)

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

County barn road, along I65 and Northtown

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

77.5

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

488

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

2011

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

Weather	56.6%
Off R/W	40.0%
On R/W	2.1%
Unknown	1.1%
Public	0.1%

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

254.01

**10. REPORTING YEAR (SAIDI)**

279.17

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

2.51

**12. REPORTING YEAR (SAIFI)**

3.26

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

None taken or to be taken. 2 outages on consecutive days accounted for 52% of outage time.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #5

**1. SUBSTATION NAME AND NUMBER**

Munfordville (2)

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

Hart Co., Hwy 357, Munfordville, KY

**3. CIRCUIT NAME AND NUMBER**

Priceville (3)

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

Munfordville - Raider Hollow Rd - Northwest of Munfordville

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

85.3

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

559

**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	40.51%
Tree Related	26.48%
Public	23.59%
Unknown	5.87%
Weather	3.56%

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

96.48

**10. REPORTING YEAR (SAIDI)**

148.04

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

0.88

**12. REPORTING YEAR (SAIFI)**

1.45

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

??????

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #6

**1. SUBSTATION NAME AND NUMBER**

Temple Hill (3)

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

Barren County - Hwy 63 - Temple Hill

**3. CIRCUIT NAME AND NUMBER**

Glover Creek (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**

546

**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**

Off R/W	54.14%
On R/W	18.23%
Public	13.81%
Weather	9.21%
Animal	2.41%
Unknown	1.65%
Equipment Failure	0.29%
Planned	0.25%

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

197.22

**10. REPORTING YEAR (SAIDI)**

100.67

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

1.25

**12. REPORTING YEAR (SAIFI)**

1.63

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

None taken or to be taken. One circuit level outage was 54% of outage time.



# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #7

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)**  
42.3
6. **CUSTOMER COUNT FOR THIS CIRCUIT**  
262
7. **DATE OF LAST CIRCUIT TRIM (VM)**  
2010
8. **LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE**

Weather	38.26%
On R/W	27.42%
Off R/W	16.16%
Planned	12.09%
Equipment Failure	3.01%
Unknown	2.95%
Animal	0.11%
9. **CIRCUIT 5 YEAR AVERAGE (SAIDI)**  
203.77
10. **REPORTING YEAR (SAIDI)**  
296.74
11. **CIRCUIT 5 YEAR AVERAGE (SAIFI)**  
1.90
12. **REPORTING YEAR (SAIFI)**  
2.74
13. **LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN**  
Circuit will be trimmed in 2018.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #8

**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**

270

**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	54.55%
Equipment Failure	29.26%
Animal	11.02%
Planned	3.23%
On R/W	0.59%
Off R/W	0.64%
Public	0.72%

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

76.02

**10. REPORTING YEAR (SAIDI)**

61.25

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

0.48

**12. REPORTING YEAR (SAIFI)**

0.58

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

Circuit will be trimmed in 2018.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #9

**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**

Edmonton (2)

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

Knob Lick to Edmonton, Hwy 1243 and Hwy 80

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

49.0

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

311

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

2010

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

Weather	50.38%
Unknown	24.77%
Public	13.12%
On R/W	5.66%
Planned	3.13%
Equipment Failure	2.52%
Off R/W	0.42%

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

196.45

**10. REPORTING YEAR (SAIDI)**

164.92

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

1.97

**12. REPORTING YEAR (SAIFI)**

2.24

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

None taken or to be taken. Two outages were 69% of outage time.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #10

**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**

Center (4)

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

Knob Lick to Center - Hwy 1243

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

115.0

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

686

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

2013

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

Weather	68.46%
On R/W	25.35%
Unknown	3.36%
Public	1.40%
Planned	0.78%
Off R/W	0.49%
Equipment Failure	0.11%
Animal	0.05%

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

273.89

**10. REPORTING YEAR (SAIDI)**

301.21

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

2.15

**12. REPORTING YEAR (SAIFI)**

1.62

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

None taken or to be taken. 61% of outage time occurred on a MED.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #11

**1. SUBSTATION NAME AND NUMBER**

Beckton (5)

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

Barren County - Hwy 1297 - Beckton

**3. CIRCUIT NAME AND NUMBER**

Rocky Hill - Barren River State Park (2)

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

Beckton, Rocky Hill, Finney - Hwy 252, Beckton-Rocky Hill Rd - Barren River State Pk

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

105.4

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

1120

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

2016

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

Weather	82.24%
Unknown	10.71%
Equipment Failure	4.34%
Planned	1.12%
Off R/W	0.56%
Animal	0.46%
On R/W	0.35%
Public	0.23%

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

145.40

**10. REPORTING YEAR (SAIDI)**

234.06

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

1.95

**12. REPORTING YEAR (SAIFI)**

2.51

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

None taken or to be taken. 79% of outage time occurred in 2 outages on same day.

# KENTUCKY PUBLIC SERVICE COMMISSION

## 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 - I65 interchange
5. **TOTAL CIRCUIT MILES (MILES)**  
3.61
6. **CUSTOMER COUNT FOR THIS CIRCUIT**  
45
7. **DATE OF LAST CIRCUIT TRIM (VM)**  
2011
8. **LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE**

Equipment Failure	78.5%
Planned	21.5%
9. **CIRCUIT 5 YEAR AVERAGE (SAIDI)**  
5.6
10. **REPORTING YEAR (SAIDI)**  
20.60
11. **CIRCUIT 5 YEAR AVERAGE (SAIFI)**  
0.05
12. **REPORTING YEAR (SAIFI)**  
0.07
13. **LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN**  
None taken or to be taken. Only 2 outages occurred on circuit.

# KENTUCKY PUBLIC SERVICE COMMISSION

## 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**

Bear Wallow (3)

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

Cave City, Bear Wallow, Horse Cave - Hwy 70, Old Lexington Rd

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

60.73

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

632

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

2014

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

Off R/W	80.1%
Weather	11.5%
Equipment Failure	5.2%
On R/W	3.0%
Planned	0.1%
Unknown	0.1%

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

66.51

**10. REPORTING YEAR (SAIDI)**

199.50

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

0.80

**12. REPORTING YEAR (SAIFI)**

1.11

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

None taken or to be taken. 1 outage accounted for 56% of time.

# KENTUCKY PUBLIC SERVICE COMMISSION

## 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)**

22.6

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

426

**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	94.74%
Planned	3.92%
Equipment Failure	1.33%

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

19.33

**10. REPORTING YEAR (SAIDI)**

28.86

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

0.24

**12. REPORTING YEAR (SAIFI)**

0.29

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

None taken or to be taken. 2 outages accounted for 81% of outage time.



# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #15

**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**

406

**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	93.75%
Public	4.56%
Animal	0.88%
Weather	0.35%
Unknown	0.34%
Off R/W	0.11%

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

49.29

**10. REPORTING YEAR (SAIDI)**

218.12

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

0.66

**12. REPORTING YEAR (SAIFI)**

0.29

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

None taken or to be taken. One outage accounted for 89% of outage time.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #16

**1. SUBSTATION NAME AND NUMBER**

Galloway (8)

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

Metcalf 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**

1326

**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	38.15%
Equipment Failure	32.36%
Planned	27.02%
Weather	2.32%
Public	0.12%
Animal	0.03%

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

87.19

**10. REPORTING YEAR (SAIDI)**

145.64

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

1.05

**12. REPORTING YEAR (SAIFI)**

2.09

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

This circuit is on the plan to be trimmed out this year (2018).

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #17

**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 (2)

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

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

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

95.2

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

817

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

2011

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

Equipment Failure	35.35%
On R/W	21.55%
Off R/W	17.08%
Weather	11.27%
Unknown	8.72%
Planned	4.46%
Animal	1.57%

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

115.58

**10. REPORTING YEAR (SAIDI)**

118.04

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

1.20

**12. REPORTING YEAR (SAIFI)**

1.63

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

The right of way is scheduled to be trimmed out in 2019. With only a 2% increase over the five year average, The current schedule will be followed

# 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**

Hollow Rd - Lecta (3)

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

Glasgow, KY - Hy 90, Hwy 68-80, Lecta

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

91.0

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

1112

**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	87.01%
Off R/W	3.45%
Weather	2.96%
Unknown	2.48%
Planned	1.88%
Equipment Failure	1.14%
Animal	0.90%
Public	0.18%

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

118.66

**10. REPORTING YEAR (SAIDI)**

147.62

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

1.51

**12. REPORTING YEAR (SAIFI)**

1.52

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

None taken or to be taken. 1 circuit level outage caused 42% of outage time.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #19

**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**

429

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

2013

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

Animal	98.76%
Equipment Failure	1.04%
Other	0.20%

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

0.00

**10. REPORTING YEAR (SAIDI)**

71.81

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

0.00

**12. REPORTING YEAR (SAIFI)**

1.02

**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 #20

**1. SUBSTATION NAME AND NUMBER**

Edmonton Industrial (13)

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

Metcalfe County - Industrial Dr - Edmonton, KY

**3. CIRCUIT NAME AND NUMBER**

Edmonton Industrial Park (2)

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

Edmonton, KY - Industrial Drive - Edmonton Industrial Park - Carhartt

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

0.7

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

9

**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)**

4.38

**10. REPORTING YEAR (SAIDI)**

21.33

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

0.03

**12. REPORTING YEAR (SAIFI)**

0.33

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

None taken or to be taken. Industrial circuit, only 1 outage.

# 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**

Dripping Springs (1)

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

Glasgow - Hwy 68-80, Dripping Springs Rd, Carden Rd - Dripping Springs

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

24.4

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

355

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

2014

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

Planned	87.01%
Weather	12.76%
On R/W	0.13%
Animal	0.09%

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

76.32

**10. REPORTING YEAR (SAIDI)**

96.56

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

0.78

**12. REPORTING YEAR (SAIFI)**

1.19

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

None taken or to be taken. New substation brought online in 2013 still establishing 5yr average.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #22

**1. SUBSTATION NAME AND NUMBER**

Bon Ayr

**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**

On R/W	51.65%
Equipment Failure	42.17%
Animal	1.93%
Public	1.46%
Weather	1.39%
Other	1.26%
Planned	0.15%

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

23.26

**10. REPORTING YEAR (SAIDI)**

85.97

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

0.22

**12. REPORTING YEAR (SAIFI)**

0.75

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

None taken or to be taken. New substation brought online in 2013 still establishing 5yr average.



# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #23

**1. SUBSTATION NAME AND NUMBER**

Jonesville

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

Hart County - Hwy 357 - Munfordville, KY

**3. CIRCUIT NAME AND NUMBER**

Hammondsville (1)

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

Munfordville, KY - Hwy 357 - Hammondsville

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

55.6

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

338

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

2014

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

Public	47.73%
Off R/W	39.51%
Weather	7.13%
Unknown	2.70%
Planned	2.47%
Animal	0.28%
Equipment Failure	0.18%

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

210.65

**10. REPORTING YEAR (SAIDI)**

166.81

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

0.98

**12. REPORTING YEAR (SAIFI)**

1.53

**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.

# KENTUCKY PUBLIC SERVICE COMMISSION

## 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**

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**

642

**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	83.70%
Weather	10.42%
Animal	2.98%
On R/W	1.58%
Unknown	0.98%
Public	0.19%
Planned	0.10%
Off R/W	0.0%

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

196.10

**10. REPORTING YEAR (SAIDI)**

252.92

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

0.53

**12. REPORTING YEAR (SAIFI)**

1.44

**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.

# 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**

Etoile (1)

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

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

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

119.0

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

739

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

2010

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

Unknown	99.19%
Planned	0.81%

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

0.00

**10. REPORTING YEAR (SAIDI)**

12.42

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

0.00

**12. REPORTING YEAR (SAIFI)**

0.01

**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 2018

Farmers RECC will be committed to its members by providing safe reliable electricity. For 2018 we have contracted with Environmental Consultants Inc. (ECI) to help oversee and manage our Right-Of-Way program.

In 2018 we will work on three circuits. We have contracted with A&G Tree Service and to clear the following circuits.

- Temple Hill – Etoile has 54 miles of line
- Temple Hill – Roseville has 160 miles of line
- Galloway – Edmonton has 156 miles of line

Total Miles = 387 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 6 circuits.

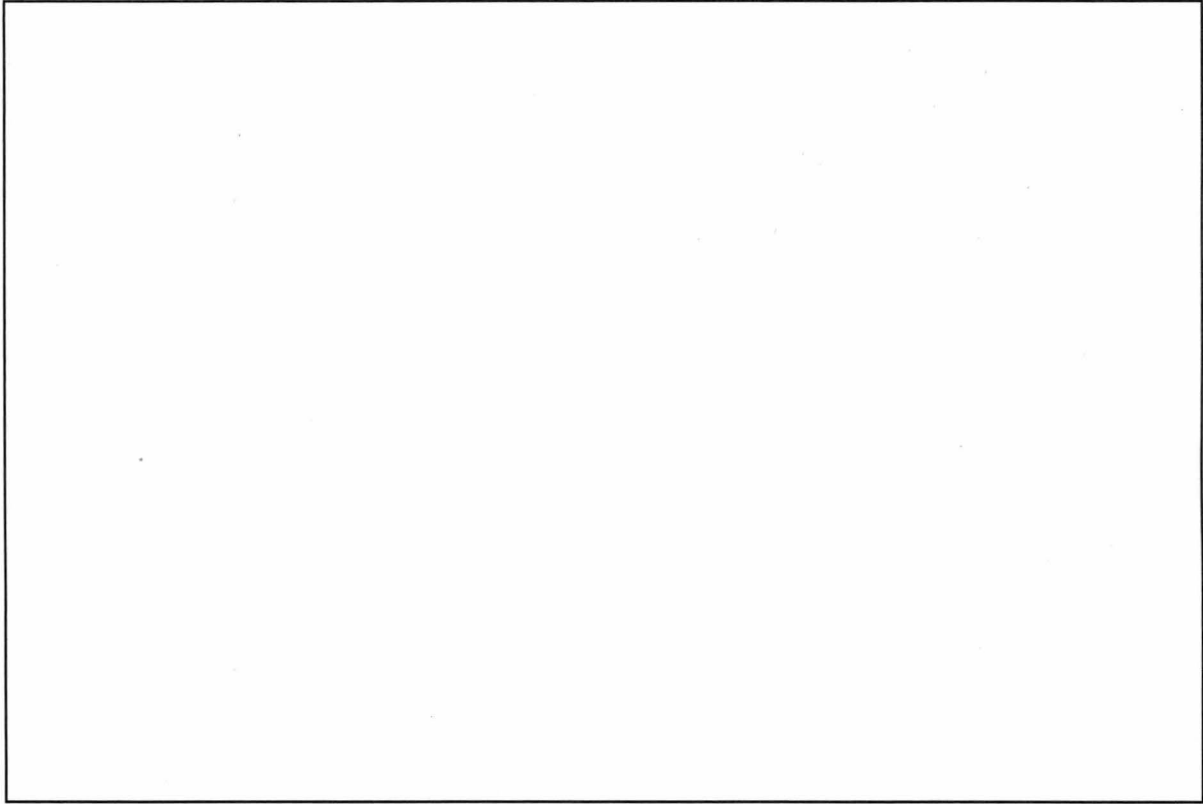
- Parkway – Haywood has 47 miles of line
- Bonnieville – Priceville has 43 miles of line
- Temple Hill – Summershade has 126 miles of line
- Temple Hill – Green Valley has 19 miles of line
- Temple Hill – Clover Creek has 64 miles of line
- Temple Hill – Temple Hill has 34 miles of line

Total Miles = 333 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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