

Farmers Rural Electric Cooperative Corporation

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APR 26 2016 PUBLIC SERVICE COMMISSION

April 25, 2016

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

Dear Sir or Madam:

Please find an original paper copy and an electronic version of Farmers Rural Electric's 2015 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,

Tony Wells VP Technical Services 504 S Broadway St Glasgow KY, 42141 Phone 270-651-2191 Ext 8200 Mobile 270-670-5299 Email twells@farmersrecc.com

www.farmersrecc.com

Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

UTILITY NAME REPORT PREPARED BY E-MAIL ADDRESS OF PREPARER PHONE NUMBER OF PREPARER

 Farners Rural Electric Cooperative

 Tony Wells

 twells@farmersrecc.com

 270-651-2191 Ext 8200

SECTION 2: REPORT YEAR

CALENDAR YEAR OF REPORT

2015

SECTION 3: MAJOR EVENT DAYS

T_{MED} FIRST DATE USED TO DETERMINE T_{MED} LAST DATE USED TO DETERMINE T_{MED} NUMBER OF MED IN REPORT YEAR 20.9 5/1/2010 12/31/2014 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

	Sy	ystem-wide Informa	tion	
OTAL CUSTO	MERS 24192	то	TAL CIRCUIT	S 59
		Excluding MED		
	5 YEAR AVERAGE			REPORTING YEAR
SAIDI	213.52		SAIDI	149.66
SAIFI	1.9		SAIFI	1.67
		Including MED		
	5 YEAR AVERAGE	-		REPORTING YEAR
SAIDI	254.66		SAIDI	175.11
SAIFI	2.1		SAIFI	2.17

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}

Electric Distribution Utility Annual Reliability Report

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

CIRCUIT #1

- SUBSTATION NAME AND NUMBER Goodnight (1)
 SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
- Barren County Hwy 31 E Goodnight Community 3. CIRCUIT NAME AND NUMBER
- Rock Quarry (4)
- 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Goodnight to Cave City along Hwy 90
- 5. TOTAL CIRCUIT MILES (MILES) 49.0
- 6. CUSTOMER COUNT FOR THIS CIRCUIT 452
- 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

Equipment Failure	85.67%
Public	13.84%
Weather	0.42%
Planned	0.08%

- 9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
- 84.94
- 10. REPORTING YEAR (SAIDI)
 - 477.27
- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 5.62
- 12. REPORTING YEAR (SAIFI)

5.45

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

Conductor Change projects will be added to the next Construction Work Plan to replace aged #4ACSR

CIRCUIT #2

- 1. SUBSTATION NAME AND NUMBER Munfordville (2)
- 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Hart Co., Hwy 31-W, Munfordville, KY
- 3. CIRCUIT NAME AND NUMBER Seymour (1)
- 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Munfordville - Hwy 357 - Northeast of Munfordville
- 5. TOTAL CIRCUIT MILES (MILES) 112
- 6. CUSTOMER COUNT FOR THIS CIRCUIT 482
- 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	31.65%
Equipment Failure	29.17%
Planned	18.04%
On R/W	14.50%
Off R/W	3.80%
Unknown	2.79%

- 9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 205.84
- 10. REPORTING YEAR (SAIDI) 275.34
- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 8.27
- 12. REPORTING YEAR (SAIFI)

2.72

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN All taps on 3 phase were fused in 2015/2016 - Completed Circuit has been reconfigured to now feed out of Jonesville Substation.

CIRCUIT #3

- 1. SUBSTATION NAME AND NUMBER Munfordville (2)
- 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Hart Co., Hwy 31-W, Munfordville, KY
- 3. CIRCUIT NAME AND NUMBER Cub Run (6)
- 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Munfordville to Cub Run and Wax, Hwy 88
- 5. TOTAL CIRCUIT MILES (MILES) 176.43
- 6. CUSTOMER COUNT FOR THIS CIRCUIT
- 1632
- 7. DATE OF LAST CIRCUIT TRIM (VM)
- 2009
- 8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

On R/W	70.79%
Equipment Failure	13.29%
Weather	7.54%
Unknown	3.69%
Small Animal	1.91%
Off R/W	1.60%
Planned	0.90%
Public	0.17%

- 9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
 - 157.9 • **PEPORTIN**
- 10. REPORTING YEAR (SAIDI) 196.89
- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 5.01
- 12. REPORTING YEAR (SAIFI)
 - 2.7

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

Yard Trees was a major contributor to the R/W outages. A pilot has been undertaken to test a TGR(tree growth retardant) on this circuit.

CIRCUIT #4

- 1. SUBSTATION NAME AND NUMBER Munfordville (2)
- 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Hart Co., Hwy 31-W, Munfordville, KY
- 3. CIRCUIT NAME AND NUMBER Industrial Ckt (7)
- 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Munfordville, Hwy 31-W, Industrial park near substation
- 5. TOTAL CIRCUIT MILES (MILES) 0.22
- 6. CUSTOMER COUNT FOR THIS CIRCUIT 4
- 7. DATE OF LAST CIRCUIT TRIM (VM) N/A
- 8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	69.40%
Planned	30.60%

- 9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 5.58
- 10. REPORTING YEAR (SAIDI) 108.33
- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.2
- 12. REPORTING YEAR (SAIFI) 1.62
- 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

None taken or to be taken. One unplanned outage caused circuit to break criteria

CIRCUIT #5

- 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 Green Valley (2)
- 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Temple Hill, Hwy 163, North on Hwy 163 towards Morrison Park
- 5. TOTAL CIRCUIT MILES (MILES) 19.0
- 6. CUSTOMER COUNT FOR THIS CIRCUIT 164
- 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

Equipment Failure	85.48%
Planned	14.52%

- 9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 113.60
- 10. REPORTING YEAR (SAIDI) 309.86
- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 3.36
- 12. REPORTING YEAR (SAIFI) 1.98
- 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN None taken or to be taken. One unplanned outage caused circuit to break criteria

CIRCUIT #6

- 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) 158.00
- 6. CUSTOMER COUNT FOR THIS CIRCUIT 974
- 7. DATE OF LAST CIRCUIT TRIM (VM) 2010
- 8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Animal	43.45%
Off R/W	23.70%
Weather	16.13%
On R/W	5.84%
Public	4.61%
Unknown	4.60%
Equipment Failure	0.89%
Planned	0.79%

- 9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
 - 128.70
- 10. REPORTING YEAR (SAIDI)
 - 491.55
- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 5.7
- 12. REPORTING YEAR (SAIFI)

3.09

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

Multiple projects were completed on this circuit during 2015. Single Phase to three phase at Clark's Corner area. Single phase to three phase along hwy 68--80, Fuses were added on three phase to the end of the three phase. CSP transformers were changed to conventional up to first sectionalizing device on three phase.

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 Wisdom (5)
- 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Knob Lick to Wisdom, Hwy 640
- 5. TOTAL CIRCUIT MILES (MILES) 28.31
- 6. CUSTOMER COUNT FOR THIS CIRCUIT 139
- 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	45.70%
Equipment Failure	22.17%
Weather	20.66%
Off R/W	10.73%
Other	0.39%
Unknown	0.35%

- 9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 67.88
- 10. REPORTING YEAR (SAIDI) 133.28
- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.93
- 12. REPORTING YEAR (SAIFI)
 - 1.18

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13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN CSP transformers were changed to conventional on three phase.

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 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) 109.79
- 6. CUSTOMER COUNT FOR THIS CIRCUIT 1141
- 7. DATE OF LAST CIRCUIT TRIM (VM) 2015-2016
- 8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

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On R/W	33.65%
Planned	26.30%
Weather	17.65%
Off R/W	12.63%
Public	3.70%
Equipment Failure	2.45%
Unknown	1.97%
Animal	0.99%
Other	0.66%

- 9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
 - 122.83
- 10. REPORTING YEAR (SAIDI) 185.88
- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 6.51
- 12. REPORTING YEAR (SAIFI) 2.01
- 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN All taps on 3 phase will be fused in 2015 - Completed

Sectionalizing study will be performed and implemented in 2015 Numerous lightning arrestors will be added to line in 2015 - Completed R/W completed 4th qtr 2015 and 1st qtr 2016

CIRCUIT #9

- 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) 64
- 6. CUSTOMER COUNT FOR THIS CIRCUIT 677
- 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	48.46%
Equipment Failure	45.26%
Planned	4.77%
Unknown	1.00%
Animal	0.07%

- 9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 45.49
- 10. REPORTING YEAR (SAIDI) 111.94
- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.56
- 12. REPORTING YEAR (SAIFI)

1.59

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

None. 2 Outages caused circuit to break criteria. One was a broken insulator and the other was lightning damaged poletop.

CIRCUIT #10

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- 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, Hwy 70/90, I-65 interchange
- 5. TOTAL CIRCUIT MILES (MILES) 3.47
- 6. CUSTOMER COUNT FOR THIS CIRCUIT 34
- 7. DATE OF LAST CIRCUIT TRIM (VM) 2011
- 8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Animal	30.55%
Weather	25.54%
Equipment Failure	43.91%

- 9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 5.46
- 10. REPORTING YEAR (SAIDI) 11.06
- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.2
- 12. REPORTING YEAR (SAIFI)

0.13

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN None. Small circuit and 3 outages total broke criteria

CIRCUIT #11

- 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 surronding area
- 5. TOTAL CIRCUIT MILES (MILES) 53.0
- 6. CUSTOMER COUNT FOR THIS CIRCUIT 544
- 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 Pianned On R/W Public Weather Animal	31.51% 25.26% 16.09% 12.84% 11.35% 2.65% 0.28%
Animai Unknown Other	2.65% 0.29% 0.02%

- 9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 87.25
- 10. REPORTING YEAR (SAIDI)

137.75

- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 3.79
- 12. REPORTING YEAR (SAIFI)

2.24

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

None. Planned outages for voltage conversion and single phase to 3 phase upgrade and one equipment failure outage associated with the upgrades broke criteria.

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 330
- 7. DATE OF LAST CIRCUIT TRIM (VM) 2008
- 8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

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R/W	92.94%
Equipment Failure	3.03%
Weather	2.16%
Planned	1.34%
Unknown	0.31%
Animal	0.22%

- 9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 180.58
- 10. REPORTING YEAR (SAIDI) 296.67
- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 5.85
- 12. REPORTING YEAR (SAIFI)

1.70

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13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN R/W will be cleared in 2016.

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 HII
- 5. TOTAL CIRCUIT MILES (MILES) 51.0
- 6. CUSTOMER COUNT FOR THIS CIRCUIT 345
- 7. DATE OF LAST CIRCUIT TRIM (VM) 2008
- 8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure62.63%On R/W10.93%Off R/W6.93%R/W Contractor1.60%Weather8.28%

TT Call ICI	0.2070
Public	9.17%
Other	0.09%

- 9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 163.26
- 10. REPORTING YEAR (SAIDI) 285.84
- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 4.90
- 12. REPORTING YEAR (SAIFI)

2.42

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN None. One LA failure at substation with bad weather and traffic extending outage.

Page 14 of 22

CIRCUIT #14

- 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) 88.0
- 6. CUSTOMER COUNT FOR THIS CIRCUIT 432
- 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 65.19%

Animal		18.44%
Public		7.08%
Weather		6.38%
On R/W		2.57%
Planned	•	0.33%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

177.94

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- 10. REPORTING YEAR (SAIDI) 348.78
- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 9.08
- 12. REPORTING YEAR (SAIFI)
 - 2.37
- 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN None. One outage (a damage poletop) caused circuit to fail criteria.

CIRCUIT #15

- 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 (2)
- 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Glasgow, KY - Hy 90 - Green Valley
- 5. TOTAL CIRCUIT MILES (MILES) 58.2
- 6. CUSTOMER COUNT FOR THIS CIRCUIT 774
- 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	51.01%
On R/W	41.84%
Animal	4.82%
Unknown	1.43%
Planned	0.67%
Public	0.24%

- 9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 82.75
- 10. REPORTING YEAR (SAIDI) 180.83
- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 3.11
- 12. REPORTING YEAR (SAIFI)
 - 2.41
- **13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN** Right of way to be cleared in 2016.

CIRCUIT #16

- 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) 53.2
- 6. CUSTOMER COUNT FOR THIS CIRCUIT 399
- 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
 72.45%

 Weather
 14.35%

 On R/W
 10.05%

 Animal
 1.85%

 Planned
 1.29%

- 9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 15.22
- 10. REPORTING YEAR (SAIDI) 23.22
- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.42
- 12. REPORTING YEAR (SAIFI)

0.23

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

None. New substation brought online in 2013 atill establishing average. Average SAIDI over 2 yr

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CIRCUIT #17

- 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) 23.9
- 6. CUSTOMER COUNT FOR THIS CIRCUIT 278
- 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	27.01%
Public	24.62%
Weather	23.20%
Animal	15.29%
Off R/W	9.07%
Equipment Failure	0.81%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

1.51

- 10. REPORTING YEAR (SAIDI) 18.24
- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.04
- 12. REPORTING YEAR (SAIFI)

0.33

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

None. New substation brought online in 2013 atill establishing average. Average SAIDI over 2 yr

CIRCUIT #18

- 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) Jonesville, KY - Hwy 936, Aetna Furnace Rd - Jonesville
- 5. TOTAL CIRCUIT MILES (MILES) 100.3
- 6. CUSTOMER COUNT FOR THIS CIRCUIT 611
- 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	42.06%
On R/W	31.73%
Public	19.71%
Off R/W	7.99%
Weather	3.49%
Planned	2.73%
Animal	0.29%
Unknown	0.06%

- 9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 113.09
- 10. REPORTING YEAR (SAIDI) 195.92
- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.36
- 12. REPORTING YEAR (SAIFI) 1.79
- 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN None. New substation brought online in 2014 atill establishing average. Average SAIDI over 1 yr

CIRCUIT #19

- 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) 122.1
- 6. CUSTOMER COUNT FOR THIS CIRCUIT 668
- DATE OF LAST CIRCUIT TRIM (VM) 2015
- 8. LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Weather	96.21%
Planned	3.11%
Equipment Failure	0.46%
Unknown	0.22%

- 9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 0.00
- 10. REPORTING YEAR (SAIDI) 142.50
- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.00
- 12. REPORTING YEAR (SAIFI)

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- 0.76
- 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN None. New substation brought online in 2014 atill establishing average Average SAIDI over 1 yr

Circuit reconfigured during 2015.

Electric Distribution Utility Annual Reliability Report

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 2016

Farmers RECC will be committed to its members by providing safe reliable electricity For 2016 we have contracted with Environmental Consultants Inc. (ECI) to help oversee and manage our Right-Of-Way program.

In 2016 we have started work on work on five circuits. We have contracted with A&G Tree Service to clear the following circuits.

- Beckton Rocky Hill / State Park has 112 miles of line.
- Fox Hollow Green Valley has 57 miles of line.
- Galloway Edmonton has 53 miles of line.
- Parkway Haywood has 47 miles of line.
- Bonnieville Priceville has 43 miles of line. Total Miles = 312

We also have two A&G crews working hot spots & yard tress. They are cutting Right – Of – Way for new work orders.

We have contracted with Sage for Herbicide spraying that will include several miles of line which will include the following circuits.

- Beckton Rocky Hill / State Park has 110 miles of line.
- Munfordville Seymour has 112 miles of line.
- Munfordville Priceville has 84 miles of line.
- Bonnieville Munfordville has 50 miles of line.
- Goodnight Rock Quarry has 49 miles of line.
- Goodnight Hiseville has 75 miles of line.
- Goodnight Country Club has 15 miles of lines.
 - Total Miles = 495

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

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

Circuit comparison based on 4 years of history instead of 5. 5 years of data not available in the OMS.