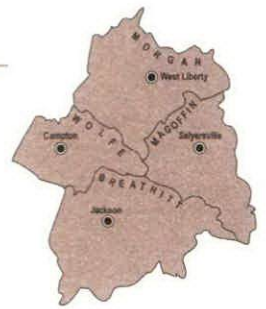




**LICKING VALLEY**  
RURAL ELECTRIC COOPERATIVE CORPORATION  
P. O. Box 605 • 271 Main Street  
West Liberty, KY 41472-0605  
(606) 743-3179



February 12, 2016

**RECEIVED**

**FEB 18 2016**

Public Service  
Commission

Director of Engineering  
Public Service Commission  
211 Sower Boulevard  
P.O. Box 615  
Frankfort, KY 40602

Dear Sir:

Enclosed you will find Licking Valley Rural Electric Cooperative Corporation's Electric Distribution Utility Annual reliability Report for the year ending 2015.

If additional information is needed, please let us know.

Sincerely,

Chris Murphy  
Superintendent of Operations

CM:oh

Report prepared for:

LICKING VALLEY RURAL ELECTRIC COOPERATIVE CORPORATION

Prepared by:

Oneida Haney, Office Supervisor  
[ohaney@lvrecc.com](mailto:ohaney@lvrecc.com)  
606-743-3179

**RECEIVED**

**FEB 18 2016**

**Public Service  
Commission**

**2015 Annual Reliability Report**

**Ten Worst Performing Circuits and Major Outage Category Without T'Med for SAIFI Index**

<b>Substation</b>	<b>Circuit</b>	<b>SAIFI Value</b>	<b>Major Cause</b>
Oakdale	Highland	12.6854	Pre-Arranged Maintenance
Sublett	Gun Creek	4.8953	Pre-Arranged Maintenance
Crockett	School	4.8750	Pre-Arranged Maintenance
Index	Mize	3.7369	Right-of-Way
Hot Mix	Elkfork	3.6804	Consumer Caused
Sublett	Gunlock	3.6553	Pre-Arranged Maintenance
Helechawa	Lee City	2.2742	Pre-Arranged Maintenance
Crockett	Crockett	2.1979	Pre-Arranged Maintenance
Campton	Stillwater	1.8557	Pre-Arranged maintenance
Campton	Vortex	1.5258	Right-of-Way

### Ten Worst Performing Circuits and Major Outage Category Without T'Med for SAIDI Index

<b>Substation</b>	<b>Circuit</b>	<b>SAIDI Value</b>	<b>Major Cause</b>
Oakdale	Highland	2135.8053	Right-of-Way
Sublett	Gun Creek	866.0755	Equipment Failure
Oakdale	Athol	696.5217	Equipment Failure
Sublett	Gunlock	652.1632	Consumer Caused
Index	Mize	352.2212	Equipment Failure
Helechawa	Lee City	348.5631	Pre-Arranged Maintenance
Crockett	School	299.7500	Consumer Caused
Campton	Vortex	293.2477	Right-of-Way
Campton	Stillwater	208.8360	Pre-Arranged Maintenance
Hot Mix	Elkfork	193.2707	Consumer Caused

**Ten Worst Performing Circuits and Major Cause Category Without T'Med for CAIDI Value**

<b>Substation</b>	<b>Circuit</b>	<b>CAIDI Value</b>	<b>Major Cause</b>
Campton	Vortex	192.19	Right-of-Way
Index	School	180.07	Pre-Arranged Maintenance
Sublett	Gunlock	178.42	Consumer Caused
Sublett	Gun Creek	176.92	Equipment Failure
Oakdale	Highland	168.37	Unknown
Oakdale	Athol	159.56	Equipment Failure
Helechawa	Lee City	153.27	Line Down
Zachariah	Leeoc	143.31	Right-of-Way
Maytown	Hazel Green	133.37	Consumer Caused
Helechawa	Cannel City	123.40	Line Down

**System Wide SAIFI, SAIDI, and CAIDI for the past 4 years, Includes T'Med**

	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
<b>SAIFI</b>	<b>80.4962</b>	<b>84.0790</b>	<b>72.2451</b>	<b>86.9448</b>
<b>SAIDI</b>	<b>16092.0715</b>	<b>12944.3224</b>	<b>12299.9034</b>	<b>16205.8127</b>
<b>CAIDI</b>	<b>199.91</b>	<b>153.95</b>	<b>170.25</b>	<b>186.39</b>

**System Wide SAIFI, SAIDI, and CAIDI for the past 4 years, Excluding T'Med**

	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
<b>SAIFI</b>	<b>60.7959</b>	<b>51.6056</b>	<b>48.4452</b>	<b>67.5024</b>
<b>SAIDI</b>	<b>6333.3043</b>	<b>5451.0532</b>	<b>5248.2762</b>	<b>8132.3833</b>
<b>CAIDI</b>	<b>104.17</b>	<b>105.63</b>	<b>108.33</b>	<b>120.47</b>

**Major Event Days**

**T'Med SAIDI Value 8073.4294**

**First Date Used to Determine T'Med-----February 21, 2015**

**Last Date Used to Determine T'Med-----December 24, 2016**

**Number of MED in Report Year -----35**



## System Reliability Information and Results

### System-wide Information

Total Consumers	17,289	Total Circuits	35
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### Excluding MED

Licking Valley RECC has only a 4 year Average

4 Year Average		Reporting Year
SAIDI	6291.2542	8132.3833
SAIFI	57.0873	67.5024

### Including MED

4 Year Average		Reporting Year
SAIDI	14385.5275	16205.8127
SAIFI	80.9413	86.9448

SAIFI Values for every circuit —excluding MED's

	2012	2013	2014	2015	4 Year Average
<b>Campton Substation</b>					
Pine Ridge Circuit	1.6180	.4929	2.8004	1.0703	1.4954
Stillwater Circuit	.5427	.8740	.9352	1.8557	1.0519
Vortex Circuit	.9880	5.8529	1.6862	1.5258	2.5132
Elkins Road	.5475	.5366	1.3786	.4539	.7291
<b>Maytown Substation</b>					
Ezel Circuit	.5555	1.1263	.6817	1.3606	.9310
Hazel Green Circuit	.7381	.3044	.7250	.5722	.5849
Pomeroyton Circuit	1.1541	.6180	2.2359	.7363	1.1861
<b>Zachariah Substation</b>					
Leeco Circuit	.6701	.9186	1.3181	1.2010	1.0269
Pine Ridge Circuit	2.5173	.4538	3.0835	.5303	1.6462
<b>Crockett Substation</b>					
Lenox Circuit	.3114	.8022	.3943	1.5215	.7573
Williams Creek Circuit	.6546	1.5514	1.4069	1.1608	1.1934
Crockett Circuit	3.5548	.5584	1.0932	2.1979	1.8511
School Circuit	.0435	.0435	.0476	4.8750	1.2524
<b>Helechawa Substation</b>					
Hazel Green Circuit	2.3531	3.2814	2.5088	.7192	2.2156
Cannel City Circuit	1.4310	2.6988	.7062	1.2483	1.5211
Lee City Circuit	3.9285	1.5654	1.8591	2.2742	2.4068
<b>Maggard Substation</b>					
Rockhouse Circuit	.2056	.4392	.2137	.6735	.3830
Flat Fork Circuit	.9032	1.0109	.5097	.4614	.7213
Lick Creek Circuit	1.3462	2.2354	.7139	.9790	1.3186
<b>Sublett Substation</b>					
Carver Circuit	1.0022	.4014	.8004	.8995	.7759
Lakeville Circuit	1.8702	2.2320	.7332	1.3910	1.5566
Gunlock Circuit	1.1279	1.8941	.9689	3.6553	1.9115
Gun Creek Circuit	15.6993	1.0821	.6415	4.8953	5.5795

SAIFI Values for every circuit---excluding MED's

	2012	2013	2014	2015	4 Year Average
<b>Hot Mix Substation</b>					
Elkfork Circuit	3.8937	2.2973	1.4415	3.6804	2.8282
Liberty Road Circuit	.1757	2.8494	2.2054	.9178	1.5371
519 Circuit	1.2721	.7391	.7000	1.1219	.9583
Wrigley Circuit	2.6885	.7105	.2411	1.1617	1.2004
<b>Oakdale Substation</b>					
Athol Circuit	.2782	2.9824	.6000	4.3652	2.0564
Highland Circuit	.6539	.2245	7.6267	12.6854	5.2976
Elkatawa Circuit	.2000	2.6718	.9886	1.3736	1.3085
War Creek Circuit	2.8906	.5990	1.2550	.9173	1.4155
<b>Index Substation</b>					
Caney Circuit	.7259	.6411	.7513	.8947	.7532
Index Circuit	1.1794	.1522	.2092	.2229	.4409
Mize Circuit	2.0530	2.1503	4.9844	3.7369	3.2311
Prison Circuit		2.5000			.6250
School				.1666	.0417

**SAIDI Values for every circuit—excluding MED's**

	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>4 Year Average</b>
<b>Campton Substation</b>					
Pine Ridge Circuit	164.7603	62.6224	94.1814	56.8558	94.6050
Stillwater Circuit	241.2174	88.4797	112.6524	208.8360	162.7964
Vortex Circuit	60.5624	551.1349	174.9289	293.2477	269.9685
Elkins Road Circuit	62.5182	98.9338	178.0000	51.7021	97.7885
<b>Maytown Substation</b>					
Ezel Circuit	89.3542	113.1528	84.9183	117.0970	101.1306
Hazel Green Circuit	50.23746	32.7014	133.8972	76.3127	73.2865
Pomeroyton Circuit	128.9309	74.0625	242.1235	53.5035	124.6551
<b>Zachariah Substation</b>					
Leeco Circuit	177.5446	79.2519	110.4974	172.1195	134.8533
Pine Ridge Circuit	346.0199	50.0656	261.3724	52.2862	177.4360
<b>Crockett Substation</b>					
Lenox Circuit	165.7377	32.3295	32.2571	94.0735	81.0994
Williams Creek Circuit	60.0990	217.3212	86.2045	52.6992	104.0810
Crockett Circuit	422.1698	54.2185	136.4512	99.1437	177.9958
School Circuit	46.9565	7.8261	2.8571	299.7500	89.3474
<b>Helechawa Substation</b>					
Hazel Green Circuit	161.1261	209.9984	222.6618	64.6960	164.6206
Cannel City Circuit	209.7148	655.3190	82.2362	154.0432	275.3283
Lee City Circuit	339.6134	169.3147	295.9586	348.5631	288.3624
<b>Maggard Substation</b>					
Rockhouse Circuit	19.8257	37.9821	69.9310	71.1169	49.7139
Flat Fork Circuit	123.4014	127.7220	91.7345	42.4448	96.3257
Lick Creek Circuit	108.6779	213.6774	78.1350	104.1343	126.1561
<b>Sublett Substation</b>					
Carver Circuit	74.6174	51.3213	60.1401	107.0751	73.2885
Lakeville Circuit	150.7639	181.0622	87.5054	132.8783	138.0524
Gunlock Circuit	177.2093	149.5475	125.5344	652.1632	276.1136
Gun Creek Circuit	984.5399	95.6327	71.9811	866.0755	504.5573

**SAIDI Values for every circuit —excluding MED's**

	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>4 Year Average</b>
<b>Hot Mix Substation</b>					
Elkfork Circuit	368.0402	159.0446	65.5471	193.2707	196.4756
Liberty Road Circuit	10.1352	238.7671	197.3288	48.3698	123.6502
519 Circuit	192.3217	53.2608	51.8047	102.9759	100.0908
Wrigley Circuit	125.6658	51.8837	28.4171	108.7686	78.6838
<b>Oakdale Substation</b>					
Athol Circuit	63.4782	275.5752	69.3912	696.5217	276.2416
Highland Circuit	99.7991	39.0838	1051.1060	2135.8053	831.4485
Elkatawa Circuit	156.5783	473.4478	159.7356	136.7890	231.6377
War Creek Circuit	607.1733	59.5848	130.8586	74.5614	218.0445
<b>Index Substation</b>					
Caney Circuit	35.0763	48.9058	62.7513	70.4868	54.3050
Index Circuit	105.5734	10.2208	20.8154	11.7956	37.1013
Mize Circuit	203.9666	249.1704	412.1109	352.2212	304.3673
Prison Circuit	-0-	375.0000	-0-	-0-	93.7500
School Circuit	-0-	-0-	-0-	30.0000	7.5000

**Circuits With SAIFI or SAIDI Value Higher Than 4 Year Average**

## Circuit Reporting

### Circuit # 1

Substation # 7, Campton Substation, located on Rt 15 in Campton, Wolfe County.

Circuit # 2, Stillwater Circuit; this circuit serves parts of Campton, Callaboose, Stillwater, Baptist Fork, and Trent.

This Circuit has approximately 106.6 miles of line and serves approximately 1,074 consumers.

This circuit was cut out in 2015.

Causes and percentages for this circuit:

Cause	% SAIFI	%SAIDI
Pre-Arranged Maintenance	80%	81%
Right-of-Way	5%	6%
Unknown	11%	10%
Line Down	<1%	<1%
Equipment Failure	2%	1%
Consumer	<1%	1%
Animals	2%	1%

Circuit 4 Year Average SAIFI---1.0519

Reporting Year 2015 SAIFI ---1.8557

Circuit 4 Year Average SAIDI---162.7964

Reporting Year 2015 SAIDI---208.8360

Due to changing out old wire and poles, the power had to be turned off in order to complete repairs safely. This circuit outage time should be greatly reduced next year.

## Circuit Reporting

### Circuit # 2

Substation # 7, Campton Substation, located on Rt. 15 in Campton, Wolfe County.

Circuit # 3, Vortex Circuit; this circuit serves Hwy 15, Flat Mary, Big Bloody, and Bethany.

This Circuit has approximately 82.9 miles of line and serves approximately 561 consumers.

This circuit was cut out in 2015.

Causes and percentages for this circuit:

Cause	%SAIFI	%SAIDI
Pre-Arranged Maintenance	7%	4%
Right-of-Way	77%	87%
Unknown	3%	2%
Line Down	-0-	-0-
Equipment Failure	9%	4%
Consumer	-0-	-0-
Animals	4%	3%

Circuit 4 Year Average SAIFI—2.5132

Reporting Year 2015 SAIFI—1.5258

Circuit 4 Year Average SAIDI—269.9685

Reporting Year 2015 SAIDI—293.2477

The Right-of-Way Clearing was completed on the circuit at the end of 2015. This now being clear should reduce the outage time on this circuit in 2016.



## Circuit Reporting

### Circuit # 3

Substation # 9, Maytown Substation, located on Rt 1010 in Morgan County.

Circuit # 1, Ezel Circuit; this circuit serves Ezel, Greasy Creek, Toms Branch, and Goad Ridge.

This circuit has approximately 97.6 miles of line and serves approximately 732 consumers.

This circuit was cut out in 2015.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Pre-Arranged Maintenance	43%	39%
Right-of-Way	9%	20%
Unknown	9%	6%
Line Down	-0-	-0-
Equipment Failure	13%	23%
Consumer Caused	24%	9%
Animals	2%	3%

Circuit 4 Year Average SAIFI---.9310

Reporting Year 2015 SAIFI—1.3606

Circuit 4 Year Average SAIDI---101.1306

Reporting Year 2015 SAIDI—117.0970

Due to changing out old wire and poles, the power needed to be off in order to complete change out safely. This being completed, the outage time for 2016 should be much less.

## Circuit Reporting

### Circuit # 4

Substation # 9, Maytown Substation, located on Rt. 1010 in Morgan County.

Circuit # 2, Hazel Green Circuit; this circuit serves areas of Rt 1010, Murphy Fork, Swango Fork, Maytown, Valeria and Big Branch.

This circuit has approximately 50.1 miles and serves approximately 339 consumers.

This circuit was cut out in 2015.

Causes and percentages for this circuit:

Cause	% SAIFI	%SAIDI
Pre-Arranged Maintenance	85%	86%
Right-of-Way	-0-	-0-
Unknown	1%	½%
Line Down	-0-	-0-
Equipment Failure	1%	½%
Consumer Caused	10%	11%
Animals	3%	2%

Circuit 4 Year Average SAIFI----.5849

Reporting Year 2015 SAIFI--.5722

Circuit 4 Year Average SAIDI—73.2865

Reporting Year 2015

Due to changing out old wire and poles, the power had to be turned off in order to do the change out safely. This being completed should reduce the outage time in 2016.

## Circuit Reporting

### Circuit # 5

Substation # 1, Zachariah Substation, located on Hwy 1036 at the edge of Wolfe and Lee Counties.

Circuit # 1, Leeco; this circuit serves Little Sinking, Big Sinking, Leeco, and Big Bend Road.

This circuit has approximately 29.7 miles of line and serves approximately 368 consumers.

This circuit was cut out in 2012.

Causes and percentages for this circuit:

Causes	% SAIFI	% SAIDI
Pre-Arranged Maintenance	77%	75%
Right-of-Way	16%	19%
Unknown	7%	6%
Line Down	-0-	-0-
Equipment Failure	<1%	<1%
Consumer	-0-	-0-
Animals	<1%	<1%

Circuit 4 Year Average SAIFI---1.0269

Reporting Year 2015 SAIFI—1.2010

Circuit 4 Year Average SAIDI—134.8533

Reporting Year 2015 SAIDI—172.1195

The repairs that this circuit needed, required the power to be turned off in order to work safely. This being completed should help outage time in 2106.

## Circuit Reporting

### Circuit # 6

Substation # 10, Crockett Substation, located on Hwy 172 in Morgan County.

Circuit # 1, Lenox; this circuit serves Straight Creek, Rush Branch and Conley Branch.

This circuit has approximately 20.2 miles of line and serves approximately 163 consumers.

Last hot spot trim 2010.

Causes and percentages for this circuit:

Causes	% SAIFI	% SAIDI
Pre-Arranged Maintenance	87%	61%
Right-of-Way	10%	35%
Unknown	<1%	1%
Line Down	-0-	-0-
Equipment Failure	1%	1%
Consumer	1%	1%
Animals	<1%	1%

Circuit 4 Year Average SAIFI--.7573

Reporting Year 2015 SAIFI—1.5215

Circuit 4 Year Average SAIDI—81.0994

Reporting Year 2015 SAIDI—94.0735

Due to changing out old wire and poles the power had to be off in order to complete change out safely. This being done should reduce the outage time for this circuit in 2016.

## Circuit Reporting

### Circuit # 7

Substation # 10, Crockett Substation, located on Hwy 172 in Morgan County.

Circuit # 3, Crockett Circuit; this circuit serves areas of Elkfork, Moon, and Middle Fork.

This circuit has approximately 54.4 miles of line and serves approximately 480 consumers.

Last hot spot trim 2010.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Pre-Arranged Maintenance	92%	79%
Right-of-Way	4%	9%
Unknown	2%	6%
Line Down	-0-	-0-
Equipment Failure	1%	4%
Consumer	1%	1%
Animals	<1%	1%

Circuit 4 Year Average SAIFI---1.8511

Reporting Year 2015 SAIFI—2.1979

Circuit 4 Year Average SAIDI—177.9958

Reporting Year 2015 SAIDI—99.1437

Power had to be off in order to replace old lines and poles. This being completed the outage time for 2016 should be less.

## Circuit Reporting

### Circuit # 8

Substation # 10, Crockett Substation, located on Hwy 172 in Morgan County.

Circuit # 4, School Circuit; this circuit serves the East Valley School and a few consumers near the school

This circuit has approximately 1/10 of a mile of line and serves approximately 8 consumers.

Last hot spot trim 2010.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Pre-Arranged Maintenance	85%	40%
Right-of-Way	-0-	-0-
Unknown	-0-	-0-
Line Down	-0-	-0-
Equipment Failure	-0-	-0-
Consumer	15%	60%
Animals	-0-	-0-

Circuit 4 Year Average SAIFI—1.2524

Reporting Year 2015 SAIFI—4.8750

Circuit 4 Year Average SAIDI—89.3474

Reporting Year 2015 SAIDI—299.7500

This circuit was upgraded and was put on the Williams Creek Circuit. 2016 will not have a School Circuit.

## Circuit Reporting

### Circuit # 9

Substation # 3, Helechawa Substation, located on Rt. 205 in Wolfe County.

Circuit # 3, Lee City Circuit; this circuit serves areas of Helechawa, Lee City, Rt 205, Rt 1094, Vancleve and Taulbee Fork.

This circuit has approximately 121.3 miles of line and serves approximately 959 consumers.

Last circuit trim was in 2011.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Pre-Arranged Maintenance	59%	48%
Right-of-Way	17%	18%
Unknown	4%	1%
Line Down	5%	21%
Equipment Failure	13%	10%
Consumer	-0-	-0-
Animals	2%	2%

Circuit 4 Year Average SAIFI—2.4068

Reporting Year 2015 SAIFI—2.2742

Circuit 4 Year Average SAIDI—288.3624

Reporting Year 2015 SAIDI—348.5631

Replacing old wire and poles required the power to be off to complete. This should result in less outage time in 2016.

## Circuit Reporting

### Circuit # 10

Substation # 5, Maggard Substation, located on Rt. 1081, Coon Creek in Magoffin County.

Circuit # 1, Rockhouse Circuit; this circuit serves areas of Improvement Fork, Rockhouse and Logville of Magoffin County.

This circuit has approximately 32.4 miles of line and serves approximately 291 consumers.

Last circuit trim was in 2013.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Pre-Arranged Maintenance	55%	41%
Right-of-Way	-0-	-0-
Unknown	16%	35%
Line Down	-0-	-0-
Equipment Failure	10%	15%
Consumer	-0-	-0-
Animals	19%	9%

Circuit 4 Year Average SAIFI--.3830

Reporting Year 2015 SAIFI--.6735

Circuit 4 Year Average SAIFI—49.7139

Reporting Year 2015 SAIDI—71.1169

Repairs necessary to this circuit required the power to be off during repairs in order to work safe. This being completed should result in less outage time in 2016.



## Circuit Reporting

### Circuit # 11

Substation # 6, Sublett Substation, located on Rt 7 near Royalton in Magoffin County.

Circuit # 1, Carver Circuit; this circuit serves areas of Sublett, Stinson, Foraker, and Hendricks in Magoffin County.

This circuit has approximately 70 miles of line and serves approximately 826 consumers.

Last circuit trim was in 2012.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Pre-Arranged Maintenance	29%	24%
Right-of-Way	18%	19%
Unknown	43%	48%
Line Down	2%	2%
Equipment Failure	6%	6%
Consumer	1%	½%
Animals	1%	½%

Circuit 4 Year Average SAIFI--.7759

Reporting Year 2015 SAIFI--.8895

Circuit 4 Year Average SAIDI—73.2885

Reporting Year 2015 SAIDI—107.0751

We will have to look closer to determine the cause the power was off so there will be less Unknown.

## Circuit Reporting

### Circuit # 12

Substation # 6, Sublett Substation, located on Rt 7 near Royalton in Magoffin County.

Circuit # 3, Gunlock Circuit; this circuit serves areas of Swampton, Puncheon, Big Half Mountain, Trace Fork, Salt Lick, Long Br. , and Gypsy.

This circuit has approximately 99.9 miles of line and serves approximately 870 consumers.

Last circuit trim was in 2012.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Pre-Arranged Maintenance	54%	39%
Right-of-Way	12%	16%
Unknown	2%	2%
Line Down	-0-	-0-
Equipment Failure	2%	2%
Consumer	30%	41%
Animals	<1%	<1%

Circuit 4 Year Average SAIFI—1.9115

Reporting Year 2015 SAIFI—3.6553

Circuit 4 Year Average SAIDI—276.1136

Reporting Year 2015 SAIDI—652.1632

Repairs need for this circuit required the power to be off in order to complete repairs safely. This being done should reduce the outage time for 2016.

## Circuit Reporting

### Circuit # 13

Substation # 6, Sublett Substation, located on Rt 7 near Royalton in Magoffin County.

Circuit # 4, Gun Creek Circuit; this circuit serves areas of Gun Creek, Royalton, and Marshallville.

This circuit has approximately 9.7 miles of line and serves approximately 172 consumers.

Last circuit trim was in 2012.

Causes and percentages for this circuit:

Causes	% SAIFI	%SAIDI
Pre-Arranged Maintenance	49%	35%
Right-of-Way	1%	1%
Unknown	4%	2%
Line Down	23%	23%
Equipment Failure	23%	39%
Consumer	-0-	-0-
Animals	<1%	<1%

Circuit 4 Year Average SAIFI—5.5795

Reporting Year 2015 SAIFI—4.8953

Circuit 4 Year Average SAIDI—504.5573

Reporting Year 2015 SAIDI-866.0755

In order to do necessary repairs to this circuit, the power needed to be off in order to complete work safely. This should help reduce outage time for 2016.

**Circuit Reporting**

**Circuit # 14**

Substation # 4, Hot Mix Substation, located on Sugar Camp Road in Morgan County.

Circuit # 1, Elkfork Circuit; this circuit serves areas of Elkfork, Lick Branch, Cow Branch and Cottle.

This circuit has approximately 36.2 miles of line and serves approximately 266 consumers.

Last hot spot trim was in 2013.

Causes and percentages for this circuit:

Causes	% SAIFI	% SAIDI
Pre-Arranged Maintenance	14%	34%
Right-of-Way	30%	24%
Unknown	½%	1%
Line Down	-0-	-0-
Equipment Failure	1%	3%
Consumer	54%	37%
Animals	½%	1%

Circuit 4 Year Average SAIFI—2.8282

Reporting Year 2015 SAIFI-3.6804

Circuit 4 Year Average SAIDI—196.4756

Reporting Year 2015 SAIDI-193.2707

We will have to look closer at our Right-of-Way problem to determine if the whole circuit needs cutting or hot spots.

## Circuit Reporting

### Circuit # 15

Substation # 4, Hot Mix Substation, located on Sugar Camp Road, Morgan County.

Circuit # 4, 519 Circuit; this circuit serves areas of Hwy 519, Yocum, Blaze and Dehart.

This circuit has approximately 98.2 miles of line and serves approximately 829 consumers.

Last hot spot trim was in 2013.

Causes and percentages for this circuit:

Cause	%SAIFI	%SAIDI
Pre-Arranged Maintenance	63%	24%
Right-of-Way	14%	21%
Unknown	12%	40%
Line Down	-0-	-0-
Equipment Failure	<1%	4%
Consumer	1%	2%
Animals	10%	9%

Circuit 4 Year Average SAIFI—.9583

Reporting Year 2015 SAIFI—1.1219

Circuit 4 Year Average SAIDI—100.0908

Reporting Year 2015 SAIDI-102.9759

In order to replace old lines and poles the power needed to be off in order to work safely. This should decrease outage time in 2016.

## Circuit Reporting

### Circuit # 16

Substation # 4, Hot Mix Substation, located on Sugar Camp Road, Morgan County.

Circuit # 5, Wrigley Circuit; this circuit serves areas of Wrigley, Redwine and Blairs Mill.

This circuit has approximately 56.2 miles of line and serves approximately 402 consumers.

Last hot spot trim was in 2013.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Pre-Arranged Maintenance	84%	78%
Right-of-Way	7%	10%
Unknown	5%	9%
Line Down	-0-	-0-
Equipment Failure	2%	2%
Consumer	-0-	-0-
Animals	2%	1%

Circuit 4 Year Average SAIFI—1.2004

Reporting Year 2015 SAIFI-1.1617

Circuit 4 Year Average SAIDI—78.6838

Reporting Year 2015 SAIDI-108.7686

Due to upgrading and replacing old lines and poles, power was off to complete work. This should greatly reduce outage time in 2016.

## Circuit Reporting

### Circuit # 17

Substation # 2, Oakdale Substation, located on Rt 52 at Oakdale in Breathitt County.

Circuit # 1, Athol Circuit; this circuit serves the areas of Athol, Oakdale, and Cope Branch.

This circuit has approximately 17.7 miles of line and serves approximately 115 consumers.

Cutting this circuit out now.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Pre-Arranged Maintenance	3%	1%
Right-of-Way	2%	1%
Unknown	4%	2%
Line Down	-0-	-0-
Equipment Failure	91%	96%
Consumer	<1%	<1%
Animals	<1%	<1%

Circuit 4 Year Average SAIFI—2.0564

Reporting Year 2015 SAIFI- 4.3652

Circuit 4 Year Average SAIDI—276.2416

Reporting Year 2015 SAIDI- 696.5217

We had some bad cut outs and bells. With this being fixed should reduce 2016 outage time.

## Circuit Reporting

### Circuit # 18

Substation # 2, Oakdale Substation, located on Rt 52 at Oakdale in Breathitt County.

Circuit # 2, Highland Circuit; this circuit serves the areas of Rt 52, Jetts Creek, Guerrant, Chenowee, Old Buck, Turkey Creek, and Houston.

This circuit has approximately 54.1 miles of line and serves approximately 267 consumers.

Cutting out this circuit 2016.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Pre-Arranged Maintenance	6%	2%
Right-of-Way	60%	72%
Unknown	7%	7%
Line Down	-0-	-0-
Equipment Failure	4%	7%
Consumer	-0-	-0-
Animals	2%	2%

Circuit 4 Year Average SAIFI—5.2976

Reporting Year 2015 SAIFI—12.6854

Circuit 4 Year Average SAIDI—831.4485

Reporting Year 2015 SAIDI—2135.8053

Right-of-Way Contractors are cutting on the Substation now. This should reduce the outage time for 2016.



## Circuit Reporting

### Circuit # 19

Substation # 2, Oakdale Substation is located on Rt 52 at Oakdale in Breathitt County.

Circuit # 3, Elkatawa Circuit; this circuit serves areas of Five-Mile, Wolverine, Elkatawa, Belcher Fork, and Cane Creek.

This circuit has approximately 57.3 miles of line and serves approximately 910 consumers.

Cutting out this circuit 2016

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Pre-Arranged Maintenance	43%	10%
Right-of-Way	36%	43%
Unknown	7%	7%
Line Down	-0-	-0-
Equipment Failure	4%	7%
Consumer	-0-	-0-
Animals	2%	2%

Circuit 4 Year Average SAIFI—1.3085

Reporting Year 2015 SAIFI-1.3736

Circuit 4 Year Average SAIDI—231.6377

Reporting Year 2015 SAIDI—136.7890

Right-of Way Contractors are cutting on the Substation now. This should reduce the outage time in 2016.

## Circuit Reporting

### Circuit # 20

Substation # 8, Index Substation, located on Rt 191 at Index in Morgan County.

Circuit # 1, Caney Circuit; this circuit serves areas of Malone, Caney, Stacy Fork, and Vance Fork.

This circuit has approximately 36.4 miles of line and serves approximately 380 consumers.

Last hot spot trim was in 2011.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Pre-Arranged Maintenance	80%	79%
Right-of-Way	8%	10%
Unknown	7%	6%
Line Down	1%	3%
Equipment Failure	1%	<1%
Consumer	-0-	-0-
Animals	3%	2%

Circuit 4 Year Average SAIFI--.7532

Reporting Year 2015 SAIFI--.8947

Circuit 4 Year Average SAIFI—54.3050

Reporting Year 2015 SAIDI-70.4868

Upgrading lines and poles required power to be off while work was being completed. This being done should reduce outage time in 2016.

## Circuit Reporting

### Circuit # 21

Substation # 8, Index Substation, located on 191 at Index in Morgan County.

Circuit # 3, Mize Circuit; this circuit serves areas of Greear, Buskirk, Mize and Woodsbend in Morgan County.

This circuit has approximately 75.6 miles of line and serves approximately 669 consumers.

Last hot spot trim 2011.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Pre-Arranged Maintenance	8%	6%
Right-of-Way	31%	16%
Unknown	30%	29%
Line Down	-0-	-0-
Equipment Failure	30%	48%
Consumer	¼%	¼%
Animals	¾%	¾%

Circuit 4 Year Average SAIFI—3.2311                      Reporting Year 2015 SAIFI-3.7369

Circuit 4 Year Average SAIDI—304.3673                      Reporting Year 2015 SAIDI-352.2212

Had some bad cut-outs. Right-of-Way hot spots have been cut. This should reduce 2016 outage time.

## Circuit Reporting

### Circuit # 22

Substation # 8, Index Substation, located on 191 at Index in Morgan County.

Circuit # 5, School Circuit; this circuit serves the Morgan Co. High School, Morgan County Middle School, Vocational School, Bus Garage and a few consumers.

This circuit has approximately .4 miles of line and serves approximately 6 accounts.

Last hot spot trim was in 2011.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Pre-Arranged Maintenance	100%	100%

Circuit 4 Year Average SAIFI—.0417

Reporting Year 2015 SAIFI-.1666

Circuit 4 Year Average SAIDI—7.500

Reporting Year 2015 SAIDI- 30.0000

Had the power off for 3 hours to replace bad underground.

## Vegetation Management Plan Review

Licking Valley Rural Electric Cooperative Corporation has an aggressive vegetation program and has contracted B M C Contracting to address our cooperatives right-of-way requirements. Our Cooperative likes to maintain a forty-foot ground to sky right-of-way clearance on new and existing accounts; however some variety in right-of-way clearing is based on geography/terrain, easement widths, line voltages and property owner issues. LVRECC is currently working on a 5 year rotation cycle. One crew runs a bucket truck and a chipper and their main concern are consumer requests and hot spots. In addition to B M C, the cooperative has a bush hog that is used for right-of-way clearing when not in use by construction or maintenance crews. The cooperative has a right-of-way foreman that oversees B M C Contracting crews. B M C also does our Herbicide Treatment, primarily in the months of May until August or September.