

M&I 2019 Sch A-13 F.Z21.XLSM
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CENTRAL VALLEY PROJECT
SCHEDULE OF HISTORICAL (1981-2017) & PROJECTED (2018-2030) M&I WATER DELIVERIES
AND PRESENT WORTH @ .023270 FOR CALCULATION OF INDIVIDUAL CONTRACTOR PRORATED CONSTRUCTION COSTS AND RATE

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YEAR	BLACK BUTTE D&R (BBD&R)										CLEAR CREEK UNIT (CICU)		CONTRA COSTA CANAL (CCC)		COW CREEK UNIT (CoCU)	
	BBD&R COUNTY OF COLUSA	BBD&R COUNTY OF COLUSA	BBD&R ELK CREEK CSD	BBD&R ELK CREEK CSD	BBD&R US FOREST SVC	BBD&R US FOREST SVC	BBD&R WHITNEY CONST.	BBD&R WHITNEY CONST.	BBD&R TOTAL	BBD&R TOTAL	CICU CLEAR CREEK CSD	CICU CLEAR CREEK CSD	CCC CONTRA COSTA WD	CCC CONTRA COSTA WD	CoCU BELLA VISTA WD	CoCU BELLA VISTA WD
	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF
1981	-		35				25		60		1,721		141,094		1,283	
1982	-		11				25		36		1,557		98,470		1,360	
1983	-		15				25		40		1,642		131,079		1,225	
1984	-		15				25		40		1,911		130,995		1,358	
1985	80		15				25		120		1,942		132,291		1,759	
1986	40		15				25		80		2,067		116,230		1,747	
1987	40		32				25		97		2,078		142,267		2,322	
1988	40		18				78		136		2,096		126,059		2,296	
1989	40		-				199		239		1,777		164,612		2,888	
1990	40		15				67		122		1,451		186,679		3,593	
1991	40		15				(88)		(33)		659		153,363		2,008	
1992	40		4				26		70		2,460		109,576		3,322	
1993	-		15				32		47		2,076		93,267		5,539	
1994	70		15				-		85		2,329		134,903		6,801	
1995	40		15				25		80		1,265		100,593		3,028	
1996	-		15				25		40		1,137		104,924		5,521	
1997	76		15				25		116		1,812		113,378		5,620	
1998	113		15				22		150		1,454		128,980		3,646	
1999	40		15				22		77		1,475		92,392		5,216	
2000	40		15				25		80		1,912		103,662		5,066	
2001	34		15				25		74		1,726		84,806		4,414	
2002	46		15				25		86		1,548		82,662		6,617	
2003	40		15				25		80		2,202		92,521		1,742	
2004	-		15		4		35		54		2,155		90,698		2,066	
2005	40		15		9		40		104		2,052		78,120		1,156	
2006	-		15		13		-		28		2,119		84,837		219	
2007	23		15		22		-		60		2,286		92,708		2,614	
2008	7		-		16		-		23		2,019		96,947		4,411	
2009	20		-		19		-		39		1,187		83,451		3,177	
2010	13		-		25		-		38		1,407		82,426		4,031	
2011	9		-		18		-		27		1,716		54,638		4,697	
2012	8		-		20		25		53		2,220		145,714		5,323	
2013	10		-		19		-		29		2,425		112,556		6,258	
2014	6		-		17		-		23		1,652		96,001		4,328	
2015	8		-		15		-		23		557		56,053		1,911	
2016	5		-		14		(25)		(6)		620		108,184		2,793	
2017	77		-		5		-		82		1,588		77,809		4,199	
2018	18		14		15		4		51		1,540		92,994		4,216	
2019	18	17	14	13	15	15	4	4	51	49	1,540	1,470	92,994	88,812	4,216	4,026
2020	18	16	14	13	15	14	4	4	51	48	1,540	1,437	92,994	86,793	4,216	3,934
2021	18	16	14	13	15	14	4	4	51	47	1,540	1,404	92,994	84,819	4,216	3,845
2022	18	16	14	12	15	14	4	4	51	45	1,540	1,372	92,994	82,890	4,216	3,758
2023	18	15	14	12	15	13	4	3	51	44	1,540	1,341	92,994	81,005	4,216	3,672
2024	18	15	14	12	15	13	4	3	51	43	1,540	1,311	92,994	79,163	4,216	3,589
2025	18	15	14	12	15	13	4	3	51	42	1,540	1,281	92,994	77,363	4,216	3,507
2026	18	14	14	11	15	13	4	3	51	41	1,540	1,252	92,994	75,604	4,216	3,427
2027	18	14	14	11	15	12	4	3	51	41	1,540	1,223	92,994	73,884	4,216	3,349
2028	18	14	14	11	15	12	4	3	51	40	1,540	1,195	92,994	72,204	4,216	3,273
2029	18	13	14	11	15	12	4	3	51	39	1,540	1,168	92,994	70,562	4,216	3,199
2030	18	13	14	10	15	11	4	3	51	38	1,540	1,142	92,994	68,958	4,216	3,126
H&P/T	1,313	178	597	142	417	156	835	41	3,162	517	84,316	15,598	5,233,861	942,057	180,356	42,705
7-Year Hist Avg (A-12)	18		14		15		4		51		1,540		92,994		4,216	
Projected Del. (A-2ba)	211	178	168	142	185	156	48	41	612	517	18,477	15,598	1,115,923	942,057	50,587	42,705

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YEAR	CROSS VALLEY CANAL (CVC)						DELTA-MENDOTA CANAL (DMC)										
	CVC COUNTY OF FRESNO	CVC COUNTY OF FRESNO	CVC COUNTY OF TULARE	CVC COUNTY OF TULARE	CVC TOTAL	CVC TOTAL	DMC BYRON-BETHANY ID	DMC BYRON-BETHANY ID	DMC CITY OF TRACY	DMC CITY OF TRACY	DMC DEL PUERTO WD	DMC DEL PUERTO WD	DMC DEPT. OF VETERANS AFFAIRS	DMC DEPT. OF VETERANS AFFAIRS	DMC PANOCHE WD	DMC PANOCHE WD	
	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF	
1981	-		1,607		1,607		-		5,778		-		-				13
1982	-		407		407		-		5,719		-		-				34
1983	-		1,349		1,349		-		5,659		-		-				12
1984	-		1,354		1,354		-		5,537		-		-				18
1985	-		593		593		-		5,869		-		-				18
1986	-		3		3		-		5,318		-		-				18
1987	-		2		2		-		6,382		-		-				18
1988	-		4		4		-		7,956		-		-				18
1989	-		3		3		-		4,013		-		-				18
1990	456		3		459		-		5,392		-		-				17
1991	405		2		407		87		5,373		-		-				10
1992	285		12		297		267		6,815		-		-				12
1993	-		-		-		401		7,398		63		-				23
1994	-		-		-		414		7,243		9		22				28
1995	-		-		-		381		7,372		22		29				30
1996	-		-		-		498		10,631		17		31				30
1997	-		-		-		661		10,716		26		30				30
1998	-		-		-		657		6,792		12		33				28
1999	-		-		-		671		6,651		12		42				30
2000	-		-		-		899		10,000		24		36				29
2001	-		-		-		816		7,352		16		40				29
2002	720		-		720		1,201		7,528		15		62				31
2003	(720)		-		(720)		1,279		9,746		13		89				30
2004	-		-		-		991		12,610		25		71				29
2005	-		-		-		942		11,766		33		54				24
2006	-		-		-		886		6,401		40		75				28
2007	-		-		-		684		6,534		44		84				25
2008	-		-		-		821		7,013		34		217				24
2009	-		-		-		550		9,179		12		142				20
2010	-		-		-		589		7,618		6		269				28
2011	-		-		-		983		4,946		25		258				25
2012	-		-		-		915		10,836		19		273				22
2013	-		-		-		831		9,416		11		161				24
2014	-		-		-		881		6,680				197				24
2015	-		-		-		785		2,910				93				20
2016	-		-		-		849		3,487				385				25
2017	120		108		228		847		4,439		3		448				24
2018	86		192		278		870		6,102		8		259				23
2019	86	82	192	183	278	266	870	831	6,102	5,828	8	8	259	248			22
2020	86	80	192	179	278	259	870	812	6,102	5,695	8	8	259	242			22
2021	86	78	192	175	278	254	870	794	6,102	5,566	8	8	259	236			21
2022	86	77	192	171	278	248	870	776	6,102	5,439	8	7	259	231			21
2023	86	75	192	167	278	242	870	758	6,102	5,315	8	7	259	226			20
2024	86	73	192	163	278	237	870	741	6,102	5,194	8	7	259	221			20
2025	86	72	192	160	278	231	870	724	6,102	5,076	8	7	259	216			19
2026	86	70	192	156	278	226	870	707	6,102	4,961	8	7	259	211			19
2027	86	68	192	153	278	221	870	691	6,102	4,848	8	7	259	206			19
2028	86	67	192	149	278	216	870	676	6,102	4,738	8	6	259	201			18
2029	86	65	192	146	278	211	870	660	6,102	4,630	8	6	259	197			18
2030	86	64	192	142	278	206	870	645	6,102	4,525	8	6	259	192			17
H&P/T	2,384	871	7,943	1,945	10,327	2,816	31,098	8,815	344,401	61,815	589	84	6,512	2,627	1,171		237
7 - Year Hist Avg (A-12)	86		192		278		870		6,102		8		259				23
Projected Del. (A-2ba)	1,032	871	2,304	1,945	3,336	2,816	10,442	8,815	73,224	61,815	99	84	3,111	2,627	281		237

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YEAR	DELTA-MENDOTA CANAL (DMC)				FOLSOM D&R (FD&R)															
	DMC SAN LUIS WD	DMC SAN LUIS WD	DMC TOTAL	DMC TOTAL	FD&R CITY OF FOLSOM	FD&R CITY OF FOLSOM	FD&R CITY OF ROSEVILLE	FD&R CITY OF ROSEVILLE	FD&R EL DORADO ID	FD&R EL DORADO ID	FD&R PLACER COUNTY WA	FD&R PLACER COUNTY WA	FD&R SACRAMENTO COUNTY WA	FD&R SACRAMENTO COUNTY WA	FD&R SAN JUAN WD	FD&R SAN JUAN WD	FD&R TOTAL	FD&R TOTAL		
	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF		
1981	123		5,914				9,638		7,043		-		-		5,008		21,689			
1982	119		5,872				10,904		5,931		-		-		5,572		22,407			
1983	131		5,802				12,020		6,326		-		-		5,578		23,924			
1984	145		5,700				12,607		6,800		-		-		6,003		25,410			
1985	64		5,951				11,037		7,396		-		-		7,427		25,860			
1986	92		5,428				11,182		7,286		-		-		11,551		30,019			
1987	142		6,542				12,401		8,647		-		-		7,942		28,990			
1988	148		8,122				13,664		8,440		-		-		12,020		34,124			
1989	100		4,131				13,589		6,106		-		-		8,912		28,607			
1990	122		5,531				10,235		7,380		-		-		9,839		27,454			
1991	116		5,586				29,519		4,011		-		-		7,213		40,743			
1992	127		7,221				20,010		1,247		-		-		2,103		23,360			
1993	120		8,005				12,138		2,615		-		-		6,142		20,895			
1994	127		7,843				18,603		7,845		-		-		4,245		30,693			
1995	129		7,963				23,313		8,999		-		-		8,045		40,357			
1996	203		11,410				21,838		7,405		-		-		20,164		49,407			
1997	162		11,625				23,126		8,130		-		-		22,216		53,472			
1998	132		7,654				18,756		7,474		-		-		12,036		38,266			
1999	151		7,557				28,300		9,117		-		-		7,861		45,278			
2000	96		11,084				29,628		7,365		-		1,264		(15,326)		22,931			
2001	324		8,577				25,782		7,188		-		1,996		11,710		46,676			
2002	131		8,968				20,096		5,942		-		4,312		7,075		37,425			
2003	146		11,303				31,971		6,080		-		3,393		6,448		47,892			
2004	207		13,933				31,666		5,495		-		4,566		5,428		47,155			
2005	207		13,026				27,463		2,279		-		3,892		6,848		40,482			
2006	223		7,653				36,874		4,035		-		5,087		7,140		53,136			
2007	158		7,529				31,313		6,132		-		4,359		7,186		48,990			
2008	150		8,259				32,776		4,106		-		9,833		7,246		53,961			
2009	79		9,982				25,385		4,962		-		2,044		5,634		38,025			
2010	103		8,613				29,953		4,894		-		3,529		1,232		39,608			
2011	86		6,323				28,961		1,654		-		1,284		556		32,455			
2012	104		12,169				33,290		5,799		85		1,200		2,815		43,189			
2013	88		10,531				31,486		3,080		-		1,200		749		36,515			
2014	18		7,800				15,640		2,978		-		1,189		2,623		22,430			
2015	105		3,913				-		567		-		550		-		1,117			
2016	36		4,782				25,010		4,872		-		9,284		1,230		40,396			
2017	63		5,824		3,230		27,663		6,116		-		10,178		0		47,187			
2018	71		7,335		5,007		23,150		3,581		5,000		3,555		1,139		41,432			
2019	71	68	7,335	7,005	5,007	4,782	23,150	22,109	3,581	3,420	5,000	4,775	3,555	3,395	1,139	1,088	41,432	39,569		
2020	71	67	7,335	6,845	5,007	4,673	23,150	21,606	3,581	3,342	5,000	4,667	3,555	3,318	1,139	1,063	41,432	38,669		
2021	71	65	7,335	6,690	5,007	4,567	23,150	21,115	3,581	3,266	5,000	4,560	3,555	3,242	1,139	1,039	41,432	37,790		
2022	71	64	7,335	6,538	5,007	4,463	23,150	20,635	3,581	3,192	5,000	4,457	3,555	3,169	1,139	1,015	41,432	36,931		
2023	71	62	7,335	6,389	5,007	4,362	23,150	20,166	3,581	3,119	5,000	4,355	3,555	3,097	1,139	992	41,432	36,091		
2024	71	61	7,335	6,244	5,007	4,262	23,150	19,707	3,581	3,048	5,000	4,256	3,555	3,026	1,139	970	41,432	35,270		
2025	71	59	7,335	6,102	5,007	4,166	23,150	19,259	3,581	2,979	5,000	4,160	3,555	2,957	1,139	948	41,432	34,468		
2026	71	58	7,335	5,963	5,007	4,071	23,150	18,821	3,581	2,911	5,000	4,065	3,555	2,890	1,139	926	41,432	33,684		
2027	71	57	7,335	5,827	5,007	3,978	23,150	18,393	3,581	2,845	5,000	3,973	3,555	2,824	1,139	905	41,432	32,918		
2028	71	55	7,335	5,695	5,007	3,888	23,150	17,975	3,581	2,780	5,000	3,882	3,555	2,760	1,139	884	41,432	32,170		
2029	71	54	7,335	5,565	5,007	3,799	23,150	17,566	3,581	2,717	5,000	3,794	3,555	2,697	1,139	864	41,432	31,438		
2030	71	53	7,335	5,439	5,007	3,713	23,150	17,166	3,581	2,655	5,000	3,708	3,555	2,636	1,139	845	41,432	30,723		
H&P/T	5,706	724	389,475	74,302	68,323	50,724	1,098,787	234,517	258,293	36,275	65,085	50,652	115,375	36,013	243,278	11,538	1,849,141	419,720		
7 - Year Hist Avg (A-12)	71		7,335		5,007		23,150		3,581		5,000		3,555		1,139		41,432			
Projected Del. (A-2ba)	857	724	88,015	74,302	60,086	50,724	277,800	234,517	42,970	36,275	60,000	50,652	42,660	36,013	13,668	11,538	497,184	419,720		

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YEAR	FOLSOM-SOUTH CANAL (FSC)								FRIANT DAM (FD)					
	FSC EAST BAY MUD	FSC EAST BAY MUD	FSC SACRAMENTO CTY WA FSC	FSC SACRAMENTO CTY WA FSC	FSC SMUD 1/	FSC SMUD 1/	FSC TOTAL	FSC TOTAL	FD COUNTY OF MADERA	FD COUNTY OF MADERA	FD FRESNO CITY WW #18	FD FRESNO CITY WW #18	FD TOTAL	FD TOTAL
	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF
1981	18,662		-		4,975		23,637		51		116		167	
1982	13,125		-		5,581		18,706		45		104		149	
1983	14,625		-		5,851		20,476		68		108		176	
1984	15,000		-		16,081		31,081		47		107		154	
1985	15,000		-		4,779		19,779		27		53		80	
1986	15,000		-		4,693		19,693		30		88		118	
1987	15,000		-		2,646		17,646		40		126		166	
1988	13,750		-		22,908		36,658		38		154		192	
1989	16,250		-		11,033		27,283		191		83		274	
1990	15,000		-		5,829		20,829		46		125		171	
1991	21,875		-		3,600		25,475		275		83		358	
1992	29,375		-		3,564		32,939		235		163		398	
1993	32,500		-		1,673		34,173		79		216		295	
1994	46,250		-		1,727		47,977		175		112		287	
1995	11,250		-		2,343		13,593		206		117		323	
1996	55,000		-		3,228		58,228		49		162		211	
1997	60,000		-		1,849		61,849		52		136		188	
1998	67,500		-		14,056		81,556		44		120		164	
1999	70,000		-		21,062		91,062		43		137		180	
2000	82,500		-		11,496		93,996		50		149		199	
2001	135,825		-		19,573		155,398		154		147		301	
2002	-		-		32,973		32,973		155		159		314	
2003	-		-		32,715		32,715		54		143		197	
2004	-		-		49,527		49,527		157		157		314	
2005	-		-		56,407		56,407		46		134		180	
2006	-		-		57,456		57,456		41		141		182	
2007	-		-		49,792		49,792		39		139		178	
2008	1		-		21,615		21,616		39		113		152	
2009	-		-		30,284		30,284		35		141		176	
2010	1,019		-		15,522		16,541		30		126		156	
2011	1,049		-		29,649		30,698		23		121		144	
2012	-		-		29,484		29,484		22		136		158	
2013	-		-		24,888		24,888		28		73		101	
2014	18,644		-		-		18,644		35		54		89	
2015	33,250		-		-		33,250		37		102		139	
2016	13,268		-		-		13,268		24		104		128	
2017			-		-		-		36		109		145	
2018	9,459		4,286		12,003		25,748		29		100		129	
2019	9,459	9,033	4,286	4,093	12,003	11,463	25,748	24,590	29	28	100	95	129	123
2020	9,459	8,828	4,286	4,000	12,003	11,203	25,748	24,031	29	27	100	93	129	121
2021	9,459	8,627	4,286	3,909	12,003	10,948	25,748	23,484	29	27	100	91	129	118
2022	9,459	8,431	4,286	3,820	12,003	10,699	25,748	22,950	29	26	100	89	129	115
2023	9,459	8,239	4,286	3,733	12,003	10,456	25,748	22,428	29	26	100	87	129	112
2024	9,459	8,052	4,286	3,649	12,003	10,218	25,748	21,918	29	25	100	85	129	110
2025	9,459	7,869	4,286	3,566	12,003	9,985	25,748	21,420	29	24	100	83	129	107
2026	9,459	7,690	4,286	3,485	12,003	9,758	25,748	20,933	29	24	100	81	129	105
2027	9,459	7,515	4,286	3,405	12,003	9,537	25,748	20,457	29	23	100	79	129	103
2028	9,459	7,344	4,286	3,328	12,003	9,320	25,748	19,992	29	23	100	78	129	100
2029	9,459	7,177	4,286	3,252	12,003	9,108	25,748	19,537	29	22	100	76	129	98
2030	9,459	7,014	4,286	3,178	12,003	8,901	25,748	19,093	29	22	100	74	129	96
H&P/T	953,681	95,820	55,718	43,419	754,898	121,595	1,764,297	260,833	3,127	297	5,856	1,012	8,983	1,308
7 - Year Hist Avg (A-12)	9,459		4,286		12,003		25,748		29		100		129	
Projected Del. (A-2ba)	113,505	95,820	51,432	43,419	144,036	121,595	308,973	260,833	351	297	1,198	1,012	1,550	1,308

CENTRAL VALLEY PROJECT
SCHEDULE OF HISTORICAL (1981-2017) & PROJECTED (2018-2030) M&I WATER DELIVERIES
AND PRESENT WORTH @ .023270 FOR CALCULATION OF INDIVIDUAL CONTRACTOR PRORATED CONSTRUCTION COSTS AND RATE

YEAR	FRIANT-KERN CANAL (FKC)											
	FKC ARVIN- EDISON WSD AF	FKC ARVIN- EDISON WSD PW OF AF	FKC CITY OF FRESNO AF	FKC CITY OF FRESNO PW OF AF	FKC CITY OF LINDSAY AF	FKC CITY OF LINDSAY PW OF AF	FKC CITY OF ORANGE COVE AF	FKC CITY OF ORANGE COVE PW OF AF	FKC DELANO- EARLIMART ID AF	FKC DELANO- EARLIMART ID PW OF AF	FKC LINDSAY- STRATHMORE ID AF	FKC LINDSAY- STRATHMORE ID PW OF AF
	1981	473		43,436		-		625		-		-
1982	680		9,585		-		614		-		-	
1983	667		43,598		-		521		-		-	
1984	320		52,639		-		625		-		-	
1985	960		54,178		500		644		-		-	
1986	1,365		31,246		2,298		446		-		-	
1987	1,362		53,574		2,258		709		-		-	
1988	1,346		41,170		2,246		738		-		-	
1989	2,031		49,980		1,948		824		-		-	
1990	2,472		37,330		2,847		969		-		-	
1991	1,778		55,000		2,648		866		-		-	
1992	482		38,570		3,984		1,600		-		299	
1993	1,076		67,740		1,952		872		-		172	
1994	757		46,294		2,378		2,091		-		236	
1995	522		22,013		2,283		2,007		-		260	
1996	1,811		92,954		1,862		2,500		-		288	
1997	42		60,000		1,317		1,386		-		33	
1998	329		14,689		1,058		(200)		-		101	
1999	206		94,667		3,214		1,336		-		167	
2000	216		60,000		1,934		1,534		-		-	
2001	-		58,000		781		1,442		105		404	
2002	-		59,062		2,406		1,480		181		555	
2003	-		60,163		1,808		1,582		150		358	
2004	-		60,355		2,580		1,582		169		563	
2005	-		60,323		923		675		218		41	
2006	-		54,643		1,191		469		197		320	
2007	-		43,161		2,980		1,093		262		478	
2008	475		59,369		1,885		1,592		306		389	
2009	210		49,839		1,859		1,869		372		483	
2010	520		71,959		2,279		522		314		468	
2011	434		50,428		1,416		780		294		322	
2012	567		47,663		1,586		1,123		272		444	
2013	571		32,593		1,984		1,439		298		441	
2014	625		426		1,033		237		144		181	
2015	89		-		1,017		1,121		-		347	
2016	432		50,203		1,140		1,132		-		1,342	
2017	394		29,866		2,171		801		288		625	
2018	445		30,168		1,478		948		185		529	
2019	445	425	30,168	28,812	1,478	1,412	948	905	185	177	529	505
2020	445	415	30,168	28,157	1,478	1,380	948	884	185	173	529	494
2021	445	405	30,168	27,516	1,478	1,348	948	864	185	169	529	482
2022	445	396	30,168	26,891	1,478	1,318	948	845	185	165	529	471
2023	445	387	30,168	26,279	1,478	1,288	948	825	185	161	529	461
2024	445	378	30,168	25,682	1,478	1,258	948	807	185	158	529	450
2025	445	370	30,168	25,098	1,478	1,230	948	788	185	154	529	440
2026	445	361	30,168	24,527	1,478	1,202	948	770	185	151	529	430
2027	445	353	30,168	23,969	1,478	1,174	948	753	185	147	529	420
2028	445	345	30,168	23,424	1,478	1,148	948	736	185	144	529	411
2029	445	337	30,168	22,891	1,478	1,122	948	719	185	140	529	401
2030	445	330	30,168	22,371	1,478	1,096	948	703	185	137	529	392
H&P/T	28,991	4,504	2,148,906	305,617	82,982	14,974	51,964	9,599	5,977	1,876	16,192	5,358
7 - Year Hist Avg (A-12)	445		30,168		1,478		948		185		529	
Projected Del. (A-2ba)	5,335	4,504	362,021	305,617	17,738	14,974	11,371	9,599	2,222	1,876	6,346	5,358

CENTRAL VALLEY PROJECT
SCHEDULE OF HISTORICAL (1981-2017) & PROJECTED (2018-2030) M&I WATER DELIVERIES
AND PRESENT WORTH @ .023270 FOR CALCULATION OF INDIVIDUAL CONTRACTOR PRORATED CONSTRUCTION COSTS AND RATE

YEAR	FRIANT-KERN CANAL CONTINUED (FKC)						NEW MELONES D & R (NMD&R)		SACRAMENTO RIVER (SR)					
	FKC SHAFTER- WASCO ID AF	FKC SHAFTER- WASCO ID PW OF AF	FKC TERRA BELLA ID AF	FKC TERRA BELLA ID PW OF AF	FKC TOTAL AF	FKC TOTAL PW OF AF	NMD&R STOCKTON EAST WD AF	NMD&R STOCKTON EAST WD PW OF AF	SR CITY OF REDDING AF	SR CITY OF REDDING PW OF AF	SR CITY OF WEST SACRAMENTO AF	SR CITY OF WEST SACRAMENTO PW OF AF	SR LAKE CA P.O.A. AF	SR LAKE CA P.O.A. PW OF AF
1981	-		-		44,534					1,912		-		200
1982	-		-		10,879					7,089		640		41
1983	-		-		44,786					1,961		644		-
1984	-		-		53,584					4,672		527		200
1985	-		-		56,282					4,271		535		20
1986	-		-		35,355					2,609		640		380
1987	-		-		57,903					5,299		640		200
1988	78		-		45,578					4,513		640		200
1989	97		-		54,880					4,140		2,669		200
1990	74		-		43,692		9			5,461		2,646		200
1991	378		-		60,670		139			4,752		2,832		150
1992	428		1,116		46,479					4,233		3,117		225
1993	778		925		73,515					6,155		2,159		-
1994	530		850		53,136					4,419		4,628		230
1995	340		950		28,375					1,579		6,822		245
1996	445		906		100,766		8,488			3,184		7,362		200
1997	433		952		64,163		17,797			580		6,960		200
1998	42		460		16,479		18,373			6,002		7,225		200
1999	367		397		100,354		22,780			3,337		6,542		200
2000	311		375		64,370		12,112			3,387		8,940		200
2001	379		425		61,536		6,233			4,010		8,218		200
2002	282		623		64,589		2,413			641		3,492		200
2003	481		425		64,967		1,260			3,393		8,164		200
2004	719		700		66,668		603			3,411		7,279		200
2005	432		897		63,509		108			5,367		14,227		200
2006	376		1,297		58,493		14,555			2,773		4,428		200
2007	596		1,385		49,955		4,436			2,212		8,332		200
2008	654		1,215		65,885		812			4,451		7,817		200
2009	521		1,376		56,529		4,269			2,764		5,860		200
2010	528		1,229		77,819		22,181			1,713		8,708		200
2011	350		1,002		55,026		47,574			1,129		11,506		200
2012	687		1,462		53,804		51,934			2,403		9,106		200
2013	429		1,029		38,784		40,540			2,481		9,180		200
2014	27		539		3,212		41,859			1,693		409		150
2015	-		500		3,074		9,286			4,946		511		150
2016	59		1,826		56,134					2,659		7,323		200
2017	127		1,082		35,354		17,339			2,395		5,709		200
2018	240		1,063		35,055		29,790			2,529		6,249		186
2019	240	229	1,063	1,015	35,055	33,479	29,790	28,451	2,529	2,416	6,249	5,968	186	177
2020	240	224	1,063	992	35,055	32,718	29,790	27,804	2,529	2,361	6,249	5,832	186	173
2021	240	219	1,063	969	35,055	31,974	29,790	27,172	2,529	2,307	6,249	5,700	186	169
2022	240	214	1,063	947	35,055	31,247	29,790	26,554	2,529	2,255	6,249	5,570	186	166
2023	240	209	1,063	926	35,055	30,536	29,790	25,950	2,529	2,203	6,249	5,444	186	162
2024	240	204	1,063	905	35,055	29,842	29,790	25,360	2,529	2,153	6,249	5,320	186	158
2025	240	200	1,063	884	35,055	29,163	29,790	24,783	2,529	2,104	6,249	5,199	186	154
2026	240	195	1,063	864	35,055	28,500	29,790	24,219	2,529	2,056	6,249	5,081	186	151
2027	240	191	1,063	844	35,055	27,852	29,790	23,669	2,529	2,010	6,249	4,965	186	148
2028	240	186	1,063	825	35,055	27,219	29,790	23,130	2,529	1,964	6,249	4,852	186	144
2029	240	182	1,063	806	35,055	26,600	29,790	22,604	2,529	1,919	6,249	4,742	186	141
2030	240	178	1,063	788	35,055	25,995	29,790	22,090	2,529	1,876	6,249	4,634	186	138
H&P/T	14,066	2,430	37,760	10,767	2,386,839	355,124	732,374	301,786	160,879	25,624	267,676	63,306	9,205	1,881
7 - Year Hist Avg (A-12)	240		1,063		35,055		29,790		2,529		6,249		186	
Projected Del. (A-2ba)	2,878	2,430	12,754	10,767	420,665	355,124	357,483	301,786	30,353	25,624	74,990	63,306	2,229	1,881

CENTRAL VALLEY PROJECT
SCHEDULE OF HISTORICAL (1981-2017) & PROJECTED (2018-2030) M&I WATER DELIVERIES
AND PRESENT WORTH @ .023270 FOR CALCULATION OF INDIVIDUAL CONTRACTOR PRORATED CONSTRUCTION COSTS AND RATE

YEAR	SACRAMENTO RIVER CONTINUED (SR)				SAN FELIPE UNIT IN-BASIN (SFUIB)					
	SR RIVERVIEW GOLF & CC AF	SR RIVERVIEW GOLF & CC	SR TOTAL AF	SR TOTAL PW OF AF	SFUIB SAN BENITO COUNTY WD AF	SFUIB SAN BENITO COUNTY WD PW OF AF	SFUIB SANTA CLARA VALLEY WD AF	SFUIB SANTA CLARA VALLEY WD PW OF AF	SFUIB TOTAL AF	SFUIB TOTAL PW OF AF
1981	33		2,145		-		-		-	
1982	17		7,787		-		-		-	
1983	31		2,636		-		-		-	
1984	60		5,459		-		-		-	
1985	75		4,901		-		-		-	
1986	34		3,663		-		-		-	
1987	25		6,164		-		20,784		20,784	
1988	25		5,378		1,100		73,965		75,065	
1989	100		7,109		986		93,629		94,615	
1990	(50)		8,257		904		64,486		65,390	
1991	19		7,753		250		53,102		53,352	
1992	26		7,601		330		69,200		69,530	
1993	-		8,314		550		55,516		56,066	
1994	44		9,321		529		81,313		81,842	
1995	25		8,671		2,191		73,120		75,311	
1996	25		10,771		5,605		94,963		100,568	
1997	25		7,765		5,744		75,346		81,090	
1998	25		13,452		512		21,280		21,792	
1999	25		10,104		5,968		175,102		181,070	
2000	25		12,552		4,748		71,519		76,267	
2001	25		12,453		6,759		120,457		127,216	
2002	25		4,358		2,254		114,303		116,557	
2003	25		11,782		3,513		66,275		69,788	
2004	25		10,915		5,714		121,838		127,552	
2005	25		19,819		6,354		75,658		82,012	
2006	25		7,426		3,919		92,220		96,139	
2007	25		10,769		5,169		155,156		160,325	
2008	25		12,493		3,664		83,570		87,234	
2009	25		8,849		2,509		60,445		62,954	
2010	25		10,646		2,284		118,137		120,421	
2011	25		12,860		10,213		100,384		110,597	
2012	25		11,734		2,060		94,639		96,699	
2013	25		11,886		5,996		94,927		100,923	
2014	0		2,252		2,778		77,878		80,656	
2015	0		5,607		732		35,865		36,597	
2016	25		10,207		1,019		60,053		61,072	
2017	25		8,329		13,100		123,674		136,774	
2018	18		8,982		5,128		83,917		89,045	
2019	18	17	8,982	8,578	5,128	4,898	83,917	80,144	89,045	85,042
2020	18	17	8,982	8,383	5,128	4,786	83,917	78,321	89,045	83,108
2021	18	16	8,982	8,193	5,128	4,677	83,917	76,540	89,045	81,218
2022	18	16	8,982	8,006	5,128	4,571	83,917	74,800	89,045	79,371
2023	18	16	8,982	7,824	5,128	4,467	83,917	73,099	89,045	77,566
2024	18	15	8,982	7,646	5,128	4,366	83,917	71,437	89,045	75,802
2025	18	15	8,982	7,472	5,128	4,266	83,917	69,812	89,045	74,078
2026	18	15	8,982	7,302	5,128	4,169	83,917	68,224	89,045	72,394
2027	18	14	8,982	7,136	5,128	4,074	83,917	66,673	89,045	70,747
2028	18	14	8,982	6,974	5,128	3,982	83,917	65,157	89,045	69,139
2029	18	14	8,982	6,816	5,128	3,891	83,917	63,675	89,045	67,566
2030	18	13	8,982	6,661	5,128	3,803	83,917	62,227	89,045	66,030
H&P/T	1,196	181	438,956	90,992	174,122	51,951	3,709,727	850,109	3,883,849	902,061
7 - Year Hist Avg (A-12)	18		8,982		5,128		83,917		89,045	
Projected Del. (A-2ba)	214	181	107,786	90,992	61,539	51,951	1,007,006	850,109	1,068,545	902,061

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AND PRESENT WORTH @ .023270 FOR CALCULATION OF INDIVIDUAL CONTRACTOR PRORATED CONSTRUCTION COSTS AND RATE

YEAR	SAN LUIS CANAL - FRESNO (SLCF)											
	SLCF CITY OF AVENAL AF	SLCF CITY OF AVENAL PW OF AF	SLCF CITY OF COALINGA AF	SLCF CITY OF COALINGA PW OF AF	SLCF CITY OF HURON AF	SLCF CITY OF HURON PW OF AF	SLCF STATE OF CA AF	SLCF STATE OF CA PW OF AF	SLCF WESTLANDS WD AF	SLCF WESTLANDS WD PW OF AF	SLCF TOTAL AF	SLCF TOTAL PW OF AF
	1981	951		5,633		672		10		4,965		12,231
1982	817		4,728		661		10		4,649		10,865	
1983	670		5,286		729		10		4,427		11,122	
1984	1,057		5,121		801		10		6,306		13,295	
1985	997		4,493		746		10		6,639		12,885	
1986	1,148		6,738		782		10		6,032		14,710	
1987	1,221		5,274		790		10		6,332		13,627	
1988	1,745		4,806		844		10		6,322		13,727	
1989	2,413		6,672		876		3		4,867		14,831	
1990	2,259		6,035		853		6		3,315		12,468	
1991	1,290		4,677		817		3		3,280		10,067	
1992	2,192		4,257		871		4		7,300		14,624	
1993	1,922		4,226		852		-		4,295		11,295	
1994	1,907		4,532		1,309		-		6,142		13,890	
1995	2,456		3,767		1,094		-		5,129		12,446	
1996	2,392		11,185		3,082		-		4,885		21,544	
1997	3,525		9,944		2,964		-		4,876		21,309	
1998	2,000		4,070		(1,378)		6		4,782		9,480	
1999	2,403		(8,464)		1,005		9		5,270		223	
2000	2,538		7,649		1,001		10		5,492		16,690	
2001	2,823		4,311		(1,049)		5		4,903		10,993	
2002	2,536		5,854		1,854		19		6,210		16,473	
2003	2,764		8,234		1,198		18		6,332		18,546	
2004	2,835		7,899		1,105		-		4,340		16,179	
2005	2,730		6,425		1,040		8		3,049		13,252	
2006	2,865		7,651		1,172		11		2,603		14,302	
2007	2,978		7,861		1,222		3		3,232		15,296	
2008	1,977		6,129		1,444		7		2,759		12,316	
2009	2,269		5,806		1,193		12		3,581		12,861	
2010	2,352		5,170		1,071		10		2,379		10,982	
2011	1,922		5,663		873		2		2,622		11,082	
2012	2,519		5,924		1,152		15		2,608		12,218	
2013	2,002		4,218		1,018		5		2,204		9,447	
2014	2,849		4,436		885		4		2,555		10,729	
2015	1,903		3,867		693		4		3,278		9,745	
2016	1,978		4,170		761		2		3,051		9,962	
2017	2,069		5,483		796		2		2,726		11,076	
2018	2,177		4,823		883		5		2,721		10,608	
2019	2,177	2,080	4,823	4,606	883	843	5	5	2,721	2,598	10,608	10,131
2020	2,177	2,032	4,823	4,501	883	824	5	5	2,721	2,539	10,608	9,901
2021	2,177	1,986	4,823	4,399	883	805	5	4	2,721	2,481	10,608	9,676
2022	2,177	1,941	4,823	4,299	883	787	5	4	2,721	2,425	10,608	9,456
2023	2,177	1,897	4,823	4,201	883	769	5	4	2,721	2,370	10,608	9,241
2024	2,177	1,854	4,823	4,106	883	751	5	4	2,721	2,316	10,608	9,031
2025	2,177	1,811	4,823	4,012	883	734	5	4	2,721	2,263	10,608	8,825
2026	2,177	1,770	4,823	3,921	883	718	5	4	2,721	2,212	10,608	8,625
2027	2,177	1,730	4,823	3,832	883	701	5	4	2,721	2,162	10,608	8,429
2028	2,177	1,691	4,823	3,745	883	685	5	4	2,721	2,112	10,608	8,237
2029	2,177	1,652	4,823	3,660	883	670	5	4	2,721	2,064	10,608	8,050
2030	2,177	1,615	4,823	3,576	883	654	5	4	2,721	2,017	10,608	7,866
H&P/T	105,581	22,058	262,429	48,859	47,272	8,941	311	49	199,104	27,560	614,698	107,467
7 - Year Hist Avg (A-1)	2,177		4,823		883		5		2,721		10,608	
Projected Del. (A-2ba)	26,129	22,058	57,876	48,859	10,591	8,941	58	49	32,647	27,560	127,301	107,467

CENTRAL VALLEY PROJECT
SCHEDULE OF HISTORICAL (1981-2017) & PROJECTED (2018-2030) M&I WATER DELIVERIES
AND PRESENT WORTH @ .023270 FOR CALCULATION OF INDIVIDUAL CONTRACTOR PRORATED CONSTRUCTION COSTS AND RATE

YEAR	SAN LUIS CANAL - TRACY (SLCT)								SHASTA D&R (SD&R)							
	SLCT	SLCT	SLCT	SLCT	SLCT	SLCT	SLCT	SLCT	SD&R	SD&R	SD&R	SD&R	SD&R	SD&R	SD&R	SD&R
	PACHECO	PACHECO	PANOCH	PANOCH	SAN LUIS	SAN LUIS	TOTAL	TOTAL	CENTERVILLE	CENTERVILLE	MOUNTAIN	MOUNTAIN	SHASTA	SHASTA	TOTAL	TOTAL
	WD	WD	E	WD	WD	WD	AF	PW OF AF	CSD	CSD	CSD	CSD	CWA	CWA	AF	PW OF AF
AF	PW OF AF	WD	PW OF AF	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF	AF	PW OF AF	
1981	34		-		334		368		0		498		23		521	
1982	17		-		318		335		0		326		32		358	
1983	22		-		293		315		0		385		74		459	
1984	19		-		354		373		0		510		42		552	
1985	35		25		377		437		0		435		55		491	
1986	0		37		368		405		29		479		68		575	
1987	9		24		400		433		150		555		107		812	
1988	13		24		404		441		184		544		101		830	
1989	16		24		449		489		173		557		78		808	
1990	12		24		492		528		822		552		227		1,601	
1991	12		13		436		461		547		506		173		1,226	
1992	12		17		445		474		283		513		105		901	
1993	12		24		456		492		1,654		664		178		2,497	
1994	12		24		448		484		585		510		115		1,211	
1995	12		25		432		469		1,425		590		125		2,140	
1996	11		23		438		472		1,328		580		120		2,029	
1997	13		25		453		491		1,320		891		300		2,511	
1998	12		24		501		537		1,153		903		289		2,344	
1999	12		23		537		572		1,086		837		254		2,177	
2000	12		21		496		529		1,764		1,128		406		3,298	
2001	12		26		518		556		1,002		604		160		1,766	
2002	19		78		596		693		1,083		915		295		2,293	
2003	12		66		699		777		995		918		297		2,210	
2004	12		66		782		860		1,171		926		301		2,397	
2005	13		70		712		795		467		534		414		1,415	
2006	14		54		1,329		1,397		953		979		247		2,179	
2007	12		65		1,040		1,117		1,044		885		231		2,160	
2008	13		87		1,043		1,143		1,076		535		143		1,754	
2009	14		41		455		510		704		400		115		1,219	
2010	7		33		447		487		981		695		249		1,925	
2011	12		55		10,533		10,600		467		715		211		1,393	
2012	12		45		590		647		853		773		200		1,826	
2013	12		74		584		670		875		809		204		1,888	
2014	5		76		136		217		695		584		43		1,322	
2015	-		80		281		361		157		271		41		469	
2016	-		74		401		475		418		292		160		870	
2017	-		103		454		557		547		487		130		1,164	
2018	6		72		1,854		1,932		573		562		141		1,276	
2019	6	6	72	69	1,854	1,771	1,932	1,846	573	547	562	536	141	135	1,276	1,218
2020	6	5	72	68	1,854	1,731	1,932	1,804	573	535	562	524	141	132	1,276	1,191
2021	6	5	72	66	1,854	1,691	1,932	1,762	573	523	562	512	141	129	1,276	1,164
2022	6	5	72	65	1,854	1,653	1,932	1,723	573	511	562	501	141	126	1,276	1,137
2023	6	5	72	63	1,854	1,615	1,932	1,683	573	499	562	489	141	123	1,276	1,111
2024	6	5	72	62	1,854	1,578	1,932	1,645	573	488	562	478	141	120	1,276	1,086
2025	6	5	72	60	1,854	1,542	1,932	1,607	573	477	562	467	141	118	1,276	1,062
2026	6	5	72	59	1,854	1,507	1,932	1,571	573	466	562	457	141	115	1,276	1,037
2027	6	5	72	58	1,854	1,473	1,932	1,536	573	455	562	446	141	112	1,276	1,013
2028	6	5	72	56	1,854	1,440	1,932	1,501	573	445	562	436	141	110	1,276	991
2029	6	4	72	55	1,854	1,407	1,932	1,466	573	435	562	426	141	107	1,276	968
2030	6	4	72	54	1,854	1,375	1,932	1,433	573	425	562	416	141	105	1,276	946
H&P/T	542	59	2,412	735	53,135	18,783	56,089	19,577	33,441	5,806	30,589	5,689	8,149	1,431	72,179	12,926
7 - Year Hist Avg (A-12)	6		72		1,854		1,932		573		562		141		1,276	
Projected Del. (A-2ba)	70	59	869	735	22,250	18,783	23,189	19,577	6,878	5,806	6,739	5,689	1,695	1,431	15,312	12,926

CENTRAL VALLEY PROJECT
SCHEDULE OF HISTORICAL (1981-2017) & PROJECTED (2018-2030) M&I WATER DELIVERIES
AND PRESENT WORTH @ .023270 FOR CALCULATION OF INDIVIDUAL CONTRACTOR PRORATED CONSTRUCTION COSTS AND RATE

YEAR	SPRING CREEK CONDUIT (SCC)								TEHAMA-COLUSA CANAL (TCC)					
	SCC CITY OF REDDING AF	SCC CITY OF REDDING PW OF AF	SCC SHASTA CWA AF	SCC SHASTA CWA PW OF AF	SCC SHASTA CSD AF	SCC SHASTA CSD PW OF AF	SCC TOTAL AF	SCC TOTAL PW OF AF	TCC COLUSA COUNTY AF	TCC COLUSA COUNTY PW OF AF	TCC KANAWHA WD AF	TCC KANAWHA WD PW OF AF	TCC TOTAL AF	TCC TOTAL PW OF AF
	1981			67		482		549						
1982			54		439		493							
1983			59		479		538							
1984			72		546		618							
1985			88		557		645							
1986			131		601		732							
1987			151		665		816							
1988			133		659		792							
1989			110		551		661							
1990			111		527		638							
1991					337		337							
1992			136		641		777							
1993			137		748		885							
1994			160		528		688							
1995	2,292		170		530		2,992							
1996	3,367		191		607		4,165		46				46	
1997	3,371		173		805		4,349		162				162	
1998	3,283		140		585		4,008		129				129	
1999	3,835		166		718		4,719		17				17	
2000	4,011		213		783		5,007		170				170	
2001	4,101		180		562		4,843		214				214	
2002	5,936		182		718		6,836		221				221	
2003	3,890		190		622		4,702		113				113	
2004	4,763		208		650		5,621		155				155	
2005	3,490		168		573		4,231		185				185	
2006	4,553		173		837		5,563		243	4			247	
2007	4,021		169		846		5,036		251	6			257	
2008	2,200		103		487		2,790		210	4			214	
2009	3,565		110		556		4,231		151	3			154	
2010	5,507		155		639		6,301		153	6			159	
2011	5,021		148		614		5,783		147	2			149	
2012	7,112		183		615		7,910		161	4			165	
2013	5,478		185		669		6,332		177	11			188	
2014	2,463		99		331		2,893		99	19			118	
2015	6		70		114		190		39	3			42	
2016	3,750		77		118		3,945		140	17			157	
2017	7,513		127		373		8,013		169	11			180	
2018	4,478		127		405		5,009		133	10			143	
2019	4,478	4,276	127	121	405	387	5,009	4,784	133	127	10	9	143	136
2020	4,478	4,179	127	119	405	378	5,009	4,675	133	124	10	9	143	133
2021	4,478	4,084	127	116	405	369	5,009	4,569	133	121	10	9	143	130
2022	4,478	3,991	127	113	405	361	5,009	4,465	133	119	10	9	143	127
2023	4,478	3,900	127	111	405	353	5,009	4,364	133	116	10	8	143	124
2024	4,478	3,812	127	108	405	345	5,009	4,264	133	113	10	8	143	121
2025	4,478	3,725	127	106	405	337	5,009	4,167	133	111	10	8	143	119
2026	4,478	3,640	127	103	405	329	5,009	4,073	133	108	10	8	143	116
2027	4,478	3,557	127	101	405	322	5,009	3,980	133	106	10	8	143	113
2028	4,478	3,477	127	99	405	314	5,009	3,890	133	103	10	7	143	111
2029	4,478	3,398	127	96	405	307	5,009	3,801	133	101	10	7	143	108
2030	4,478	3,320	127	94	405	300	5,009	3,715	133	99	10	7	143	106
H&P/T	151,736	45,359	6,640	1,287	26,375	4,101	184,752	50,747	5,083	1,349	214	97	5,297	1,446
7 - Year Hist Avg (A-12)	4,478		127		405		5,009		133		10		143	
Projected Del. (A-2ba)	53,731	45,359	1,524	1,287	4,858	4,101	60,113	50,747	1,598	1,349	115	97	1,713	1,446

CENTRAL VALLEY PROJECT
SCHEDULE OF HISTORICAL (1981-2016) & PROJECTED (2017-2030) M&I WATER DELIVERIES
AND PRESENT WORTH @ .022838 FOR CALCULATION OF INDIVIDUAL CONTRACTOR PRORATED CONSTRUCTION COSTS AND RATE

YEAR	TOYON PIPELINE (TP)								DELTA MENDOTA (DM)
	TP CITY OF REDDING	TP CITY OF REDDING PW OF AF	TP CITY OF SHASTA LAKE	TP CITY OF SHASTA LAKE PW OF AF	TP US FOREST SVC	TP US FOREST SVC PW OF AF	TP TOTAL	TP TOTAL	DM EXCHANGE WATER
	AF		AF		AF		AF	PW OF AF	AF
1981	48		1,966		10		2,024		40,830
1982	838		1,746		10		2,594		26,009
1983	885		1,812		10		2,707		50,878
1984	46		2,012		10		2,068		48,944
1985	36		1,954		10		2,000		50,622
1986	1,997		1,909		12		3,918		48,120
1987	50		2,067		24		2,141		43,125
1988	39		2,100		12		2,151		38,091
1989	32		1,846		7		1,885		50,828
1990	47		2,413		11		2,471		56,417
1991	39		2,027		5		2,071		43,350
1992	41		2,488		8		2,537		39,726
1993	45		2,110		9		2,164		46,561
1994	50		2,416		13		2,479		44,178
1995	44		5,453		7		5,504		56,037
1996	54		2,487		1		2,542		65,769
1997	52		2,188		20		2,260		36,388
1998	37		2,167		11		2,215		57,384
1999	63		2,249		10		2,322		56,186
2000	49		2,914		10		2,973		73,000
2001	56		1,712		9		1,777		63,938
2002	46		2,605		11		2,662		58,104
2003	58		2,520		20		2,598		59,635
2004	63		2,720		-		2,783		65,192
2005	20		2,750		10		2,780		59,759
2006	25		3,047		10		3,082		59,211
2007	31		3,121		10		3,162		53,960
2008	34		2,083		10		2,127		51,212
2009	27		1,773		10		1,810		49,578
2010	22		2,447		10		2,479		51,623
2011	23		2,522		10		2,555		56,525
2012	19		1,409		(32)		1,396		60,303
2013	37		891		-		928		56,232
2014	22		717		-		739		36,075
2015	16		831		-		847		32,545
2016	16		516		-		532		42,447
2017	16		1,496		-		1,512		52,197
2018	21		1,197		1		1,220		48,046
2019	21	20	1,197	1,144	1	1	1,220	1,165	48,046
2020	21	20	1,197	1,118	1	1	1,220	1,138	48,046
2021	21	19	1,197	1,092	1	1	1,220	1,112	48,046
2022	21	19	1,197	1,067	1	1	1,220	1,087	48,046
2023	21	19	1,197	1,043	1	1	1,220	1,062	48,046
2024	21	18	1,197	1,019	1	1	1,220	1,038	48,046
2025	21	18	1,197	996	1	1	1,220	1,015	48,046
2026	21	17	1,197	974	1	1	1,220	992	48,046
2027	21	17	1,197	951	1	1	1,220	969	48,046
2028	21	17	1,197	930	1	1	1,220	947	48,046
2029	21	16	1,197	909	1	1	1,220	926	48,046
2030	21	16	1,197	888	1	1	1,220	904	48,046
H&P/T	5,300	216	95,051	12,130	301	10	100,651	12,356	2,505,580
7 - Year Hist Avg (A-12)	21		1,197		1		1,220		48,046
Projected Del. (A-2ba)	255	216	14,369	12,130	12	10	14,637	12,356	576,555

CENTRAL VALLEY PROJECT
SCHEDULE OF HISTORICAL (1981-2017) & PROJECTED (2018-2030) M&I WATER DELIVERIES
AND PRESENT WORTH @ .023270 FOR CALCULATION OF INDIVIDUAL CONTRACTOR PRORATED CONSTRUCTION COSTS AND RATE

YEAR	BLACK BUTTE D&R AF TOTAL	BLACK BUTTE D&R PW OF AF TOTAL	CLEAR CREEK UNIT AF TOTAL	CLEAR CREEK UNIT PW OF AF TOTAL	CONTRA COSTA CANAL AF TOTAL	CONTRA COSTA CANAL PW OF AF TOTAL	COW CREEK UNIT AF TOTAL	COW CREEK UNIT PW OF AF TOTAL	CROSS VALLEY CANAL AF TOTAL	CROSS VALLEY CANAL PW OF AF TOTAL	DETAL MENDOTA CANAL AF TOTAL	DETAL MENDOTA CANAL PW OF AF TOTAL	FOLSOM D&R AF TOTAL	FOLSOM D&R PW OF AF TOTAL	FOLSOM SOUTH CANAL AF TOTAL	FOLSOM SOUTH CANAL PW OF AF TOTAL
1981	60		1,721		141,094		1,283		1,607		5,914		21,689		23,637	
1982	36		1,557		98,470		1,360		407		5,872		22,407		18,706	
1983	40		1,642		131,079		1,225		1,349		5,802		23,924		20,476	
1984	40		1,911		130,995		1,358		1,354		5,700		25,410		31,081	
1985	120		1,942		132,291		1,759		593		5,951		25,860		19,779	
1986	80		2,067		116,230		1,747		3		5,428		30,019		19,693	
1987	97		2,078		142,267		2,322		2		6,542		28,990		17,646	
1988	136		2,096		126,059		2,296		4		8,122		34,124		36,658	
1989	239		1,777		164,612		2,888		3		4,131		28,607		27,283	
1990	122		1,451		186,679		3,593		459		5,531		27,454		20,829	
1991	(33)		659		153,363		2,008		407		5,586		40,743		25,475	
1992	70		2,460		109,576		3,322		297		7,221		23,360		32,939	
1993	47		2,076		93,267		5,539		-		8,005		20,895		34,173	
1994	85		2,329		134,903		6,801		-		7,843		30,693		47,977	
1995	80		1,265		100,593		3,028		-		7,963		40,357		13,593	
1996	40		1,137		104,924		5,521		-		11,410		49,407		58,228	
1997	116		1,812		113,378		5,620		-		11,625		53,472		61,849	
1998	150		1,454		128,980		3,646		-		7,654		38,266		81,556	
1999	77		1,475		92,392		5,216		-		7,557		45,278		91,062	
2000	80		1,912		103,662		5,066		-		11,084		22,931		93,996	
2001	74		1,726		84,806		4,414		-		8,577		46,676		155,398	
2002	86		1,548		82,662		6,617		720		8,968		37,425		32,973	
2003	80		2,202		92,521		1,742		(720)		11,303		47,892		32,715	
2004	54		2,155		90,698		2,066		-		13,933		47,155		49,527	
2005	104		2,052		78,120		1,156		-		13,026		40,482		56,407	
2006	28		2,119		84,837		219		-		7,653		53,136		57,456	
2007	60		2,286		92,708		2,614		-		7,529		48,990		49,792	
2008	23		2,019		96,947		4,411		-		8,259		53,961		21,616	
2009	39		1,187		83,451		3,177		-		9,982		38,025		30,284	
2010	38		1,407		82,426		4,031		-		8,613		39,608		16,541	
2011	27		1,716		54,638		4,697		-		6,323		32,455		30,698	
2012	53		2,220		145,714		5,323		-		12,169		43,189		29,484	
2013	29		2,425		112,556		6,258		-		10,531		36,515		24,888	
2014	23		1,652		96,001		4,328		-		7,800		22,430		18,644	
2015	23		557		56,053		1,911		-		3,913		1,117		33,250	
2016	(6)		620		108,184		2,793		-		4,782		40,396		13,268	
2017	82		1,588		77,809		4,199		228		5,824		47,187			
2018	51		1,540		92,994		4,216		278		7,335		41,432		25,748	
2019	51	49	1,540	1,470	92,994	88,812	4,216	4,026	278	266	7,335	7,005	41,432	39,569	25,748	24,590
2020	51	48	1,540	1,437	92,994	86,793	4,216	3,934	278	259	7,335	6,845	41,432	38,669	25,748	24,031
2021	51	47	1,540	1,404	92,994	84,819	4,216	3,845	278	254	7,335	6,690	41,432	37,790	25,748	23,484
2022	51	45	1,540	1,372	92,994	82,890	4,216	3,758	278	248	7,335	6,538	41,432	36,931	25,748	22,950
2023	51	44	1,540	1,341	92,994	81,005	4,216	3,672	278	242	7,335	6,389	41,432	36,091	25,748	22,428
2024	51	43	1,540	1,311	92,994	79,163	4,216	3,589	278	237	7,335	6,244	41,432	35,270	25,748	21,918
2025	51	42	1,540	1,281	92,994	77,363	4,216	3,507	278	231	7,335	6,102	41,432	34,468	25,748	21,420
2026	51	41	1,540	1,252	92,994	75,604	4,216	3,427	278	226	7,335	5,963	41,432	33,684	25,748	20,933
2027	51	41	1,540	1,223	92,994	73,884	4,216	3,349	278	221	7,335	5,827	41,432	32,918	25,748	20,457
2028	51	40	1,540	1,195	92,994	72,204	4,216	3,273	278	216	7,335	5,695	41,432	32,170	25,748	19,992
2029	51	39	1,540	1,168	92,994	70,562	4,216	3,199	278	211	7,335	5,565	41,432	31,438	25,748	19,537
2030	51	38	1,540	1,142	92,994	68,958	4,216	3,126	278	206	7,335	5,439	41,432	30,723	25,748	19,093
H&P/T	3,162	517	84,316	15,598	5,233,861	942,057	180,356	42,705	10,327	2,816	389,475	74,302	1,849,141	419,720	1,764,297	260,833
7 - Year Hist Avg (A-12)	51		1,540		92,994		4,216		278		7,335		41,432		25,748	
Projected Del. (A-2ba)	612	517	18,477	15,598	1,115,923	942,057	50,587	42,705	3,336	2,816	88,015	74,302	497,184	419,720	308,973	260,833

CENTRAL VALLEY PROJECT
SCHEDULE OF HISTORICAL (1981-2017) & PROJECTED (2018-2030) M&I WATER DELIVERIES

AND PRESENT WORTH @ .023270 FOR CALCULATION OF INDIVIDUAL CONTRACTOR PRORATED CONSTRUCTION COSTS AND RATE

YEAR	FRIANT DAM	FRIANT DAM	FRIANT KERN CANAL	FRIANT KERN CANAL	NEW MELONES D & R	NEW MELONES D&R	SACRAMENTO RIVER	SACRAMENTO RIVER	SAN FELIPE UNIT (IN BASIN)	SAN FELIPE UNIT (IN BASIN)	SAN LUIS CANAL FRESNO	SAN LUIS CANAL FRESNO	SAN LUIS CANAL TRACY	SAN LUIS CANAL TRACY	SHASTA D&R	SHASTA D&R
	AF TOTAL	PW OF AF TOTAL	AF TOTAL	PW OF AF	AF TOTAL	PW OF AF TOTAL	AF TOTAL	PW OF AF TOTAL	AF TOTAL	PW OF AF TOTAL	AF TOTAL	PW OF AF TOTAL	AF TOTAL	PW OF AF TOTAL	AF TOTAL	PW OF AF TOTAL
1981	167		44,534		-		2,145		-		12,231		368		521	
1982	149		10,879		-		7,787		-		10,865		335		358	
1983	176		44,786		-		2,636		-		11,122		315		459	
1984	154		53,584		-		5,459		-		13,295		373		552	
1985	80		56,282		-		4,901		-		12,885		437		491	
1986	118		35,355		-		3,663		-		14,710		405		575	
1987	166		57,903		-		6,164		20,784		13,627		433		812	
1988	192		45,578		-		5,378		75,065		13,727		441		830	
1989	274		54,880		-		7,109		94,615		14,831		489		808	
1990	171		43,692		9		8,257		65,390		12,468		528		1,601	
1991	358		60,670		139		7,753		53,352		10,067		461		1,226	
1992	398		46,479		-		7,601		69,530		14,624		474		901	
1993	295		73,515		-		8,314		56,066		11,295		492		2,497	
1994	287		53,136		-		9,321		81,842		13,890		484		1,211	
1995	323		28,375		-		8,671		75,311		12,446		469		2,140	
1996	211		100,766		8,488		10,771		100,568		21,544		472		2,029	
1997	188		64,163		17,797		7,765		81,090		21,309		491		2,511	
1998	164		16,479		18,373		13,452		21,792		9,480		537		2,344	
1999	180		100,354		22,780		10,104		181,070		223		572		2,177	
2000	199		64,370		12,112		12,552		76,267		16,690		529		3,298	
2001	301		61,536		6,233		12,453		127,216		10,993		556		1,766	
2002	314		64,589		2,413		4,358		116,557		16,473		693		2,293	
2003	197		64,967		1,260		11,782		69,788		18,546		777		2,210	
2004	314		66,668		603		10,915		127,552		16,179		860		2,397	
2005	180		63,509		108		19,819		82,012		13,252		795		1,415	
2006	182		58,493		14,555		7,426		96,139		14,302		1,397		2,179	
2007	178		49,955		4,436		10,769		160,325		15,296		1,117		2,160	
2008	152		65,885		812		12,493		87,234		12,316		1,143		1,754	
2009	176		56,529		4,269		8,849		62,954		12,861		510		1,219	
2010	156		77,819		22,181		10,646		120,421		10,982		487		1,925	
2011	144		55,026		47,574		12,860		110,597		11,082		10,600		1,393	
2012	158		53,804		51,934		11,734		96,699		12,218		647		1,826	
2013	101		38,784		40,540		11,886		100,923		9,447		670		1,888	
2014	89		3,212		41,859		2,252		80,656		10,729		217		1,322	
2015	139		3,074		9,286		5,607		36,597		9,745		361		469	
2016	128		56,134				10,207		61,072		9,962		475		870	
2017	145		35,354		17,339		8,329		136,774		11,076		557		1,164	
2018	129		35,055		29,790		8,982		89,045		10,608		1,932		1,276	
2019	129	123	35,055	33,479	29,790	28,451	8,982	8,578	89,045	85,042	10,608	10,131	1,932	1,846	1,276	1,218
2020	129	121	35,055	32,718	29,790	27,804	8,982	8,383	89,045	83,108	10,608	9,901	1,932	1,804	1,276	1,191
2021	129	118	35,055	31,974	29,790	27,172	8,982	8,193	89,045	81,218	10,608	9,676	1,932	1,762	1,276	1,164
2022	129	115	35,055	31,247	29,790	26,554	8,982	8,006	89,045	79,371	10,608	9,456	1,932	1,723	1,276	1,137
2023	129	112	35,055	30,536	29,790	25,950	8,982	7,824	89,045	77,566	10,608	9,241	1,932	1,683	1,276	1,111
2024	129	110	35,055	29,842	29,790	25,360	8,982	7,646	89,045	75,802	10,608	9,031	1,932	1,645	1,276	1,086
2025	129	107	35,055	29,163	29,790	24,783	8,982	7,472	89,045	74,078	10,608	8,825	1,932	1,607	1,276	1,062
2026	129	105	35,055	28,500	29,790	24,219	8,982	7,302	89,045	72,394	10,608	8,625	1,932	1,571	1,276	1,037
2027	129	103	35,055	27,852	29,790	23,669	8,982	7,136	89,045	70,747	10,608	8,429	1,932	1,536	1,276	1,013
2028	129	100	35,055	27,219	29,790	23,130	8,982	6,974	89,045	69,139	10,608	8,237	1,932	1,501	1,276	991
2029	129	98	35,055	26,600	29,790	22,604	8,982	6,816	89,045	67,566	10,608	8,050	1,932	1,466	1,276	968
2030	129	96	35,055	25,995	29,790	22,090	8,982	6,661	89,045	66,030	10,608	7,866	1,932	1,433	1,276	946
H&P/T	8,983	1,308	2,386,839	355,124	732,374	301,786	438,956	90,992	3,883,849	902,061	614,698	107,467	56,089	19,577	72,179	12,926
7 - Year Hist Avg (A-12)	129		35,055		29,790		8,982		89,045		10,608		1,932		1,276	
Projected Del. (A-2ba)	1,550	1,308	420,665	355,124	357,483	301,786	107,786	90,992	1,068,545	902,061	127,301	107,467	23,189	19,577	15,312	12,926

CENTRAL VALLEY PROJECT
SCHEDULE OF HISTORICAL (1981-2017) & PROJECTED (2018-2030) M&I WATER DELIVERIES
AND PRESENT WORTH @ .023270 FOR CALCULATION OF INDIVIDUAL CONTRACTOR PRORATED CONSTRUCTION COSTS AND RATE

YEAR	SPRING CREEK CONDUIT AF TOTAL	SPRING CREEK CONDUIT PW OF AF TOTAL	TEHAMA-COLUSA CANAL AF TOTAL	TEHAMA-COLUSA CANAL PW OF AF TOTAL	TOYON PIPELINE AF TOTAL	TOYON PIPELINE PW OF AF TOTAL	TOTAL W/O EXCHANGE AF TOTAL	TOTAL W/O EXCHANGE PW OF AF TOTAL	DELTA-MENDOTA EXCHANGE WATER	TOTAL WITH EXCHANGE AF TOTAL	TOTAL WITH EXCHANGE PW OF AF TOTAL
1981	549				2,024		259,544		40,830	300,374	
1982	493				2,594		182,275		26,009	208,284	
1983	538				2,707		248,276		50,878	299,154	
1984	618				2,068		273,952		48,944	322,896	
1985	645				2,000		266,016		50,622	316,638	
1986	732				3,918		234,743		48,120	282,863	
1987	816				2,141		302,790		43,125	345,915	
1988	792				2,151		353,649		38,091	391,740	
1989	661				1,885		405,092		50,828	455,920	
1990	638				2,471		381,343		56,417	437,760	
1991	337				2,071		364,642		43,350	407,992	
1992	777				2,537		322,566		39,726	362,292	
1993	885				2,164		319,525		46,561	366,086	
1994	688				2,479		393,969		44,178	438,147	
1995	2,992				5,504		303,110		56,037	359,147	
1996	4,165		46		2,542		482,269		65,769	548,038	
1997	4,349		162		2,260		449,957		36,388	486,345	
1998	4,008		129		2,215		350,679		57,384	408,063	
1999	4,719		17		2,322		567,575		56,186	623,760	
2000	5,007		170		2,973		432,898		73,000	505,898	
2001	4,843		214		1,777		529,559		63,938	593,497	
2002	6,836		221		2,662		388,408		58,104	446,512	
2003	4,702		113		2,598		364,675		59,635	424,310	
2004	5,621		155		2,783		439,635		65,192	504,827	
2005	4,231		185		2,780		379,633		59,759	439,392	
2006	5,563		247		3,082		409,013		59,211	468,224	
2007	5,036		257		3,162		456,670		53,960	510,630	
2008	2,790		214		2,127		374,156		51,212	425,368	
2009	4,231		154		1,810		319,707		49,578	369,285	
2010	6,301		159		2,479		406,220		51,623	457,843	
2011	5,783		149		2,555		388,317		56,525	444,842	
2012	7,910		165		1,396		476,643		60,303	536,946	
2013	6,332		188		928		404,889		56,232	461,121	
2014	2,893		118		739		294,964		36,075	331,039	
2015	190		42		847		163,181		32,545	195,726	
2016	3,945		157		532		313,519		42,447	355,966	
2017	8,013		180		1,512		357,360		52,197	409,557	
2018	5,009		143		1,220		356,783		48,046	404,830	
2019	5,009	4,784	143	136	1,220	1,165	356,783	340,741	48,046	404,830	340,741
2020	5,009	4,675	143	133	1,220	1,138	356,783	332,993	48,046	404,830	332,993
2021	5,009	4,569	143	130	1,220	1,112	356,783	325,420	48,046	404,830	325,420
2022	5,009	4,465	143	127	1,220	1,087	356,783	318,021	48,046	404,830	318,021
2023	5,009	4,364	143	124	1,220	1,062	356,783	310,787	48,046	404,830	310,787
2024	5,009	4,264	143	121	1,220	1,038	356,783	303,721	48,046	404,830	303,721
2025	5,009	4,167	143	119	1,220	1,015	356,783	296,813	48,046	404,830	296,813
2026	5,009	4,073	143	116	1,220	992	356,783	290,064	48,046	404,830	290,064
2027	5,009	3,980	143	113	1,220	969	356,783	283,468	48,046	404,830	283,468
2028	5,009	3,890	143	111	1,220	947	356,783	277,022	48,046	404,830	277,022
2029	5,009	3,801	143	108	1,220	926	356,783	270,722	48,046	404,830	270,722
2030	5,009	3,715	143	106	1,220	904	356,783	264,566	48,046	404,830	264,566
H&P/T	184,752	50,747	5,297	1,446	100,651	12,356	17,999,602	3,614,338	2,505,580	20,505,181	3,614,338
7 - Year Hist Avg (A-12)	5,009		143		1,220		356,783		48,046	404,830	
Projected Del. (A-2ba)	60,113	50,747	1,713	1,446	14,637	12,356	4,281,399	3,614,338	576,555	4,857,954	3,614,338

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CENTRAL VALLEY PROJECT
SCHEDULE OF HISTORICAL (1981-2017) & PROJECTED (2018-2030) M&I WATER DELIVERIES
AND PRESENT WORTH @ .023270 FOR CALCULATION OF INDIVIDUAL CONTRACTOR PRORATED CONSTRUCTION COSTS AND RATE

1/ Acre-feet converted from Irrigation are used for Arbuckle Golf Course.

Note: Projected deliveries are based on the contractor's 7-year average of historical deliveries.