

WATER PRODUCTION/WHOLESALE PURCHASE REPORT 2019

<u>WATER PROD & PURCHASED</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>YTD TOTALS</u>
WATER PLANT PRODUCTION	78,859,000	59,462,000	74,683,000	71,336,000	75,119,000	67,172,000	70,927,000	73,485,000	72,735,000	76,428,000	76,521,000	72,549,000	869,276,000
BACKWASH (GALLONS)	356,595	356,595	1,737,404	1,737,404	2,732,007	2,430,304	2,424,968	2,221,864	2,496,736	2,582,544	2,729,248	3,293,920	25,099,589
AVERAGE DAILY PRODUCTION	2,543,839	1,918,129	2,409,129	2,301,161	2,423,194	2,166,839	2,287,968	2,370,484	2,346,290	2,465,419	2,550,700	2,418,300	2,350,121
MINIMUM DAILY PRODUCTION	2,187,000	360,000	2,115,000	1,735,000	1,600,000	0,000	874,000	1,935,000	2,169,000	1,635,000	2,359,000	831,000	1,483,333
MAXIMUM DAILY PRODUCTION	2,738,000	2,808,000	2,579,000	2,610,000	2,785,000	2,683,000	2,626,000	2,598,000	2,599,000	2,592,000	2,806,000	2,711,000	2,677,917
TOTAL PRODUCTION	78,502,405	59,105,405	72,945,596	69,598,596	72,386,993	64,741,696	68,502,032	71,263,136	70,238,264	73,845,456	73,791,752	69,255,080	844,176,411
TOTAL PURCHASED	64,947,997	66,378,200	55,370,000	55,157,300	62,991,100	54,192,500	65,085,900	65,588,000	64,251,000	61,616,000	57,078,400	64,079,700	738,436,097
TOTAL PURCHASED & PRODUCED	143,150,402	127,483,605	128,315,596	124,755,896	135,378,093	118,934,196	133,587,932	136,851,136	134,489,264	135,461,456	130,870,152	133,334,780	1,582,612,508
COST OF PURCHASED WATER/1,000 GAL.	\$ 1.68	\$ 1.68	\$ 1.68	\$ 1.68	\$ 1.68	\$ 1.68	\$ 1.68	\$ 1.68	\$ 2.30	\$ 2.30	\$ 2.30	\$ 2.30	\$ 2.30
COST OF PRODUCED WATER/1,000 GAL.	\$ 0.88	\$ 1.41	\$ 1.08	\$ 1.90	\$ 1.14	\$ 1.40	\$ 1.15	\$ 1.36	\$ 0.96	\$ 0.97	\$ 0.88	\$ 0.94	\$ 1.17

MARROWBONE WATER PLANT:

TURBIDITY (NTU):

	<u>YTD AVERAGES</u>												
AVERAGE DAILY TURBIDITY	0.10	0.11	0.12	0.10	0.10	0.16	0.17	0.14	0.13	0.13	0.13	0.13	0.13
MINIMUM DAILY TURBIDITY	0.05	0.00	0.06	0.00	0.06	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.03
MAXIMUM DAILY TURBIDITY	0.42	0.29	0.23	0.32	0.24	0.58	0.35	0.23	0.19	0.28	0.24	0.30	0.31

CHLORINE:

(FREE RESIDUAL IN MG/L)

AVERAGE DAILY RESIDUAL	1.8	2.0	1.7	1.6	2.0	1.8	1.9	1.9	1.9	1.8	1.9	1.8	1.9
MINIMUM DAILY RESIDUAL	1.6	1.6	1.5	1.2	1.6	1.5	1.6	1.6	1.6	1.4	1.7	1.2	1.5
MAXIMUM DAILY RESIDUAL	2.5	2.8	2.1	2.4	2.5	2.3	2.8	2.2	2.1	2.4	2.3	2.4	2.4

FLUORIDE (MG/L):

AVERAGE DAILY RESIDUAL	0.9	1.0	0.3	0.3	0.4	0.4	0.7	0.7	0.7	0.5	0.5	0.5	0.6
MINIMUM DAILY RESIDUAL	0.8	0.8	0.2	0.2	0.3	0.3	0.6	0.5	0.5	0.4	0.3	0.4	0.4
MAXIMUM DAILY RESIDUAL	1.1	1.1	0.5	0.5	0.6	0.7	0.9	1.0	1.1	0.5	0.5	0.8	0.8

PH (ACIDITY):

AVERAGE PH	7.0	7.7	7.9	8.0	7.9	7.5	8.0	8.1	8.1	8.2	8.3	8.0	7.9
MINIMUM PH	7.5	7.5	7.7	7.5	7.5	7.8	7.7	7.5	8.0	8.0	8.0	7.7	7.7
MAXIMUM PH	7.9	7.9	8.1	8.1	8.1	8.3	8.1	8.3	8.3	8.4	8.4	8.3	8.2

BACTERIOLOGICAL SAMPLES TESTED	52	52	52	52	52	52	52	52	52	52	52	52	624
EXCURSION OF PARAMETERS	NONE FOR THE PERIOD	NONE FOR THE PERIOD	NONE FOR THE PERIOD	NONE FOR THE PERIOD	NONE FOR THE PERIOD	NONE FOR THE PERIOD	NONE FOR THE PERIOD	NONE FOR THE PERIOD	NONE FOR THE PERIOD	NONE FOR THE PERIOD	NONE FOR THE PERIOD	NONE FOR THE PERIOD	

* UPDATED COST OF ELECTRICITY - MAY 2016

**MOUNTAIN WATER DISTRICT
2018 PSC WATER LOSS SUMMARY**

2018 ANNUAL
TOTALS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
1 WATER PRODUCED, PURCHASED AND DISTRIBUTED														
2 WATER PRODUCED	78327	54155	72588	72246	75656	70579	79224	73599	73421	76955	75938	76206	878894	
3 WATER PURCHASED	74110	69794	55052	51223	53755	56470	57322	61091	55181	55887	59050	57017	705952	
4 TOTAL WATER PRODUCED AND PURCHASED	152437	123949	127640	123469	129411	127049	136546	134690	128602	132842	134988	133223	1584846	
6 WATER SALES														
7 RESIDENTIAL	57578	54625	46752	46862	51741	60404	55296	53731	54439	48565	51765	49926	631684	
8 COMMERCIAL	5831	5100	4459	5211	8494	8503	7034	5263	4747	4689	5218	4835	69384	
9 INDUSTRIAL	523	671	421	572	611	624	581	720	632	623	683	433	7094	
10 BULK LOADING STATIONS														
11 RESALE	9862	6204	6856	6661	4793	5094	6623	7607	4027	4097	4057	4396	70277	
12 OTHER SALES	3090	2900	2372	2368	2429	2497	2371	2272	2174	5568	6064	5145	39250	
13 TOTAL WATER SALES	76884	69500	60860	61674	68068	77122	71905	69593	66019	63542	67787	64735	817689	
15 OTHER WATER USED														
16 UTILITY/WATER TREATMENT PLANT	1681	1402	1556	1516	1621	1478	1505	1956	1455	2249	2358	1607	20384	
17 WASTEWATER PLANT				415									415	415
18 SYSTEM FLUSHING	9565	8845	7635	8022	8163	8620	7316	7517	7529	6166	8134	5621	93133	
19 FIRE DEPARTMENT	957	1114	1864	484	693	1922	1153	1554	2203	2113	2263	2175	18495	
20 OTHER	2785	8354	13073	1949	1413	1198	1434	2050	2676	2332	1710	2247	41221	
21 TOTAL OTHER WATER USED	14988	19715	24128	12386	11890	13218	11408	13077	13863	12860	14465	11650	173648	
23 WATER LOSS														
24 TANK OVERFLOWS	72	1241	20	2423	65	244	50	104	597	1064	1571	185	7636	
25 LINE BREAKS	30442	5769	5706	8662	17559	4862	19324	22600	17507	21187	35060	15952	204570	
26 LINE LEAKS	30051	27724	36926	38255	31829	31603	33859	29316	30616	34189	16165	40701	381234	
27 OTHER				79									79	79
28 TOTAL LINE LOSS	60565	34734	42652	49419	49453	36709	53233	52020	48720	56440	52736	56838	593519	

LINE 13 + LINE 21 MUST EQUAL LINE 4

32 WATER LOSS PERCENTAGE

33 LINE 28 DIVIDED BY LINE 4

39.7% 28.0% 33.4% 40.0% 38.2% 28.9% 39.0% 38.6% 37.9% 42.5% 39.1% 42.7% 37.4%

UTILITY/WATER TREATMENT PLANT USAGE

2018

2018	BACKWASH	ACTIFLO USAGE	WTP USAGE	MWD USAGE - WORK ORDER	TOTAL
JANUARY	560	1116	5		1681
FEBRUARY	389	1008	5		1402
MARCH	435	1116	5		1556
APRIL	416	1095	5		1516
MAY	500	1116	5		1621
JUNE	393	1080	5		1478
JULY	384	1116	5		1505
AUGUST	301	1116	5	534	1956
SEPTEMBER	370	1080	5		1455
OCTOBER	360	1116	5	768	2249
NOVEMBER	384	1080	5	889	2358
DECEMBER	486	1116	5		1607
ANNUAL TOTAL					20384

* ACTIFLO USAGE IS CALCULATED AS 25 GPM X 1440 X # OF DAYS IN THE MONTH.

** AUGUST, OCTOBER AND NOVEMBER HAVE MWD USAGE FROM WORK ORDERS ADDED IN. I WAS TRYING TO ADD IT HERE BEGINNING IN AUGUST '18 AND LOOKS LIKE I FORGOT TO ADD IT IN SEPTEMBER AND DECEMBER. THAT USAGE IS ADDED IN THE "OTHER" CELL ON THE 2018 REPORT FOR THE OTHER MONTHS OF THE YEAR.

**FIRE DEPARTMENTS
WATER USAGE REPORT
2018**

FIRE DEPT	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YTD
1 BELFRY VFD	3,000	1,000		4,800	0		5,000	23,000	0	0	5,000	10,000	51,800
2 BIG CREEK VFD	2,000	0	1,000	0	0	0	1,500	0	12,500	0			17,000
3 BLACKBERRY VFD	0	1,000	0	800	1,250	12,500	1,150	35,300	300	905	0		53,205
4 BLACKBERRY #2 VFD	3,000	0	0	0	7,000	0	0	0	0	3,750	1,750		15,500
5 DORTON VFD	500	1,000	0	3,600	1,500	300	0	6,000	1,000	0	0	0	12,900
6 ELKHORN CITY VFD	0	4,000	2,000	3,000	0	10,000	0	3,000	1,000	0	0	20,000	43,000
7 FEDSCREEK VFD	0	750		2,700			700	1,400				0	5,550
8 ELKHORN CITY #2	0	0	0	0	0	0	0	0	0	0	0	0	0
9 ELKHORN CITY #3	0	3,800	1,000	1,000	0	6,000	0	0	0	0	0	0	11,800
10 GRAPEVINE VFD	0	1,500	13,750	3,100	500	4,350	10,750	750	0	0	3,750	0	38,450
11 GREASY CREEK VFD	0	0	0	0	0	0	0	0	0	5,000	0	0	5,000
12 GULNARE VFD	0	11,400	0	10,200	0	0	0	0	0	0	0	0	21,600
13 HATFIELD VFD	0	1,800	0	0	1,200	0	0	0	0	0	0	0	3,000
14 HURRICANE CREEK VFD	0			3,700									3,700
15 ISLAND CREEK VFD	0		800		3,950	33,600	6,200						44,550
16 JOHNS CREEK VFD	700	18,750	4,500	3,000	35,750	0	1,250	1,000	1,000			1,000	65,950
17 KIMPER VFD	2,000	0	2,000	0	1,000	0	10,000	0	0	0	0	0	15,000
18 MARROWBONE VFD				29,500									29,500
19 SHELBY VALLEY VFD	5,200	0	2,000	400	400	1,000	12,600	0	500	2,900	15,700	8,100	48,800
20 SYCAMORE VFD			7,800	4,100	0								11,900
21 TURKEY CREEK VFD	0	6,000	500	0	0	1,250	0	0	10,000	100	0	0	17,850
22 MILLARD EAST VFD	8,400	0	1,500		1,550	1,000	2,500	12,100	0	3,500	0	0	30,550
23 PHELPS VFD	9,400	20,500		44,350	26,000		22,800						123,050
24 UPPER POND CREEK VFD		0	1,000	0	0	1,600		10,000	0	0	0	0	12,600
TOTAL USAGE	34,200	71,500	37,850	114,250	80,100	71,600	74,450	92,550	24,300	16,155	26,200	39,100	682,255

TOTAL GALLONS SOLD	76,883,450	#####	60,859,580	61,674,540	68,067,900	77,122,020	71,904,710	69,593,890	66,018,890	63,541,660	67,787,260	64,733,920
.003% OF TOTAL GALLONS SOLD FOR NON-REPORTING VFD'S X # OF NON-REPORTING USAGE REPORTED	922,601	1,042,498	1,825,787	370,047	612,611	1,850,928	1,078,571	1,461,472	2,178,623	2,096,875	2,236,980	2,136,219
	34,200	71,500	37,850	114,250	80,100	71,600	74,450	92,550	24,300	16,155	26,200	39,100

COMPARE TO
LINE ITEM # 19
OF SUMMARY

TOTAL FIRE DEPT USAGE

956,801 1,113,998 1,863,637 484,297 692,711 1,922,528 1,153,021 1,554,022 2,202,923 2,113,030 2,263,180 2,175,319

* VFD Water Usage Report not received in time to be included in District Waterloss Report for month reported is in red.

* Received Jan, Feb, March and April Reports from Marrowbone VFD on May 2nd, 2018. All usage will be added to the April Report.

**** "0" MEANS THAT THEY HAVE REPORTED 0 GALLONS FOR THE MONTH.

'OTHER' WATER USAGE

2018

2018	CUSTOMER ADJUSTED USAGE	WATER FROM HYDRANTS / MWD USAGE	ILLEGAL USAGE	TOTAL	TOTAL OMITTING '000s
JANUARY	1,344,177	1,372,800	68,300	2,785,277	2,785
FEBRUARY	3,735,835	4,570,700	47,430	8,353,965	8,354
MARCH	3,416,441	9,657,330	0	13,073,771	13,073
APRIL	1,918,421	20,000	10,580	1,949,001	1,949
MAY	982,434	369,020	61,250	1,412,704	1,413
JUNE	1,004,356	153,020	41,290	1,198,666	1,198
JULY	1,414,121	20,000	0	1,434,121	1,434
AUGUST	2,014,882	20,000	15,470	2,050,352	2,050
SEPTEMBER	1,666,463	884,862	124,920	2,676,245	2,676
OCTOBER	2,234,276	26,000	71,590	2,331,866	2,332
NOVEMBER	1,673,326	20,000	17,390	1,710,716	1,710
DECEMBER	1,221,835	800,976	224,130	2,246,941	2,247
ANNUAL TOTAL				41,223,625	41,221