

*RAPID CITY WATER DIVISION
PRODUCTION GROUP REPORT*

OCTOBER 2011



BY TIM WEBER

WATER PRODUCTION SUPERVISOR

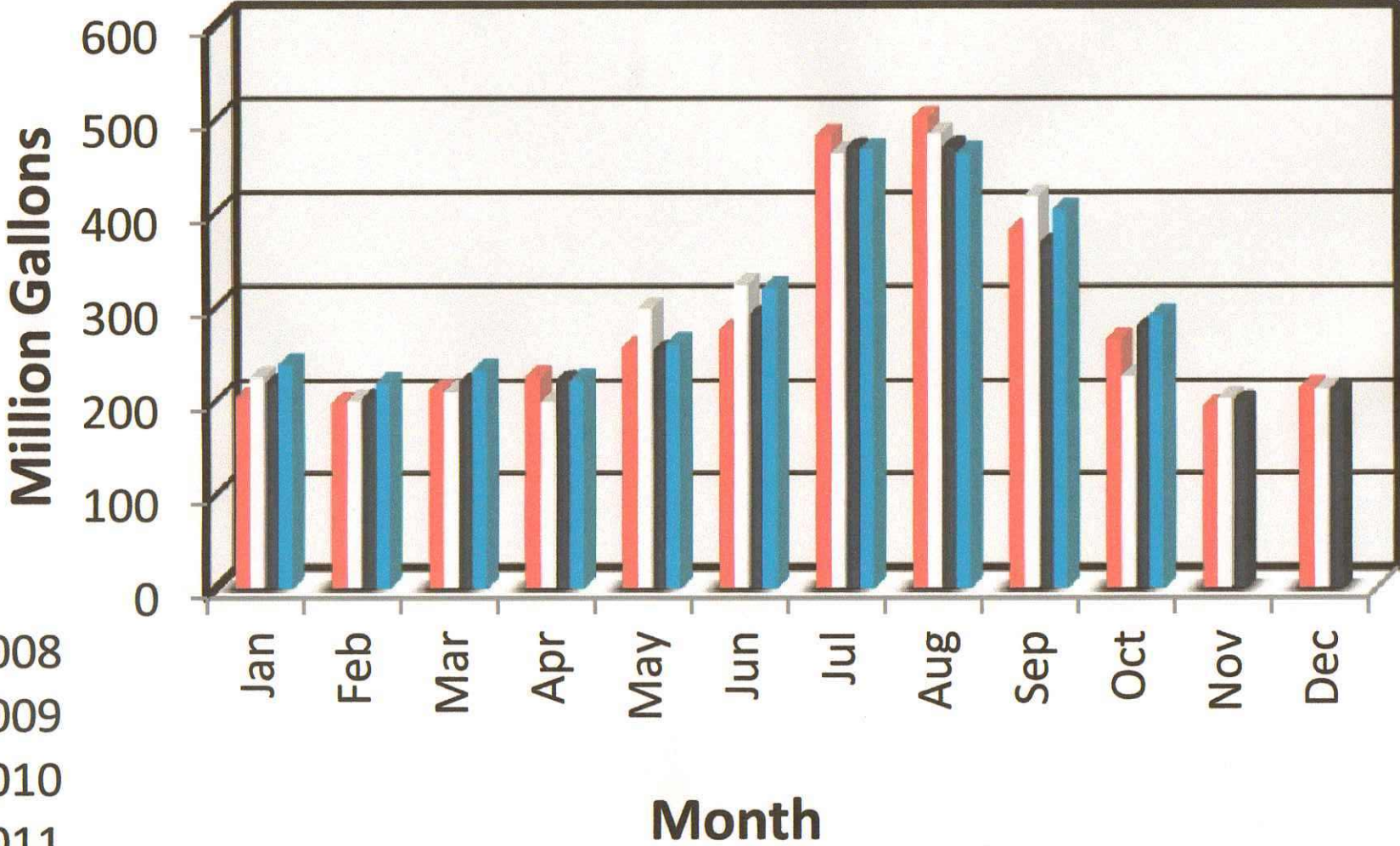
2011 TOTAL WATER PRODUCTION BY THE MONTH FOR THE YEAR

2011	GIRL SCOUTS	MEADOW BROOK	WELL #1	WELL #4	WELL #5	WELL #6	WELL #8	WELL #9	WELL #10	WELL #11	WELL #12	WT. PLANT TOTALS	TOTAL GALS.
JANUARY	0	0	0	13,272,000	56,892,000	3,288,000	0	90,289,000	56,605,000	0	18,847,000	0	239,193,000
FEBRUARY	0	0	0	11,142,000	53,053,000	18,441,000	0	74,097,000	48,292,000	0	14,081,000	0	219,106,000
MARCH	0	0	0	11,906,000	62,608,000	23,453,000	0	94,403,000	25,034,000	0	15,506,000	0	232,910,000
APRIL	0	0	0	1,217,000	56,161,000	16,254,000	0	92,056,000	38,008,000	0	18,684,000	0	222,380,000
MAY	0	0	0	0	65,470,000	18,501,000	2,377,000	99,214,000	52,972,000	2,000	22,722,000	0	261,258,000
JUNE	18,521,000	0	0	0	63,177,000	28,987,000	21,051,000	106,989,000	50,337,000	728,000	30,736,000	0	320,526,000
JULY	47,189,000	30,140,300	0	0	60,707,000	31,852,000	0	90,935,000	49,363,000	13,394,000	45,496,000	98,820,000	467,896,300
AUGUST	1,730,000	299,800	0	0	39,978,000	31,084,000	0	21,634,000	49,037,000	24,046,000	38,490,000	257,692,000	463,990,800
SEPTEMBER	70,147,000	41,907,700	0	0	63,582,000	30,987,000	0	101,358,000	46,071,000	26,131,000	23,371,000	0	403,554,700
OCTOBER	19,612,000	10,167,900	0	0	66,006,000	20,066,000	0	94,449,000	51,635,000	18,043,000	11,026,000	0	291,004,900
NOVEMBER	0	0	0	0	0	0	0	0	0	0	0	0	0
DECEMBER	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	157,199,000	82,515,700	0	37,537,000	587,634,000	222,913,000	23,428,000	865,424,000	467,354,000	82,344,000	238,959,000	356,512,000	3,121,819,700

IRRIGATION SEASON TOTALS MAY 1 - SEPT. 30

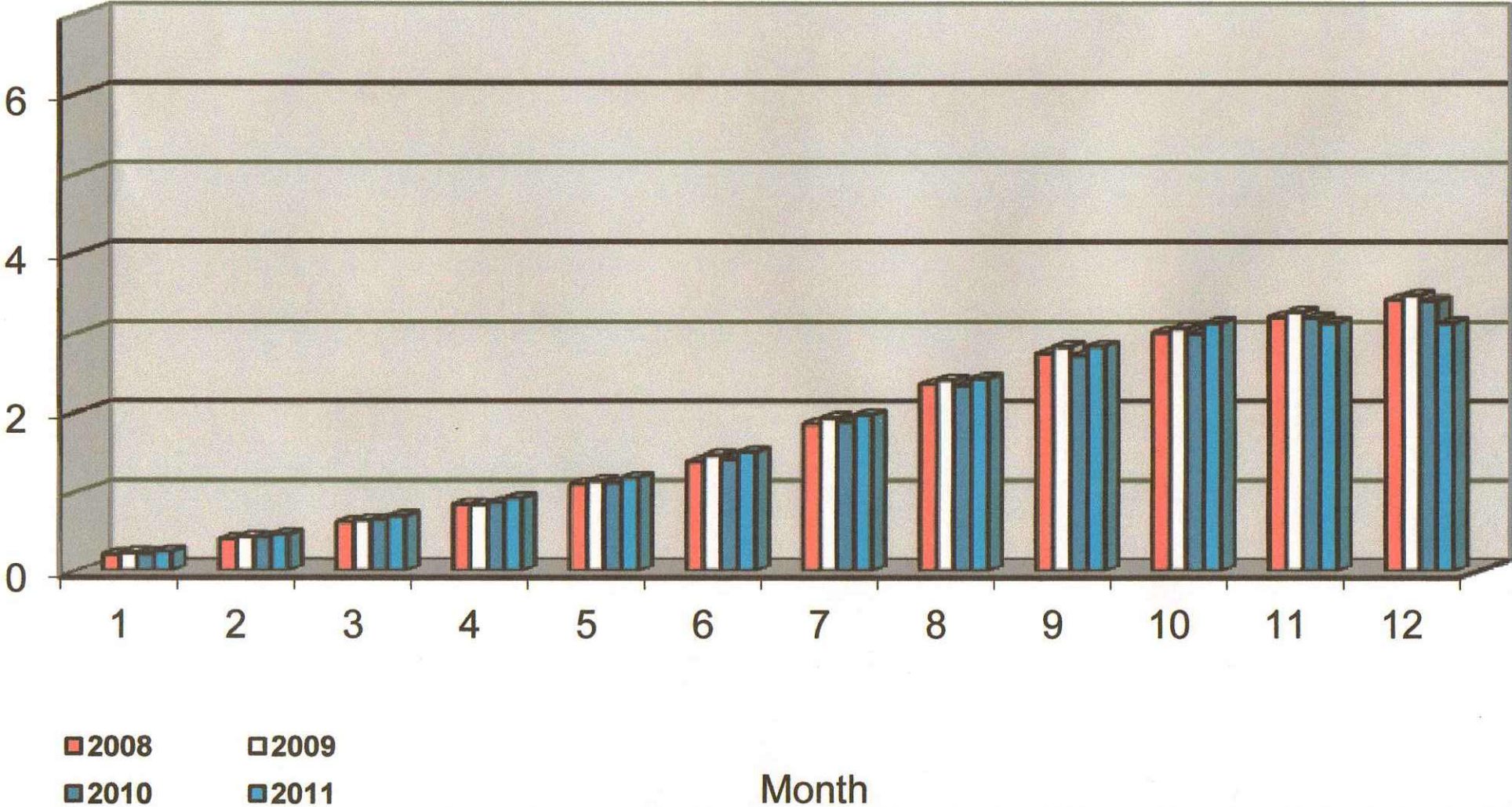
137,587,000	72,347,800	0	0	292,914,000	141,411,000	23,428,000	420,130,000	247,780,000	64,301,000	160,815,000	356,512,000	1,917,225,800
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Rapid City potable water comparison

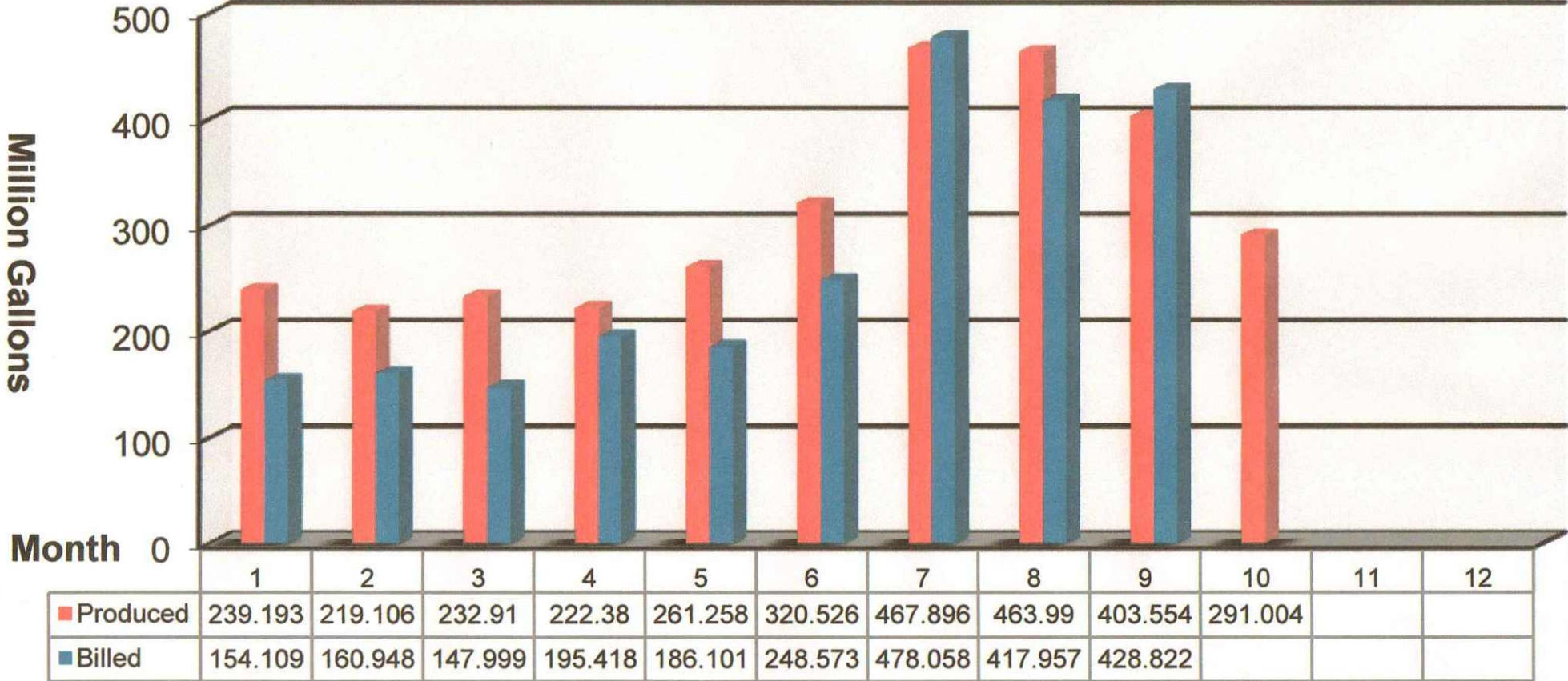


- 2008
- 2009
- 2010
- 2011

Rapid City Cumulative Potable Water Comparison 2008-2011 in Billion Gallons

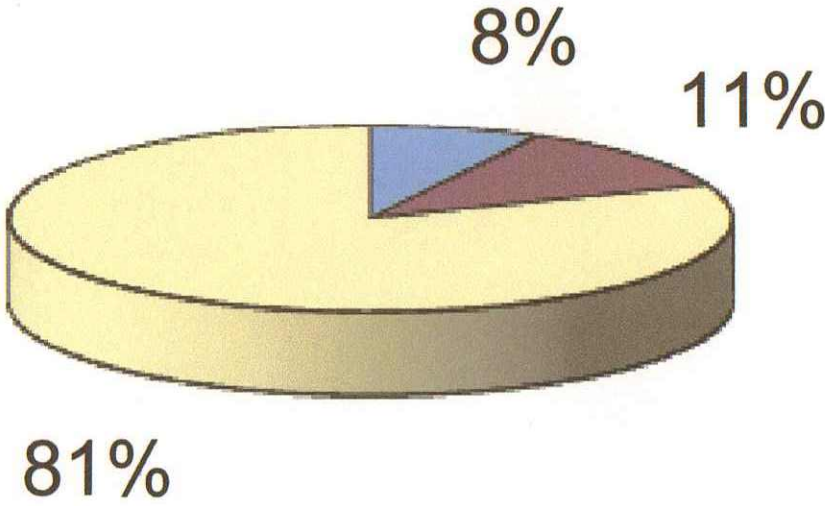


2011 Potable Water Produced VS Water Billed



Figures shown are produced and billed for approximately the same time period.
Billed includes non-billed consumption by Rapid Valley due to salt

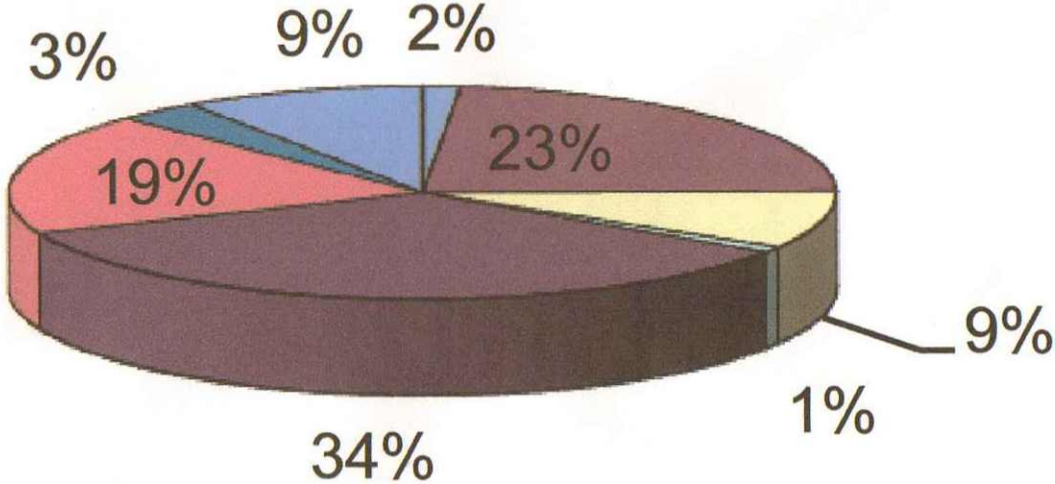
2011 Total Potable Water Used



Infiltration Galleries Surface Plant Wells

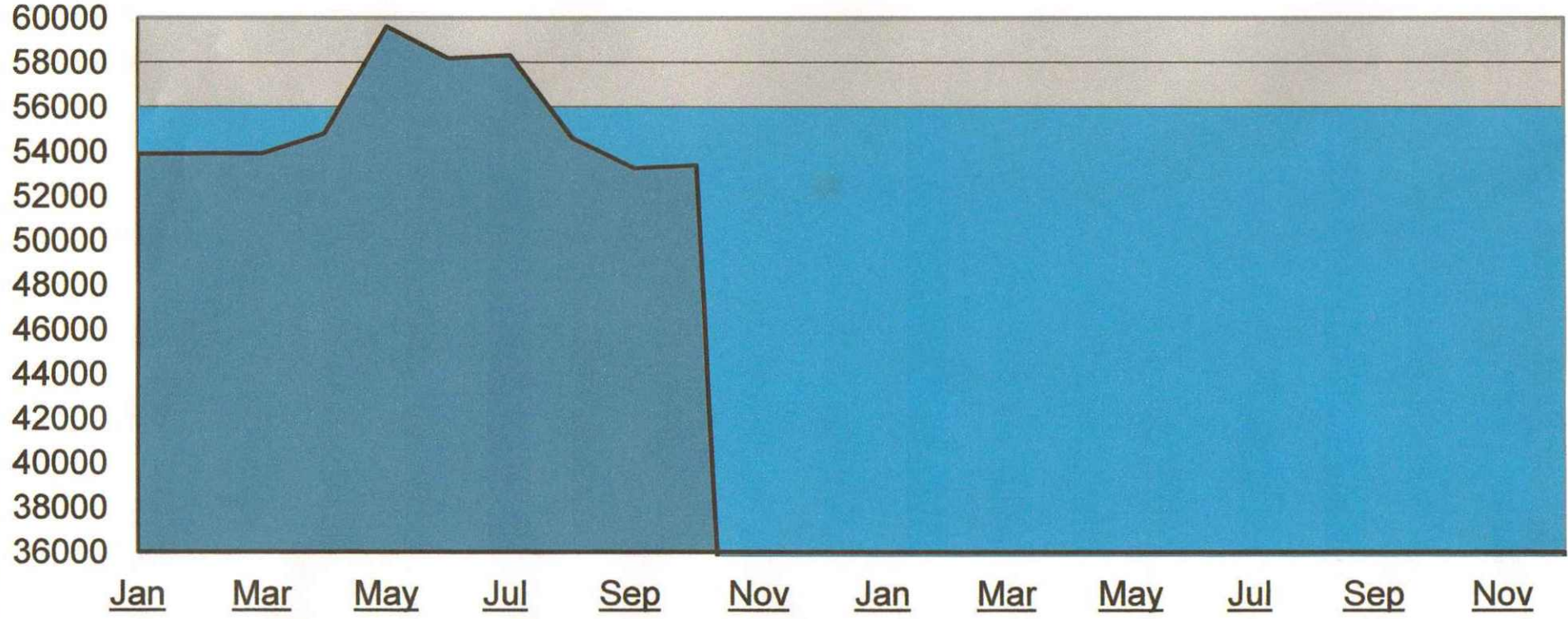
2011 Potable Well Water Used

- Wells 1,4
- Well 5
- Well 6
- Well 8
- Well 9
- Well 10
- Well 11
- Well 12

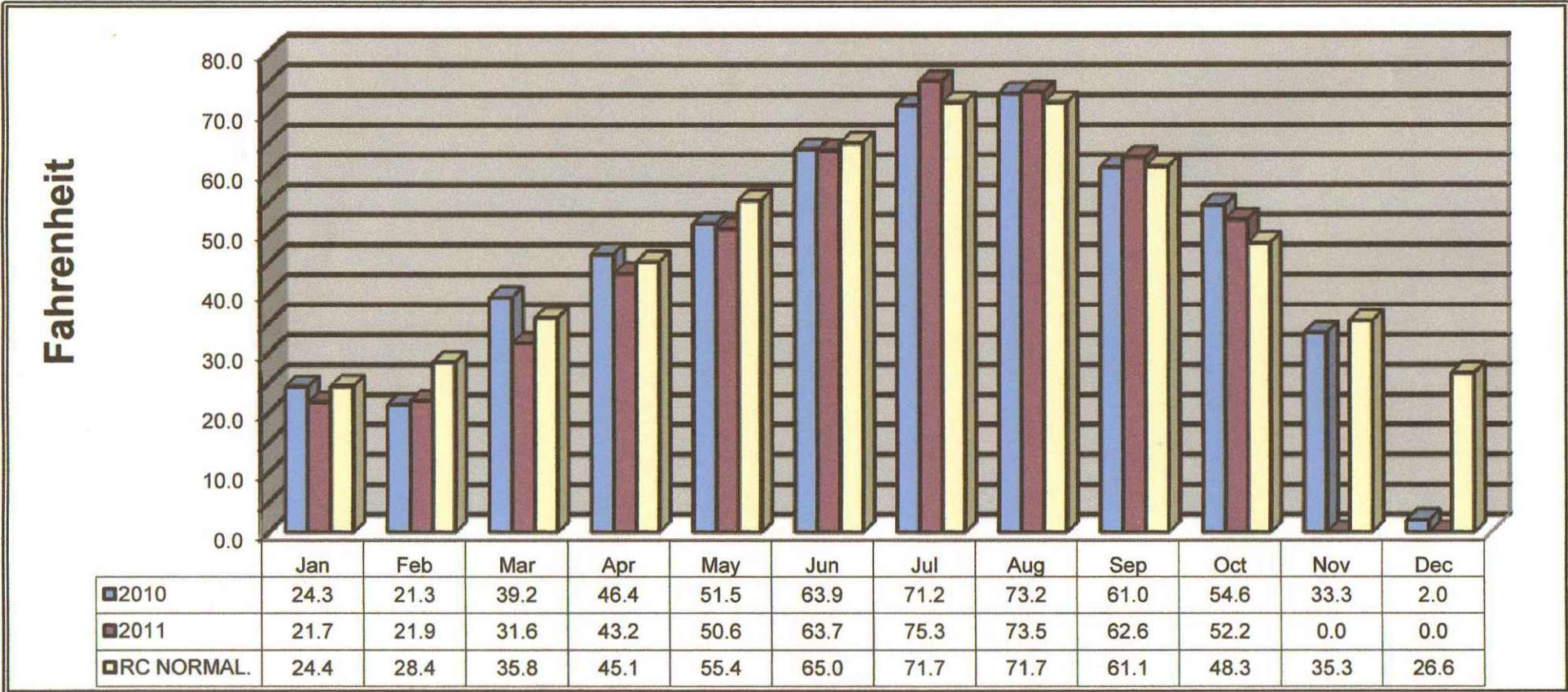


Pactola Storage in Acre Feet January 2011 - December 2012

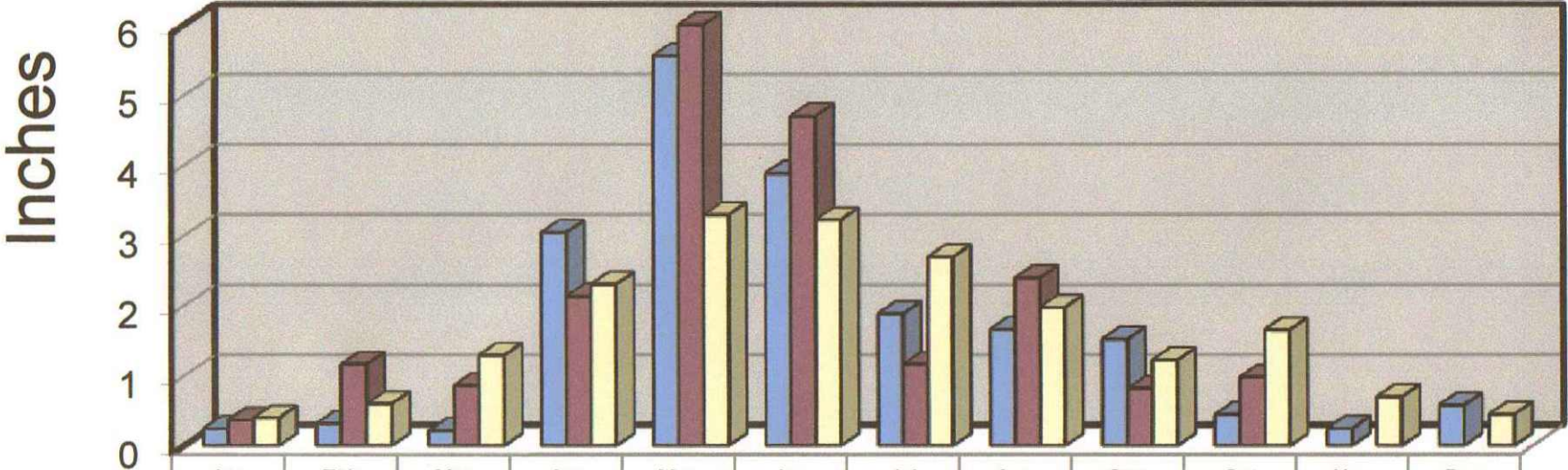
■ Full Reservoir Pool ■ End of Month Volume



Monthly Overall Temperature Averages 2010 VS 2011

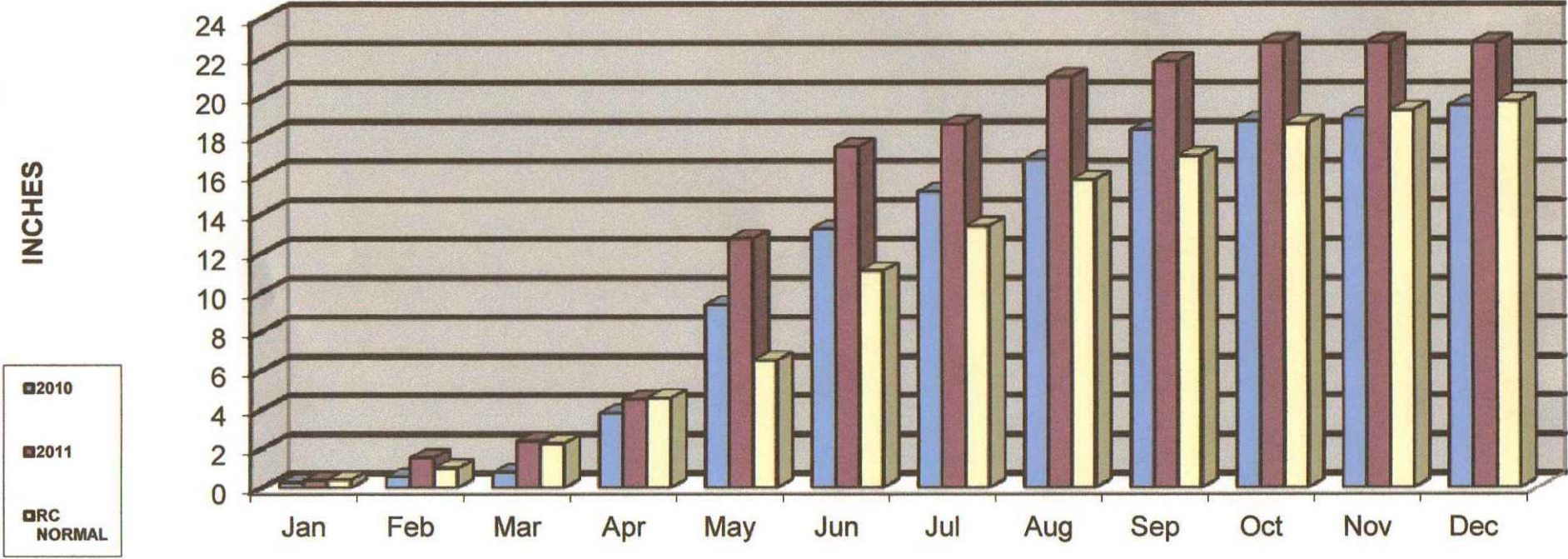


Monthly Precipitation Totals 2010 VS 2011



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2010	0.24	0.31	0.21	3.04	5.56	3.88	1.88	1.66	1.52	0.44	0.24	0.57
2011	0.36	1.16	0.85	2.13	8.24	4.7	1.16	2.39	0.81	0.97		
RC NORMAL	0.39	0.59	1.29	2.3	3.29	3.22	2.69	1.97	1.22	1.65	0.69	0.44

Cumulative Monthly Precipitation Totals 2010 VS 2011



RAPID CITY SOURCE PRODUCTION FOR OCTOBER 2011

OCTOBER 2011	GIRL SCOUTS	MEADOW BROOK	WELL #1	WELL #4	WELL #5	WELL #6	WELL #8	WELL #9	WELL #10	WELL #11	WELL #12	TOTAL GALS.
1	2461000	1446500	0	0	1972000	1021000	0	3599000	1531000	727000	348000	13,103,500
2	2461000	0	0	0	2255000	1082000	0	3753000	1661000	1019000	1172000	13,403,000
3	2760000	2572600	0	0	2340000	1160000	0	3587000	1424000	928000	654000	15,425,600
4	2416000	2996600	0	0	1974000	1080000	0	2709000	1538000	886000	579000	14,158,600
5	2161000	1907600	0	0	2071000	1019000	0	2207000	1384000	793000	1010000	12,552,600
6	2683000	886100	0	0	2438000	1098000	0	2476000	1714000	903000	768000	12,966,100
7	1436000	358400	0	0	1885000	640000	0	2370000	1621000	659000	370000	9,339,400
8	2066000	0	0	0	2120000	742000	0	1784000	1725000	548000	91000	9,076,000
9	90000	0	0	0	2219000	743000	0	3220000	1758000	599000	776000	9,405,000
10	645000	0	0	0	2178000	997000	0	3082000	1723000	591000	0	9,216,000
11	433000	0	0	0	2367000	621000	0	3595000	1681000	629000	935000	10,261,000
12	0	0	0	0	1952000	1041000	0	3178000	1633000	523000	10000	8,337,000
13	0	0	0	0	2198000	457000	0	2932000	1637000	807000	0	7,831,000
14	0	0	0	0	2141000	608000	0	4091000	1668000	539000	881000	9,928,000
15	0	0	0	0	2002000	581000	0	4061000	1676000	520000	0	8,840,000
16	0	0	0	0	2169000	447000	0	3897000	1735000	518000	0	8,766,000
17	0	0	0	0	2245000	542000	0	3773000	1697000	570000	886000	9,713,000
18	0	0	0	0	2059000	448000	0	3972000	1696000	537000	0	8,712,000
19	0	0	0	0	2189000	426000	0	2887000	1792000	411000	0	7,705,000
20	0	0	0	0	2303000	409000	0	2451000	1656000	507000	444000	7,770,000
21	0	0	0	0	1902000	609000	0	2795000	1620000	432000	402000	7,760,000
22	0	0	0	0	2173000	348000	0	2609000	1720000	404000	0	7,254,000
23	0	0	0	0	2137000	521000	0	2822000	1674000	474000	0	7,628,000
24	0	0	0	0	2083000	433000	0	2815000	1638000	545000	802000	8,316,000
25	0	0	0	0	2144000	491000	0	3079000	1708000	476000	0	7,898,000
26	0	0	0	0	2228000	533000	0	2768000	1744000	373000	0	7,646,000
27	0	0	0	0	2270000	486000	0	2520000	1867000	443000	0	7,586,000
28	0	0	0	0	2046000	337000	0	3174000	1589000	407000	277000	7,830,000
29	0	0	0	0	1995000	408000	0	2446000	1731000	456000	623000	7,659,000
30	0	0	0	0	1831000	371000	0	2717000	1742000	476000	0	7,137,000
31	0	100	0	0	2120000	387000	0	3080000	1652000	543000	0	7,782,100
TOTAL	19,612,000	10,167,900	0	0	66,006,000	20,066,000	0	94,449,000	51,635,000	18,043,000	11,026,000	291,004,900
DEEP WELL AVERAGES			#DIV/0!	#DIV/0!	2,129,226	647,290	#DIV/0!	3,046,742	1,665,645	582,032	612,556	

**CHEMICAL DOSAGE COSTS
2011 PREPARED BY TIM WEBER, WATER PRODUCTION SUPERVISOR**

Year	Location	Production	Pounds	Dosage	Cost	Pounds	Dosage	Cost	Gal.	Pounds	Dosage	Cost	Gal.	Pounds	Dosage	Cost
			CL2			NaSiF			FL Acid	FL Acid			pax xl	pax xl		
			Used			Used			Used	Used			Used	Used		
10/31/11	Girl Scouts	19,612,000	173	1.06	\$110.55	0	0.00	\$0.00	63	630	3.85	\$258.30				
	Mdbrk	10,167,900	112	1.32	\$71.57	0	0.00	\$0.00	35	350	4.13	\$143.50				
	Jackson Spr	0	0	0.00	\$0.00	0	0.00	\$0.00	0	0	0.00	\$0.00				
	Well #1	0	0	0.00	\$0.00	0	0.00	\$0.00	0	0	0.00	\$0.00				
	Well #4	0	0	0.00	\$0.00	0	0.00	\$0.00	0	0	0.00	\$0.00				
	Well #5	66,006,000	513	0.93	\$327.81	0	0.00	\$0.00	277	2,770	5.03	\$1,135.70				
	Well #6	20,066,000	161	0.96	\$102.88	0	0.00	\$0.00	71	710	4.24	\$291.10				
	Well #8	0	0	0.00	\$0.00	0	0.00	\$0.00	0	0	0.00	\$0.00				
	Well #9	94,449,000	693	0.88	\$442.83	0	0.00	\$0.00	326	3,260	4.14	\$1,336.60				
	Well #10	51,635,000	320	0.74	\$204.48	0	0.00	\$0.00	162	1,620	3.76	\$664.20				
	Well #11	18,043,000	177	1.18	\$113.10	0	0.00	\$0.00	59	590	3.92	\$241.90				
	Well #12	11,026,000	6	0.07	\$4.80	0	0.00	\$0.00	25	250	2.72	\$102.50				
	WTP	0	0	0.00	\$0.00	0	0.00	\$0.00	0	0	0.00	\$0.00	0	0		\$0.00
MO TOTAL		291,004,900	2,155		\$1,378.01	0		\$0.00	1,018	10,180		\$4,173.80	0	0		\$0.00
YEARLY		3,121,819,700	30,002		\$19,962.83	0		\$0.00	11,887	118,870		\$49,258.34	3,430	35,363		\$15,913.49