



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



RECEIVED

MAR 13 2018

**PUBLIC SERVICE
COMMISSION**

February 23, 2018

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 2017.

If additional information is needed, please let us know.

Sincerely,

Chris Murphy
Superintendent of Operations

CM:oh

RECEIVED

MAR 13 2018

PUBLIC SERVICE
COMMISSION

Report prepared for:

LICKING VALLEY RURAL ELECTRIC COOPERATIVE CORPORATION

Prepared by:

Oneida Haney, Service Office Supervisor

ohaney@lvrecc.com

606-743-7500

2017 Annual Reliability Report

Major Event Days

SAIDI Value **206.8220**

First Date Used to Determine T'Med-----**January 03, 2017**

Last Date Used to Determine T'Med-----**December 18, 2017**

Number of MED in Report Year-----**45**

System Reliability Information and Results

System-Wide Information

Total Consumers	17,281	Total Circuits	36
-----------------	--------	----------------	----

System –Wide Results

Excluding MED

5 Year Average		Reporting Year	
SAIDI	155.1927		137.2827
SAIFI	1.4038		1.3105

Including MED

5 Year Average		Reporting Year	
SAIDI	337.2139		344.1047
SAIFI	2.1507		2.4136

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

Substation	Circuit	SAIFI Value	Major Cause
Oakdale	Highland	10.7568	Line Down
Sublett	Gun Creek	4.2683	Pre-Arranged Maintenance
Zachariah	Pine Ridge	2.4993	Consumer Caused
Hot Mix	Wrigley	2.3975	Equipment Failure
Sublett	Gunlock	2.3189	Right-of-Way (Inside)
Sublett	Lakeville	2.0751	Consumer Caused
Crockett	Crockett	1.8828	Consumer Caused
Helechawa	Cannel City	1.7853	Right-of-Way (Outside)
Crockett	Williams Creek	1.6181	Right-of-Way (Inside)
Helechawa	Hazel Green	1.4920	Equipment Failure

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

Substation	Circuit	SAIDI Value	Major Cause
Oakdale	Highland	1384.1699	Line Down
Sublett	Gun Creek	370.7622	Pre-Arranged Maintenance
Hot Mix	Wrigley	337.9366	Equipment Failure
Crockett	Crockett	276.2323	Equipment Failure
Sublett	Gunlock	254.8288	Right-of-Way (Inside)
Sublett	Lakeville	228.7862	Consumer Caused
Sublett	Carver	184.3841	Right-of-Way (Outside)
Crockett	Williams Creek	178.2226	Right-of-Way (Inside)
Helechawa	Cannel City	176.4362	Right-of-Way (Outside)
Oakdale	Elkatawa	141.6928	Equipment Failure

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

Substation	Circuit	CAIDI Value	Major Cause
Maytown	Hazel Green	165.23	Line Down
Hot Mix	519	162.65	Equipment Failure
Crockett	Lenox	151.14	Pre-Arranged Maintenance
Crockett	Crockett	146.71	Equipment Failure
Hot Mix	Wrigley	140.95	Equipment Failure
Zachariah	Leeco	138.14	Unknown
Sublett	Carver	137.41	Equipment Failure
Campton	Elkins Road	135.85	Consumer Caused
Oakdale	Highland	128.68	Consumer Caused
Oakdale	War Creek	126.77	Right-of-Way (Inside)

System Wide SAIFI, SAIDI, and CAIDI for the past 5 years, Includes T'Med

	2013	2014	2015	2016	2017
SAIFI	2.3190	2.0962	2.2879	1.6367	2.4136
SAIDI	346.9492	352.2157	434.8157	207.9844	344.1047
CAIDI	149.61	168.02	190.05	127.07	142.57

System Wide SAIFI, SAIDI, and CAIDI for the past 5 years, Excludes T'Med

	2013	2014	2015	2016	2017
SAIFI	1.4116	1.4337	1.6890	1.1743	1.3105
SAIDI	159.7084	145.9446	203.4541	129.5736	137.2827
CAIDI	113.14	101.80	120.46	110.34	104.75

SAIFI Values for every circuit—excluding MED's

	2013	2014	2015	2016	2017	5 Year Average
Zachariah Substation						
Leeco Circuit	0.9186	1.3181	1.2010	1.4888	0.2611	1.0375
Pine Ridge Circuit	0.4538	3.0835	0.5303	0.7266	2.4993	1.4587
Oakdale Substation						
Athol Circuit	2.9824	0.6000	4.3652	1.2222	0.4068	1.9153
Highland Circuit	0.2245	7.6267	12.6854	1.4552	10.7568	6.5497
Elkatawa Circuit	2.6718	0.9886	1.3736	1.5467	1.3117	1.5785
War Creek Circuit	0.5990	1.2550	0.9173	0.9779	0.5867	0.8672
Helechawa Substation						
Hazel Green Circuit	3.2814	2.5088	0.7192	0.5908	1.4920	1.7184
Cannel City Circuit	2.6988	0.7062	1.2483	0.5183	1.7853	1.3914
Vancleve Circuit				4.0664	1.2929	
Belknap Circuit				1.2206	0.7396	
Hot Mix Substation						
Elkfork Circuit	2.2973	1.4415	3.6804	1.1761	0.8000	1.8791
Liberty Road Circuit	2.8494	2.2054	0.9178	0.0563	0.6250	1.3308
519 Circuit	0.7391	0.7000	1.1219	1.3728	0.5472	0.8962
Wrigley Circuit	0.7105	0.2411	1.1617	0.3063	2.3975	0.9634
Maggard Substation						
Rockhouse Circuit	0.4392	0.2137	0.6735	0.5629	0.5248	0.4828
Flat Fork Circuit	0.4392	0.5097	0.4614	0.7076	0.3314	0.4899
Lick Creek Circuit	2.2354	0.7139	0.9790	0.3612	0.5812	0.9741
Sublett Substation						
Carver Circuit	0.4014	0.8004	0.8995	0.2604	1.3418	0.7407
Lakeville Circuit	2.2320	0.7332	1.3910	1.9942	2.0751	1.6851
Gunlock Circuit	1.8941	0.9689	3.6553	1.4918	2.3189	2.0658
Gun Creek Circuit	1.0821	0.6415	4.8953	0.5595	4.2683	2.2893

SAIFI Values for every circuit—excluding MED's

	2013	2014	2015	2016	2017	5 Year Average
Campton Substation						
Pine Ridge Circuit	0.4929	2.8004	1.0703	0.9086	0.3879	1.1320
Stillwater Circuit	0.8740	0.9352	1.8557	0.5273	1.2634	1.0911
Vortex Circuit	5.8529	1.6862	1.5258	3.9019	1.0873	2.8108
Elkins Road Circuit	0.5366	1.3786	0.4539	3.1760	0.8887	1.2868
Index Substation						
Caney Circuit	0.6411	0.7513	0.8947	0.7251	0.9260	0.7876
Index Circuit	0.1522	0.2092	0.2229	0.8492	1.3290	0.5525
Mize Circuit	2.1503	4.9844	3.7369	2.7332	0.4073	2.8024
Prison Circuit	2.5000			0.5000	0.2500	0.6500
School Circuit			0.1666			0.0333
Maytown Substation						
Ezel Circuit	1.1263	0.6817	1.3606	0.5829	0.2437	0.799
Hazel Green Circuit	0.3044	0.7250	0.5722	0.5727	0.4821	0.5313
Pomeroyton Circuit	0.6180	2.2359	0.7363	1.1783	0.3437	1.0224
Crockett Substation						
Lenox Circuit	0.8022	0.3943	1.5215	0.4784	0.3038	0.7000
Williams Creek Circuit	1.5514	1.4069	1.1608	0.4027	1.6181	1.2280
Crockett Circuit	0.5584	1.0932	2.1979	1.0000	1.8828	1.3465

SAIDI Values for every circuit—excluding MED's

	2013	2014	2015	2016	2017	5 Year Average
Zachariah Substation						
Leeco Circuit	79.2519	110.4974	172.1195	192.5083	36.0694	118.0893
Pine Ridge Circuit	50.0656	261.3724	52.2862	76.9220	133.4572	114.8207
Oakdale Substation						
Athol Circuit	275.5752	69.3912	696.5217	276.7094	18.9322	267.4259
Highland Circuit	39.0838	1051.1060	2135.8053	161.4179	1384.1699	954.3166
Elkatawa Circuit	473.4478	159.7356	136.7890	128.9409	141.6928	208.1212
War Creek	59.5848	130.8586	74.5614	77.6871	74.3765	83.4137
Helechawa Substation						
Hazel Green Circuit	209.9984	222.6618	64.6960	60.6123	105.7902	132.7517
Cannel City Circuit	655.3190	82.2362	154.0432	54.2373	176.4362	224.4544
Vancleve Circuit				451.8839	129.6004	
Belknap Circuit				129.5499	92.9732	
Hot Mix Substation						
Elkfork Circuit	159.0446	65.5471	193.2707	120.6654	46.5714	117.0198
Liberty Road Circuit	238.7671	197.3288	48.3698	3.3803	56.0157	108.7723
519 Circuit	53.2608	51.8047	102.9759	136.3018	89.0025	86.6691
Wrigley Circuit	51.8837	28.4171	108.7686	27.5443	337.9366	110.9101
Maggard Substation						
Rockhouse Circuit	37.9821	69.9310	71.1169	68.2167	58.8829	61.2259
Flat Fork Circuit	127.7220	91.7345	42.4448	66.1081	37.6443	73.1307
Lick Creek Circuit	213.6774	78.1350	104.1343	29.7822	66.9253	98.5308
Sublett Substation						
Carver Circuit	51.3213	60.1401	107.0751	18.5645	184.3841	84.297
Lakeville Circuit	181.0622	87.5054	132.8783	351.2470	228.7862	196.2958
Gunlock Circuit	149.5475	125.5344	652.1632	333.3587	254.8228	303.0865
Gun Creek Circuit	95.6327	71.9811	866.0755	67.6786	370.7622	294.4260

SAIDI Values for every circuit--excluding MED's

	2013	2014	2015	2016	2017	5 Year Average
Campton Substation						
Pine Ridge Circuit	62.6224	94.1814	56.8558	101.1563	41.7274	71.3087
Stillwater Circuit	88.4797	112.6524	208.8360	44.5341	96.1985	110.1401
Vortex Circuit	551.1349	174.9289	293.2477	557.3380	90.2226	333.3744
Elkins Road Circuit	98.9338	178.0000	51.7021	220.0352	120.7291	133.8800
Index Substation						
Caney Circuit	48.9058	62.7513	70.4868	72.6010	66.3265	64.2143
Index Circuit	10.2208	20.8154	11.7956	68.9507	75.5798	37.4725
Mize Circuit	249.1704	412.1109	352.2212	159.5184	29.8132	240.5668
Prison Circuit	375.0000			71.2500	7.5000	90.7500
School Circuit			30.0000			6.0000
Maytown Substation						
Ezel Circuit	113.1528	84.9183	117.0970	54.1790	17.6252	77.3945
Hazel Green Circuit	32.7014	133.8972	76.3127	35.3710	79.6557	71.5876
Pomeroyton Circuit	74.0625	242.1235	53.5035	58.8554	20.0938	89.7277
Crockett Substation						
Lenox Circuit	32.3295	32.2571	94.0735	40.7669	45.9177	49.0689
Williams Creek Circuit	217.3212	86.2045	52.6992	42.6087	178.2226	115.4112
Crockett Circuit	54.2185	136.4512	99.1437	47.5911	276.2323	122.7274

Circuit Reporting

Circuits With SAIFI or SAIDI Value Higher Than 5 Year Average

Circuit Reporting

Circuit # 1

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

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

This circuit covers approximately 32.5 miles and serves approximately 282 consumers.

Last circuit trim was in 2013.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Equipment Failure	28%	22%
Consumer Caused	28%	31%
Unknown	23%	15%
Right-of-Way (Outside)	19%	30%
Animals	2%	2%

Circuit 5 Year Average SAIFI—.4828

Reporting Year, 2017, SAIFI—.5248

Circuit 5 Year Average SAIDI—61.2259

Reporting Year, 2017, SAIDI—58.8829

Equipment Failure is something beyond our control. Consumers Caused outages we can't control, but we do try to educate our consumers about watching out for power lines when working outside.

Circuit Reporting

Circuit # 2

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 71.4 miles of line and serves approximately 828 consumers.

Last circuit trim was in 2012.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Right-of-Way (Outside)	92%	92%
Pre-Arranged Maintenance	6%	5%
Equipment Failure	<1%	1%
Right-of-Way (Inside)	1%	1%
Unknown	1%	1%

Circuit 5 Year Average SAIFI—.7407

Reporting Year, 2017, SAIFI—1.3418

Circuit 5 Year Average SAIDI—84.2970

Reporting Year, 2017, SAIDI—184.3841

Right-of-Way problems outside of our clearing range is hard to control.

Circuit Reporting

Circuit # 3

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

Circuit # 2, Lakeville Circuit, this circuit serves areas of Lakeville, Mason Creek, Salyer Branch, Middle Fork, Fritz and Seitz.

This circuit has approximately 54.1 miles of line and serves approximately 519 consumers.

Last circuit trim was in 2012.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Consumer Caused	57%	49%
Right-of-Way (Outside)	36%	43%
Equipment Failure	3%	4%
Pre-Arranged Maintenance	2%	2%
Unknown	2%	2%

Circuit 5 Year Average SAIFI—1.6851

Reporting Year, 2017 SAIFI—2.0751

Circuit 5 Year Average SAIDI—196.2958

Reporting Year, 2017 SAIDI—228.7862

Consumer Caused outages is hard to control, but we do educate our consumers on the dangers of working too close to the power lines and always looking for lines when working outside.

Circuit Reporting

Circuit # 4

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 Branch, and Gypsy.

This circuit has approximately 101.8 miles of line and serves approximately 859 consumers.

Last circuit trim was in 2012.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Right-of-Way (Inside)	51%	49%
Right-of-Way (Outside)	25%	34%
Pre-Arranged Maintenance	11%	5%
Equipment Failure	6%	6%
Unknown	4%	3%
Consumer Caused	2%	2%
Animals	1%	1%

Circuit 5 Year Average SAIFI—20.658

Reporting Year, 2017, SAIFI—2.3189

Circuit 5 Year Average SAIDI—303.0865

Reporting Year, 2017, SAIDI—254.8288

We went back over this circuit and cut out hot spots in order to try preventing outages. This circuit is due to be cut out again in 2020.

Circuit Reporting

Circuit # 5

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

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

This circuit has approximately 9.7 miles of line and serves approximately 164 consumers.

Last circuit trim was in 2012.

Causes and percentages for this circuit:

Causes	% SAIFI	% SAIDI
Pre-Arranged Maintenance	46%	55%
Consumer Caused	43%	29%
Right-of-Way (Outside)	10%	15%
Unknown	1%	1%

Circuit 5 Year Average SAIFI—2.2893

Reporting Year, 2017, SAIFI—4.2683

Circuit 5 Year Average SAIDI—294.4260

Reporting Year, 2017, SAIDI—370.7622

In order to do necessary repairs to this circuit, the power needed to be off in order to complete work safely. This should reduce outage time for 2018.

Circuit Reporting

Circuit # 6

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 Fort, 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
Equipment Failure	56%	55%
Pre-Arranged Maintenance	25%	21%
Right-of-Way (Inside)	15%	18%
Right-Of-Way (Outside)	2%	1%
Unknown	1%	4%
Animals	1%	1%

Circuit 5 Year Average SAIFI—1.0911

Reporting Year, 2017, SAIFI—1.2634

Circuit 5 Year Average SAIDI—110.1401

Reporting Year, 2017, SAIDI—96.1985

Equipment Failure is something we have no control over.

Circuit Reporting

Circuit # 7

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 50.2 miles of line and serves approximately 334 consumers.

This circuit was cut out in 2015.

Causes and percentage for this circuit:

Cause	% SAIFI	% SAIDI
Equipment Failure	57%	60%
Consumer Caused	28%	25%
Line Down	9%	11%
Right-of-Way (Inside)	5%	3%
Unknown	1%	1%

Circuit 5 Year Average SAIFI—.5313

Reporting Year, 2017, SAIFI—.4821

Circuit 5 Year Average SAIDI—71.5876

Reporting Year, 2017, SAIDI—79.6557

Equipment Failure is something we have no control over.

Circuit Reporting

Circuit # 8

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

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

This circuit has approximately 98.2 miles of line and serves approximately 846 consumers.

Last hot spot trim was in 2013.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Pre-Arranged Maintenance	38%	17%
Unknown	18%	38%
Right-of-Way (Outside)	18%	11%
Consumer Caused	13%	13%
Animals	6%	11%
Line Down	5%	3%
Equipment Failure	2%	7%

Circuit 5 Year Average SAIFI—.8962

Reporting Year, 2017, SAIFI—.5472

Circuit 5 Year Average SAIDI—86.6691

Reporting Year, 2017, SAIDI—89.0025

The repairs that this circuit needed, required the power to be turned off in order to do the work safely. This being completed should reduce outage time in 2018.

Circuit Reporting

Circuit # 9

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 56.3 miles of line and serves approximately 395 consumers.

Las hot spot trim was in 2013.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Equipment Failure	78%	90%
Consumer Caused	17%	7%
Pre-Arranged Maintenance	2%	1%
Right-of-Way (Inside)	<1%	1%
Right-of-Way (Outside)	1%	<1%
Unknown	1%	1%
Animals	1%	1%

Circuit 5 Year Average SAIFI—.9634

Reporting Year, 2017, SAIFI—2.3975

Circuit 5 Year Average SAIDI—110.9101

Reporting Year, 2017, SAIDI—337.9366

Equipment Failure is something hard to control.

Circuit Reporting

Circuit # 10

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

Circuit # 2, Pine Ridge Circuit, this circuit serves areas of Hwy 11, Hwy 715, Big Andy, and Trentsville Road.

This circuit has approximately 70.1 miles of line and has approximately 665 consumers.

This circuit was cut out in 2017.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Consumer Caused	89%	80%
Animals	3%	4%
Pre-Arranged Maintenance	2%	2%
Right-of-Way (Inside)	2%	5%
Unknown	2%	4%
Equipment Failure	2%	5%

Circuit 5 Year Average SAIFI—1.4587

Reporting Year, 2017, SAIFI—2.4993

Circuit 5 Year Average SAIDI—114.8207

Reporting Year, 2017, SAIDI—133.4572

We continually educated our consumers about staying away from the power lines when working.

Circuit Reporting

Circuit # 11

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 59 consumers.

This circuit was cut out in 2016.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Line Down	59%	67%
Right-of-Way (Outside)	37%	25%
Consumer Caused	4%	8%

Circuit 5 Year Average SAIFI—6.5497

Reporting Year, 2017, SAIFI—10.7568

Circuit 5 Year Average SAIDI—954.3166

Reporting Year, 2017, SAIDI—1384.1699

Will have to do more extensive investigation on these Line Down outages to find the reason for the line to be down, in order to determine a true cause.

Circuit Reporting

Circuit # 12

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 36.5 miles of line and serves approximately 392 consumers.

Last hot spot trim was in 2011.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Pre-Arranged Maintenance	84%	82%
Animals	7%	5%
Equipment Failure	4%	7%
Right-of-Way Out	3%	3%
Unknown	2%	3%

Circuit 5 Year Average SAIFI—.7876

Reporting Year, 2017, SAIFI—.9260

Circuit 5 Year Average SAIDI—64.2143

Reporting Year, 2017, SAIDI—66.3265

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 2018.

Circuit Reporting

Circuit # 13

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

Circuit # 2, Index Circuit; this circuit serves areas of Index and Liberty Road.

This circuit has approximately 22.6 miles of line and serves approximately 307 consumers.

Last hot spot trim was in 2011.

Casuses and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Consumer Caused	40%	39%
Equipment Failure	40%	32%
Unknown	14%	19%
Pre-Arranged Maintenance	5%	9%
Animals	1%	1%

Circuit 5 Year Average SAIFI—.5525

Reporting Year, 2017, SAIFI—1.3290

Circuit 5 Year Average SAIDI—37.4725

Reporting Year, 2017, SAIDI—75.5798

We continually educated our consumers about watching out for the power lines when working outside.

Circuit Reporting

Circuit # 14

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

Circuit # 2, Williams Creek Circuit, this circuit serves areas of Williams Creek, Coffee Creek, Upper Sand Lick, and Lick Branch.

This circuit has approximately 69.4 miles of line and serves approximately 521 consumers.

Last hot spot trim was in 2010.

Causes and percentages for this circuit:

Causes	% SAIFI	% SAIDI
Right-of-Way (Inside)	50%	55%
Right-of-Way (Outside)	18%	23%
Pre-Arranged Maintenance	23%	11%
Unknown	7%	7%
Consumer Caused	2%	2%
Animals	<1%	2%

Circuit 5 Year Average SAIFI—1.2280

Reporting Year, 2017, SAIFI—1.6181

Circuit 5 Year Average SAIDI—115.4112

Reporting Year, 2017, SAIDI—178.2226

Since the Right-of-Way problem was within our cutting permission, we will have to schedule another trim for this circuit this year.

Circuit Reporting

Circuit # 15

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

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

This circuit has approximately 54.4 miles of line and serves approximately 495 consumers.

Last hot spot trim was in 2010.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Consumer Caused	31%	18%
Equipment Failure	18%	40%
Unknown	17%	9%
Right-of-Way (Inside)	16%	19%
Right-of-Way (Outside)	9%	9%
Pre-Arranged Maintenance	7%	3%
Line Down	1%	1%
Animals	1%	1%

Circuit 5 Year Average SAIFI—1.3465

Reporting Year, 2017, SAIFI—1.8828

Circuit 5 Year Average SAIDI—122.7274

Reporting Year, 2017, SAIDI—276.2323

We constantly educate our consumers on watching out for the power lines when they are working outside.

Circuit Reporting

Circuit # 16

Substation # 3, Helechawa Substation, located on Hwy 205 in Wolfe County, near exit 57 from Mountain Parkway.

Circuit # 2, Cannel City Circuit; this circuit serves areas of Upper Stacy Fork, Cannel City, Johnson Fork, Adele, and Cow Creek.

This circuit has approximately 104.9 miles of line and serves approximately 871 consumers.

This circuit is being cut out now.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Right-of-Way (Outside)	73%	71%
Pre-Arranged Maintenance	16%	9%
Right-of-Way (Inside)	4%	13%
Animals	3%	3%
Unknown	2%	2%
Equipment Failure	1%	1%
Consumer Caused	1%	1%

Circuit 5 Year Average SAIFI—1.3914

Reporting Year, 2017, SAIFI—1.7853

Circuit 5 Year Average SAIDI—224.4544

Reporting Year, 2017, SAIDI—176.4362

Outages due to Right-of-Way outside our cutting permission is hard to control.

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 sixty foot ground to sky right-of-way clearance on new and existing accounts; however some variety in right-of-way clearance is based on geography/terrain, easement widths, line voltages and property owner issues.

LVRECC is currently working on an eight (8) year rotation cycle. Two (2) crews run bucket trucks and chippers 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 time allows. 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 through August or September.