

M&I 2020 Sch A-13 F.Z22.XLSM
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CENTRAL VALLEY PROJECT
SCHEDULE OF HISTORICAL (1981-2018) & PROJECTED (2019-2030) M&I WATER DELIVERIES
AND PRESENT WORTH @ .022904 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	BBD&R	BBD&R	BBD&R	BBD&R	BBD&R	BBD&R	BBD&R	BBD&R	BBD&R	CICU	CICU	CCC	CCC	CoCU	CoCU
	COUNTY OF COLUSA	COUNTY OF COLUSA	ELK CREEK CSD	ELK CREEK CSD	US FOREST SVC	US FOREST SVC	WHITNEY CONST.	WHITNEY CONST.	TOTAL	TOTAL	CLEAR CREEK CSD	CLEAR CREEK CSD	CONTRA COSTA WD	CONTRA COSTA WD	BELLA VISTA WD	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	6				9				15		2,373		81,912		4,521	
2019	7		14		14		4		39		1,634		96,890		4,190	
2020	7	7	14	14	14	14	4	4	39	38	1,634	1,597	96,890	94,720	4,190	4,097
2021	7	7	14	13	14	14	4	4	39	37	1,634	1,561	96,890	92,599	4,190	4,005
2022	7	6	14	13	14	13	4	4	39	36	1,634	1,526	96,890	90,526	4,190	3,915
2023	7	6	14	13	14	13	4	4	39	36	1,634	1,492	96,890	88,499	4,190	3,828
2024	7	6	14	13	14	13	4	4	39	35	1,634	1,459	96,890	86,517	4,190	3,742
2025	7	6	14	12	14	12	4	3	39	34	1,634	1,426	96,890	84,580	4,190	3,658
2026	7	6	14	12	14	12	4	3	39	33	1,634	1,394	96,890	82,686	4,190	3,576
2027	7	6	14	12	14	12	4	3	39	33	1,634	1,363	96,890	80,835	4,190	3,496
2028	7	6	14	11	14	12	4	3	39	32	1,634	1,332	96,890	79,025	4,190	3,418
2029	7	5	14	11	14	11	4	3	39	31	1,634	1,303	96,890	77,255	4,190	3,341
2030	7	5	14	11	14	11	4	3	39	30	1,634	1,273	96,890	75,526	4,190	3,266
H&P/T	1,173	66	583	135	395	136	831	39	2,982	375	86,276	15,727	5,269,535	932,770	180,360	40,342
7-Year Hist Avg (A-12)	7		14		14		4		39		1,634		96,890		4,190	
Projected Del. (A-2ba)	75	66	154	135	156	136	44	39	429	375	17,969	15,727	1,065,788	932,770	46,095	40,342

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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 PANOCHÉ WD	DMC PANOCHÉ 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	-		-				1,203		15,354		5		525			25
2019	86		192		278		902		7,589		5		297			23
2020	86	84	192	188	278	272	902	881	7,589	7,419	5	5	297	291	23	23
2021	86	82	192	183	278	266	902	862	7,589	7,253	5	5	297	284	23	22
2022	86	80	192	179	278	260	902	842	7,589	7,090	5	5	297	278	23	22
2023	86	79	192	175	278	254	902	823	7,589	6,932	5	5	297	272	23	21
2024	86	77	192	171	278	248	902	805	7,589	6,776	5	5	297	266	23	21
2025	86	75	192	168	278	243	902	787	7,589	6,625	5	5	297	260	23	20
2026	86	73	192	164	278	237	902	769	7,589	6,476	5	5	297	254	23	20
2027	86	72	192	160	278	232	902	752	7,589	6,331	5	5	297	248	23	20
2028	86	70	192	157	278	227	902	735	7,589	6,190	5	4	297	243	23	19
2029	86	69	192	153	278	222	902	719	7,589	6,051	5	4	297	237	23	19
2030	86	67	192	150	278	217	902	703	7,589	5,916	5	4	297	232	23	18
H&P/T	2,298	828	7,751	1,848	10,049	2,676	31,808	8,680	371,495	73,059	551	52	7,235	2,863	1,172	226
7 - Year Hist Avg (A-12)	86		192		278		902		7,589		5		297		23	
Projected Del. (A-2ba)	946	828	2,112	1,848	3,058	2,676	9,917	8,680	83,477	73,059	60	52	3,272	2,863	258	226

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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	11		17,123			4,073	28,383		6,068		-		2,224		0		40,748	
2019	61		8,877			5,400	23,067		4,211		5,000		3,689		1,060		42,428	
2020	61	59	8,877	8,679	5,400	5,279	23,067	22,551	4,211	4,117	5,000	4,888	3,689	3,607	1,060	1,036	42,428	41,478
2021	61	58	8,877	8,484	5,400	5,161	23,067	22,046	4,211	4,025	5,000	4,779	3,689	3,526	1,060	1,013	42,428	40,549
2022	61	57	8,877	8,294	5,400	5,045	23,067	21,552	4,211	3,935	5,000	4,672	3,689	3,447	1,060	990	42,428	39,641
2023	61	55	8,877	8,109	5,400	4,932	23,067	21,070	4,211	3,847	5,000	4,567	3,689	3,370	1,060	968	42,428	38,753
2024	61	54	8,877	7,927	5,400	4,822	23,067	20,598	4,211	3,761	5,000	4,465	3,689	3,294	1,060	946	42,428	37,886
2025	61	53	8,877	7,750	5,400	4,714	23,067	20,137	4,211	3,676	5,000	4,365	3,689	3,221	1,060	925	42,428	37,037
2026	61	52	8,877	7,576	5,400	4,608	23,067	19,686	4,211	3,594	5,000	4,267	3,689	3,148	1,060	904	42,428	36,208
2027	61	51	8,877	7,406	5,400	4,505	23,067	19,245	4,211	3,514	5,000	4,171	3,689	3,078	1,060	884	42,428	35,397
2028	61	50	8,877	7,241	5,400	4,404	23,067	18,814	4,211	3,435	5,000	4,078	3,689	3,009	1,060	864	42,428	34,605
2029	61	48	8,877	7,078	5,400	4,306	23,067	18,393	4,211	3,358	5,000	3,987	3,689	2,942	1,060	845	42,428	33,830
2030	61	47	8,877	6,920	5,400	4,209	23,067	17,981	4,211	3,283	5,000	3,897	3,689	2,876	1,060	826	42,428	33,072
H&P/T	5,517	585	417,778	85,464	72,103	51,986	1,103,029	222,073	268,347	40,544	60,085	48,136	115,655	35,517	241,186	10,201	1,860,406	408,457
7 - Year Hist Avg (A-12)	61		8,877		5,400		23,067		4,211		5,000		3,689		1,060		42,428	
Projected Del. (A-2ba)	668	585	97,652	85,464	59,400	51,986	253,742	222,073	46,326	40,544	55,000	48,136	40,582	35,517	11,655	10,201	466,705	408,457

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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	-		7,000		-		7,000		300		125		425	
2019	9,309		4,286		7,767		21,362		69		100		169	
2020	9,309	9,100	4,286	4,190	7,767	7,594	21,362	20,884	69	67	100	98	169	165
2021	9,309	8,897	4,286	4,096	7,767	7,423	21,362	20,416	69	66	100	96	169	162
2022	9,309	8,697	4,286	4,004	7,767	7,257	21,362	19,959	69	64	100	94	169	158
2023	9,309	8,503	4,286	3,915	7,767	7,095	21,362	19,512	69	63	100	92	169	155
2024	9,309	8,312	4,286	3,827	7,767	6,936	21,362	19,075	69	61	100	90	169	151
2025	9,309	8,126	4,286	3,741	7,767	6,781	21,362	18,648	69	60	100	88	169	148
2026	9,309	7,944	4,286	3,658	7,767	6,629	21,362	18,231	69	59	100	86	169	144
2027	9,309	7,766	4,286	3,576	7,767	6,480	21,362	17,822	69	57	100	84	169	141
2028	9,309	7,592	4,286	3,496	7,767	6,335	21,362	17,423	69	56	100	82	169	138
2029	9,309	7,422	4,286	3,417	7,767	6,193	21,362	17,033	69	55	100	80	169	135
2030	9,309	7,256	4,286	3,341	7,767	6,055	21,362	16,652	69	54	100	78	169	132
H&P/T	942,424	89,617	58,432	41,262	692,068	74,778	1,692,924	205,657	3,872	663	5,888	967	9,760	1,630
7 - Year Hist Avg (A-12)	9,309		4,286		7,767		21,362		69		100		169	
Projected Del. (A-2ba)	102,397	89,617	47,146	41,262	85,442	74,778	234,985	205,657	757	663	1,105	967	1,862	1,630

CENTRAL VALLEY PROJECT
SCHEDULE OF HISTORICAL (1981-2018) & PROJECTED (2019-2030) M&I WATER DELIVERIES
AND PRESENT WORTH @ .022904 FOR CALCULATION OF INDIVIDUAL CONTRACTOR PRORATED CONSTRUCTION COSTS AND RAT

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	563		72,678		1,588		1,677		468		420	
2019	463		33,347		1,503		1,076		210		543	
2020	463	453	33,347	32,600	1,503	1,469	1,076	1,052	210	205	543	531
2021	463	442	33,347	31,870	1,503	1,436	1,076	1,028	210	201	543	519
2022	463	433	33,347	31,157	1,503	1,404	1,076	1,005	210	196	543	507
2023	463	423	33,347	30,459	1,503	1,373	1,076	983	210	192	543	496
2024	463	413	33,347	29,777	1,503	1,342	1,076	961	210	188	543	485
2025	463	404	33,347	29,110	1,503	1,312	1,076	939	210	183	543	474
2026	463	395	33,347	28,459	1,503	1,282	1,076	918	210	179	543	463
2027	463	386	33,347	27,821	1,503	1,254	1,076	897	210	175	543	453
2028	463	378	33,347	27,198	1,503	1,226	1,076	877	210	171	543	443
2029	463	369	33,347	26,589	1,503	1,198	1,076	858	210	167	543	433
2030	463	361	33,347	25,994	1,503	1,171	1,076	839	210	164	543	423
H&P/T	29,331	4,457	2,229,558	321,035	83,387	14,467	54,232	10,356	6,558	2,022	16,251	5,226
7 - Year Hist Avg (A-12)	463		33,347		1,503		1,076		210		543	
Projected Del. (A-2ba)	5,093	4,457	366,817	321,035	16,530	14,467	11,833	10,356	2,310	2,022	5,971	5,226

CENTRAL VALLEY PROJECT
SCHEDULE OF HISTORICAL (1981-2018) & PROJECTED (2019-2030) M&I WATER DELIVERIES
AND PRESENT WORTH @ .022904 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	132	-	1,569	-	79,095	-	34,429	2,263	-	9,151	-	-	200	-
2019	209	-	1,144	-	38,494	-	27,912	2,691	-	5,913	-	-	186	-
2020	209	204	1,144	1,118	38,494	37,632	27,912	2,691	2,631	5,913	5,780	-	186	182
2021	209	199	1,144	1,093	38,494	36,789	27,912	2,691	2,572	5,913	5,651	-	186	177
2022	209	195	1,144	1,069	38,494	35,966	27,912	2,691	2,515	5,913	5,524	-	186	174
2023	209	191	1,144	1,045	38,494	35,160	27,912	2,691	2,458	5,913	5,401	-	186	170
2024	209	186	1,144	1,021	38,494	34,373	27,912	2,691	2,403	5,913	5,280	-	186	166
2025	209	182	1,144	999	38,494	33,603	27,912	2,691	2,349	5,913	5,162	-	186	162
2026	209	178	1,144	976	38,494	32,851	27,912	2,691	2,297	5,913	5,046	-	186	158
2027	209	174	1,144	954	38,494	32,115	27,912	2,691	2,245	5,913	4,933	-	186	155
2028	209	170	1,144	933	38,494	31,396	27,912	2,691	2,195	5,913	4,823	-	186	151
2029	209	166	1,144	912	38,494	30,693	27,912	2,691	2,146	5,913	4,715	-	186	148
2030	209	163	1,144	892	38,494	30,006	27,912	2,691	2,098	5,913	4,609	-	186	145
H&P/T	13,585	2,009	39,238	11,012	2,472,139	370,585	714,478	268,716	162,556	25,911	266,541	56,922	9,220	1,788
7 - Year Hist Avg (A-12)	209	-	1,144	-	38,494	-	27,912	-	2,691	-	5,913	-	186	-
Projected Del. (A-2ba)	2,296	2,009	12,582	11,012	423,432	370,585	307,037	268,716	29,606	25,911	65,040	56,922	2,043	1,788

CENTRAL VALLEY PROJECT
SCHEDULE OF HISTORICAL (1981-2018) & PROJECTED (2019-2030) M&I WATER DELIVERIES
AND PRESENT WORTH @ .022904 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	25		11,639		2,321		109,420		111,741	
2019	18		8,808		4,001		85,208		89,209	
2020	18	17	8,808	8,610	4,001	3,911	85,208	83,300	89,209	87,211
2021	18	17	8,808	8,418	4,001	3,824	85,208	81,435	89,209	85,259
2022	18	17	8,808	8,229	4,001	3,738	85,208	79,611	89,209	83,350
2023	18	16	8,808	8,045	4,001	3,654	85,208	77,829	89,209	81,483
2024	18	16	8,808	7,865	4,001	3,573	85,208	76,086	89,209	79,659
2025	18	16	8,808	7,689	4,001	3,493	85,208	74,383	89,209	77,875
2026	18	15	8,808	7,517	4,001	3,414	85,208	72,717	89,209	76,131
2027	18	15	8,808	7,348	4,001	3,338	85,208	71,089	89,209	74,427
2028	18	15	8,808	7,184	4,001	3,263	85,208	69,497	89,209	72,760
2029	18	14	8,808	7,023	4,001	3,190	85,208	67,941	89,209	71,131
2030	18	14	8,808	6,866	4,001	3,119	85,208	66,420	89,209	69,538
H&P/T	1,203	172	439,520	84,793	157,785	38,517	3,750,720	820,307	3,908,505	858,824
7 - Year Hist Avg (A-12)	18		8,808		4,001		85,208		89,209	
Projected Del. (A-2ba)	196	172	96,885	84,793	44,009	38,517	937,288	820,307	981,297	858,824

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AND PRESENT WORTH @ .022904 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	2,284		7,660		829		1		2,388		13,162	
2019	2,229		5,108		876		5		2,687		10,906	
2020	2,229	2,179	5,108	4,994	876	857	5	5	2,687	2,627	10,906	10,661
2021	2,229	2,130	5,108	4,882	876	837	5	5	2,687	2,568	10,906	10,423
2022	2,229	2,083	5,108	4,773	876	819	5	4	2,687	2,511	10,906	10,189
2023	2,229	2,036	5,108	4,666	876	800	5	4	2,687	2,454	10,906	9,961
2024	2,229	1,991	5,108	4,561	876	782	5	4	2,687	2,399	10,906	9,738
2025	2,229	1,946	5,108	4,459	876	765	5	4	2,687	2,346	10,906	9,520
2026	2,229	1,902	5,108	4,359	876	748	5	4	2,687	2,293	10,906	9,307
2027	2,229	1,860	5,108	4,262	876	731	5	4	2,687	2,242	10,906	9,098
2028	2,229	1,818	5,108	4,166	876	715	5	4	2,687	2,192	10,906	8,895
2029	2,229	1,777	5,108	4,073	876	699	5	4	2,687	2,143	10,906	8,696
2030	2,229	1,738	5,108	3,982	876	683	5	4	2,687	2,095	10,906	8,501
H&P/T	106,308	21,460	268,689	49,178	47,143	8,436	306	45	198,371	25,869	620,817	104,989
7 - Year Hist Avg (A-1	2,229		5,108		876		5		2,687		10,906	
Projected Del. (A-2ba	24,521	21,460	56,191	49,178	9,639	8,436	52	45	29,559	25,869	119,961	104,989

CENTRAL VALLEY PROJECT
SCHEDULE OF HISTORICAL (1981-2018) & PROJECTED (2019-2030) M&I WATER DELIVERIES
AND PRESENT WORTH @ .022904 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	PANOUCHE	PANOUCHE	SAN LUIS	SAN LUIS	TOTAL	TOTAL	CENTERVILLE	CENTERVILLE	MOUNTAIN GATE	MOUNTAIN GATE	SHASTA	SHASTA	TOTAL	TOTAL
	WD	WD	WD	WD	WD	WD	AF	PW OF AF	CSD	CSD	CSD	CSD	CWA	CWA	AF	PW OF AF
									AF	PW OF AF	AF	CSD	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	-		94		599		693		800		662		79		1,541	
2019	4		78		435		517		621		554		122		1,297	
2020	4	4	78	76	435	425	517	505	621	607	554	542	122	120	1,297	1,268
2021	4	4	78	75	435	416	517	495	621	593	554	529	122	117	1,297	1,239
2022	4	4	78	73	435	406	517	483	621	580	554	518	122	114	1,297	1,212
2023	4	4	78	71	435	397	517	472	621	567	554	506	122	112	1,297	1,185
2024	4	4	78	70	435	388	517	462	621	554	554	495	122	109	1,297	1,158
2025	4	4	78	68	435	380	517	452	621	542	554	484	122	107	1,297	1,132
2026	4	4	78	67	435	371	517	442	621	530	554	473	122	104	1,297	1,107
2027	4	3	78	65	435	363	517	431	621	518	554	462	122	102	1,297	1,082
2028	4	3	78	64	435	355	517	422	621	506	554	452	122	100	1,297	1,058
2029	4	3	78	62	435	347	517	412	621	495	554	442	122	98	1,297	1,034
2030	4	3	78	61	435	339	517	403	621	484	554	432	122	95	1,297	1,011
H&P/T	516	40	2,500	752	34,850	4,187	37,866	4,979	34,239	5,976	30,598	5,333	7,861	1,179	72,698	12,488
7 - Year Hist Avg (A-12)	4		78		435		517		621		554		122		1,297	
Projected Del. (A-2ba)	46	40	858	752	4,785	4,187	5,689	4,979	6,828	5,976	6,094	5,333	1,347	1,179	14,269	12,488

CENTRAL VALLEY PROJECT
SCHEDULE OF HISTORICAL (1981-2018) & PROJECTED (2019-2030) M&I WATER DELIVERIES
AND PRESENT WORTH @ .022904 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 1/	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	7,006		75		439		7,520	164		23		187		
2019	4,761		117		380		5,258	136		13		148		
2020	4,761	4,655	117	114	380	371	5,258	5,140	136	133	13	12	148	145
2021	4,761	4,550	117	111	380	363	5,258	5,025	136	130	13	12	148	142
2022	4,761	4,448	117	109	380	355	5,258	4,912	136	127	13	12	148	138
2023	4,761	4,349	117	106	380	347	5,258	4,802	136	124	13	11	148	135
2024	4,761	4,251	117	104	380	339	5,258	4,695	136	121	13	11	148	132
2025	4,761	4,156	117	102	380	332	5,258	4,590	136	118	13	11	148	129
2026	4,761	4,063	117	99	380	324	5,258	4,487	136	116	13	11	148	126
2027	4,761	3,972	117	97	380	317	5,258	4,386	136	113	13	10	148	124
2028	4,761	3,883	117	95	380	310	5,258	4,288	136	111	13	10	148	121
2029	4,761	3,796	117	93	380	303	5,258	4,192	136	108	13	10	148	118
2030	4,761	3,711	117	91	380	296	5,258	4,098	136	106	13	10	148	115
H&P/T	157,668	45,836	6,463	1,122	26,109	3,657	190,240	50,615	5,143	1,305	264	121	5,407	1,426
7 - Year Hist Avg (A-12)	4,761		117		380		5,258		136		13		148	
Projected Del. (A-2ba)	52,373	45,836	1,282	1,122	4,178	3,657	57,833	50,615	1,491	1,305	138	121	1,630	1,426

CENTRAL VALLEY PROJECT
SCHEDULE OF HISTORICAL (1981-2018) & PROJECTED (2019-2030) M&I WATER DELIVERIES
AND PRESENT WORTH @ .022904 FOR CALCULATION OF INDIVIDUAL CONTRACTOR PRORATED CONSTRUCTION COSTS AND RATE

YEAR	TOYON PIPELINE (TP)								DELTA MENDOTA (DM)
	TP CITY OF REDDING AF	TP CITY OF REDDING PW OF AF	TP CITY OF SHASTA LAKE AF	TP CITY OF SHASTA LAKE PW OF AF	TP US FOREST SVC AF	TP US FOREST SVC PW OF AF	TP TOTAL AF	TP TOTAL PW OF AF	DM EXCHANGE WATER 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	20		1,905		-		1,925		50,773
2019	21		1,109		1		1,131		47,224
2020	21	20	1,109	1,084	1	1	1,131	1,106	47,224
2021	21	20	1,109	1,060	1	1	1,131	1,081	47,224
2022	21	19	1,109	1,036	1	1	1,131	1,057	47,224
2023	21	19	1,109	1,013	1	1	1,131	1,033	47,224
2024	21	19	1,109	991	1	1	1,131	1,010	47,224
2025	21	18	1,109	968	1	1	1,131	987	47,224
2026	21	18	1,109	947	1	1	1,131	965	47,224
2027	21	17	1,109	925	1	1	1,131	944	47,224
2028	21	17	1,109	905	1	1	1,131	923	47,224
2029	21	17	1,109	884	1	1	1,131	902	47,224
2030	21	16	1,109	865	1	1	1,131	882	47,224
H&P/T	5,293	201	94,700	10,679	300	10	100,294	10,890	2,498,444
7 - Year Hist Avg (A-12)	21		1,109		1		1,131		47,224
Projected Del. (A-2ba)	229	201	12,202	10,679	11	10	12,443	10,890	519,469

CENTRAL VALLEY PROJECT
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AND PRESENT WORTH @ .022904 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	15		2,373		81,912		4,521				17,123		40,748		7,000	
2019	39		1,634		96,890		4,190		278		8,877		42,428		21,362	
2020	39	38	1,634	1,597	96,890	94,720	4,190	4,097	278	272	8,877	8,679	42,428	41,478	21,362	20,884
2021	39	37	1,634	1,561	96,890	92,599	4,190	4,005	278	266	8,877	8,484	42,428	40,549	21,362	20,416
2022	39	36	1,634	1,526	96,890	90,526	4,190	3,915	278	260	8,877	8,294	42,428	39,641	21,362	19,959
2023	39	36	1,634	1,492	96,890	88,499	4,190	3,828	278	254	8,877	8,109	42,428	38,753	21,362	19,512
2024	39	35	1,634	1,459	96,890	86,517	4,190	3,742	278	248	8,877	7,927	42,428	37,886	21,362	19,075
2025	39	34	1,634	1,426	96,890	84,580	4,190	3,658	278	243	8,877	7,750	42,428	37,037	21,362	18,648
2026	39	33	1,634	1,394	96,890	82,686	4,190	3,576	278	237	8,877	7,576	42,428	36,208	21,362	18,231
2027	39	33	1,634	1,363	96,890	80,835	4,190	3,496	278	232	8,877	7,406	42,428	35,397	21,362	17,822
2028	39	32	1,634	1,332	96,890	79,025	4,190	3,418	278	227	8,877	7,241	42,428	34,605	21,362	17,423
2029	39	31	1,634	1,303	96,890	77,255	4,190	3,341	278	222	8,877	7,078	42,428	33,830	21,362	17,033
2030	39	30	1,634	1,273	96,890	75,526	4,190	3,266	278	217	8,877	6,920	42,428	33,072	21,362	16,652
H&P/T	2,982	375	86,276	15,727	5,269,535	932,770	180,360	40,342	10,049	2,676	417,778	85,464	1,860,406	408,457	1,692,924	205,657
7 - Year Hist Avg (A-12)	39		1,634		96,890		4,190		278		8,877		42,428		21,362	
Projected Del. (A-2ba)	429	375	17,969	15,727	1,065,788	932,770	46,095	40,342	3,058	2,676	97,652	85,464	466,705	408,457	234,985	205,657

CENTRAL VALLEY PROJECT
SCHEDULE OF HISTORICAL (1981-2018) & PROJECTED (2019-2030) M&I WATER DELIVERIES
AND PRESENT WORTH @ .022904 FOR CALCULATION OF INDIVIDUAL CONTRACTOR PRORATED CONSTRUCTION COSTS AND RATE

YEAR	FRIANT DAM		FRIANT KERN CANAL		NEW MELONES D & R		SACRAMENTO RIVER		SAN FELIPE UNIT (IN BASIN)		SAN LUIS CANAL FRESNO		SAN LUIS CANAL TRACY		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	425		79,095		34,429		11,639		111,741		13,162		693		1,541	
2019	169		38,494		27,912		8,808		89,209		10,906		517		1,297	
2020	169	165	38,494	37,632	27,912	27,287	8,808	8,610	89,209	87,211	10,906	10,661	517	505	1,297	1,268
2021	169	162	38,494	36,789	27,912	26,676	8,808	8,418	89,209	85,259	10,906	10,423	517	495	1,297	1,239
2022	169	158	38,494	35,966	27,912	26,079	8,808	8,229	89,209	83,350	10,906	10,189	517	483	1,297	1,212
2023	169	155	38,494	35,160	27,912	25,495	8,808	8,045	89,209	81,483	10,906	9,961	517	472	1,297	1,185
2024	169	151	38,494	34,373	27,912	24,924	8,808	7,865	89,209	79,659	10,906	9,738	517	462	1,297	1,158
2025	169	148	38,494	33,603	27,912	24,366	8,808	7,689	89,209	77,875	10,906	9,520	517	452	1,297	1,132
2026	169	144	38,494	32,851	27,912	23,821	8,808	7,517	89,209	76,131	10,906	9,307	517	442	1,297	1,107
2027	169	141	38,494	32,115	27,912	23,287	8,808	7,348	89,209	74,427	10,906	9,098	517	431	1,297	1,082
2028	169	138	38,494	31,396	27,912	22,766	8,808	7,184	89,209	72,760	10,906	8,895	517	422	1,297	1,058
2029	169	135	38,494	30,693	27,912	22,256	8,808	7,023	89,209	71,131	10,906	8,696	517	412	1,297	1,034
2030	169	132	38,494	30,006	27,912	21,758	8,808	6,866	89,209	69,538	10,906	8,501	517	403	1,297	1,011
H&P/T	9,760	1,630	2,472,139	370,585	714,478	268,716	439,520	84,793	3,908,505	858,824	620,817	104,989	37,866	4,979	72,698	12,488
7 - Year Hist Avg (A-12)	169		38,494		27,912		8,808		89,209		10,906		517		1,297	
Projected Del. (A-2ba)	1,862	1,630	423,432	370,585	307,037	268,716	96,885	84,793	981,297	858,824	119,961	104,989	5,689	4,979	14,269	12,488

CENTRAL VALLEY PROJECT
SCHEDULE OF HISTORICAL (1981-2018) & PROJECTED (2019-2030) M&I WATER DELIVERIES
AND PRESENT WORTH @ .022904 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
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	7,520		187		1,925		416,049		50,773	466,822
2019	5,258		148		1,131		359,547		47,224	406,772
2020	5,258	5,140	148	145	1,131	1,106	359,547	351,496	47,224	406,772
2021	5,258	5,025	148	142	1,131	1,081	359,547	343,626	47,224	406,772
2022	5,258	4,912	148	138	1,131	1,057	359,547	335,932	47,224	406,772
2023	5,258	4,802	148	135	1,131	1,033	359,547	328,409	47,224	406,772
2024	5,258	4,695	148	132	1,131	1,010	359,547	321,056	47,224	406,772
2025	5,258	4,590	148	129	1,131	987	359,547	313,868	47,224	406,772
2026	5,258	4,487	148	126	1,131	965	359,547	306,840	47,224	406,772
2027	5,258	4,386	148	124	1,131	944	359,547	299,969	47,224	406,772
2028	5,258	4,288	148	121	1,131	923	359,547	293,253	47,224	406,772
2029	5,258	4,192	148	118	1,131	902	359,547	286,686	47,224	406,772
2030	5,258	4,098	148	115	1,131	882	359,547	280,267	47,224	406,772
H&P/T	190,240	50,615	5,407	1,426	100,294	10,890	18,092,034	3,461,403	2,498,444	20,590,478
7 - Year Hist Avg (A-12)	5,258		148		1,131		359,547		47,224	406,772
Projected Del. (A-2ba)	57,833	50,615	1,630	1,426	12,443	10,890	3,955,019	3,461,403	519,469	4,474,487

CENTRAL VALLEY PROJECT
SCHEDULE OF HISTORICAL (1981-2018) & PROJECTED (2019-2030) M&I WATER DELIVERIES
AND PRESENT WORTH @ .022904 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.