

**COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION**

In the Matter of:

**ELECTRONIC INVESTIGATION)
INTO THE MEASURING,)
RECORDING, AND REPORTING OF) CASE NO. 2018-00394
WATER LOSS BY KENTUCKY'S)
JURISDICTIONAL WATER)
UTILITIES)**

**RESPONSE OF
SIMPSON COUNTY WATER DISTRICT
TO
COMMISSION'S REQUEST FOR INFORMATION
DATED DECEMBER 18, 2018**

FILED: January 15, 2019

**COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION**


In the Matter of:

ELECTRONIC INVESTIGATION)	
INTO THE MEASURING,)	
RECORDING, AND REPORTING OF)	CASE NO. 2018-00394
WATER LOSS BY KENTUCKY'S)	
JURISDICTIONAL WATER)	
UTILITIES)	

**CERTIFICATION OF RESPONSE OF
SIMPSON COUNTY WATER DISTRICT
TO
COMMISSION'S REQUEST FOR INFORMATION**

This is to certify that I have supervised the preparation of Simpson County Water District's Response to the Commission's Request for Information. The response submitted on behalf of Simpson County Water District is true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.

Date: 1/15/19



John M. Dix, General Manager
Simpson County Water District

SIMPSON COUNTY WATER DISTRICT

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 1

Responding Witness: John M. Dix

- Q-1. Explain in detail the manner in which you measure, calculate, and track water loss, and:
- a. Identify whether you use any manual form (including Excel spreadsheet) or electronic or mechanized system to calculate and track water loss.
 - b. Provide a copy of any form used (including Excel spreadsheet).
 - c. Identify the source of any form or system used.
- A-1. Simpson County Water District (SCWD) purchases water wholesale from its' supplier, White House Utility District (WHUD) and distributes the water into ten district metered areas (DMAs). Each DMA has a master meter that measures the volume of water supplied into the area. For each DMA, the following information is collected and reported monthly on the SCWD's Statistics by Metering Location Report:
- Water Purchased
 - Water Sold
 - Total Water Lost
 - Own Use Water
 - Accounted for Water
 - Unaccounted for Water
 - PSC Water Loss Percentage

Total Water Lost is calculated as the difference between water purchased and water sold. Own Use Water is the sum of water used for flushing, fire protection, and tank maintenance. Accounted for Water is the sum of water lost and attributed to specific main line leaks, service line leaks, and tank overflows. Unaccounted for Water is calculated as follows: Total Water Lost less Own Use Water less Accounted for Water. PSC Water Loss Percentage is calculated as follows: (Total Water Lost less Own Use Water) divided by Water Purchased.

Q-1 a. District's spreadsheets for tracking water loss calculation sheet in Excel.

Q-1 b. See attached Exhibit 1

Q-1 c. District created form and system.

SIMPSON COUNTY WATER DISTRICT

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 2

Responding Witness: John M. Dix

Q-2. Explain in detail your understanding of the information to be provided in each of the categories on the Water Statistics page (reference page 30) of the annual report required of jurisdictional water utilities, accessed through the Commission's website.

A-2. Water Statistics (reference Page 30)

1. This section includes all water produced and purchased.
2. Total water produced.
3. Total water purchased.
4. Total amount of gallons produced and purchased.
6. This section represents the Total of water sold to system customers.
7. Total of water sold to Residential Customers only.
8. Total of water sold to Commercial Customers only.
9. Total of water sold to Industrial Customers only.
10. Total water sold through a Bulk Loading Station.
11. Total of water resold.
12. Other water sold not included in lines 7-11.
13. Total of all Water Sold.
15. The section represents all Other Water that is Used.
16. Water used for water treatment purposes.
17. Water used for wastewater treatment plant purposes.
18. Estimated water used for flushing.
19. Estimated water used for Fire Department usage.
20. Estimated water used for meter testing, weather related events, and other system issues.
21. Total of water used for Other Usages is totaled here.
23. Water Loss.
24. Estimated water lost due to tank overflows.
25. Estimated water loss due to line breaks.
26. Estimated water loss due to line leaks.
27. Other estimated water loss not included on Line 24 through Line 26.
28. Total estimated water loss.
32. Water Loss Percentage.
33. Total Water Loss Percentage as a percentage of Total Water Produced or Purchased.

SIMPSON COUNTY WATER DISTRICT

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 3

Responding Witness: John M. Dix

Q-3. State any questions you have regarding how to use the updated Commission Form described and attached as Appendix A to this Order.

A-3. The District does not have any questions.

SIMPSON COUNTY WATER DISTRICT

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 4

Responding Witness: John M. Dix

Q-4. State any suggestions or improvements you have for the updated Commission Form described and attached as Appendix A to this Order.

A-4. Simpson County Water District suggests that water loss from Excavation Damages (line 26 on Appendix A) resulting from no fault of the utility be allowed to be accounted for in Other Water Used.

The District also suggests that water loss from Theft (line 27 on Appendix A) be allowed to be accounted for in Other Water Used. Water lost through theft is similar water sold but not paid for.

SIMPSON COUNTY WATER DISTRICT

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 5

Responding Witness: John M. Dix

- Q-5. State any questions you have regarding how the information in the updated Commission Form described and attached as Appendix A to this Order is to be incorporated into annual reports.
- A-5. The District does not have any questions.

SIMPSON COUNTY WATER DISTRICT

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 6

Responding Witness: John M. Dix

- Q-6. State any concerns you have regarding the use of the updated Commission Form described and attached as Appendix A to this Order.
- A-6. Simpson County Water District understands the desire and need of the Commission to establish standards for reporting water loss from all jurisdictional utilities. The District further acknowledges that water loss is one of *many* evaluation tools that should be used to evaluate the operational efficiency of a utility. There are many facets to water loss beyond leaks that contribute to water loss such as customer and purchase meter accuracy, billing system accuracy, and inherent system losses due to geographical and topographical configuration as noted by the American Water Works Association (AWWA) in its Water Audit Software. The 15% water loss guideline for rate making was arbitrarily established decades ago. Similar to what was established with meter testing through KRS 278.210 Subsection (4), water loss should be evaluated based on what is most cost effective for the utility and its customers in lieu of a fixed 15%. The AWWA Water Audit Software is the closest tool that provides those considerations.

Furthermore, the District contends that the Commission is inappropriately extrapolating the use of the "15%" water loss baseline to a position where it cites utilities for deficiencies such as "*Utility is failing to operate its facilities so as to provide adequate and safe service to its customers as required by 807 KAR 5:066, Section 7, due to water loss exceeding 15 percent.*" (i.e., Simpson County Water District – July 3, 2017 and Butler County Water System, Inc. – March 9, 2018). The District contends that this is clearly not the intent of regulations. Section 6 of 807 KAR 5:066 clearly addresses how water loss is to be utilized by the Commission. Paragraph (3) of this section states "...for rate making purposes a utility's unaccounted-for water loss shall not exceed fifteen (15) percent of total water produced and purchased, excluding water used by a utility in its own operations." **The regulations are very clear that water loss is to be considered for rate cases only.**

SIMPSON COUNTY WATER DISTRICT

CASE NO. 2018-00394

Response to Commission's Request for Information

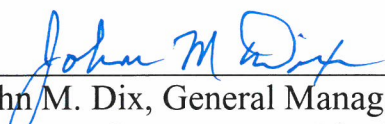
Question No. 7

Responding Witness: John M. Dix

- Q-7. State whether you believe it is reasonable, proper, and appropriate for the Commission to require jurisdictional water utilities to maintain and use the updated Commission Form described and attached as Appendix A to this Order. Fully explain your answer
- A-7. Simpson County Water District believes it is reasonable, proper, and appropriate for the Commission to establish standards for water loss reporting and require utilities to use and maintain the standard reporting method. The District has suggested modifications to the proposed methodology suggested by the Commission in its responses to Questions 4 and 6 herein.

CERTIFICATE OF SERVICE

In accordance with 807 KAR 5:001, Section 8, I certify that Simpson County Water District's electronic filing of this Response is a true and accurate copy of the same document being filed in paper medium; that the electronic filing was transmitted to the Public Service Commission on January 15, 2019; that there are currently no parties that the Public Service Commission has excused from participation by electronic means in this proceeding; and that an original paper medium of this Response will be delivered to the Public Service Commission within two business days.



John M. Dix, General Manager
Simpson County Water District

EXHIBIT 1

SIMPSON COUNTY WATER DISTRICT
 Statistics By Metering Location
December 2017

For Reporting Period Of:

Report Status:

Date:

FINAL
3/24/2018

Master Meter Code	Source Description	Billing Cycle	Leak Detection Date	Leak Detection Leaks(Mo)	Leak Detection Leaks(Yr)	Read Dates		Water Purchased (Gals)		Water Sold (Gals)		Total Lost (Gals)		Own Use (Gals)		Accounted For (Gals)		Unaccounted For (Gals)		Unaccounted %		PSC %		MM Source
						From	To	Month	Year	Month	Year	Month	Year	Month	Year	Month	Year	Month	Year	Month	Year	Month	Year	
50	Pilot Knob	2	10/16/17	N/A	N/A	10/18/17	11/15/17	4,100,000	44,440,000	2,535,790	34,526,740	1,564,210	9,913,260	3,000	190,700	1,044,000	5,215,200	517,210	4,507,360	12.6%	10.1%	38.1%	21.9%	Pilot
51	Highway 31W North	2	03/29/17	N/A	N/A	10/19/17	11/16/17	3,522,750	50,311,440	2,501,590	36,526,350	1,021,160	13,785,090	-	1,269,500	604,800	5,948,880	416,360	6,566,710	11.5%	13.1%	29.0%	24.9%	31W N.
52	Highway 100 East	4	02/10/15	N/A	N/A	10/24/17	11/21/17	3,811,000	53,256,400	3,441,470	47,233,450	369,530	6,022,950	2,250	391,837	-	1,759,200	367,280	3,871,913	9.6%	7.3%	9.6%	10.6%	100 E
52A	Hickory Flat	4	05/24/17	N/A	N/A	10/24/17	11/21/17	1,453,600	21,925,300	1,268,440	17,482,020	185,160	4,443,280	-	767,186	-	988,560	185,160	2,687,534	12.7%	12.3%	12.7%	16.8%	Hickory
52B	Rapids	4	09/19/14	N/A	N/A	10/23/17	11/22/17	542,400	8,764,400	497,830	6,699,240	44,570	2,065,160	-	1,327,920	-	1,327,920	44,570	737,240	8.2%	8.4%	8.2%	23.6%	Rapids
53	Blackjack	6	02/20/17	N/A	N/A	10/30/17	11/28/17	2,571,710	31,148,270	1,712,590	22,467,260	859,120	8,681,010	35,400	210,600	509,760	5,729,880	313,960	2,740,530	12.2%	8.8%	32.0%	27.2%	Blackjack
54	Gold City Road	8	12/15/15	N/A	N/A	11/01/17	11/30/17	1,900,000	25,828,700	1,697,050	22,470,440	202,950	3,418,260	-	182,925	853,200	202,950	2,382,135	10.7%	9.2%	10.7%	12.5%	Gold City	
55	Highway 31W South	10	03/18/15	N/A	N/A	11/09/17	12/07/17	8,541,000	122,969,000	6,183,030	99,736,360	2,357,970	23,232,640	-	3,393,330	3,074,400	10,612,800	(716,430)	9,226,510	-8.4%	7.5%	27.6%	16.1%	31W S.
56	Highway 100 West	14	04/10/17	N/A	N/A	11/14/17	12/13/17	2,602,000	37,133,000	2,121,400	29,496,220	480,600	7,636,780	-	3,363	-	3,373,920	480,600	4,259,497	18.5%	11.5%	18.5%	20.6%	100W
58	Middleton	14	02/05/15	N/A	N/A	11/13/17	12/12/17	555,000	7,181,000	475,570	6,019,590	79,430	1,141,410	11,950	47,950	-	296,640	67,480	796,820	12.2%	11.1%	12.2%	15.3%	Middleton
	Totals							29,599,460	402,937,510	22,434,760	322,597,670	7,164,700	80,339,840	52,600	6,457,391	5,232,960	36,106,200	1,879,140	37,776,249			9.4%	18.3%	
	% of Purchased							100.0%	100.0%	75.8%	80.1%	24.2%	19.9%	0.18%	1.60%	17.7%	9.0%	6.3%	9.4%	6.3%	9.4%	24.0%	18.3%	

SIMPSON COUNTY WATER DISTRICT
 Input - Statistics By Metering Locations
 For Year 2017

ENTER Master Meter Readings.

	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
1000	810489	817910	825440	833013	839422	847102	854900	865219
-1000	306764	311280	315945	320764	324820	329695	334635	341256
-1000	18024	16413	16577	16785	17047	17394	17678	18131
1000	36034	36034	36431	37061	37555	38087	38583	39119
1000	28874	26632	27204	27755	28061	28356	28654	28982
1000	309931	311280	316179	320764	325014	329909	334877	341480
1000	16413	16413	16584	16785	17066	17412	17702	18148
1000	36034	36034	36460	37061	37571	38102	38596	39129
-1000	25903	26632	27230	27755	28063	28364	28659	28966
100	59397	60387	61387	62387	63387	64387	65387	66387
100	7924	7924	7924	7924	7924	7924	7924	7924
100	1929	1929	1929	1929	1929	1929	1929	1929
100	25657	25657	25657	25657	25657	25657	25657	25657
100	150707	151480	152235	152944	153384	154087	154703	155521
-1000	219865	223377	226939	229904	232193	235295	238115	241645
1000	2098723	2106999	2120040	2130463	2139934	2151550	2162648	2172765
-1000	760959	784579	792649	792649	796033	800296	804355	809048
-100	4448354	4477487	4506549	4532194	4553787	4575091	4591598	4608048
100	4448354	4477487	4506549	4532194	4553787	4575091	4591598	4608048
-100	501342	509792	520863	528926	535241	543826	551078	558049
100	501342	510304	521125	529180	535472	543485	551078	557359
1000	781791	785453	789213	793118	796648	800398	804948	809857
1000	151064	151767	152359	152981	153535	154195	155009	155697
-100	328354	3302119	3323666	3344108	3363081	3385025	3409351	3431123
10	221474	224803	227483	230396	232852	235762	239357	242447
100	3285496	3304084	3326625	3346009	3357410	3389655	3411013	3437110
-100	1103	1103	1103	1103	1103	1103	1103	1103
100	12416	12416	12416	12416	12416	12416	12416	12416
1000	4042960	4066615	4089985	4110413	4135737	4161838	4189507	4218272
100	0	0	0	0	0	0	0	0
-1000	2104374	2115285	2125771	2134435	2145197	2156338	2167577	2179425
-1000	718899	722359	725929	729198	733209	737898	743271	749222
-100	9	9	9	9	9	9	9	9
100	0	0	0	0	0	0	0	0
1000	2106997	2114320	2122197	2127276	2134692	2142134	2150051	2158381
-1000	719868	722777	727047	729979	734056	739890	744226	749805
1000	817440	824255	832558	839827	845499	853886	863261	873537
-1000	45106	45704	46301	46718	47267	47860	48490	49142
Usage	7,421,000	7,530,000	7,573,000	7,573,000	7,573,000	7,680,000	7,798,000	10,319,000
Usage	(4,526,000)	(4,665,000)	(4,819,000)	(4,819,000)	(4,819,000)	(4,875,000)	(4,940,000)	(6,621,000)
Usage	(388,000)	(164,000)	(208,000)	(208,000)	(208,000)	(262,000)	(282,000)	(455,000)
Usage	758,000	397,000	630,000	630,000	630,000	532,000	486,000	536,000
Usage	4,349,000	4,899,000	4,585,000	4,585,000	4,250,000	4,895,000	4,988,000	6,603,000
Usage	370,000	171,000	201,000	201,000	281,000	346,000	290,000	446,000
Usage	-	(426,000)	(601,000)	(601,000)	(510,000)	(531,000)	(494,000)	(533,000)
Usage	(725,000)	(598,000)	(625,000)	(625,000)	(308,000)	(301,000)	(295,000)	(227,000)
Usage	-	-	-	-	-	-	195,100	120,300
Usage	-	-	-	-	-	-	-	-
Usage	(785,000)	(745,000)	(609,000)	(609,000)	(540,000)	(703,000)	(616,000)	(818,000)
Usage	(35,120)	(35,620)	(28,650)	(28,650)	(23,890)	(31,020)	(28,200)	(35,300)
Usage	10,276,000	11,041,000	10,423,000	10,423,000	9,471,000	11,616,000	11,098,000	10,137,000
Usage	(3,620,000)	(4,263,000)	(3,807,000)	(3,807,000)	(3,384,000)	(4,263,000)	(4,069,000)	(3,693,000)
Usage	(2,913,300)	(2,906,200)	(2,564,500)	(2,564,500)	(2,159,300)	(2,530,400)	(2,507,700)	(236,100)
Usage	2,913,300	2,906,200	2,564,500	2,564,500	2,159,300	2,530,400	2,597,800	262,400
Usage	(945,000)	(1,109,100)	(804,300)	(804,300)	(631,500)	(898,500)	(725,200)	(697,100)
Usage	896,200	1,082,100	805,500	805,500	629,200	799,300	761,300	628,100
Usage	3,662,000	3,760,000	3,905,000	3,905,000	3,530,000	3,750,000	4,550,000	3,909,000
Usage	703,000	592,000	622,000	622,000	564,000	660,000	814,000	688,000
Usage	(1,876,500)	(2,154,700)	(2,044,200)	(2,044,200)	(1,895,300)	(2,196,400)	(2,432,600)	(2,177,200)
Usage	1,859,800	1,859,800	1,938,400	1,938,400	2,140,100	2,224,500	2,135,800	2,609,700
Usage	23,655,000	23,370,000	23,428,000	23,428,000	25,324,000	26,101,000	27,669,000	28,765,000
Usage	(10,911,000)	(10,486,000)	(8,665,000)	(8,665,000)	(10,761,000)	(11,141,000)	(11,239,000)	(11,846,000)
Usage	(3,460,000)	(3,570,000)	(3,269,000)	(3,269,000)	(4,011,000)	(4,699,000)	(5,373,000)	(5,951,000)
Usage	7,415,000	7,877,000	5,079,000	5,079,000	7,416,000	7,442,000	7,917,000	8,330,000
Usage	2,909,000	4,270,000	2,932,000	2,932,000	4,077,000	4,834,000	5,336,000	5,679,000
Usage	(6,816,000)	(8,302,000)	(5,469,000)	(5,469,000)	(7,472,000)	(8,387,000)	(9,375,000)	(10,276,000)
Usage	(518,000)	(597,000)	(417,000)	(417,000)	(549,000)	(593,000)	(630,000)	(652,000)

SIMPSON COUNTY WATER DISTRICT
 Input - Statistics By Metering Locations
 For Year 2017

S:\LEAK DETECTION\Water Loss Reports\SCWD Water Loss - Prior Years\SCWD Water Loss 2017 \ INPUT
 1/8/2019 at 11:52 AM

	1000	45170	45721	45755	400,000	47259	495,000	47882	632,000	48545	664,000	49165	619,000
TOTALS - Master Meter Readings	30,347,670	31,359,580	28,835,780	30,997,270	32,919,980	34,546,250	35,690,700	32,919,980	34,546,250	35,690,700	32,919,980	34,546,250	35,690,700
ENTER Reading Adjustments (Gals):													
50 Pilot Knob	-	-	-	-	-	-	-	-	-	-	-	-	-
51 Highway 31W North	575,960	-	-	-	-	-	-	-	-	-	-	-	-
52 Highway 100 East	-	-	-	-	-	-	-	-	-	-	-	-	-
52A Hickory Flat	-	-	-	-	-	-	-	-	-	-	-	-	-
52B Rapids Road	(280,000)	-	-	-	-	-	-	-	-	-	-	-	-
53 Blackjack	-	-	-	-	-	-	-	-	-	-	-	-	-
54 Gold City Road	-	-	-	-	-	-	-	-	-	-	-	-	-
55 Highway 31W South	-	-	-	-	-	-	-	-	-	-	-	-	-
56 Highway 100 West	-	-	-	-	-	-	-	-	-	-	-	-	-
58 Middleton	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTALS - Adjustments to Readings	295,960	-	-	-	-	-	-	-	-	-	-	-	236,700

CALCULATION - Water Purchased (Gals):

	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
50 Pilot Knob	3,264,000	3,670,000	3,727,000	2,891,000	3,285,000	3,370,000	4,007,000
51 Highway 31W North	3,747,840	3,265,380	3,022,350	3,149,110	3,674,880	4,019,900	5,556,000
52 Highway 100 East	3,742,700	3,871,800	4,051,500	3,927,700	4,837,600	4,450,100	4,083,000
52A Hickory Flat	2,068,300	1,797,100	1,760,200	1,527,800	1,656,900	1,872,800	1,926,900
52B Rapids Road	616,200	1,082,100	805,500	629,200	799,300	761,300	628,100
53 Blackjack	2,521,790	2,224,100	2,213,360	2,242,700	2,242,700	2,967,350	2,450,700
54 Gold City Road	1,859,800	2,263,100	1,938,400	2,140,100	2,224,500	2,135,800	2,609,700
55 Highway 31W South	9,284,000	9,314,000	8,494,000	10,552,000	10,271,000	11,087,000	10,966,000
56 Highway 100 West	2,988,000	3,248,000	2,125,000	3,472,000	3,296,000	3,248,000	3,081,000
58 Middleton	551,000	634,000	400,000	495,000	632,000	664,000	619,000
TOTALS - Water Purchased	30,643,630	31,359,580	28,835,780	30,997,270	32,919,980	34,546,250	35,927,400

ENTER Master Meter Reading Dates:

	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
50 Pilot Knob	1/15/16	1/17/17	02/20/17	03/20/17	04/19/17	05/18/17	06/18/17	06/18/17
51 Highway 31W North	1/15/16	01/19/17	02/20/17	03/21/17	04/20/17	05/19/17	06/20/17	06/20/17
52 Highway 100 East	1/22/16	01/23/17	02/23/17	03/23/17	04/23/17	05/23/17	06/23/17	06/23/17
52A Hickory Flat	1/22/16	01/23/17	02/23/17	03/23/17	04/23/17	05/23/17	06/23/17	06/23/17
52B Rapids Road	1/22/16	01/24/17	02/24/17	03/24/17	04/24/17	05/24/17	06/24/17	06/24/17
53 Blackjack	1/28/16	01/28/17	02/27/17	03/28/17	04/28/17	05/30/17	06/28/17	06/28/17
54 Gold City Road	1/20/16	01/31/17	03/02/17	04/03/17	05/03/17	06/01/17	07/06/17	07/06/17
55 Highway 31W South	1/20/16	02/09/17	03/07/17	04/07/17	05/09/17	06/08/17	07/10/17	07/10/17
56 Highway 100 West	1/21/16	02/20/17	03/14/17	04/13/17	05/15/17	06/13/17	07/13/17	07/13/17
58 Middleton	1/12/16	02/21/17	03/16/17	04/12/17	05/17/17	06/15/17	07/14/17	07/14/17

ENTER Water Sold (Gals):

	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
50 Pilot Knob	2,436,290	2,667,860	2,284,900	2,697,460	2,697,460	2,769,960	3,430,750
51 Highway 31W North	2,177,700	2,414,410	2,360,880	2,860,880	2,860,880	3,126,740	4,123,310
52 Highway 100 East	3,357,960	3,466,620	3,708,590	3,539,640	4,153,690	4,124,720	3,900,280
52A Hickory Flat	1,244,160	1,524,890	1,295,770	1,159,900	1,460,240	1,416,600	1,689,980

SIMPSON COUNTY WATER DISTRICT
 Input - Statistics By Metering Locations
 For Year 2017

S:\LEAK DETECTION\Water Loss Reports\SCWD Water Loss - Prior Years\SCWD Water Loss 2017 \ INPUT
 1/8/2019 at 11:52 AM

Location	522,290	471,060	602,600	605,390	559,070
52B Rapids Road	1,705,510	1,640,470	1,691,480	2,189,080	1,991,600
53 Blackjack	1,675,910	1,924,520	1,711,670	1,901,070	2,268,140
54 Gold City Road	5,839,960	9,445,140	8,880,050	8,361,390	9,644,810
55 Highway 31W South	1,821,100	2,236,810	2,777,520	2,847,330	2,599,680
56 Highway 100 West	420,190	421,060	494,550	503,920	487,660
58 Middleton	21,896,180	25,484,480	27,392,390	27,848,220	30,695,280
TOTALS - Water Sold					

ENTER Leak Detection Dates & No. of Leaks Found By Leak Detection:

Location	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
50 Pilot Knob	N/A	N/A	N/A	N/A	N/A	N/A	N/A
51 Highway 31W North	N/A	10/04/16	10/04/16	03/29/17	05/28/16	03/29/17	05/28/16
52 Highway 100 East	N/A	02/10/15	02/10/15	02/10/15	02/10/15	02/10/15	02/10/15
52A Hickory Flat	N/A	05/24/14	05/24/15	05/24/15	05/24/15	05/24/15	05/24/15
52B Rapids Road	N/A	09/19/14	09/19/14	09/19/14	09/19/14	09/19/14	09/19/14
53 Blackjack	N/A	03/30/16	12/15/15	02/20/17	02/20/17	02/20/17	12/15/15
54 Gold City Road	N/A	12/15/15	12/15/15	12/15/15	12/15/15	12/15/15	12/15/15
55 Highway 31W South	N/A	03/18/15	03/18/15	03/18/15	03/18/15	03/18/15	03/18/15
56 Highway 100 West	N/A	11/03/15	11/03/15	11/03/15	04/10/17	04/10/17	04/10/17
58 Middleton	N/A	02/05/15	02/05/15	02/05/15	02/05/15	02/05/15	02/05/15
TOTALS - No. of Leaks Found By Leak Detection							

ENTER Own Use (Gals):

Location	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
50 Pilot Knob	29,000	-	-	108,000	21,000	-	-
51 Highway 31W North	500,000	-	1,800	500,000	111,600	-	-
52 Highway 100 East	35,000	-	-	3,320	45,200	162,587	2,700
52A Hickory Flat	744,196	-	1,800	3,600	17,590	-	-
52B Rapids Road	-	-	-	-	-	-	-
53 Blackjack	-	-	-	-	-	-	-
54 Gold City Road	-	-	-	-	-	-	-
55 Highway 31W South	69,080	1,308,000	1,803,400	177,850	132,925	118,500	56,700
56 Highway 100 West	-	-	1,000	-	2,363	-	-
58 Middleton	-	-	-	-	-	-	-
TOTALS - Water for Own Use	1,376,276	1,308,000	1,808,000	798,770	330,678	281,067	59,400

SIMPSON COUNTY WATER DISTRICT
 Input - Statistics By Metering Locations
 For Year 2017

ENTER Accounted For (Gals):

	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
50 Pilot Knob	-	1,071,360	964,960	265,080	-	146,880	256,320
51 Highway 31W North	230,400	47,520	-	208,800	419,040	678,960	1,219,680
52 Highway 100 East	79,200	-	-	-	-	-	129,600
52A Hickory Flat	-	-	155,400	158,400	-	184,400	7,200
52B Rapids Road	74,880	433,680	247,680	108,000	187,200	-	-
53 Blackjack	475,080	656,640	776,160	482,400	292,320	648,120	60,480
54 Gold City Road	-	259,200	802,080	561,600	120,000	-	51,840
55 Highway 31W South	190,080	387,200	-	1,080,000	1,296,000	2,512,800	36,000
56 Highway 100 West	331,200	-	120,960	-	-	259,200	108,000
58 Middleton	-	-	-	-	-	125,280	55,160
TOTALS - Water Accounted For	1,383,840	2,835,600	3,090,240	2,885,280	2,314,560	4,565,640	1,925,280

SIMPSON COUNTY WATER DISTRICT
 Input - Statistics By Metering Locations
 For Year 2017

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 1/9/2019 at 11:52 AM

ENTER Master Meter Readings:

	Aug-17	Sept-17	Oct-17	Nov-17	Dec-17	Usage
	Reading	Reading	Reading	Reading	Reading	Usage
1 Pilot Knob (Prev Allen Rd)	875393	886740	894986	904731	913000	8,269,000
Vances Mill - Forward	347768	354992	360219	366355	371586	(5,231,000)
Stevenson Rd - Forward	18642	19007	19181	19346	19420	(74,000)
Vances Mill - Reverse	39040	38929	40269	40799	41285	466,000
Stevenson Rd - Reverse	29028	29193	29557	30130	30800	670,000
2 Highway 31W North @ Allen Road:						
Vances Mill - Forward	347768	354198	360400	366595	371762	5,167,000
Stevenson Rd - Forward	18642	18971	19188	19349	19423	74,000
Vances Mill - Reverse	39440	39786	40286	40815	41282	(467,000)
Stevenson Rd - Reverse	29028	29176	29573	30159	30822	(663,000)
Starks Road \ WC	68387	68387	68387	68387	68387	-
Starks Road \ SC	11078	11078	11597	11772	11866	9,400
Springfield Road \ WC	1929	1929	1929	1929	1929	-
Springfield Road \ SC	25657	25657	25657	25657	25657	-
Salmons Road	156216	157052	157817	158458	159029	(571,000)
Salmons Road 2	244721	248509	252232	255272	257937	(26,650)
3 Highway 100 East @ I-65:						
Blackjack	812682	817220	821100	825624	829283	9,448,000
Hickory Flat	4566795	4569775	4571984	4575024	4577002	(3,659,000)
4 Hickory Flats:						
Rapids	4566795	4569850	4572057	4575024	4577002	197,800
Rapids	564651	572765	579224	586542	591786	(524,400)
5 Rapids						
Rapids	564910	572765	579458	586362	591786	542,400
6 Blacklack:						
Salmons Road	813198	817984	821948	826411	830249	3,838,000
Gold City Road	156511	157346	157980	158691	159293	602,000
Salmons Road 2	3455859	3482063	3501475	3523548	3542512	(1,896,400)
Salmons Road 2	246075	249882	253053	256370	259181	28,110
7 Gold City Road:						
Goodrum Road \ WC	3461365	3483391	3505546	3524763	3543763	1,900,000
Goodrum Road \ SC	1103	1103	1103	1103	0	-
Goodrum Road \ SC	12416	12416	12416	12416	0	-
8 Highway 31W South (State Line)						
Highway 31W South (State Line)	4249089	4276255	4305995	4332873	4355141	22,268,000
Highway 100 East @ I-65	2191862	2203119	2216251	2227329	2238780	(9,451,000)
Witt Road Control Valve	755190	760206	765904	771429	775705	(4,276,000)
Portland Utilities	9	9	9	9	9	-
Simpson County Water District	0	0	0	0	0	-
9 Highway 100W @ Prices Mill						
Highway 31W North @ Allen Road	2167709	2175935	2183217	2190871	2197295	6,424,000
Witt Road Control Valve	756236	761509	766662	772270	776523	4,253,000
Pilot Knob	894559	893961	893967	912669	920182	(7,513,000)
Middleton	49969	50735	51242	51792	52354	(662,000)

SIMPSON COUNTY WATER DISTRICT
 Input - Statistics By Metering Locations
 For Year 2017

S:\LEAK DETECTION\Water Loss Reports\SCWD Water Loss\SCWD Water Loss - Prior Years\SCWD Water Loss 2017 \ INPUT
 1/9/2019 at 11:52 AM

10	Middleton	50027	862,000	50733	708,000	51225	490,000	51775	551,000	52331	555,000	
TOTALS - Master Meter Readings												
			39,778,920	OK	37,421,990	OK	34,216,880	OK	37,006,970	OK	29,599,460	
ENTER Reading Adjustments (Gals):												
50	Pilot Knob	Aug-17	-		Sep-17	-	Oct-17	-	Nov-17	-	Dec-17	-
51	Highway 31W North		-			-						-
52	Highway 100 East		(2,552,400)		(2,682,000)	(1,988,100)	(1,780,200)	(2,736,000)	(1,780,200)	(1,780,200)	(1,780,200)	-
52A	Hickory Flat		2,233,800		2,749,500	1,986,300	2,670,300	2,670,300	2,670,300	2,670,300	2,670,300	-
52B	Rapids Road		-		-	-	-	-	-	-	-	-
53	Blackjack		-		-	-	-	-	-	-	-	-
54	Gold City Road		-		-	-	-	-	-	-	-	-
55	Highway 31W South		-		-	-	-	-	-	-	-	-
56	Highway 100 West		-		-	-	-	-	-	-	-	-
58	Middleton		-		-	-	-	-	-	-	-	-
TOTALS - Adjustments to Readings												
			(318,600)		67,500	(1,800)	(1,800)	(1,800)	(65,700)		-	

CALCULATION - Water Purchased (Gals):

50	Pilot Knob	Aug-17	3,605,000	50733	708,000	51225	490,000	51775	551,000	52331	555,000
TOTALS - Water Purchased											
			39,460,320	OK	37,489,490	OK	34,215,080	OK	36,943,270	OK	29,599,460

ENTER Master Meter Reading Dates:

50	Pilot Knob	Aug-17	# of Days	Read Date	Sep-17	# of Days	Read Date	Oct-17	# of Days	Read Date	Nov-17	# of Days	Read Date	Dec-17	# of Days
50	Pilot Knob	07/18/17	29	08/21/17	34	09/18/17	28	10/18/17	30	11/15/17	30	12/12/17	28	12/12/17	29
51	Highway 31W North	07/18/17	28	08/17/17	30	09/19/17	33	10/19/17	30	11/16/17	30	12/13/17	28	12/13/17	28
52	Highway 100 East	07/24/17	28	08/23/17	30	09/20/17	28	10/24/17	34	11/21/17	34	12/19/17	28	12/19/17	28
52A	Hickory Flat	07/24/17	28	08/24/17	31	09/21/17	28	10/24/17	33	11/21/17	33	12/19/17	28	12/19/17	28
52B	Rapids Road	07/25/17	32	08/24/17	30	09/22/17	29	10/23/17	31	11/22/17	31	12/20/17	30	12/20/17	30
53	Blackjack	07/27/17	29	08/28/17	32	09/28/17	29	10/30/17	34	11/28/17	34	12/26/17	29	12/26/17	29
54	Gold City Road	08/02/17	27	08/30/17	28	10/02/17	33	11/01/17	30	11/30/17	30	12/28/17	28	12/28/17	28
55	Highway 31W South	08/08/17	29	09/07/17	30	10/09/17	32	11/09/17	31	12/07/17	31	12/28/17	28	12/28/17	28
56	Highway 100 West	08/14/17	32	09/15/17	32	10/13/17	28	11/14/17	32	12/13/17	32	12/13/17	28	12/13/17	28
58	Middleton	08/16/17	33	09/18/17	30	10/12/17	27	11/13/17	32	12/11/17	32	12/11/17	28	12/11/17	28

ENTER Water Sold (Gals):

50	Pilot Knob	Aug-17	3,079,140	50733	708,000	51225	490,000	51775	551,000	52331	555,000
TOTALS - Water Sold											
			3,079,140	OK	3,790,570	OK	2,732,590	OK	3,119,730	OK	2,635,790
51	Highway 31W North		3,610,450		4,189,480		3,607,200		3,272,360		2,601,590
52	Highway 100 East		4,117,050		4,168,840		4,128,380		5,108,210		3,441,470
52A	Hickory Flat		1,529,380		1,652,300		1,306,690		1,931,690		1,269,440

SIMPSON COUNTY WATER DISTRICT
 Input - Statistics By Metering Locations
 For Year 2017

S:\LEAK DETECTION\Water Loss Reports\SCWD Water Loss\SCWD Water Loss - Prior Years\SCWD Water Loss 2017 - INPUT
 1/8/2019 at 11:52 AM

	606,759	673,109	508,659	559,396	487,830
52B Rapids Road	2,121,510	2,294,260	1,859,500	2,151,520	1,712,590
53 Blackjack	2,057,850	2,024,940	2,037,290	1,618,060	1,697,050
54 Gold City Road	10,841,190	9,716,060	8,966,290	8,175,410	6,183,030
55 Highway 31W South	3,076,750	2,596,800	2,285,590	2,429,470	2,121,400
56 Highway 100 West	790,070	525,140	447,690	498,490	475,570
58 Middleton	31,830,120	31,631,490	27,877,230	28,855,320	22,434,760
TOTALS - Water Sold					

ENTER Leak Detection Dates & No. of Leaks F

	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
	Detect Date	Detect Date	Detect Date	Detect Date	Detect Date
	# of Leaks	# of Leaks	# of Leaks	# of Leaks	# of Leaks
50 Pilot Knob	05/26/16	05/26/16	10/16/17	10/16/17	10/18/17
51 Highway 31W North	03/29/17	03/29/17	03/29/17	03/29/17	03/29/17
52 Highway 100 East	02/10/15	02/10/15	02/10/15	02/10/15	02/10/15
52A Hickory Flat	05/24/15	05/24/15	05/24/17	05/24/17	05/24/17
52B Rapids Road	09/19/14	09/19/14	09/19/14	09/19/14	09/19/14
53 Blackjack	02/20/17	02/20/17	02/20/17	02/20/17	11/30/17
54 Gold City Road	12/15/15	12/15/15	12/15/15	12/15/15	12/15/15
55 Highway 31W South	03/18/15	03/18/15	03/18/15	03/18/15	11/13/17
56 Highway 100 West	04/10/17	04/10/17	04/10/17	04/10/17	04/10/17
58 Middleton	02/05/15	02/05/15	02/05/15	02/05/15	02/05/15

TOTALS - No. of Leaks Found By Leak D

	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
50 Pilot Knob	-	-	-	29,700	3,000
51 Highway 31W North	156,100	-	-	-	-
52 Highway 100 East	34,600	-	-	100,000	2,250
52A Hickory Flat	-	-	-	-	-
52B Rapids Road	-	-	-	-	35,400
53 Blackjack	-	-	-	-	-
54 Gold City Road	50,000	-	-	36,000	-
55 Highway 31W South	-	-	-	-	-
56 Highway 100 West	-	36,000	-	-	11,950
58 Middleton	-	-	-	-	-
TOTALS - Water for Own Use	240,900	36,000	-	165,700	52,600

ENTER Own Use (Gals.):

SIMPSON COUNTY WATER DISTRICT
 Input - Statistics By Metering Locations
 For Year 2017

ENTER Accounted For (Gals.)

	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
50 Pilot Knob	521,280	234,720	21,600	648,000	1,044,000
51 Highway 31W North	1,396,800	494,880	492,480	155,520	604,800
52 Highway 100 East	643,200	-	172,800	734,400	-
52A Hickory Flat	15,120	370,080	11,520	73,440	-
52B Rapids Road	-	-	138,240	138,240	-
53 Blackjack	210,240	400,320	792,000	423,360	509,760
54 Gold City Road	243,360	172,800	6,000	-	-
55 Highway 31W South	34,560	100,800	168,480	1,468,800	3,074,400
56 Highway 100 West	352,800	103,680	688,760	328,320	-
58 Middleton	-	115,200	-	-	-
TOTALS - Water Accounted For	3,417,360	1,992,480	2,492,880	3,970,080	5,232,960