



Water Rate Study

Revised Tables 12/06/22



Joshua Basin Water District Water Rate Study Draft Schedule

	JULY						ΑL	JGU	ST					SEP	TEN	1BEF	?			OCTOBER							
S	M	Т	W	R	F	S	S	М	Т	W	R	F	S	S	IV	T	W	R	F	S	S	М	Т	W	R	F	S
					1	2	31	1	2	3	4	5	6					1	2	3	2	3	4	5	6	7	8
3	4	5	6	7	8	9	7	8	9	10	11	12	13	4	5	6	7	8	9	10	9	10	11	12	13	14	15
10	11	12	13	14	15	16	14	15	16	17	18	19	20	1:	1 12	13	14	15	16	17	16	17	18	19	20	21	22
17	18	19	20	21	22	23	21	22	23	24	25	26	27	18	3 19	20	21	22	23	24	23	24	25	26	27	28	29
24	25	26	27	28	29	30	28	29	30	31				25	5 26	27	28	29	30	1	30	31					
		NO۱	/EN	1BEF	3				DEC	EM	BER					JA	NUA	RY					FEB	RU	ARY		
5	M	NO\ T	<mark>/EI/</mark> W	IBEI R	R F	<u>S</u>	<u> </u>	M	DEC T	EM W	BER R	F	S	S	N		NUA W	RY R	F	S	<u></u>	M	FEB T	RUA W	ARY R	F	5
S		NO\ T 1				S 5	S		DEC T				S 3	S 1	N 2	T			F 6	<u>S</u> 7	S		FEB T			F 3	<u>S</u>
S 6		T	W	R	F		S 4		DEC T		R	F	_	5 1 8	2	T	W 4	R 5	F 6 13		5		FEB T	W	R	F 3 10	4
	M 7	T 1 8	W 2 9	R 3	F 4	5		M	T		R 1 8	F 2	3	1	9	3 10	W 4 11	R 5 12	F 6 13 20	14	153205	M	7 14	W 1	R 2	10	4
6	7 14	T 1 8 15	W 2 9 16	R 3 10 17	F 4 11 18	5 12 19	4	M 5	T 6	W 7	R 1 8 15	F 2 9	3 10	1	2 9 5 16	3 10 5 17	W 4 11	R 5 12 19		14	5	M 6	T 7	W 1 8	R 2 9	10 17	4 11 18

AUG-31	Board Meeting - Introduce rate study & preliminary findings, receive initial input
SEP-13	CAC Meeting - Discuss preliminary findings & alternatives, receive input
OCT-12	Special Board Meeting with CAC - Discuss alternatives, receive input
NOV-8	CAC Meeting - Continuing honing recommendations
NOV-9	Special Board Meeting with CAC - Continuing honing recommendations (agendize as special meetir
DEC-14 tbd	Special Board Meeting - Review recommendations, seek direction to proceed w/ Prop 218 process
DEC-23	Mail Prop 218 Notices (must be mailed by Dec-31, at least 45 days prior to Public Hearing)
JAN-10	Community Workshop at the Joshua Tree Community Center
FEB-15	Board Meeting - Public Hearing & consider adoption of proposed rates
MAR-1	New rates become effective (with future year rate increases effective Jan-1)
JUL-1	New rates become effective (if billing via County property tax rolls)

Water Rates & Usage



Table 1 Joshua Basin Water District Current Water Rates

	Current Water rates									
BASIC MON	THLY FEE (FIXED CHAR	GE)								
Meter Size	Capacity (gpm)	Monthly Rate	<u>Per Day</u>							
3/4" & 1"	30	\$41.35	<i>\$1.36</i>							
1-1/2"	100	137.83	4.53							
2"	160	220.53	7.25							
3"	300	413.50	13.59							
MONTHLY V	VATER USAGE CHARG	ES (PER HCF)								
Consumption	<u>1</u>	Rate per hcf	Per 100 gallons							
0 - 5 units		\$6.20	\$0.83							
5.01 - 10 un	its	7.70	1.03							
10.01 - 20 u	nits	9.20	1.23							
20.01 + unit	S	10.70	1.43							
	" and 3" Meters r all water use	Rate per hcf \$7.70	1.03							

1 unit = 1 hcf = one hundred cubic feet = 748 gallons

Table 2 Joshua Basin Water District Historical Water Rates

					Historic	al Water	Rates							
	Jan-1 2007	Jan-1 2008	Jan-1 2009	Jan-1 2010	Jan-1 2011	Mar-1 2014	Jan-1 2015	Jan-1 2016	Jan-1 2017	Mar-1 2018	Jan-1 2019	Jan-1 2020	Jan-1 2021	Jan-1 2022
Overall Rate Increases	6%	6%	3%	6%	3%	7%	7%	7%	7%	18%	16%	14%	12%	10%
BASIC MONTHLY FEE														
Fixed monthly charge based on meter :	size													
Meter Size														
3/4 & 1 inch	\$20.00	\$21.20	\$21.84	\$23.15	\$23.82	\$24.31	\$24.80	\$25.29	\$25.78	\$26.96	\$30.70	\$34.43	\$38.03	\$41.35
1 inch	\$33.30	\$35.30	\$36.36	\$38.55	\$39.70	4		-	-	-	-	-	-	-
1-1/2 inches	66.60	70.70	72.83	77.20	79.40	81.03	82.67	84.30	85.93	89.87	102.33	114.77	126.77	137.83
2 inches	106.60	113.10	116.50	123.49	127.00	129.65	132.27	134.88	137.49	143.79	163.73	183.63	202.83	220.53
3 inches	213.40	212.00	218.40	231.51	238.20	243.09	248.01	252.90	257.79	269.60	307.00	344.30	380.30	413.50
MONTHLY WATER FLOW CHARGES Billed based on metered water use, as		units of one	e hundred cu	bic feet (\$/I	ncf)									
For 3/4" and 1" Meters						W								
Tier 1 0 - 5 units	\$1.80	\$1.91	\$1.97	\$2.09	\$2.14	\$2.30	\$2.50	\$2.75	\$3.00	\$3.70	\$4.40	\$5.05	\$5.70	\$6.20
Tier 2 5.01 - 10 units	2.00	2.12	2.19	2.33	2.39	2.60	2.90	3.20	3.50	4.40	5.30	6.15	7.00	7.70
Tier 3 10.01 - 20 units	2.10	2.25	2.32	2.46	2.57	2.90	3.30	3.65	4.00	5.10	6.20	7.25	8.30	9.20
Tier 4 20.01 + units	2.15	2.35	2.42	2.57	2.75	3.20	3.70	4.10	4.50	5.80	7.10	8.35	9.60	10.70
For 1-1/2", 2" and 3" Meters														
Unit rate for all water use	\$2.00	\$2.12	\$2.19	\$2.33	\$2.39	\$2.71	\$3.07	\$3.43	\$3.79	\$4.60	\$5.40	\$6.20	\$7.00	\$7.70
Note: 1 unit = one hundred cubic feet,	or approxim	ately 748 ga	llons.											
PRIVATE FIRE PROTECTION CHARG	ES													
Fixed monthly charge based on size of	service conn	ection												
Service Size														
2 inches	\$10.60	\$11.24	\$11.58	\$12.28	\$12.62	\$13.50	\$11.58	\$12.28	\$12.62	\$14.38	\$16.37	\$18.36	\$20.28	\$22.05
3 inches	21.20	22.47	23.15	24.54	25.25	27.02	23.15	24.54	25.25	26.96	30.69	34.43	38.03	41.34
4 inches	42.40	44.94	46.29	49.07	50.50	54.04	46.29	49.07	50.50	44.94	51.16	57.38	63.38	68.91
6 inches	63.60	67.42	69.45	73.62	75.76	81.06	69.45	73.62	75.76	89.88	102.31	114.75	126.75	137.81
8 inches	95.40	101.12	104.60	110.41	113.62	121.57	104.60	110.41	113.62	143.80	163.70	183.60	202.80	220.50

Table 4 Joshua Basin Water District Historical Water Use by Tier

	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22
Billed Use by Tier	(hcf)										
Tier 1	192,465	192,245	190,677	189,011	186,071	188,189	190,662	184,407	183,425	198,072	193,435
Tier 2	106,540	106,439	102,652	98,576	88,862	91,526	92,136	84,032	81,238	95,113	89,580
Tier 3	93,798	94,917	89,782	84,359	71,709	76,742	75,757	67,463	62,110	76,446	73,530
Tier 4	97,275	101,151	99,771	85,333	64,707	86,482	79,322	67,687	61,419	80,096	85,150
Subtotal	490,078	494,752	482,882	457,279	411,349	442,939	437,877	403,589	388,192	449,727	441,695
All Other	98,639	88,724	96,261	93,150	71,731	85,275	79,555	77,261	75,678	75,143	79,414
Total (hcf)	588,717	583,476	579,143	550,429	483,080	528,214	517,432	480,850	463,870	524,870	521,109
Total (AF)	1,352	1,339	1,330	1,264	1,109	1,213	1,188	1,104	1,065	1,205	1,196
Annual Change		-0.9%	-0.7%	-5.0%	-12.2%	9.3%	-2.0%	-7.1%	-3.5%	13.2%	-0.7%

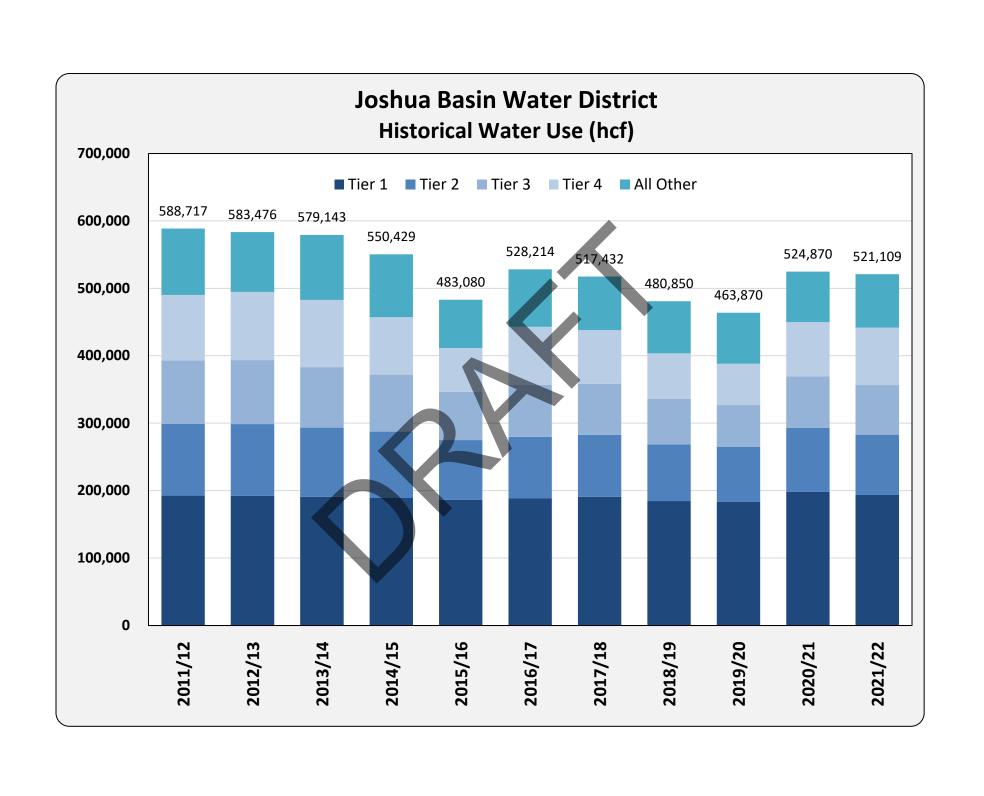


Table 5
Joshua Basin Water District
Bills & Use by Tier 2021/22
For 3/4" & 1" Meters

	Bills & Use in Tier 2021/22										
	Monthly Bills Ending Water Use										
	Use in Tier % in Tier										
Tier 1	0 - 5 hcf	54.0%	43.8%								
Tier 2	5.01 - 10 hcf	23.9%	20.3%								
Tier 3	10.01 - 20 hcf	14.4%	16.6%								
Tier 4	20.01 + hcf	7.7%	19.3%								

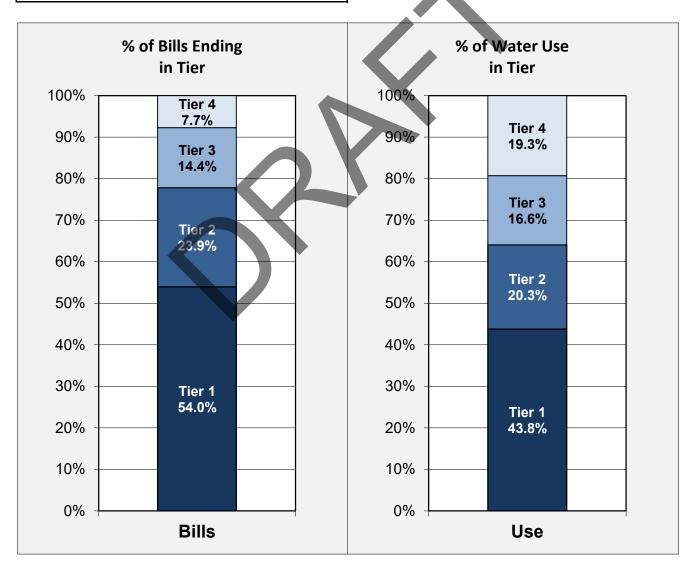
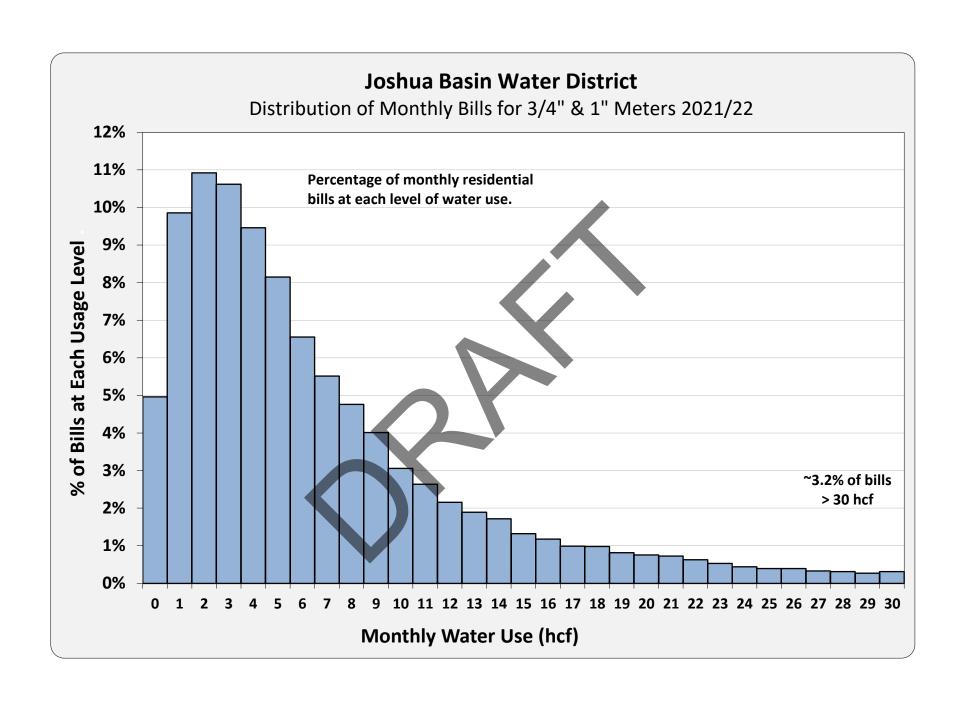


Table 6Median Monthly Use (Excl Zeros):5.0 hcfJoshua Basin Water DistrictAvg Monthly Use for Annual Median Acct:6.2 hcfConsumption Block Analysis: Residential 3/4" & 1" FY2021/22Average Monthly Use:8.3 hcf

Use (hcf)	Monthly		Num	ber of Bills		Water l	Jse (hcf)	Use Throu	igh Break
1 1 3,975 9,9% 5,975 14,8% 3,975 1.2% 33,334 11.5% 3 4,405 10.9% 10.380 25.7% 8.8.10 2.6% 72,693 21.8% 3 4,282 10.6% 14,662 36,4% 12,846 3.9% 10.2,647 30.8% 5 3,287 8.1% 21,764 54.0% 16,435 4.9% 150,176 45.1% 5 3,287 8.1% 21,764 54.0% 16,435 4.9% 150,176 45.1% 6 2,642 6.6% 24,406 60.5% 15,882 4.8% 168,746 50.7% 7 2,224 5.5% 26,630 66.0% 15,568 4.7% 184,674 55.5% 8 1,920 4.8% 28,550 70.8% 15,360 4.6% 198,378 35.8% 9 1,637 4.0% 30,167 74.8% 14,553 4.4% 210,162 66.1% 10 1,233 3.1% 31,400 77.8% 12,330 3.7% 220,329 66.3% 11 1,063 2.6% 32,463 80.5% 11,693 3.5% 229,263 66.9% 12 869 2.2% 33,332 82.6% 10,428 3.1% 237,134 71.2% 14 693 1.7% 34,787 86.2% 9,702 1.9% 250,376 75.2% 16 474 1.2% 35,793 88.7% 7.584 2.3% 260,938 78.8% 17 398 10.0% 36,586 90.7% 7,110 2.1% 269,622 81.0% 10,329 329 10.0% 36,586 90.7% 7,110 2.1% 269,622 81.0% 10,329 329 10.0% 36,586 90.7% 7,110 2.1% 269,622 81.0% 12 292 0.7% 37,512 93.0% 61,32 1.8% 279,768 82.2% 25,33 6.89 83,229 25,33 6.89 83,229 25,33 6.89 83,229 25,33 6.89 83,229 25,33 6.89 82.2% 10,428 3.1% 237,134 71.2% 17 2.5% 10 2.0% 250,329 250,320 26,33 6.90 75.2% 10 2.0% 250,329 250,320 26,33 76.9% 18 395 1.0% 36,586 90.7% 7,100 2.1% 269,622 81.0% 10 2.1% 269,622 81.0% 10 2.1% 269,622 81.0% 10 2.29 2.33 0.6% 37,250 93.9% 5.566 1.7% 227,370 27,88 82.7% 22 2.53 0.6% 37,250 93.9% 5.566 1.7% 227,370 82.1% 22 2.53 0.6% 37,250 93.9% 5.566 1.7% 227,370 82.1% 22 2.53 0.6% 37,250 93.9% 5.566 1.7% 227,370 82.1% 22 2.53 0.6% 37,250 93.9% 5.566 1.7% 227,370 82.1% 22 2.53 0.6% 37,250 93.9% 5.566 1.7% 227,370 82.1% 229 2.0% 33,33 83,34 95.0% 5.566 1.7% 229,348 88.8% 279,003 3.88 3.6% 96.6% 3.70 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.5	Use (hcf)	In Block	% of Total	Cumulative	Cumulative %	In Block	% of Ttl	Use (hcf)	% of Ttl
1 1 3,975 9,9% 5,975 14,8% 3,975 1.2% 33,334 11.5% 3 4,405 10.9% 10.380 25.7% 8.8.10 2.6% 72,693 21.8% 3 4,282 10.6% 14,662 36,4% 12,846 3.9% 10.2,647 30.8% 5 3,287 8.1% 21,764 54.0% 16,435 4.9% 150,176 45.1% 5 3,287 8.1% 21,764 54.0% 16,435 4.9% 150,176 45.1% 6 2,642 6.6% 24,406 60.5% 15,882 4.8% 168,746 50.7% 7 2,224 5.5% 26,630 66.0% 15,568 4.7% 184,674 55.5% 8 1,920 4.8% 28,550 70.8% 15,360 4.6% 198,378 35.8% 9 1,637 4.0% 30,167 74.8% 14,553 4.4% 210,162 66.1% 10 1,233 3.1% 31,400 77.8% 12,330 3.7% 220,329 66.3% 11 1,063 2.6% 32,463 80.5% 11,693 3.5% 229,263 66.9% 12 869 2.2% 33,332 82.6% 10,428 3.1% 237,134 71.2% 14 693 1.7% 34,787 86.2% 9,702 1.9% 250,376 75.2% 16 474 1.2% 35,793 88.7% 7.584 2.3% 260,938 78.8% 17 398 10.0% 36,586 90.7% 7,110 2.1% 269,622 81.0% 10,329 329 10.0% 36,586 90.7% 7,110 2.1% 269,622 81.0% 10,329 329 10.0% 36,586 90.7% 7,110 2.1% 269,622 81.0% 12 292 0.7% 37,512 93.0% 61,32 1.8% 279,768 82.2% 25,33 6.89 83,229 25,33 6.89 83,229 25,33 6.89 83,229 25,33 6.89 83,229 25,33 6.89 82.2% 10,428 3.1% 237,134 71.2% 17 2.5% 10 2.0% 250,329 250,320 26,33 6.90 75.2% 10 2.0% 250,329 250,320 26,33 76.9% 18 395 1.0% 36,586 90.7% 7,100 2.1% 269,622 81.0% 10 2.1% 269,622 81.0% 10 2.1% 269,622 81.0% 10 2.29 2.33 0.6% 37,250 93.9% 5.566 1.7% 227,370 27,88 82.7% 22 2.53 0.6% 37,250 93.9% 5.566 1.7% 227,370 82.1% 22 2.53 0.6% 37,250 93.9% 5.566 1.7% 227,370 82.1% 22 2.53 0.6% 37,250 93.9% 5.566 1.7% 227,370 82.1% 22 2.53 0.6% 37,250 93.9% 5.566 1.7% 227,370 82.1% 22 2.53 0.6% 37,250 93.9% 5.566 1.7% 227,370 82.1% 229 2.0% 33,33 83,34 95.0% 5.566 1.7% 229,348 88.8% 279,003 3.88 3.6% 96.6% 3.70 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.50 1.1% 279,370 90.0% 5.5	0	2 000	5.0%	2 000	5.0%	0	0.0%	0	0.0%
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16 474 1.2% 35,793 88,7% 6,766 2.0% 265,479 79.8% 17 398 1.0% 36,191 89,7% 6,766 2.0% 265,479 79.8% 18 395 1.0% 36,586 90,7% 7,110 2.1% 269,622 81.0% 19 329 0.8% 36,915 91.5% 6,251 1.9% 273,370 82.1% 20 305 0.8% 37,220 91.8% 6,100 1.8% 279,903 84.1% 21 292 0.7% 37,512 93.0% 6,132 1.8% 279,903 84.1% 22 253 0.6% 37,765 93.6% 4,389 1.5% 282,725 84.9% 24 178 0.4% 38,156 94.6% 4,272 1.3% 287,56 85.7% 25 158 0.4% 38,414 95.0% 3,950 1.2% 289,828 87.1% 27 132 <td>14</td> <td>693</td> <td>1.7%</td> <td>34,787</td> <td>86.2%</td> <td>9,702</td> <td>2.9%</td> <td>250,376</td> <td>75.2%</td>	14	693	1.7%	34,787	86.2%	9,702	2.9%	250,376	75.2%
17 398 1.0% 36,191 89,7% 6,766 2.0% 265,479 79,8% 18 395 1.0% 36,586 90.7% 7,110 2.1% 269,622 81.0% 20 305 0.8% 37,220 92,3% 6,100 1.8% 276,789 83.2% 21 292 0.7% 37,512 93.0% 5,566 1.7% 282,725 84.9% 23 213 0.5% 37,978 94.2% 4,399 1.5% 282,725 84.9% 24 178 0.4% 38,156 94.6% 4,272 1.3% 287,650 86.4% 25 158 0.4% 38,144 95.0% 3,950 1.2% 289,828 87.1% 26 159 0.4% 38,478 95.4% 4,134 1.2% 291,848 87.7% 27 132 0.3% 38,731 96.0% 3,528 1.1% 293,709 88.2% 29 109 </td <td>15</td> <td>532</td> <td>1.3%</td> <td>35,319</td> <td>87.6%</td> <td>7,980</td> <td>2.4%</td> <td>255,923</td> <td>76.9%</td>	15	532	1.3%	35,319	87.6%	7,980	2.4%	255,923	76.9%
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19 329 0.8% 36,915 91.5% 6,251 1.9% 273,370 82.1% 20 305 0.8% 37,220 92.3% 6,100 1.8% 276,789 83.2% 21 292 0.7% 37,512 93.0% 6,132 1.8% 279,903 84.1% 22 253 0.6% 37,765 93.6% 5,566 1.7% 282,725 84.9% 23 213 0.5% 37,978 94.2% 4,899 1.5% 285,294 85.7% 24 178 0.4% 38,156 94.6% 4,272 1.3% 287,650 86.4% 25 158 0.4% 38,136 94.6% 4,272 1.3% 287,650 86.4% 26 159 0.4% 38,434 95.0% 3,950 1.2% 289,828 87.1% 26 1199 0.3% 38,605 95.7% 3,564 1.1% 293,709 88.2% 28 126 0.3% 38,731 96.0% 3,528 1.1% 295,438 88.8% 29 109 0.3% 38,965 96.6% 3,750 1.1% 298,535 89.7% 31 84 0.2% 39,049 96.8% 2,604 0.8% 299,904 90.1% 32 79 0.2% 39,128 97.0% 2,528 0.8% 301,89 90.5% 33 4 75 0.2% 39,128 97.0% 2,528 0.8% 301,89 90.5% 35 60 0.2% 39,191 97.2% 2,079 0.6% 302,395 90.8% 34 75 0.2% 39,266 97.4% 2,550 0.8% 303,538 91.2% 36 6 65 0.2% 39,393 97.7% 2,340 0.7% 305,612 91.8% 37 55 0.1% 39,448 97.8% 2,035 0.6% 307,439 92.4% 40 32 0.1% 39,553 98.1% 1,677 0.5% 308,263 92.4% 40 32 0.1% 39,553 98.1% 1,677 0.5% 308,263 92.4% 40 32 0.1% 39,553 98.1% 1,677 0.5% 308,263 92.6% 40 32 0.1% 39,553 98.1% 1,677 0.5% 308,263 92.6% 40 32 0.1% 39,553 98.1% 1,280 0.4% 309,044 92.8% 41 32 0.1% 39,553 98.1% 1,677 0.5% 308,263 92.6% 40 32 0.1% 39,553 98.1% 1,280 0.4% 309,044 92.8% 41 32 0.1% 39,553 98.1% 1,677 0.5% 308,263 92.6% 40 32 0.1% 39,553 98.1% 1,280 0.4% 309,044 92.8% 41 32 0.1% 39,553 98.1% 1,280 0.4% 309,044 92.8% 41 32 0.1% 39,553 98.1% 1,280 0.4% 309,044 92.8% 44 28 0.1% 39,553 98.1% 1,280 0.4% 309,044 92.8% 44 28 0.1% 39,553 98.1% 1,280 0.4% 311,818 93.7% 45 25 0.1% 39,750 98.6% 1,125 0.3% 312,610 94.5% 49 170 0.0% 39,854 98.8% 1,200 0.4% 313,561 94.2% 49 17 0.0% 39,854 98.8% 1,200 0.4% 313,561 94.2% 49 17 0.0% 39,854 98.8% 1,200 0.4% 313,561 94.2% 49 17 0.0% 39,854 98.8% 1,200 0.4% 313,561 94.2% 49 17 0.0% 39,854 98.8% 1,200 0.4% 313,561 94.2% 49 17 0.0% 39,854 98.8% 1,200 0.4% 313,561 94.2% 49 17 0.0% 39,854 98.8% 1,200 0.4% 313,561 94.2% 49 17 0.0% 39,854 98.8% 1,200 0.4% 313,560 94.5% 50 0.25 0.1% 39,879 98.9% 1,250 0.4% 313,560 94.5% 50 0.25 0.1% 39,879	17	398	1.0%	36,191	89.7%	6,766	2.0%	265,479	79.8%
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	TOLAI	+0,334	100.0%			332,018	100.0%		



Scenario A

Best Management Practice with Cost Reductions



Table A1 JBWD Ca	ash Flow Project				-	Years 1 -
		Projected	Projected	Projected	Projected	Projec
Effective Date of Rate Adjus	tment	2022/23 Mar-1	2023/24 Jan-1	2024/25 Jan-1	2025/26 Jan-1	2026 Ja
Overall Rate Increase Targe		16%	14%	12%	10%	Jo
Fixed Rate Increase %		5%	5%	5%	5%	
Usage Rate Increase %		23.2%	19.0%	15.4%	12.2%	9
Growth: New 1" Meters or	Equivalents	50	25	25	25	
Growth %		1.0%	0.5%	0.5%	0.5%	0
Wtr Demand Elasticity (Res		(0.10)	(0.10)	(0.10)	(0.10)	(0
Change in Water Use After		-2.3%	-1.9%	-1.5%	-1.2%	-0
Water Purchases from MW	A (AF)	916	1,000	1,000	1,000	1,0
MWA Rate per AF		\$623	\$645	\$664	\$684	\$7
Interest Earnings Rate Annual Cost Escalator		1.0%	1.5% 6.0%	1.5% 4.0%	1.5% 4.0%	1
Beginning Fund Reserves		\$12,846,000	\$13,068,000	\$12,971,000	\$13,365,000	\$12,913,0
REVENUES				Compounded E Ve	nar Pata Increase	
		2 560 000	2 721 000		ear Rate Increase >>	
Basic Monthly Fees		2,560,000	2,731,000	2,882,000	3,041,000	3,209,0
Water Usage Charges		4,202,000	4,986,000	5,675,000	6,325,000	6,907,0
Basic Monthly Fees: Locked	ivieters	380,000	399,000	419,000	440,000	462,0
Standby Revenue		1,200,000	1,200,000	1,200,000	1,200,000	1,200,
Property Taxes		672,000	685,000	699,000	713,000	727,0
Private Fire Svc & Special Se	ervices	200,000	204,000	208,000	212,000	216,
Water Capacity & Meter Ins	tall Fees	486,000	250,000	258,000	258,000	258,
Interest Earnings & Gain Lo	ss/Chg Mkt Value	128,000	196,000	195,000	200,000	194,
HDMC WWTP Reimbursem		281,000	298,000	310,000	322,000	336,
Other Revenues		25,000	25,000	25,000	25,000	25,
Total Revenues		10,134,000	10,974,000	11,871,000	12,736,000	13,534,
SRF Grant for Chromium 6 I	Project	, , , , , , , , , , , , , , , , , , , ,	10,000,000		,,	-,,
SRF Loan for Chromium 6 P	•		8,000,000			
EXPENSES						
Operating & Maintenance						
Production		1,360,000	1,442,000	1,500,000	1,560,000	1,622,
Recharge Water Purchases	from MWA	571,000	645,000	664,000	684,000	705,
Distribution		1,212,000	1,285,000	1,336,000	1,389,000	1,445,
Customer Service		778,000	825,000	858,000	892,000	928,
Administration		1,255,000	1,330,000	1,383,000	1,438,000	1,496,
Finance		931,000	987,000	1,026,000	1,067,000	1,110,
		267,000				
Human Resources			283,000	294,000	306,000	318,
HDMC WWTP Operations (r		230,000	244,000	254,000	264,000	275,
Standby Admin/Developmt		87,000	92,000	96,000	100,000	104,
Add'l Staffing Needs (deferre	d & reduced)	44,000	47,000	49,000	190,000	198,
CIRP Program (Operating Po	ortion)	442,000	469,000	488,000	508,000	528,
Capitalized Overhead Adjus	tment	(100,000)	(106,000)	(110,000)	(114,000)	(119,
Chrome 6 Operations (estin	nated)	0	0	0	750,000	780,
Subtotal		7,077,000	7,543,000	7,838,000	9,034,000	9,390,
Debt Service	•					
2018 Installment Sale Agmt	(CIRP)	268,000	268,000	268,000	268,000	268,
Chrome 6 SRF Loan (\$8M, 2.7	5%, 30-Yr)	-	-	-	400,000	400,
Subtotal		268,000	268,000	268,000	668,000	668,
Capital/Non-Operating						
Capital Improvement Progr	am (CIP)	1,785,000	2,500,000	2,588,000	2,679,000	2,773,
Equipment/Technology	(Cii)	300,000	375,000	390,000	406,000	2,773, 422,
Studies/Reports	loon friends -1\	300,000	200,000	208,000	216,000	225,
Chromium 6 Project (grant &		0	18,000,000		0	
Meter Replacement Progra		182,000	185,000	185,000	185,000	185,
Admin Building & Financing		0	0	0	0	
Morongo Basin Pipeline De	ot Reimbs	0	0	0	0	
Subtotal		2,567,000	21,260,000	3,371,000	3,486,000	3,605,
Total Expenses		9,912,000	29,071,000	11,477,000	13,188,000	13,663,
Revenues Less Expenses		222,000	(97,000)	394,000	(452,000)	(129,
Ending Fund Reserves		13,068,000	12,971,000	13,365,000	12,913,000	12,784,0
Min Fund Rsrv Target (50% O	&M + \$2M)	5,538,500	5,771,500	5,919,000	6,517,000	6,695,
Debt Service Coverage		11.41	12.80	15.05	5.54	6
Cumulative Change in Fund	Danamina	222,000	125,000	519,000	67,000	(62,

able A1 JBWD Cash Flow Projections A - Best Mgmt Practice with Reduced Expenses				Year 6 - 10		
	6	7	8	9	10	
	Projected 2027/28	Projected 2028/29	Projected 2029/30	Projected 2030/31	Projected 2030/31	Esc Factor
Effective Date of Rate Adjustment	Jan-1	Jan-1	Jan-1	Jan-1	Jan-1	lacto
Overall Rate Increase Target	4%	4%	4%	4%	4%	
Fixed Rate Increase %	5%	4%	4%	4%	4%	
Usage Rate Increase %	3.6%	4.0%	4.0%	4.0%	4.0%	
Growth: New 1" Meters or Equivalents	25	25	25	25	25	
Growth %	0.5%	0.5%	0.5%	0.5%	0.5%	
Wtr Demand Elasticity (Response to Rate Incr) Change in Water Use After Rate Increase	(0.10) -0.4%	(0.10) -0.4%	(0.10) -0.4%	(0.10) -0.4%	(0.10) -0.4%	
Water Purchases from MWA (AF)	1,000	1,000	1,000	1,000	1,000	
MWA Rate per AF	\$726	\$748	\$770	\$793	\$817	3.09
Interest Earnings Rate	1.5%	1.5%	1.5%	1.5%	1.5%	
Annual Cost Escalator	4.0%	4.0%	4.0%	4.0%	4.0%	
Beginning Fund Reserves	\$12,784,000	\$12,830,000	\$12,835,000	\$12,931,000	\$12,981,000	
REVENUES						
Basic Monthly Fees	3,386,000	3,555,000	3,715,000	3,883,000	4,058,000	
Water Usage Charges	7,343,000	7,590,000	7,862,000	8,144,000	8,436,000	
Basic Monthly Fees: Locked Meters	485,000	504,000	524,000	545,000	567,000	
Standby Revenue	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	
Property Taxes	742,000	757,000	772,000	787,000	803,000	2.09
Private Fire Svc & Special Services	220,000	224,000	228,000	233,000	238,000	2.09
Water Capacity & Meter Install Fees	258,000	258,000	258,000	258,000	258,000	
Interest Earnings & Gain Loss/Chg Mkt Value	192,000	192,000	193,000	194,000	195,000	
HDMC WWTP Reimbursements	349,000	362,000	377,000	392,000	407,000	
Other Revenues	25,000	25,000	25,000	25,000	25,000	
Total Revenues	14,200,000	14,667,000	15,154,000	15,661,000	16,187,000	
SRF Grant for Chromium 6 Project						
SRF Loan for Chromium 6 Project						
EXPENSES		7				
Operating & Maintenance						
Production	1,687,000	1,754,000	1,824,000	1,897,000	1,973,000	
Recharge Water Purchases from MWA	726,000	748,000	770,000	793,000	817,000	
Distribution	1,503,000	1,563,000	1,626,000	1,691,000	1,759,000	
Customer Service	965,000	1,004,000	1,044,000	1,086,000	1,129,000	
Administration	1,556,000	1,618,000	1,683,000	1,750,000	1,820,000	
Finance	1,154,000	1,200,000	1,248,000	1,298,000	1,350,000	
Human Resources	331,000	344,000	358,000	372,000	387,000	
HDMC WWTP Operations (reimburseable)	286,000	297,000	309,000	321,000	334,000	
Standby Admin/Developmt & Engineering	108,000	112,000	116,000	121,000	126,000	
Add'l Staffing Needs (deferred & reduced)	206,000	214,000	223,000	232,000	241,000	
CIRP Program (Operating Portion)	549,000	571,000	594,000	618,000	643,000	
Capitalized Overhead Adjustment	(124,000)	(129,000)	(134,000)	(139,000)	(145,000)	
Chrome 6 Operations (estimated)	811,000	843,000	877,000	912,000	948,000	
Subtotal	9,758,000	10,139,000	10,538,000	10,952,000	11,382,000	
Debt Service						
2018 Installment Sale Agmt (CIRP)	268,000	268,000	268,000	268,000	268,000	
Chrome 6 SRF Loan (\$8M, 2.75%, 30-Yr)	400,000	400,000	400,000	400,000	400,000	
Subtotal	668,000	668,000	668,000	668,000	668,000	
Capital/Non-Operating						
Capital Improvement Program (CIP)	2,870,000	2,970,000	3,074,000	3,182,000	3,293,000	
Equipment/Technology	439,000	457,000	475,000	494,000	514,000	
Studies/Reports	234,000	243,000	253,000	263,000	274,000	
Chromium 6 Project (grant & loan funded)	0	0	0	0	0	
Meter Replacement Program	185,000	185,000	50,000	52,000	54,000	
Admin Building & Financing (deleted)	0	0	0	0	0	
Morongo Basin Pipeline Debt Reimbs	0	0	0	0	0	
Subtotal	3,728,000	3,855,000	3,852,000	3,991,000	4,135,000	
Total Expenses	14,154,000	14,662,000	15,058,000	15,611,000	16,185,000	
Revenues Less Expenses	46,000	5,000	96,000	50,000	2,000	
Ending Fund Reserves	12,830,000	12,835,000	12,931,000	12,981,000	12,983,000	
Min Fund Rsrv Target (50% O&M + \$2M)	6,879,000	7,069,500	7,269,000	7,476,000	7,691,000	
Debt Service Coverage	6.65	6.78	6.91	7.05	7.19	
Cumulative Fund Reserve Drawdown	(16,000)	(11,000)	85,000	135,000	137,000	

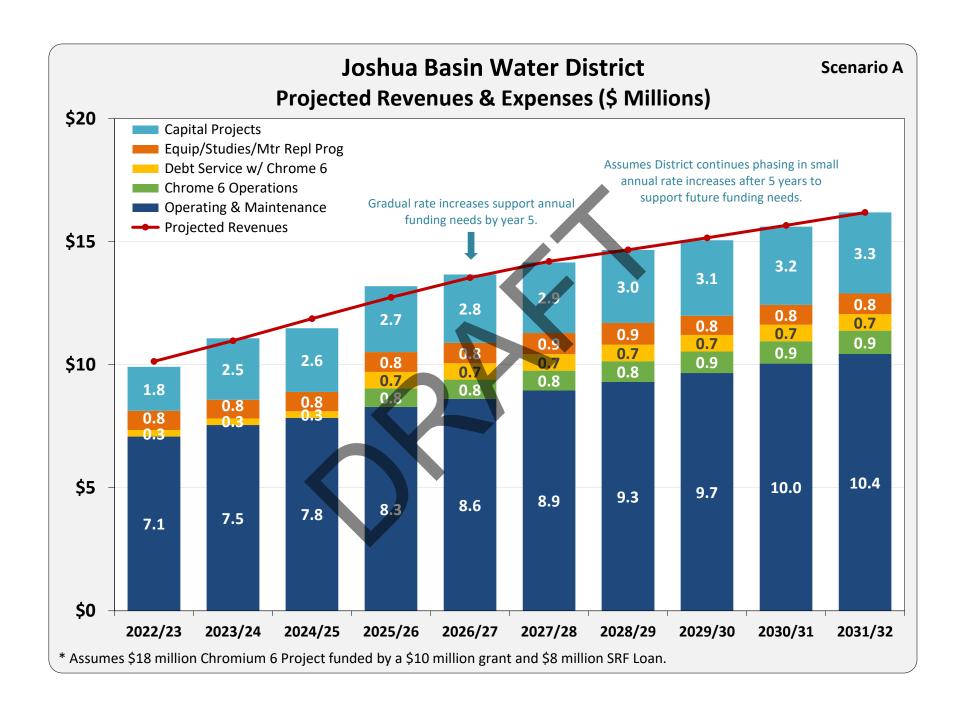


Table A2 Joshua Basin Water District Accounts by Meter Size

	Number		Capacity ^{1,2}	Meter	Meter
	of Accounts	% of Class		Ratio	Equivalents
Active Water Accounts					
3/4"	4,372	89.4%	30	1.00	4,372
1"	464	9.5%	30	1.00	464
1-1/2"	27	0.6%	100	3.33	90
2"	21	0.4%	160	5.33	112
3"	5	0.1%	300	10.00	50
Subtotal	4,889	100.0%			5,088
Water Accounts with Lock	ed Meters				
3/4"	713	94.1%	30	1.00	713
3/4" Irrig	3	0.4%	30	1.00	3
1"	39	5.1%	30	1.00	39
1-1/2"	3	0.4%	100	3.33	10
Subtotal	758	100.0%			765
Fire Line Accounts					
2"	2				
4"	7				
6"	6				
8"	9				
Total	24				

Source: Based average number of accounts from May & June 2022 from utility billing data.

- 1 Based on American Water Works Association standard meter capacities.
- 2 Capacity of 1" meters assigned same capacity as 3/4" meters due to updated plumbing codes requiring installation of 1" meters in single family homes for fire flow, while the underlying demand remains the same as other single family homes served by a 3/4" meter.

Note: Number of accounts can vary by billing period due to changes in account status and growth.

Table A3 Joshua Basin Water District Projected Water Use

Scenario A
Best Management Practice with Cost Reductions
Limit Fixed Rate Increases to 5% per Year

	5-Yr Avg		Pro	jected Water l	Jse	
	FY18 - FY22	2022/23	2023/24	2024/25	2025/26	2026/27
Change in Use After Ra	te Increase	-2.3%	-1.9%	-1.5%	-1.2%	-0.9%
	Jul-Dec	<u>Jul-Feb</u>	<u>Jul-Dec</u>	<u>Jul-Dec</u>	<u>Jul-Dec</u>	<u>Jul-Dec</u>
Billed Use by Tier for 3,						
Tier 1	98,300	127,800	97,800	97,400	97,100	96,900
Tier 2	51,000	61,800	49,200	47,800	46,700	45,800
Tier 3	44,700	51,500	42,800	41,300	40,200	39,300
Tier 4	49,900	56,600	47,400	45,400	43,900	42,700
All Other Use (hcf)	45,200	55,200	44,700	44,300	44,000	43,700
	<u>Jan-Jun</u>	<u>Mar-Jun</u>	<u>Jan-Jun</u>	<u>Jan-Jun</u>	<u>Jan-Jun</u>	<u>Jan-Jun</u>
Billed Use by Tier for 3,	/4" & 1" Meters	s (hcf)				
Tier 1	91,700	62,000	90,900	90,600	90,400	90,200
Tier 2	37,400	25,700	35,100	34,300	33,700	33,200
Tier 3	26,400	18,800	24,400	23,700	23,200	22,800
Tier 4	24,800	17,200	22,600	21,800	21,200	20,800
All Other Use (hcf)	32,200	22,000	31,500	31,300	31,100	31,000
Total Annual Use						
Billed Use by Tier for 3,	 /4" & 1" Meters	s (hcf)				
Tier 1	190,000	189,800	188,700	188,000	187,500	187,100
Tier 2	88,400	87,500	84,300	82,100	80,400	79,000
Tier 3	71,100	70,300	67,200	65,000	63,400	62,100
Tier 4	74,700	73,800	70,000	67,200	65,100	63,500
All Other Use (hcf)	77,400	77,200	76,200	75,600	75,100	74,700
Annual Total	501,600	498,600	486,400	477,900	471,500	466,400
Annual Change		-0.6%	-2.4%	-1.7%	-1.3%	-1.1%
Cumulative Change		-0.6%	-3.0%	-4.7%	-6.0%	-7.0%

Table A4 Joshua Basin Water District Cost Recovery Allocation

Fixe	ed vs. Variable Ra	te Recovery			
	Year 5	Cost Recov	ery %	Cost Rec	overy \$
	2026/27	Fixed	Variable	Fixed	Variable
EXPENSES					
Operating & Maintenance					
Production	1,622,000	0%	100%	0	1,622,000
Recharge Water Purchases from MWA	705,000	0%	100%	0	705,000
Distribution	1,445,000	0%	100%	0	1,445,000
Customer Service (10% for Conservation Prog)	928,000	90%	10%	835,200	92,800
Administration	1,496,000	75%	25%	1,122,000	374,000
Finance	1,110,000	75%	25%	832,500	277,500
Human Resources	318,000	75%	25%	238,500	79,500
HDMC WWTP Operations (reimburseable)	275,000	100%	0%	275,000	0
Standby Admin/Dvlmnt & Engin/Other	104,000	50%	50%	52,000	52,000
Add'l Staffing Needs (deferred & reduced)	198,000	75%	25%	148,500	49,500
CIRP Program (Operating Portion)	528,000	25%	75%	132,000	396,000
Capitalized Overhead Adjustment	(119,000)	25%	75%	(29,750)	(89,250)
Chrome 6 Operations (estimated)	780,000	0%	100%	0	780,000
Subtotal	9,390,000	38%	62%	3,605,950	5,784,050
Debt Service					
2018 Installment Sale Agmt (CIRP)	268,000	25%	75%	67,000	201,000
Chrome 6 SRF Loan (\$8M, 2.75%, 30-Yr)	400,000	0%	100%	0	400,000
Subtotal	668,000	50%	50%	67,000	601,000
Non-Operating/Discretionary					
Capital Improvement Program (CIP)	2,773,000	25%	75%	693,250	2,079,750
Equipment/Technology	422,000	50%	50%	211,000	211,000
Studies/Reports	225,000	50%	50%	112,500	112,500
Meter Replacement Program	185,000	100%	0%	185,000	0
Subtotal	3,605,000	33%	67%	1,201,750	2,403,250
Total Expenses	13,663,000	35.7%	64.3%	4,874,700	8,788,300
NET FUNDING REQUIRED FROM WATER RATES					
Total Expenses	13,663,000	35.7%	64.3%	4,874,700	8,788,300
Less Property Tax Revenues	(727,000)	35.7%	64.3%	(259,380)	(467,620)
Less Other Non-Rate Revenues	(2,229,000)	35.7%	64.3%	(795,265)	(1,433,735)
Net Funding Requirement from Water Rates	11,434,000	35.7%	64.3%	4,079,435	7,354,565
Rounded Target		36.0%	64.0%		

Excludes capital improvement projects funded by grants and debt, but includes associated debt service.

Table A5
Joshua Basin Water District
Fixed Meter Charge Derivation

	Jan-1
	2017
Water Rate Revenue Recovery	
Annualized Revenues w/ Rate Increases	\$10,549,000
Fixed Data Dassuary	
Fixed Rate Recovery	•
Cost Recovery Allocation %	36%
Cost Recovery Allocation \$	\$3,797,640
Meter Equivalents	
Active Water Accounts	5,088
Locked Meter Accounts	765
Projected Growth	<u>150</u>
Total	6,003
Rate per Meter Equivalent	
Annual	\$632.62
Monthly	52.72
Rounded	52.70

Table A6
Joshua Basin Water District
Usage/Flow Rate Cost Recovery Allocation

Usage	Rate Recovery	y: Base vs. E	xtra Capaci	ity Cost A	Allocation		
	Projected	Fixed	Usage		Usage Ra	te Allocation	
	Expenses	Rate	Rate	Base	Extra	Base	Extra
	2026/27	Recovery	Recovery	%	Capacity %	\$	Capacity \$
REVENUE REQUIREMENT FROM WATER U	SAGE CHARGES						
Expenses Fully Allocated for Base Usage Rate F	Revenue Recovery	1					
Production	1,622,000	0	1,622,000	100%	0%	1,622,000	0
Recharge Water Purchases from MWA	705,000	0	705,000	100%	0%	705,000	0
Distribution	1,445,000	0	1,445,000	100%	0%	1,445,000	0
Customer Service (10% for Conservation Prog	928,000	835,200	92,800	0%	100%	0	92,800
Administration	1,496,000	1,122,000	374,000	100%	0%	374,000	0
Finance	1,110,000	832,500	277,500	100%	0%	277,500	0
Human Resources	318,000	238,500	79,500	100%	0%	79,500	0
HDMC WWTP Operations (reimburseable)	275,000	275,000	0	100%	0%	0	0
Standby Admin/Dvlmnt & Engin/Other	104,000	52,000	52,000	100%	0%	52,000	0
Add'l Staffing Needs (deferred & reduced)	198,000	148,500	49,500	100%	0%	49,500	0
Chrome 6 Operations (estimated)	780,000	0	780,000	100%	0%	780,000	0
Equipment/Technology	422,000	211,000	211,000	100%	0%	211,000	0
Studies/Reports	225,000	112,500	112,500	100%	0%	112,500	0
Meter Replacement Program	185,000	185,000	0	100%	0%	0	0
Subtotal	9,813,000	4,012,200	5,800,800	98.4%	1.6%	5,708,000	92,800
Expenses Partially Allocated for Extra Capacity	Revenue Recove	ry					
Debt Service	668,000	67,000	601,000	90%	10%	540,900	60,100
Capital Improvements	2,773,000	693,250	2,079,750	80%	20%	1,663,800	415,950
CIRP Program Less Capitalized Portion	409,000	102,250	306,750	80%	20%	245,400	61,350
Subtotal	3,850,000	862,500	2,987,500	82.0%	18.0%	2,450,100	537,400
Total	13,663,000	4,874,700	8,788,300	92.8%	7.2%	8,158,100	630,200
Offsetting Non-Rate Revenues		7					
Property Taxes	727,000	259,380	467,620	40%	60%	187,048	280,572
All Other Non-Rate Revenues	2,229,000	795,265	1,433,735	100%	0%	1,433,735	0
Subtotal	2,956,000	1,054,645	1,901,355	85.2%	14.8%	1,620,783	280,572

Table A7
Joshua Basin Water District
Quantity Charge Cost Attribution & Rate Derivation

Water F	low Rate Cal	culation				
		3/4" and 1	L" Meters			All Other
	Tier 1	Tier 2	Tier 3	Tier 4		All
	0 - 5	5.01 - 10	10.01 - 20	20.01+	Subtotal	Use
Projected Water Use (hcf)	187,100	79,000	62,100	63,500	391,700	74,700
% of Total Use	40.1%	16.9%	13.3%	13.6%	84.0%	16.0%
Extra Capacity Cost Allocation						
% of Water in Class & Tier for Extra Capacity Cost Recovery	0.0%	12.0%	44.7%	77.3%	22.0%	22.0%
Volume of Water for Extra Capacity Cost Recovery	0	9,480	27,759	49,086	86,324	16,463
% of Total Water for Extra Capacity Cost Recovery	0.0%	9.2%	27.0%	47.8%	84.0%	16.0%
Base Water Flow Charge (\$/hcf)	\$14.76	\$14.76	\$14.76	\$14.76		\$14.76
Adjustments for Extra Capacity & Prop Tax Allocations (\$/hcf)						
Extra Capacity Expenses \$630,200	\$0	\$58,123	\$170,192	\$300,950		\$100,935
Less Allocated Prop Tax Offset (280,572)	(235,635)	0	0	0		(44,937)
Total	(235,635)	58,123	170,192	300,950		55,997
Divided by Water Use in Tier	187,100	79,000	62,100	63,500		74,700
Net Adjustments (\$/hcf)	(\$1.26)	\$0.74	\$2.74	\$4.74		\$0.74
Water Flow Charges (\$/hcf)	\$13.50	\$15.50	\$17.50	\$19.50		\$15.50

Scenario A
Best Management Practice with Cost Reductions
Limit Fixed Rate Increases to 5% per Year

	Projected	d Water R	ates A					
	Current		Project	ted Rates Ef	fective			
	Water	Mar-1	Jan-1	Jan-1	Jan-1	Jan-1		
	Rates	2023	2024	2025	2026	2027		
BASIC MONTHLY FEE								
Fixed monthly charge based on meter .	size							
Meter Size								
3/4 & 1 inch	\$41.35	\$43.40	\$45.55	\$47.80	\$50.20	\$52.70		
1-1/2 inches	137.83	144.67	151.83	159.33	167.33	175.67		
2 inches	220.53	231.47	242.93	254.93	267.73	281.07		
3 inches	413.50	434.00	455.50	478.00	502.00	527.00		
MONTHLY WATER FLOW CHARGES	6							
Billed based on metered water use, as measured in units of one hundred cubic feet (\$/hcf)								
For 3/4" and 1" Meters								
Tier 1 0 - 5 units	\$6.20	\$7.80	\$9.50	\$11.00	\$12.30	\$13.50		
Tier 2 5.01 - 10 units	7.70	9.50	11.30	12.90	14.25	15.50		
Tier 3 10.01 - 20 units	9.20	11.20	13.10	14.80	16.20	17.50		
Tier 4 20.01 + units	10.70	12.90	14.90	16.70	18.15	19.50		
For 1-1/2", 2" and 3" Meters								
Unit rate for all water use	\$7.70	\$9.50	\$11.30	\$12.90	\$14.25	\$15.50		
Note: 1 unit = one hundred cubic feet,	or approxim	ately 748 gd	allons.					
PRIVATE FIRE PROTECTION CHARG	ES							
Fixed monthly charge based on size of	service conn	ection						
Service Size								
2 inches	\$22.05	\$23.15	\$24.29	\$25.49	\$26.77	\$28.11		
3 inches	41.34	43.40	45.55	47.80	50.20	52.70		
4 inches	68.91	72.34	75.91	79.66	83.66	87.84		
6 inches	137.81	144.69	151.81	159.31	167.31	175.69		
8 inches	220.50	231.50	242.90	254.90	267.70	281.10		

Table A9 Joshua Basin Water District **Best Management Practice with Cost Reductions** Bill Impacts (3/4" or 1" Meter)

Scenario A

Monthly		Current		Project	ted Monthl	y Bills		5-Year Impact		
Use	% of	Monthly	Mar-1	Jan-1	Jan-1	Jan-1	Jan-1			
(hcf)	Bills	Bill	2023	2024	2025	2026	2027	\$/month	%	\$/day
0	7.3%	\$41.35	\$43.40	\$45.55	\$47.80	\$50.20	\$52.70	\$11.35	27.4%	\$0.37
1	9.6%	47.55	51.20	55.05	58.80	62.50	66.20	18.65	39.2%	0.61
2	10.7%	53.75	59.00	64.55	69.80	74.80	79.70	25.95	48.3%	0.85
3 Low	10.4%	59.95	66.80	74.05	80.80	87.10	93.20	33.25	55.5%	1.09
4	9.2%	66.15	74.60	83.55	91.80	99.40	106.70	40.55	61.3%	1.33
5 Median	8.0%	72.35	82.40	93.05	102.80	111.70	120.20	47.85	66.1%	1.57
6 Typical	6.4%	80.05	91.90	104.35	115.70	125.95	135.70	55.65	69.5%	1.83
7	5.4%	87.75	101.40	115.65	128.60	140.20	151.20	63.45	72.3%	2.09
8 Average	e 4.6%	95.45	110.90	126.95	141.50	154.45	166.70	71.25	74.6%	2.34
9	3.9%	103.15	120.40	138.25	154.40	168.70	182.20	79.05	76.6%	2.60
10	3.0%	110.85	129.90	149.55	167.30	182.95	197.70	86.85	78.3%	2.86
11	2.6%	120.05	141.10	162.65	182.10	199.15	215.20	95.15	79.3%	3.13
12	2.1%	129.25	152.30	175.75	196.90	215.35	232.70	103.45	80.0%	3.40
13	1.8%	138.45	163.50	188.85	211.70	231.55	250.20	111.75	80.7%	3.67
14	1.7%	147.65	174.70	201.95	226.50	247.75	267.70	120.05	81.3%	3.95
15	1.3%	156.85	185.90	215.05	241.30	263.95	285.20	128.35	81.8%	4.22
16	1.1%	166.05	197.10	228.15	256.10	280.15	302.70	136.65	82.3%	4.49
17 Top 10	% 1.0%	175.25	208.30	241.25	270.90	296.35	320.20	144.95	82.7%	4.77
18	1.0%	184.45	219.50	254.35	285.70	312.55	337.70	153.25	83.1%	5.04
19	0.8%	193.65	230.70	267.45	300.50	328.75	355.20	161.55	83.4%	5.31
20	0.7%	202.85	241.90	280.55	315.30	344.95	372.70	169.85	83.7%	5.58
21	0.7%	213.55	254.80	295.45	332.00	363.10	392.20	178.65	83.7%	5.87
22	0.6%	224.25	267.70	310.35	348.70	381.25	411.70	187.45	83.6%	6.16
23	0.5%	234.95	280.60	325.25	365.40	399.40	431.20	196.25	83.5%	6.45
24	0.4%	245.65	293.50	340.15	382.10	417.55	450.70	205.05	83.5%	6.74
25	0.4%	256.35	306.40	355.05	398.80	435.70	470.20	213.85	83.4%	7.03

Scenario A

Best Management Practice with Cost Reductions

Limit Fixed Rate Increases to 5% per Year

	Projected	d Fixed Rat	te Revenu	e Check A			
	Prior	Current		Projec	ted Rates Eff	ective	
	Jan-1	Jan-1	Mar-1	Jan-1	Jan-1	Jan-1	Jan-1
PROJECTED BASIC MONTHLY FEE	6						
Fixed monthly charge based on meter							
Meter Size							
3/4 & 1 inch	\$38.03	\$41.35	\$43.40	\$45.55	\$47.80	\$50.20	\$52.70
1-1/2 inches	126.77	137.83	144.67	151.83	159.33	167.33	175.67
2 inches	202.83	220.53	231.47	242.93	254.93	267.73	281.07
3 inches	380.30	413.50	434.00	455.50	478.00	502.00	527.00
Active Water Accounts							
Projected Growth			50	25	25	25	25
3/4 & 1 inch		4,836	4,886	4,911	4,936	4,961	4,986
1-1/2 inches		27	27	27	27	27	27
2 inches		21	21	21	21	21	21
3 inches		5	5	5	5	5	5
Locked Meters							
3/4 & 1 inch		755	755	755	755	755	755
1-1/2 inches		3	3	3	3	3	3
	2021/22	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27
FIXED RATE REVENUES BY FISCAL	YEAR						
Months at New Rate		6	4	6	6	6	ϵ
Fixed Revenues: Active Water Accts							
3/4 & 1 inch		2,303,290	2,464,498	2,621,001	2,764,654	2,917,068	3,078,356
1-1/2 inches		42,865	45,396	48,033	50,408	52,919	55,566
2 inches		53,343	56,493	59,774	62,730	65,855	69,149
3 inches		23,814	25,220	26,685	28,005	29,400	30,870
Subtotal		2,423,313	2,591,607	2,755,493	2,905,797	3,065,242	3,233,941
Less Delinquency Factor	1.00%	(24,233)	(25,916)	(27,555)	(29,058)	(30,652)	(32,339
Net Total		2,399,080	2,565,690	2,727,938	2,876,739	3,034,590	3,201,602
Fixed Revenues: Locked Meters							
3/4 & 1 inch		359,591	380,822	402,944	422,876	443,940	466,137
1-1/2 inches		4,763	5,044	5,337	5,601	5,880	6,174
Subtotal		364,354	385,866	408,281	428,476	449,820	472,311
Less Delinquency %	1.00%	(3,644)	(3,859)	(4,083)	(4,285)	(4,498)	(4,723
Net Total		360,711	382,007	404,198	424,192	445,322	467,588

Table A11
Joshua Basin Water District
Projected Water Use & Consumption Charges

Scenario A
Best Management Practice with Cost Reductions
Limit Fixed Rate Increases to 5% per Year

	Projec	ted Usage F	Rate Reveni	ie Check A		
	Current		Proje	cted Rates Effe	ective	
	Jan-1 2022	Mar-1 2023	Jan-1 2024	Jan-1 2025	Jan-1 2026	Jan-1 2027
PROJECTED WATER	ELOW CHARGE	- C	-			-
Billed Use by Tier for 3						
Tier 1	\$6.20	\$7.80	\$9.50	\$11.00	\$12.30	\$13.50
Tier 2	7.70	9.50	11.30	12.90	14.25	15.50
Tier 3	9.20	11.20	13.10	14.80	16.20	17.50
Tier 4	10.70	12.90	14.90	16.70	18.15	19.50
All Other Use (hcf)	7.70	9.50	11.30	12.90	14.25	15.50
All Other Ose (lici)	7.70	3.30	11.50	12.50	14.23	15.50
	5-Yr Avg			Projected		
	FY18 - FY22	2022/23	2023/24	2024/25	2025/26	2026/27
PROJECTED WATER	USE					
Change in Use After Rate Increase		-2.3%	-1.9%	-1.5%	-1.2%	-0.9%
	<u>Jul-Dec</u>	<u>Jul-Feb</u>	<u>Jul-Dec</u>	<u>Jul-Dec</u>	<u>Jul-Dec</u>	<u>Jul-Dec</u>
Billed Use by Tier for 3	3/4" & 1" Meters	(hcf)				
Tier 1	98,300	127,800	97,800	97,400	97,100	96,900
Tier 2	51,000	61,800	49,200	47,800	46,700	45,800
Tier 3	44,700	51,500	42,800	41,300	40,200	39,300
Tier 4	49,900	56,600	47,400	45,400	43,900	42,700
All Other Use (hcf)	45,200	55,200	44,700	44,300	44,000	43,700
	Jan-Jun	<u>Mar-Jun</u>	<u>Jan-Jun</u>	Jan-Jun	<u>Jan-Jun</u>	<u>Jan-Jun</u>
Billed Use by Tier for 3	/4" & 1" Meters	(hcf)				
Tier 1	91,700	62,000	90,900	90,600	90,400	90,200
Tier 2	37,400	25,700	35,100	34,300	33,700	33,200
Tier 3	26,400	18,800	24,400	23,700	23,200	22,800
Tier 4	24,800	17,200	22,600	21,800	21,200	20,800
All Other Use (hcf)	32,200	22,000	31,500	31,300	31,100	31,000
Annual Total	501,600	498,600	486,400	477,900	471,500	466,400

Scenario C

Limit Overall Rate Increases to 9% Per Year & Reduce CIP

Assumes Continued 9% Rate Increases After 5 Years
To Eventually Support Full Capital Funding

ļ	Table C1 JBWD Cash Flow Proje					Years 1 -
		1 Projected	2 Projected	3 Projected	4 Projected	Project
		2022/23	2023/24	2024/25	2025/26	2026,
- 1	Effective Date of Rate Adjustment	Mar-1	Jan-1	Jan-1	Jan-1	Ja
	Overall Rate Increase Target Fixed Rate Increase %	9% 5%	9% 5%	9% 5%	9% 5%	
	Usage Rate Increase %	11.6%	11.5%	11.3%	11.2%	11.
	Growth: New 1" Meters or Equivalents	50	25	25	25	
l	Growth %	1.0%	0.5%	0.5%	0.5%	0.
ı	Wtr Demand Elasticity (Response to Rate Incr)	(0.10)	(0.10)	(0.10)	(0.10)	(0.
ı	Change in Water Use After Rate Increase	-1.2%	-1.1%	-1.1%	-1.1%	-1
ı	Water Purchases from MWA (AF) MWA Rate per AF	916 \$623	1,000 \$645	1,000 \$664	1,000 \$684	1,0 \$7
ı	Interest Earnings Rate	1.0%	1.5%	1.5%	1.5%	رد 1
ı	Annual Cost Escalator	1.070	6.0%	4.0%	4.0%	4
ŀ	Beginning Fund Reserves	\$12,846,000	\$12,907,000	\$12,777,000	\$12,943,000	\$12,141,0
l	REVENUES			Compounded 5-Yes	ar Rate Increase >>	
ı	Basic Monthly Fees	2,560,000	2,731,000	2,882,000	3,041,000	3,209,0
I	Water Usage Charges	4,041,000	4,455,000	4,862,000	5,302,000	5,781,0
I	Basic Monthly Fees: Locked Meters	380,000	399,000	419,000	440,000	462,0
ĺ	Standby Revenue	1,200,000	1,200,000	1,200,000	1,200,000	1,200,0
	Property Taxes	672,000	685,000	699,000	713,000	727,0
	Private Fire Svc & Special Services	200,000	204,000	208,000	212,000	216,0
	Water Capacity & Meter Install Fees	486,000	250,000	258,000	258,000	258,0
	Interest Earnings & Gain Loss/Chg Mkt Value	128,000	194,000	192,000	194,000	182,0
	HDMC WWTP Reimbursements	281,000	298,000	310,000	322,000	336,0
	Other Revenues	25,000	25,000	25,000	25,000	25,0
	Total Revenues	9,973,000	10,441,000	11,055,000	11,707,000	12,396,
		2,212,222				,_,,
	SRF Grant for Chromium 6 Project SRF Loan for Chromium 6 Project		10,000,000 8,000,000			
	EXPENSES	1				
	Operating & Maintenance	V				
	Production	1,360,000	1,442,000	1,500,000	1,560,000	1,622,
	Recharge Water Purchases from MWA	571,000	645,000	664,000	684,000	705,0
	Distribution	1,212,000	1,285,000	1,336,000	1,389,000	1,445,0
	Customer Service	778,000	825,000	858,000	892,000	928,
	Administration	1,255,000	1,330,000	1,383,000	1,438,000	1,496,
	Finance	931,000	987,000	1,026,000	1,067,000	1,110,
	Human Resources	267,000	283,000	294,000	306,000	318,0
	HDMC WWTP Operations (reimburseable)	230,000	244,000	254,000	264,000	275,0
	Standby Admin/Developmt & Engineering	87,000	92,000	96,000	100,000	104,0
	Add'l Staffing Needs (deferred & reduced)	44,000	47,000	49,000	190,000	198,
	CIRP Program (Operating Portion)	442,000	469,000	488,000	508,000	528,0
	Capitalized Overhead Adjustment	(100,000)	(106,000)	(110,000)	(114,000)	(119,
	Chrome 6 Operations (estimated)	0	0	0	750,000	780,
	Subtotal	7,077,000	7,543,000	7,838,000	9,034,000	9,390,
	Debt Service					
	2018 Installment Sale Agmt (CIRP)	268,000	268,000	268,000	268,000	268,
	Chrome 6 SRF Loan (\$8M, 2.75%, 30-Yr)				400,000	400,0
	Subtotal	268,000	268,000	268,000	668,000	668,
	Capital/Non-Operating					
	Capital Improvement Program (CIP)	1,785,000	2,000,000	2,000,000	2,000,000	2,000,
	Equipment/Technology	300,000	375,000	390,000	406,000	422,0
	Studies/Reports	300,000	200,000	208,000	216,000	225,
	Chromium 6 Project (grant & loan funded)	0	18,000,000		0	
	Meter Replacement Program	182,000	185,000	185,000	185,000	185,0
	Admin Building & Financing (deleted)	0	0	0	0	
	Morongo Basin Pipeline Debt Reimbs	0	0	0	0	
	Subtotal	2,567,000	20,760,000	2,783,000	2,807,000	2,832,
	Total Expenses	9,912,000	28,571,000	10,889,000	12,509,000	12,890,
	Revenues Less Expenses	61,000	(130,000)	166,000	(802,000)	(494,
	Ending Fund Reserves	12,907,000	12,777,000	12,943,000	12,141,000	11,647,
	Min Fund Rsrv Target (50% O&M + \$2M)	5,538,500	5,771,500	5,919,000	6,517,000	6,695,
	Debt Service Coverage	10.81	10.81	12.00	4.00	4

ı	Table C1 JBWD Cash Flow Proje	ctions C - Limi	t Overall Rate	Increases to 9	%	Year 6			
ı	·	6	7	8	9	10			
ĺ		Projected	Projected	Projected	Projected	Projected	Esc		
ŀ	Effect's Date of Date Adjustment	2027/28	2028/29	2029/30	2030/31	2030/31	Facto		
- 1	Effective Date of Rate Adjustment Overall Rate Increase Target	Jan-1 8%	Jan-1 8%	Jan-1 8%	Jan-1 7%	Jan-1 6%			
	Fixed Rate Increase %	5%	4%	4%	4%	4%			
	Usage Rate Increase %	9.5%	9.9%	9.8%	8.3%	6.8%			
	Growth: New 1" Meters or Equivalents	25	25	25	25	25			
- 1	Growth %	0.5%	0.5%	0.5%	0.5%	0.5%			
	Wtr Demand Elasticity (Response to Rate Incr)	(0.10)	(0.10)	(0.10)	(0.10)	(0.10)			
- 1	Change in Water Use After Rate Increase Water Purchases from MWA (AF)	-0.9% 1,000	-1.0% 1,000	-1.0% 1,000	-0.8% 1,000	-0.7% 1,000			
	MWA Rate per AF	\$726	\$748	\$770	\$793	\$817	3.09		
- 1	Interest Earnings Rate	1.5%	1.5%	1.5%	1.5%	1.5%	0.07		
	Annual Cost Escalator	4.0%	4.0%	4.0%	4.0%	4.0%			
	Beginning Fund Reserves	\$11,647,000	\$11,482,000	\$11,416,000	\$11,414,000	\$11,349,000			
	REVENUES								
	Basic Monthly Fees	3,386,000	3,555,000	3,715,000	3,883,000	4,058,000			
,	Water Usage Charges	6,279,000	6,769,000	7,312,000	7,870,000	8,383,000			
'	Basic Monthly Fees: Locked Meters	485,000	504,000	524,000	545,000	567,000			
	Standby Revenue	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000			
	Property Taxes	742,000	757,000	772,000	787,000	803,000	2.09		
- 1	Private Fire Svc & Special Services	220,000	224,000	228,000	233,000	238,000	2.09		
- 1	Water Capacity & Meter Install Fees	258,000	258,000	258,000	258,000	258,000			
	Interest Earnings & Gain Loss/Chg Mkt Value	175,000	172,000	171,000	171,000	170,000			
	HDMC WWTP Reimbursements	349,000	362,000	377,000	392,000	407,000			
•	Other Revenues	25,000	25,000	25,000	25,000	25,000			
;	Total Revenues	13,119,000	13,826,000	14,582,000	15,364,000	16,109,000			
	SRF Grant for Chromium 6 Project								
	SRF Loan for Chromium 6 Project								
,	EXPENSES								
	Operating & Maintenance								
!	Production	1,687,000	1,754,000	1,824,000	1,897,000	1,973,000			
;	Recharge Water Purchases from MWA	726,000	748,000	770,000	793,000	817,000			
ļ	Distribution	1,503,000	1,563,000	1,626,000	1,691,000	1,759,000			
;	Customer Service	965,000	1,004,000	1,044,000	1,086,000	1,129,000			
;	Administration	1,556,000	1,618,000	1,683,000	1,750,000	1,820,000			
,	Finance	1,154,000	1,200,000	1,248,000	1,298,000	1,350,000			
;	Human Resources	331,000	344,000	358,000	372,000	387,000			
١	HDMC WWTP Operations (reimburseable)	286,000	297,000	309,000	321,000	334,000			
1	Standby Admin/Developmt & Engineering	108,000	112,000	116,000	121,000	126,000			
	Add'l Staffing Needs (deferred & reduced)	206,000	214,000	223,000	232,000	241,000			
	CIRP Program (Operating Portion)	549,000	571,000	594,000	618,000	643,000			
	Capitalized Overhead Adjustment	(124,000)	(129,000)	(134,000)	(139,000)	(145,000)			
ļ	Chrome 6 Operations (estimated)	811,000	843,000	877,000	912,000	948,000			
	Subtotal	9,758,000	10,139,000	10,538,000	10,952,000	11,382,000			
,	Debt Service	*							
	2018 Installment Sale Agmt (CIRP)	268,000	268,000	268,000	268,000	268,000			
	Chrome 6 SRF Loan (\$8M, 2.75%, 30-Yr)	400,000	400,000	400,000	400,000	400,000			
	Subtotal	668,000	668,000	668,000	668,000	668,000			
	Capital/Non-Operating								
	Capital Improvement Program (CIP)	2,000,000	2,200,000	2,600,000	3,000,000	3,300,000			
	Equipment/Technology	439,000	457,000	475,000	494,000	514,000			
- 1	Studies/Reports	234,000	243,000	253,000	263,000	274,000			
- 1	Chromium 6 Project (grant & loan funded)	0	0	0	0	0			
	Meter Replacement Program	185,000	185,000	50,000	52,000	54,000			
- 1	Admin Building & Financing (deleted)	0	0	0	0	0			
	Morongo Basin Pipeline Debt Reimbs	0	0	0	0	0			
	Subtotal	2,858,000	3,085,000	3,378,000	3,809,000	4,142,000			
	Total Expenses	13,284,000	13,892,000	14,584,000	15,429,000	16,192,000			
	Revenues Less Expenses	(165,000)	(66,000)	(2,000)	(65,000)	(83,000)			
	Ending Fund Reserves	11,482,000	11,416,000	11,414,000	11,349,000	11,266,000			
	Min Fund Rsrv Target (50% O&M + \$2M)	6,879,000	7,069,500	7,269,000	7,476,000	7,691,000			
	Debt Service Coverage	5.03	5.52	6.05	6.60	7.08			
	Cumulative Fund Reserve Drawdown	(1,364,000)	(1,430,000)	(1,432,000)	(1,497,000)	(1,580,000)			

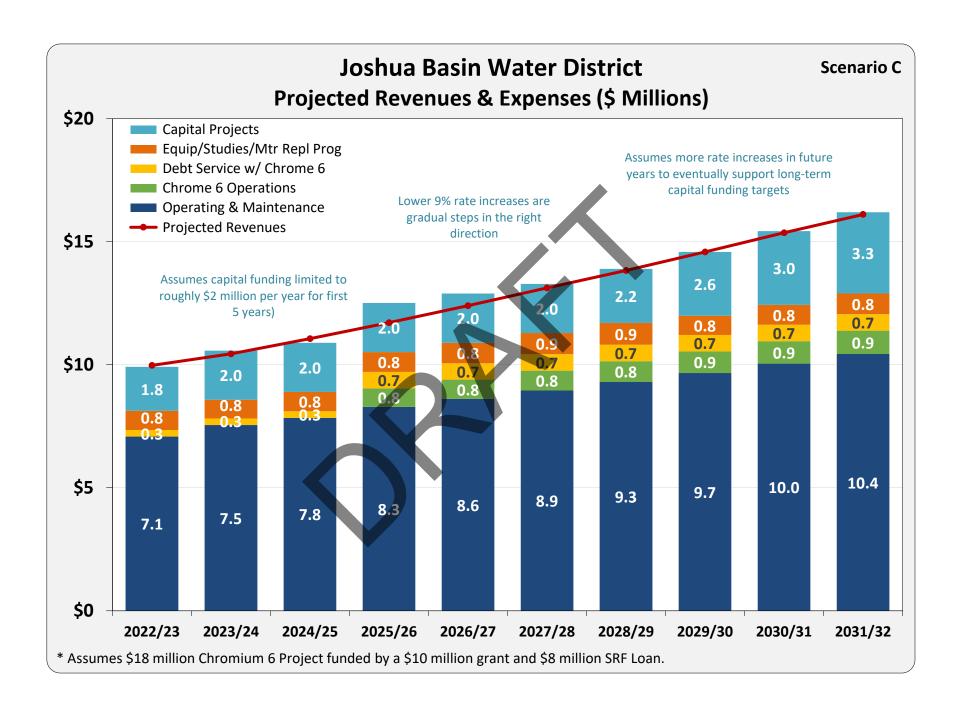


Table C2 Joshua Basin Water District Accounts by Meter Size

	Number		Capacity ^{1,2}	Meter	Meter
	of Accounts	% of Class		Ratio	Equivalents
Active Water Accounts					
3/4"	4,372	89.4%	30	1.00	4,372
1"	464	9.5%	30	1.00	464
1-1/2"	27	0.6%	100	3.33	90
2"	21	0.4%	160	5.33	112
3"	5	0.1%	300	10.00	50
Subtotal	4,889	100.0%			5,088
Water Accounts with Lock	ed Meters				
3/4"	713	94.1%	30	1.00	713
3/4" Irrig	3	0.4%	30	1.00	3
1"	39	5.1%	30	1.00	39
1-1/2"	3	0.4%	100	3.33	10
Subtotal	758	100.0%			765
Fire Line Accounts					
2"	2				
4"	7				
6"	6				
8"	9				
Total	24				

Source: Based average number of accounts from May & June 2022 from utility billing data.

- 1 Based on American Water Works Association standard meter capacities.
- 2 Capacity of 1" meters assigned same capacity as 3/4" meters due to updated plumbing codes requiring installation of 1" meters in single family homes for fire flow, while the underlying demand remains the same as other single family homes served by a 3/4" meter.

Note: Number of accounts can vary by billing period due to changes in account status and growth.

Table C3 Joshua Basin Water District Projected Water Use

Scenario C Limit Overall Rate Increases to 9% Limit Fixed Rate Increases to 5% per Year

	5-Yr Avg		Pro	jected Water l	Jse	
	FY18 - FY22	2022/23	2023/24	2024/25	2025/26	2026/27
Change in Use After Ra	te Increase	-1.2%	-1.1%	-1.1%	-1.1%	-1.1%
	<u>Jul-Dec</u>	<u>Jul-Feb</u>	<u>Jul-Dec</u>	<u>Jul-Dec</u>	<u>Jul-Dec</u>	<u>Jul-Dec</u>
Billed Use by Tier for 3,						
Tier 1	98,300	127,800	98,100	97,900	97,700	97,500
Tier 2	51,000	61,800	50,100	49,200	48,400	47,600
Tier 3	44,700	51,500	43,800	42,900	42,000	41,200
Tier 4	49,900	56,600	48,600	47,400	46,200	45,100
All Other Use (hcf)	45,200	55,200	44,900	44,600	44,300	44,100
	Jan-Jun	Mar-Jun	Jan-Jun	<u>Jan-Jun</u>	Jan-Jun	Jan-Jun
Billed Use by Tier for 3,					<u> </u>	
Tier 1	91,700	62,100	91,300	91,100	90,900	90,700
Tier 2	37,400	26,200	36,100	35,500	34,900	34,300
Tier 3	26,400	19,200	25,300	24,800	24,300	23,800
Tier 4	24,800	17,700	7,700 23,600 23,000		22,400	21,900
All Other Use (hcf)	32,200	22,100	31,800	31,600	31,400	31,200
Total Annual Has						
Total Annual Use Billed Use by Tier for 3,	//" 8. 1" N/otors	(hef)				
Tier 1	190,000	189,900	189,400	189,000	188,600	188,200
Tier 2	88,400	88,000	86,200	84,700	83,300	81,900
Tier 3	71,100	70,700	69,100	67,700	66,300	65,000
Tier 4	74,700	74,300	72,200	70,400	68,600	67,000
All Other Use (hcf)	77,400	77,300	76,700	76,200	75,700	75,300
Annual Total	501,600	500,200	493,600	488,000	482,500	477,400
Annual Change		-0.3%	-1.3%	-1.1%	-1.1%	-1.1%
Cumulative Change		-0.3%	-1.6%	-2.7%	-3.8%	-4.8%

Table C4
Joshua Basin Water District
Cost Recovery Allocation

Fixe	d vs. Variable Ra	te Recovery			
	Year 5	Cost Recov		Cost Rec	
	2026/27	Fixed	Variable	Fixed	Variable
EXPENSES					
Operating & Maintenance					
Production	1,622,000	0%	100%	0	1,622,000
Recharge Water Purchases from MWA	705,000	0%	100%	0	705,000
Distribution	1,445,000	0%	100%	0	1,445,000
Customer Service (10% for Conservation Prog)	928,000	90%	10%	835,200	92,800
Administration	1,496,000	80%	20%	1,196,800	299,200
Finance	1,110,000	80%	20%	888,000	222,000
Human Resources	318,000	80%	20%	254,400	63,600
HDMC WWTP Operations (reimburseable)	275,000	100%	0%	275,000	0
Standby Admin/Dvlmnt & Engin/Other	104,000	75%	25%	78,000	26,000
Add'l Staffing Needs (deferred & reduced)	198,000	80%	20%	158,400	39,600
CIRP Program (Operating Portion)	528,000	60%	40%	316,800	211,200
Capitalized Overhead Adjustment	(119,000)	60%	40%	(71,400)	(47,600)
Chrome 6 Operations (estimated)	780,000	0%	100%	0	780,000
Subtotal	9,390,000	42%	58%	3,931,200	5,458,800
Debt Service					
2018 Installment Sale Agmt (CIRP)	268,000	25%	75%	67,000	201,000
Chrome 6 SRF Loan (\$8M, 2.75%, 30-Yr)	400,000	0%	100%	0	400,000
Subtotal	668,000	50%	50%	67,000	601,000
Non-Operating/Discretionary					
Capital Improvement Program (CIP)	2,000,000	25%	75%	500,000	1,500,000
Equipment/Technology	422,000	80%	20%	337,600	84,400
Studies/Reports	225,000	80%	20%	180,000	45,000
Meter Replacement Program	185,000	100%	0%	185,000	0
Subtotal	2,832,000	42%	58%	1,202,600	1,629,400
Total Expenses	12,890,000	40.3%	59.7%	5,200,800	7,689,200
NET FUNDING REQUIRED FROM WATER RATES					
Total Expenses	12,890,000	40.3%	59.7%	5,200,800	7,689,200
Less Property Tax Revenues	(727,000)	40.3%	59.7%	(293,327)	(433,673)
Less Other Non-Rate Revenues	(2,217,000)	40.3%	59.7%	(894,505)	(1,322,495)
Net Funding Requirement from Water Rates	10,673,000	40.3%	59.7%	4,306,295	6,366,705
Rounded Target		40.3%	59.7%	•	•

Excludes capital improvement projects funded by grants and debt, but includes associated debt service.

Table C5
Joshua Basin Water District
Fixed Meter Charge Derivation

	Jan-1
	2017
Water Rate Revenue Recovery	
Annualized Revenues w/ Rate Increases	\$9,420,000
E' . I D. I. D	
Fixed Rate Recovery	
Cost Recovery Allocation %	40.3%
Cost Recovery Allocation \$	\$3,796,260
Meter Equivalents	
Active Water Accounts	5,088
Locked Meter Accounts	765
Projected Growth	<u>150</u>
Total	6,003
Rate per Meter Equivalent	
Annual	\$632.39
Monthly	52.70
Rounded	52.70

Table C6
Joshua Basin Water District
Usage/Flow Rate Cost Recovery Allocation

Usage	Rate Recovery	y: Base vs. E	xtra Capaci	ty Cost A	Allocation		
	Projected	Fixed	Usage		Usage Ra	te Allocation	
	Expenses	Rate	Rate	Base	Extra	Base	Extra
	2026/27	Recovery	Recovery	%	Capacity %	\$	Capacity \$
REVENUE REQUIREMENT FROM WATER U	SAGE CHARGES						
Expenses Fully Allocated for Base Usage Rate F	Revenue Recovery	/					
Production	1,622,000	0	1,622,000	100%	0%	1,622,000	0
Recharge Water Purchases from MWA	705,000	0	705,000	100%	0%	705,000	0
Distribution	1,445,000	0	1,445,000	100%	0%	1,445,000	0
Customer Service (10% for Conservation Prog	928,000	835,200	92,800	0%	100%	0	92,800
Administration	1,496,000	1,196,800	299,200	100%	0%	299,200	0
Finance	1,110,000	888,000	222,000	100%	0%	222,000	0
Human Resources	318,000	254,400	63,600	100%	0%	63,600	0
HDMC WWTP Operations (reimburseable)	275,000	275,000	0	100%	0%	0	0
Standby Admin/Dvlmnt & Engin/Other	104,000	78,000	26,000	100%	0%	26,000	0
Add'l Staffing Needs (deferred & reduced)	198,000	158,400	39,600	100%	0%	39,600	0
Chrome 6 Operations (estimated)	780,000	0	780,000	100%	0%	780,000	0
Equipment/Technology	422,000	337,600	84,400	100%	0%	84,400	0
Studies/Reports	225,000	180,000	45,000	100%	0%	45,000	0
Meter Replacement Program	185,000	185,000	0	100%	0%	0	0
Subtotal	9,813,000	4,388,400	5,424,600	98.3%	1.7%	5,331,800	92,800
Expenses Partially Allocated for Extra Capacity	Revenue Recove	ry					
Debt Service	668,000	67,000	601,000	90%	10%	540,900	60,100
Capital Improvements	2,000,000	500,000	1,500,000	75%	25%	1,125,000	375,000
CIRP Program Less Capitalized Portion	409,000	245,400	163,600	75%	25%	122,700	40,900
Subtotal	3,077,000	812,400	2,264,600	79.0%	21.0%	1,788,600	476,000
Total	12,890,000	5,200,800	7,689,200	92.6%	7.4%	7,120,400	568,800
Offsetting Non-Rate Revenues		7					
Property Taxes	727,000	293,327	433,673	50%	50%	216,837	216,837
All Other Non-Rate Revenues	2,217,000	894,505	1,322,495	100%	0%	1,322,495	210,037
Subtotal	2,944,000	1,187,832	1,756,168	87.7%	12.3%	1,539,331	216,837

Table C7
Joshua Basin Water District
Quantity Charge Cost Attribution & Rate Derivation

Water Flow Rate Calculation									
		3/4" and 1" Meters							
	Tier 1	Tier 2	Tier 3	Tier 4		All			
	0 - 5	5.01 - 10	10.01 - 20	20.01+	Subtotal	Use			
Projected Water Use (hcf)	188,200	81,900	65,000	67,000	402,100	75,300			
% of Total Use	39.4%	17.2%	13.6%	14.0%	84.2%	15.8%			
Extra Capacity Cost Allocation									
% of Water in ClasS & Tier for Extra Capacity Cost Recovery	0.0%	13.0%	44.0%	75.0%	22.3%	22.3%			
Volume of Water for Extra Capacity Cost Recovery	0	10,647	28,600	50,250	89,497	16,760			
% of Total Water for Extra Capacity Cost Recovery	0.0%	10.0%	26.9%	47.3%	84.2%	15.8%			
Base Water Flow Charge (\$/hcf)	\$12.04	\$12.04	\$12.04	\$12.04		\$12.04			
Adjustments for Extra Capacity & Prop Tax Allocations (\$/hcf)									
Extra Capacity Expenses \$568,800	\$0	\$56,994	\$153,098	\$268,992		\$89,716			
Less Allocated Prop Tax Offset (216,837)	(179,899)	0	0	0		(36,938)			
Total	(179,899)	56,994	153,098	268,992		52,779			
Divided by Water Use in Tier	188,200	81,900	65,000	67,000		75,300			
Net Adjustments (\$/hcf)	(\$0.96)	\$0.70	\$2.36	\$4.01		\$0.70			
Water Flow Charges (\$/hcf)	\$11.08	\$12.74	\$14.40	\$16.06		\$12.74			

Scenario C
Limit Overall Rate Increases to 9%
Limit Fixed Rate Increases to 5% per Year

	Projected Water Rates C									
	Current		Project	ted Rates Ef	fective					
	Water	Mar-1	Jan-1	Jan-1	Jan-1	Jan-1				
	Rates	2023	2024	2025	2026	2027				
BASIC MONTHLY FEE										
Fixed monthly charge based on meter s	size									
Meter Size										
3/4 & 1 inch	\$41.35	\$43.40	\$45.55	\$47.80	\$50.20	\$52.70				
1-1/2 inches	137.83	144.67	151.83	159.33	167.33	175.67				
2 inches	220.53	231.47	242.93	254.93	267.73	281.07				
3 inches	413.50	434.00	455.50	478.00	502.00	527.00				
Usage Rate Increases		11.6%	11.5%	11.3%	11.2%	11.1%				
MONTHLY WATER FLOW CHARGES										
Billed based on metered water use, as		n units of on	e hundred c	ubic feet (\$/	hcf)					
For 3/4" and 1" Meters										
Tier 1 0 - 5 units	\$6.20	\$7.10	\$8.05	\$9.10	\$10.15	\$11.08				
Tier 2 5.01 - 10 units	7.70	8.64	9.62	10.70	11.78	12.74				
Tier 3 10.01 - 20 units	9.20	10.18	11.19	12.30	13.41	14.40				
Tier 4 20.01 + units	10.70	11.72	12.76	13.90	15.04	16.06				
For 1-1/2", 2" and 3" Meters										
Unit rate for all water use	\$7.70	\$8.64	\$9.62	\$10.70	\$11.78	\$12.74				
Note: 1 unit = one hundred cubic feet,	or approxim	ately 748 go	allons.							
PRIVATE FIRE PROTECTION CHARG	ES									
Fixed monthly charge based on size of	_	nection								
Service Size										
2 inches	\$22.05	\$23.15	\$24.29	\$25.49	\$26.77	\$28.11				
3 inches	41.34	43.40	45.55	47.80	50.20	52.70				
4 inches	68.91	72.34	75.91	79.66	83.66	87.84				
6 inches	137.81	144.69	151.81	159.31	167.31	175.69				
8 inches	220.50	231.50	242.90	254.90	267.70	281.10				

Table C9
Joshua Basin Water District
Bill Impacts (3/4" or 1" Meter)

Scenario C Limit Overall Rate Increases to 9% Limit Fixed Rate Increases to 5% per Year

Monthly		Current		Project	ted Monthl	y Bills		5-Ye	ear Impact	;	Avg
Use	% of	Monthly	Mar-1	Jan-1	Jan-1	Jan-1	Jan-1				Annual
(hcf)	Bills	Bill	2023	2024	2025	2026	2027	\$/month	%	\$/day	Increase
0	7.3%	\$41.35	\$43.40	\$45.55	\$47.80	\$50.20	\$52.70	\$11.35	27.4%	\$0.37	5.0%
1	9.6%	47.55	50.50	53.60	56.90	60.35	63.78	16.23	34.1%	0.53	6.0%
2	10.7%	53.75	57.60	61.65	66.00	70.50	74.86	21.11	39.3%	0.69	6.8%
3 Low	10.4%	59.95	64.70	69.70	75.10	80.65	85.94	25.99	43.4%	0.85	7.5%
4	9.2%	66.15	71.80	77.75	84.20	90.80	97.02	30.87	46.7%	1.01	8.0%
5 Median	8.0%	72.35	78.90	85.80	93.30	100.95	108.10	35.75	49.4%	1.18	8.4%
6 Typical	6.4%	80.05	87.54	95.42	104.00	112.73	120,84	40.79	51.0%	1.34	8.6%
7	5.4%	87.75	96.18	105.04	114.70	124.51	133.58	45.83	52.2%	1.51	8.8%
8 Average	4.6%	95.45	104.82	114.66	125.40	136.29	146.32	50.87	53.3%	1.67	8.9%
9	3.9%	103.15	113.46	124.28	136.10	148.07	159.06	55.91	54.2%	1.84	9.0%
10	3.0%	110.85	122.10	133.90	146.80	159.85	171.80	60.95	55.0%	2.00	9.2%
11	2.6%	120.05	132.28	145.09	159.10	173.26	186.20	66.15	55.1%	2.17	9.2%
12	2.1%	129.25	142.46	156.28	171.40	186.67	200.60	71.35	55.2%	2.35	9.2%
13	1.8%	138.45	152.64	167.47	183.70	200.08	215.00	76.55	55.3%	2.52	9.2%
14	1.7%	147.65	162.82	178.66	196.00	213.49	229.40	81.75	55.4%	2.69	9.2%
15	1.3%	156.85	173.00	189.85	208.30	226.90	243.80	86.95	55.4%	2.86	9.2%
16	1.1%	166.05	183.18	201.04	220.60	240.31	258.20	92.15	55.5%	3.03	9.2%
17 Top 10%	6 1.0%	175.25	193.36	212.23	232.90	253.72	272.60	97.35	55.5%	3.20	9.2%
18	1.0%	184.45	203.54	223.42	245.20	267.13	287.00	102.55	55.6%	3.37	9.2%
19	0.8%	193.65	213.72	234.61	257.50	280.54	301.40	107.75	55.6%	3.54	9.3%
20	0.7%	202.85	223.90	245.80	269.80	293.95	315.80	112.95	55.7%	3.71	9.3%
21	0.7%	213.55	235.62	258.56	283.70	308.99	331.86	118.31	55.4%	3.89	9.2%
22	0.6%	224.25	247.34	271.32	297.60	324.03	347.92	123.67	55.1%	4.07	9.2%
23	0.5%	234.95	259.06	284.08	311.50	339.07	363.98	129.03	54.9%	4.24	9.1%
24	0.4%	245.65	270.78	296.84	325.40	354.11	380.04	134.39	54.7%	4.42	9.1%
25	0.4%	256.35	282.50	309.60	339.30	369.15	396.10	139.75	54.5%	4.59	9.1%

Scenario C Limit Overall Rate Increases to 9% Limit Fixed Rate Increases to 5% per Year

	Projected	d Fixed Rat	te Revenu	e Check C			
	Prior	Current		Projected Rates Effective			
	Jan-1	Jan-1	Mar-1	Jan-1	Jan-1	Jan-1	Jan-1
PROJECTED BASIC MONTHLY FEE	S						
Fixed monthly charge based on mete	1						
Meter Size							
3/4 & 1 inch	\$38.03	\$41.35	\$43.40	\$45.55	\$47.80	\$50.20	\$52.70
1-1/2 inches	126.77	137.83	144.67	151.83	159.33	167.33	175.67
2 inches	202.83	220.53	231.47	242.93	254.93	267.73	281.07
3 inches	380.30	413.50	434.00	455.50	478.00	502.00	527.00
Active Water Accounts							
Projected Growth			50	25	25	25	25
3/4 & 1 inch		4,836	4,886	4,911	4,936	4,961	4,986
1-1/2 inches		27	27	27	27	27	27
2 inches		21	21	21	21	21	21
3 inches		5	5	5	5	5	5
Locked Meters							
3/4 & 1 inch		755	755	755	755	755	755
1-1/2 inches		3	3	3	3	3	3
	2021/22	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27
FIXED RATE REVENUES BY FISCAL	YEAR						
Months at New Rate		6	4	6	6	6	6
Fixed Revenues: Active Water Accts							
3/4 & 1 inch		2,303,290	2,464,498	2,621,001	2,764,654	2,917,068	3,078,356
1-1/2 inches		42,865	45,396	48,033	50,408	52,919	55,566
2 inches	•	53,343	56,493	59,774	62,730	65,855	69,149
3 inches		23,814	25,220	26,685	28,005	29,400	30,870
Subtotal		2,423,313	2,591,607	2,755,493	2,905,797	3,065,242	3,233,941
Less Delinquency Factor	1.00%	(24,233)	(25,916)	(27,555)	(29,058)	(30,652)	(32,339
Net Total		2,399,080	2,565,690	2,727,938	2,876,739	3,034,590	3,201,602
Fixed Revenues: Locked Meters							
3/4 & 1 inch		359,591	380,822	402,944	422,876	443,940	466,137
1-1/2 inches		4,763	5,044	5,337	5,601	5,880	6,174
Subtotal		364,354	385,866	408,281	428,476	449,820	472,311
Less Delinquency %	1.00%	(3,644)	(3,859)	(4,083)	(4,285)	(4,498)	(4,723
Net Total		360,711	382,007	404,198	424,192	445,322	467,588

Table C11
Joshua Basin Water District
Projected Water Use & Consumption Charges

Scenario C Limit Overall Rate Increases to 9% Limit Fixed Rate Increases to 5% per Year

	Projected Usage Rate Revenue Check C									
	Current		Proje	cted Rates Effe	ective					
	Jan-1	Mar-1	Jan-1	Jan-1	Jan-1	Jan-1				
	2022	2023	2024	2025	2026	2027				
PROJECTED WATER I	LOW CHARGE	:S								
Billed Use by Tier for 3,	/4" & 1" Meters	(hcf)								
Tier 1	\$6.20	\$7.10	\$8.05	\$9.10	\$10.15	\$11.08				
Tier 2	7.70	8.64	9.62	10.70	11.78	12.74				
Tier 3	9.20	10.18	11.19	12.30	13.41	14.40				
Tier 4	10.70	11.72	12.76	13.90	15.04	16.06				
All Other Use (hcf)	7.70	8.64	9.62	10.70	11.78	12.74				
	5-Yr Avg			Projected						
	FY18 - FY22	2022/23	2023/24	2024/25	2025/26	2026/27				
PROJECTED WATER I	ISF									
Change in Use After Ra		-1.2%	-1.1%	-1.1%	-1.1%	-1.1%				
	<u>Jul-Dec</u>	<u>Jul-Feb</u>	<u>Jul-Dec</u>	<u>Jul-Dec</u>	<u>Jul-Dec</u>	<u>Jul-Dec</u>				
Billed Use by Tier for 3,	/4" & 1" Meters	(hcf)								
Tier 1	98,300	127,800	98,100	97,900	97,700	97,500				
Tier 2	51,000	61,800	50,100	49,200	48,400	47,600				
Tier 3	44,700	51,500	43,800	42,900	42,000	41,200				
Tier 4	49,900	56,600	48,600	47,400	46,200	45,100				
All Other Use (hcf)	45,200	55,200	44,900	44,600	44,300	44,100				
	<u>Jan-Jun</u>	<u>Mar-Jun</u>	<u>Jan-Jun</u>	<u>Jan-Jun</u>	<u>Jan-Jun</u>	<u>Jan-Jun</u>				
Billed Use by Tier for 3,	/4" & 1" Meters	(hcf)								
Tier 1	91,700	62,100	91,300	91,100	90,900	90,700				
Tier 2	37,400	26,200	36,100	35,500	34,900	34,300				
Tier 3	26,400	19,200	25,300	24,800	24,300	23,800				
Tier 4	24,800	17,700	23,600	23,000	22,400	21,900				
All Other Use (hcf)	32,200	22,100	31,800	31,600	31,400	31,200				
Annual Total	501,600	500,200	493,600	488,000	482,500	477,400				

Water Shortage Contingency Rates



		Water S	hortage Contingen	cv Stages	
	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6
	Moderate	Severe	Critical	Emergency	Catastrophic
	Shortage	Shortage	Shortage	Shortage	Failure
Water Shortage or Mandated Reduction	11% - 20%	21% - 30%	31% - 40%	41% - 50%	> 50%
Water Demand Reduction Target %	15%	25%	35%	45%	50%
Normal Year Water Use (hcf)					
2022/23	498,600	498,600	498,600	498,600	498,600
2023/24	486,400	486,400	486,400	486,400	486,400
2024/25	477,900	477,900	477,900	477,900	477,900
2025/26	471,500	471,500	471,500	471,500	471,500
2026/27	466,400	466,400	466,400	466,400	466,400
Water Reduction Target (hcf)					
2022/23	74,790	124,650	174,510	224,370	249,300
2023/24	72,960	121,600	170,240	218,880	243,200
2024/25	71,685	119,475	167,265	215,055	238,950
2025/26	70,725	117,875	165,025	212,175	235,750
2026/27	69,960	116,600	163,240	209,880	233,200
Net Use with Reduction (hcf)					
2022/23	423,810	373,950	324,090	274,230	249,300
2023/24	413,440	364,800	316,160	267,520	243,200
2024/25	406,215	358,425	310,635	262,845	238,950
2025/26	400,775	353,625	306,475	259,325	235,750
2026/27	396,440	349,800	303,160	256,520	233,200
Avg Water Flow Rates by Year					
2022/23	\$9.50	\$9.50	\$9.50	\$9.50	\$9.50
2023/24	11.30	11.30	11.30	11.30	11.30
2024/25	12.90	12.90	12.90	12.90	12.90
2025/26	14.25	14.25	14.25	14.25	14.25
2026/27	15.50	15.50	15.50	15.50	15.50
Revenue Loss by Year					
2022/23	\$710,505	\$1,184,175	\$1,657,845	\$2,131,515	\$2,368,350
2023/24	845,127	1,408,545	1,971,963	2,535,381	2,817,090
2024/25	964,791	1,607,985	2,251,179	2,894,373	3,215,970
2025/26 2026/27	1,065,758 1,159,245	1,776,263 1,932,075	2,486,768 2,704,905	3,197,273 3,477,735	3,552,525 3,864,150
	1,133,243	1,932,073	2,704,303	3,477,733	3,804,130
Est. Reduced Expenses due to Lower Use					
Variable Cost per Unit (\$/hcf) ¹		42.04	42.04	42.04	42.04
2022/23	\$2. 04 2.11	\$2.04	\$2.04	\$2.04	\$2.04
2023/24 2024/25	2.11	2.11 2.18	2.11 2.18	2.11 2.18	2.11 2.18
2025/26	2.26	2.26	2.26	2.26	2.26
2026/27	2.34	2.34	2.34	2.34	2.34
Reduced Variable Costs					
2022/23	\$152,503	\$254,171	\$355,840	\$457,509	\$508,343
2023/24	153,978	256,631	359,283	461,935	513,261
2024/25	156,583	260,971	365,359	469,748	521,942
2025/26	159,893	266,488	373,083	479,678	532,976
2026/27	163,699	272,831	381,964	491,097	545,663
Add'l Conservation & Compliance Costs ²	\$0	\$50,000	\$100,000	\$150,000	\$200,000
Net Financial Impact					
Revenue Loss - Reduced Exps + Add'l Costs					
2022/23	\$558,002	\$980,004	\$1,402,005	\$1,824,006	\$2,060,007
2023/24	691,149	1,201,914	1,712,680	2,223,446	2,503,829
2024/25	808,208	1,397,014	1,985,820	2,574,625	2,894,028
2025/26	905,865	1,559,775	2,213,685	2,867,595	3,219,549
2026/27	995,546	1,709,244	2,422,941	3,136,638	3,518,487
Required Rate Surcharge (\$/hcf)					
Net Financial Impact / Net Remaining Use					
2022/23	\$1.32	\$2.62	\$4.33	\$6.65	\$8.26
2023/24	1.67	3.29	5.42	8.31	10.30
2024/25	1.99	3.90	6.39	9.80	12.11
2025/26	2.26	4.41	7.22	11.06	13.66
2026/27	2.51	4.89	7.99	12.23	15.09

 $^{1\,\}text{Includes estimated costs for electricity and pumping based on 2021 actual costs and MWA water purchases.}$

Water Shortage Contingency Rate Surcharges

Proposed Maximum Water Shortage Contingency Rate Surcharges										
Water Shortage Contingency Stage	Stage 2 Moderate Shortage	Stage 3 Severe Shortage	Stage 4 Critical Shortage	Stage 5 Emergency Shortage	Stage 6 Catastrophic Failure					
Water Shortage or Mandated Reduction	11% - 20%	21% - 30%	31% - 40%	41% - 50%	> 50%					
Maximum Rate Surcharge (\$/hcf)										
Effective On or After										
Mar-1, 2023	\$1.32	\$2.62	\$4.33	\$6.65	\$8.26					
Jan-1, 2024	1.67	3.29	5.42	8.31	10.30					
Jan-1, 2025	1.99	3.90	6.39	9.80	12.11					
Jan-1, 2026	2.26	4.41	7.22	11.06	13.66					
Jan-1, 2027	2.51	4.89	7.99	12.23	15.09					

Note: 1 unit = one hundred cubic feet (hcf), or approximately 748 gallons.



		Water S	hortage Contingen	cv Stages	
	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6
	Moderate	Severe	Critical	Emergency	Catastrophic
	Shortage	Shortage	Shortage	Shortage	Failure
Water Shortage or Mandated Reduction	11% - 20%	21% - 30%	31% - 40%	41% - 50%	> 50%
Water Demand Reduction Target %	15%	25%	35%	45%	50%
Normal Year Water Use (hcf)					
2022/23	500,200	500,200	500,200	500,200	500,200
2023/24	493,600	493,600	493,600	493,600	493,600
2024/25	488,000	488,000	488,000	488,000	488,000
2025/26	482,500	482,500	482,500	482,500	482,500
2026/27	477,400	477,400	477,400	477,400	477,400
Water Reduction Target (hcf)					
2022/23	75,030	125,050	175,070	225,090	250,100
2023/24	74,040	123,400	172,760	222,120	246,800
2024/25	73,200	122,000	170,800	219,600	244,000
2025/26	72,375	120,625	168,875	217,125	241,250
2026/27	71,610	119,350	167,090	214,830	238,700
Net Use with Reduction (hcf)					
2022/23	425,170	375,150	325,130	275,110	250,100
2023/24	419,560	370,200	320,840	271,480	246,800
2024/25	414,800	366,000	317,200	268,400	244,000
2025/26	410,125	361,875	313,625	265,375	241,250
2026/27	405,790	358,050	310,310	262,570	238,700
Avg Water Flow Rates by Year					
2022/23	\$8.64	\$8.64	\$8.64	\$8.64	\$8.64
2023/24	11.19	11.19	11.19	11.19	11.19
2024/25	13.90	13.90	13.90	13.90	13.90
2025/26	11.84	11.84	11.84	11.84	11.84
2026/27	12.78	12.78	12.78	12.78	12.78
Revenue Loss by Year					
2022/23	\$648,259	\$1,080,432	\$1,512,605	\$1,944,778	\$2,160,864
2023/24	839,586	1,399,310	1,959,033	2,518,757	2,798,619
2024/25	1,042,917	1,738,195	2,433,473	3,128,751	3,476,390
2025/26 2026/27	888,333	1,480,555 1,598,712	2,072,777	2,664,999	2,961,110
•	959,227	1,596,712	2,238,197	2,877,682	3,197,425
Est. Reduced Expenses due to Lower Use					
Variable Cost per Unit (\$/hcf) ¹		40.00	40.00	40.00	
2022/23	\$2.04	\$2.04	\$2.04	\$2.04	\$2.04
2023/24	2.11 2.18	2.11 2.18	2.11 2.18	2.11 2.18	2.11 2.18
2024/25 2025/26	2.18	2.26	2.26	2.26	2.18
2026/27	2.34	2.34	2.34	2.34	2.34
Reduced Variable Costs 2022/23	\$152,992	\$254,987	\$356,982	\$458,977	\$509,974
2023/24	156,258	260,429	364,601	468,773	520,859
2024/25	159,892	266,486	373,081	479,676	532,973
2025/26	163,623	272,705	381,787	490,869	545,410
2026/27	167,560	279,266	390,973	502,679	558,532
Add'l Conservation & Compliance Costs ²	\$0	\$50,000	\$100,000	\$150,000	\$200,000
Net Financial Impact	ţ3	+20,003	+=30,003	+==0,000	+=30,000
Revenue Loss - Reduced Exps + Add'l Costs					
2022/23	\$495,267	\$875,445	\$1,255,623	\$1,635,801	\$1,850,890
2023/24	683,328	1,188,880	1,694,432	2,199,984	2,477,760
2024/25	883,025	1,521,709	2,160,392	2,799,075	3,143,417
2025/26	724,710	1,257,850	1,790,990	2,324,130	2,615,700
2026/27	791,668	1,369,446	1,947,225	2,525,003	2,838,893
Required Rate Surcharge (\$/hcf)					
Net Financial Impact / Net Remaining Use					
2022/23	\$1.16	\$2.33	\$3.86	\$5.95	\$7.40
2023/24	1.63	3.21	5.28	8.10	10.04
2024/25	2.13	4.16	6.81	10.43	12.88
2025/26	1.77	3.48	5.71	8.76	10.84
2026/27	1.95	3.82	6.28	9.62	11.89

 $^{1\,\}text{Includes estimated costs for electricity and pumping based on 2021 actual costs and MWA water purchases.}$

Water Shortage Contingency Rate Surcharges

Proposed Maximum Water Shortage Contingency Rate Surcharges										
Water Shortage Contingency Stage	Stage 2 Moderate Shortage	Stage 3 Severe Shortage	Stage 4 Critical Shortage	Stage 5 Emergency Shortage	Stage 6 Catastrophic Failure					
Water Shortage or Mandated Reduction	11% - 20%	21% - 30%	31% - 40%	41% - 50%	> 50%					
Maximum Rate Surcharge (\$/hcf)										
Effective On or After										
Mar-1, 2023	\$1.16	\$2.33	\$3.86	\$5.95	\$7.40					
Jan-1, 2024	1.63	3.21	5.28	8.10	10.04					
Jan-1, 2025	2.13	4.16	6.81	10.43	12.88					
Jan-1, 2026	1.77	3.48	5.71	8.76	10.84					
Jan-1, 2027	1.95	3.82	6.28	9.62	11.89					

Note: 1 unit = one hundred cubic feet (hcf), or approximately 748 gallons.

