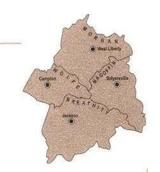


## LICKING VALLEY

RURAL ELECTRIC COOPERATIVE CORPORATION

P. O. Box 605 • 271 Main Street West Liberty, KY 41472-0605 (606) 743-3179



RECEIVED

FEB 0 4 2021

PUBLIC SERVICE COMMISSION

February 02, 2021

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 and Accountability Report for the year ending 2020.

If additional information is needed, please let us know.

Sincerely,

Chris Murphy

Superintendent of Operations

Chul Mouphy

CM:oh

Report prepared for:

LICKING VALLEY RURAL ELECTRIC COOPERATIVE CORPORATION

Prepared by:

Oneida Haney ohaney@lvrecc.com 606-743-7500 2020 Annual Reliability Report

## **Major Event Days**

SAIDI Value 81.2742

First Date Used to Determine T'Med------January 11, 2020

Last Date Used to Determine T'Med------December 28, 2020

Number of MED in Report Year----27

## **System Reliability Information and Results**

## **System-Wide Information**

Total consumers 17,449

**Total Circuits 36** 

## **System-Wide Results**

## **Excluding MED**

Repor	ting Year	5 Year Average
SAIDI	163.5087	158.0978
SAIFI	1.2360	1.2715

## Including MED

Reporting Year		5 Year Average
SAIDI	244.7829	345.0291
SAIFI	1.5720	1.8802

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

Substation	Circuit	SAIFI Value	Major Cause
Crockett	Lenox	5.0001	Pre-Arranged Maintenance
Campton	Vortex	3.9983	Right-of-Way Outside
Zachariah	Pine Ridge	2.9072	Equipment Failure
Sublett	Gunlock	2.7970	Right-of-Way Outside
Oakdale	Highland	2.3011	Equipment Failure
Sublett	Gun Creek	2.0526	Pre-Arranged Maintenance
Oakdale	War Creek	2.0284	Pre-Arranged Maintenance
Oakdale	Athol	1.6969	Consumer Caused
Maytown	Hazel Green	1.6499	Equipment Failure
Zachariah	Leeco	1.6358	Line Down

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

Substation	Circuit	SAIDI Value	Major Cause
Crockett	Lenox	640.7659	Pre-Arranged Maintenance
Sublett	Gunlock	567.3185	Right-of-Way Outside
Oakdale	Highland.	431.1307	Equipment Failure
Campton	Vortex	429.3910	Right-of-Way Outside
Maggard	Flat Fork	428.8311	Right-of-Way Outside
Helechawa	Vancleve	322.9164	Right-of-Way Outside
Oakdale	War Creek	305.6805	Equipment Failure
Zachariah	Pine Ridge	296.1998	Equipment Failure
Zachariah	Leeco	249.3124	Right-of-Way Outside
Sublett	Gun Creek	221.6705	Right-of-Way Outside

## Ten Worst Performing Circuits and Major Outage Category Without T'Med for CAIDI Value:

Substation	Circuit	CAIDI Value	Major Cause
Index	School	467.71	Animals
Maggard	Flat Fork	302.40	Right-of-Way Outside
Index	Mize	273.99	Equipment Failure
Helechawa	Vancleve	257.73	Right-of-Way Outside
Sublett	Gunlock	202.83	Right-of-Way Outside
Oakdale	Highland	187.36	Equipment Failure
Zachariah	Leeco	153.35	Consumer Caused
Oakdale	War Creek	150.70	Right-of-Way Outside
Index	Index	131.58	Right-of-Way Outside
Crockett	Lenox	128.15	Unknown

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

	2016	2017	2018	2019	2020
SAIFI	1.6367	2.4136	1.9134	1.8651	1.5720
SAIDI	207.9844	344.1047	639.5972	288.6765	244.7829
CAIDI	127.07	142.57	334.27	154.78	155.71

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

	2016	2017	2018	2019	2020
SAIFI	1.1743	1.3105	1.2702	1.3666	1.2360
SAIDI	129.5736	137.2827	160.9228	199.2011	163.5087
CAIDI	110.34	104.76	126.69	145.76	132.29

	SAII	SAIFI Values for every circuitexcluding MED's				Care of the Care o
				Ĭ		
	2016	2017	2018	2019	2020	5 Year Average
Zachariah Substation						
Leeco Circuit	1.4888	0.2611	0.3501	0.5092	1.6358	0.8490
Pine Ridge Circuit	0.7266	2.4993	1.3175	0.5434	2.9072	1.5988
Oakdale Substation						
Athol Circuit	1.2222	0.4068	2.9459	0.4444	1.6969	1.3432
Highland Circuit	1.4552	10.7568	2.6707	1.5678	2.3011	3.7503
Elkatawa Circuit	1.5467	1.3612	3.3194	1.5809	0.5623	1.6743
War Creek Circuit	0.9779	0.5867	5.2537	1.4309	2.0284	2.0555
Helechawa Substation						
Hazel Green Circuit	0.5908	1.4920	1.9453	0.4243	0.9485	1.0802
Cannel City Circuit	0.5183	1.7853	1.7799	1.0218	0.4262	1.1063
Vancleve Circuit	4.0664	1.2929	0.4336	1.8284	1.2529	1.7748
Belknap Circuit	1.2206	0.7396	1.3609	0.7515	0.6321	0.9409
Hot Mix Substation						
Ełkfork Circuit	1.1761	0.8000	2.5055	0.4372	1.4267	1.2691
Liberty Road Circuit	0.0563	0.6250	0.6032	1.9100	0.3594	0.7108
519 Circuit	1.3728	0.5472	0.5887	1.5832	0.4907	0.9169
Wrigley Circuit	0.3063	2.3975	0.4231	1.2819	0.6056	1.0029
Maggard Substation						N sa sa
Rockhouse Circuit	0.5629	0.5248	0.7949	1.9780	1.3380	1.0397
Flat Fork Circuit	0.7076	0.3314	1.5774	2.2500	1.4181	1.2569
Lick Creek Circuit	0.3612	0.5812	0.5544	1.9020	1.0066	0.8811
Sublett Substation						
Carver Circuit	0.2604	1.3418	1.1130	3.3363	1.5111	1.5125
Lakeville Circuit	1.9942	2.0751	0.9908	1.5474	1.6177	1.6450
Gunlock Circuit	1.4918	2.3189	0.5558	2.8331	2.7970	1.9993
Gun Creek Circuit	0.5595	4.2683	0.7791	2.0000	2.0526	1.9319
				221 (2.32		
Land growth to						

			SAIF	I Values for every	circuitexcludin	g MED's		
<del></del>								
			2016	2017	2018	2019	2020	5 Year Average
Campte	on Substation							
<del></del>	Pine Ridge	Circuit	0.9086	0.3879	0.2123	1.6990	0.1412	0.6698
	Stillwater (	Circuit	0.5273	1.2634	0.5061	0.5015	0.4813	0.6559
	Vortex Circ	uit	3.9019	1.0873	2.5260	2.9414	3.9983	2.891
	Elkins Road	Circuit	3.1760	0.8887	0.2582	1.2886	1.2360	1.369
Index S	ubstation							
	Caney Circ	uit	0.7251	0.9260	0.2871	0.7388	0.3090	0.5972
	Index Circu		0.8492	1.3290	0.3914	0.7563	1.0104	0.8673
-	Mize Circui	it	2.7332	0.4073	1.4606	1.7000	0.3314	1.326
-	Prison Circ	uit	0.5000	0.2500	0.2500	0.2500	0.0000	0.2500
	School Circ	uit	0.0000		2.2500	0.0000	0.2858	1.2679
Mayto	wn Substation							
	Ezel Circuit	;	0.5829	0.2437	0.5912	0.7644	0.4329	0.5230
	Hazel Gree	n Circuit	0.5727	0.4821	1.0955	0.4268	1.6499	1.6499
	Pomeroyto	n Circuit	1.1783	0.3437	0.7174	0.3842	0.7354	0.6718
Crocke	tt Substation							
	Lenox Circu	ıit	0.4784	0.3038	1.1250	0.5200	5.0001	1.4855
	Williams Co	reek Circuit	0.4027	1.6181	2.0132	1.2519	1.4080	1.3388
	Crockett Ci	rcuit	1.0000	1.8828	1.1099	0.5974	0.8379	1.0856
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		SA	DI Values for eve	ry circuitexclud	ling MED's		
					Ĭ		-
		2016	2017	2018	2019	2020	5 Year Average
Zachariah Subst	tation						
Leec	o Circuit	192.5083	36.0694	43.9629	85.3105	249.3124	121.432
Pine	Ridge Circuit	76.9220	133.4572	84.3900	47.1292	296.1998	127.619
Oakdale Substa	ition						
Atho	ol Circuit	276.7094	18.9322	613.8018	45.6464	149.6722	220.952
High	land Circuit	161.4179	1384.1699	468.9761	346.7570	431.1307	558.490
Elkat	tawa Circuit	128.9409	141.6928	119.3921	287.0601	59.7770	147.3720
War	Creek	77.6871	74.3765	1100.6547	208.2741	305.6805	353.3346
Helechawa Sub	station						
Haze	el Green Circuit	60.6123	105.7902	160.5718	36.1004	113.9638	95.4077
Canr	nel City Circuit	54.2373	176.4362	227.7424	125.8715	25.9594	122.0494
Vano	cleve Circuit	451.8839	129.6004	55.4974	140.2859	322.9164	220.036
Belki	nap Circuit	129.5499	92.9732	162.1656	64.9142	72.3454	104.3897
Hot Mix Substa	tion						
Elkfo	ork Circuit	120.6654	46.5714	201.3891	29.4883	86.7816	96.9792
Liber	rty Road Circuit	3.3803	56.0157	35.9048	101.6900	26.9795	44.794
519	Circuit	136.3018	89.0025	83.7567	108.8872	46.1658	92.8228
Wrig	ley Circuit	27.5443	337.9366	34.7898	134.4418	64.0268	119.7479
Maggard Substa	ation						
Rock	house Circuit	68.2167	58.8829	313.0755	127.0147	118.7632	137.190
Flat	Fork Circuit	66.1081	37.6443	267.9869	259.2112	428.8311	211.9563
Lick (	Creek Circuit	29.7822	66.9253	110.0528	417.8670	96.0014	144.125
Sublett Substat	ion						
Carv	er Circuit	18.5645	184.3841	98.9872	1287.4192	184.9559	354.8622
Lake	ville Circuit	351.2470	228.7862	106.3564	357.5572	117.2039	232.230
Gunlock Circuit		333.3587	254.8228	65.3942	372.2949	567.3185	318.6378
Gun	Creek Circuit	67.6786	370.7622	66.4233	204.4740	221.6705	186.2017
							<del></del>

		SA	AIDI Values for ever	ry circuitexcludii	ng MED's		
		2016	2017	2018	2019	2020	5 Year Average
<b>Campton Sul</b>	ostation	V .					
Pi	ne Ridge Circuit	101.1563	41.7274	33.5112	111.4313	10.8499	59.7352
St	illwater Circuit	44.5341	96.1985	52.5457	92.0354	47.0074	66.4642
Ve	ortex Circuit	557.3380	90.2226	252.4380	280.1667	429.3910	321.9113
EI	kins Road Circuit	220.0352	120.7291	21.1634	101.6542	156.8476	124.0859
Index Substa	tion						
Ca	aney Circuit	72.6010	66.3265	38.4080	86.6418	31.5979	59.1150
In	dex Circuit	68.9507	75.5798	44.1217	52.6201	132.9455	74.8436
M	lize Circuit	159.5184	29.8132	338.1005	97.9194	90.7994	143.2302
Pr	rison Circuit			188.0000	27.7500		
Sc	chool Circuit			2.2500		133.6309	67.9405
Maytown Su	bstation						
Ez	el Circuit	54.179	17.6252	100.6312	94.4000	29.1172	59.1905
Ha	azel Green Circuit	35.371	79.6557	144.5493	43.0548	123.9489	85.3159
Po	omeroyton Circuit	58.8554	20.0938	93.3734	35.6158	71.8441	55.9565
Crockett Sub	station				3 36		
Le	enox Circuit	40.7669	45.9177	167.8000	49.8800	640.7659	189.0261
W	/illiams Creek Circuit	42.6087	178.2226	249.0188	146.0522	141.8807	151.5566
Cr	rockett Circuit	47.5911	276.2323	160.9704	61.9824	87.6890	126.8930

Circuits With SAIFI or SAIDI Value Higher Than 5 Year Average

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
Equipment Failure	46%	45%
Right-of-Way Out	35%	43%
Pre-Arranged Maintenance	13%	5%
Line Down	2%	2%
Consumer Caused	1%	1%
Animals	1%	1%
Unknown	1%	2%
Other	1%	1%
Right-of-Way In	>1%	>1%
Fire	>1%	>15

Circuit 5 Year Average SAIFI—1.5988

Reporting Year, 2020, SAIFI—2.9072

Circuit 5 Year Average SAIDI—127.6196

Reporting Year, 2020, SAIDI-296.1998

Equipment Failure is beyond our control.

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

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

This circuit has approximately 29.9 miles of line and serves approximately 358 consumers.

This circuit was cut out in 2017.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Line Down	59%	17%
Right-of-Way Outside	28%	52%
Pre-Arranged Maintenance	6%	3%
Equipment Failure	4%	12%
Consumer Caused	2%	15%
Unknown	1%	1%
Animals	>1%	>1%

Circuit 5 Year Average SAIFI--.8490

Reporting Year, 2020, SAIFI-1.6358

Circuit 5 Year Average SAIDI—121.4327

Reporting Year, 2020, SAIDI—249.3124

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

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 17.6 miles of line and serves approximately 111 consumers.

This circuit was cut out in 2016.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Consumer Caused	66%	66%
Pre-Arranged Maintenance	20%	18%
Unknown	9%	10%
Animals	4%	4%
Equipment Failure	1%	2%

Circuit 5 Year Average SAIFI—1.3432

Reporting Year, 2020, SAIFI—1.6969

Circuit 5 Year Average SAIDI—220.9524

Reporting Year, 2020, SAIDI—149.6722

We have articles in Magazines and Newspapers and Radio to educate our consumers about watching for power line when they are working outside. We also do Safety Demonstrations at the Annual Meeting and during Community Days in each County.

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

Circuit # 1; Hazel Green Circuit; this circuit serves areas of Helechawa, Hazel Green, Red River, and Lacy Creek.

This circuit has approximately 83.4 miles of line and serves approximately 696 consumers.

Last circuit trim was in 2019.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Pre-Arranged Maintenance	74%	67%
Consumer Caused	17%	28%
Animals	4%	3%
Right-of-Way Out	3%	2%
Unknown	1%	>1%
Line Down	>1%	>1%
Equipment Failure	>1%	>1%

Circuit 5 Year Average SAIFI—1.0802

Reporting Year, 2020, SAIFI--.9485

Circuit 5 Year Average SAIDI—95.4077

Reporting Year, 2020, SAIDI-113.9638

In order to complete necessary repairs safely, serviceman had to turn power off until repairs were completed.

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

Circuit # 3; Vancleve Circuit, this circuit serves areas of Rt 205 in Wolfe & Breathitt Counties, Trent Fork, Greenbriar Road, Shockey Fork, Pegg Fork, Hwy 1812 N, Hwy 15N, and Hounshell Road.

This circuit has approximately 65.4 miles of line and serves approximately 684 consumers.

Last circuit trim was in 2018.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Right-of-Way Outside	85%	94%
Pre-Arranged Maintenance	6%	3%
Consumer Caused	5%	2%
Animals	2%	1%
Unknown	1%	>1%
Equipment Failure	1%	>1%

Circuit 5 Year Average SAIFI—1.7748

Reporting Year, 2020, SAIFI—1.2529

Circuit 5 Year Average SAIDI—220.0368

Reporting Year, 2020, SAIDI—322.9164

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 275 consumers.

Last circuit trim was in 2020.

#### Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Right-of-Way Outside	71%	67%
Pre-Arranged Maintenance	13%	12%
Animals	12%	12%
Unknown	2%	3%
Equipment Failure	1%	2%
Right-of-Way Crew	1%	1%
Line Down	>1%	2%
Consumer Caused	>1%	1%
Right-of-Way Inside	>1%	>1%

Circuit 5 Year Average SAIFI—1.2691

Reporting Year, 2020, SAIFI—1.4267

Circuit 5 Year Average SAIDI—96.9792

Reporting Year, 2020, SAIDI-86.7816

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

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

This circuit has approximately 32.5 miles of line and serves approximately 278 consumers.

Last circuit trim was in 2013.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Right-of-Way Outside	75%	75%
Pre-Arranged Maintenance	13%	6%
Animals	12%	18%
Equipment Failure	>1%	1%
Unknown	>1%	>1%

Circuit 5 Year Average SAIFI—1.0397

Reporting Year, 2020, SAIFI-1.3380

Circuit 5 Year Average SAIDI—137.1906

Reporting Year, 2020, SAIDI—118.7632

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

Circuit # 2; Flat Fork Circuit; this circuit serves areas of Coon Creek, Mud Lick, Flat Fork, Mine Ford and Litteral.

This circuit has approximately 43 miles of line and serves approximately 535 consumers.

This circuit was cut out in 2013.

Causes and percentages for this circuit.

Cause	%SAIFI	%SAIDI
Right-of-Way Outside	73%	90%
Unknown	11%	5%
Pre-Arranged Maintenance	11%	1%
Animals	4%	2%
Equipment Failure	1%	2%

Circuit 5 Year Average SAIFI—1.2569

Reporting Year, 2020, SAIFI—1.4181

Circuit 5 Year Average SAIDI—211.9563

Reporting Year, 2020, SAIDI—428.8311

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

Circuit # 3; Lick Creek Circuit; this circuit serves areas of Lick Creek Road, Buffalo, Brushy Fork and Cripple Creek.

This circuit has approximately 48.5 miles of line and serves approximately 606 consumers.

Last circuit trim was in 2013.

Causes and percentages for this circuit:

Cause	% SAIFI	%SAIDI
Equipment Failure	32%	20%
Unknown	31%	28%
Pre-Arranged Maintenance	22%	22%
Right-of-Way Outside	8%	22%
Right-of-Way Inside	4%	5%
Animals	2%	2%
Consumer Caused	1%	1%

Circuit 5 Year Average SAIFI--.8811

Reporting Year, 2020, SAIFI-1.0066

Circuit 5 Year Average SAIDI—144.1257

Reporting Year, 2020, SAIDI—96.0014

We have no control over failure of Equipment.

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 875 consumers.

This circuit was cut out in 2012.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Right-of-Way Outside	45%	64%
Equipment Failure	21%	16%
Pre-Arranged Maintenance	20%	10%
Animals	7%	4%
Right-of-Way Inside	6%	5%
Unknown	1%	1%

Circuit 5 Year Average SAIFI—1.9993

Reporting Year, 2020, SAIFI-2.7970

Circuit 5 Year Average SAIDI—318.6378

Reporting Year, 2020, SAIDI—567.3185

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

Circuit # 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	56%	26%
Right-of-Way Out	44%	74%
Unknown	>1%	>1%

Circuit 5 Year Average SAIFI-1.9319

Circuit 5 Year Average SAIDI—186.2017

Reporting Year, 2020, SAIFI-2.0526

Reporting Year, 2020, SAIDI—221.6705

In order to do necessary repairs safely, serviceman had to turn power off until repairs were completed.

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

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

This circuit has approximately 83 miles of line and serves approximately 546 consumers.

This circuit was cut out in 2015.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Right-of-Way Outside	55%	34%
Right-of-Way Inside	27%	27%
Pre-Arranged Maintenance	10%	5%
Consumer Caused	5%	7%
Unknown	2%	2%
Animals	1%	24%
Equipment Failure	>1%	1%

Circuit 5 Year Average SAIFI—2.8910

Reporting Year, 2020, SAIFI—3.9983

Circuit 5 Year Average SAID!—321.9113

Reporting Year, 2020, SAIDI—429.3910

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

Circuit # 4, Elkins Road, this circuit serves areas of Sandy Ridge, Mullins Point, Elkins Road and Bear Pen.

This circuit has approximately 34.6 miles of line and serves approximately 298 consumers.

This circuit was cut out in 2015.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Pre-Arranged Maintenance	42%	37%
Unknown	25%	30%
Equipment Failure	14%	21%
Right-of-Way Outside	9%	5%
Right-of-Way Inside	5%	3%
Animals	4%	2%
Line Down	1%	2%

Circuit 5 Year Average SAIFI—1.3695

Reporting Year, 2020, SAIFI—1.2360

Circuit 5 Year Average SAIDI—124.0859

Reporting Year, 2020, SAIDI—156.8476

In order for necessary repairs to be made safely, the power had to be turned off until all repairs were completed.

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 279 consumers.

Last time circuit was trimmed was in 2011.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Right-of- Way Outside	57%	65%
Right-of-Way Inside	22%	20%
Pre-Arranged Maintenance	13%	10%
Equipment Failure	4%	3%
Animals	3%	1%
Unknown	1%	1%

Circuit 5 Year Average SAIFI--.8673

Reporting Year, 2020, SAIFI—1.0104

Circuit 5 Year Average SAIDI—74.8436

Reporting Year, 2020, SAIDI—132.9455

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

Circuit # 5, School Circuit; this circuit serves the Morgan County High School, Middle School, Vocational School, Football Field, Gym, and Storm Shelter.

This circuit has approximately ½ mile of line and serves 6 accounts.

Last time circuit was trimmed was in 2020.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Animals	50%	97%
Pre-Arranged Maintenance	50%	3%

Circuit 5 Year Average SAIFI—1.2679

Reporting Year, 2020, SAIFI--.2858

Circuit 5 Year Average SAIDI—67.9405

Reporting Year, 2020, SAIDI—133.6309

We have no control over outages caused by animals.

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 335 consumers.

This circuit was cut out in 2015.

Causes and percentages for this circuit;

Cause	% SAIFI	% SAIDI
Equipment Failure	59%	44%
Right-of-Way Outside	22%	35%
Unknown	5%	6%
Pre-Arranged Maintenance	5%	4%
Right-of-Way Inside	4%	5%
Animals	3%	4%
Consumer Caused	2%	2%
Fire	>1%	>1%

Circuit 5 Year Average SAIFI--.8454

Reporting Year, 2020, SAIFI—1.6499

Circuit 5 Year Average SAIDI—78.9492

Reporting Year, 2020, SAIDI—123.9489

We have no control over outages caused by Equipment Failure.

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

Circuit # 3, Pomeroyton Circuit; this circuit serves areas of Rt. 1010, Pine Branch, Landsaw, Long Branch, Pomeroyton and Broke Leg.

This circuit has approximately 51.9 miles of line and serves approximately 445 consumers.

This circuit was cut out in 2015.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Equipment Failure	30%	41%
Right-of-Way Outside	30%	28%
Pre-Arranged Maintenance	28%	19%
Unknown	9%	10%
Consumer Caused	2%	1%
Animals	1%	1%

Circuit 5 Year Average SAIFI--.6718

Reporting Year, 2020, SAIFI--.7354

Circuit 5 Year Average SAIDI—55.9565

Reporting Year, 2020, SAIDI—71.8441

We have no control over outages caused by Equipment Failure.

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

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

This circuit has approximately 20.9 miles of line and serves approximately 160 consumers.

Cutting out circuit now.

Causes and percentages for this circuit:

Cause	% SAIFI	% SAIDI
Pre-Arranged Maintenance	82%	76%
Right-of-Way Outside	16%	22%
Consumer Caused	1%	1%
Equipment Failure	1%	>1%
Unknown	>1%	1%
Right-of-Way Crew	>1%	>1%

Circuit 5 Year Average SAIFI—1.4855

Reporting Year, 2020, SAIFI—5.0001

Circuit 5 Year Average SAIDI—189.0261

Reporting Year, 2020, SAIDI—640.7659

In order for necessary repairs to be made safely the power had to be turned off until all repairs were completed. In addition to general line maintenance, we did some reconductoring on several taps on this circuit.

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 Sandlick and Lick Branch.

This circuit has approximately 69.4 miles of line and serves approximately 532 consumers.

Cutting out circuit now.

Causes and percentages for this circuit:

Causes	% SAIFI	% SAIDI
Pre-Arranged Maintenance	39%	23%
Right-of-Way Crew	22%	21%
Right-of-Way Inside	11%	20%
Line Down	10%	10%
Right-of-Way Outside	7%	16%
Unknown	6%	6%
Equipment Failure	2%	1%
Animals	2%	1%
Consumer Caused	1%	2%

Circuit 5 Year Average SAIFI—1.3388

Reporting Year, 2020, SAIFI—1.4080

Circuit 5 Year Average SAIDI—151.5566

Reporting Year, 2020, SAIDI—141.8807

#### **Vegetation Management Plan**

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 (60) 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, line voltages and property owner issues. At this time B M C Contracting is contracted to cut or trim 20' on each side of the line.

LVRECC is currently working on an eight (8) year rotation cycle. B M C Contracting has a bid crew that is cutting each Substation by Circuit. They also have an hourly crew that cuts hot spots, new right-of-way and consumer requests. 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 Contracting primarily does our Herbicide Treatment, mostly in the months of May through September. As time allows the cooperative does some Herbicide Treatment.