



CENTRAL VALLEY PROJECT  
SCHEDULE OF HISTORICAL (1981-2019) & PROJECTED (2020-2030) M&I WATER DELIVERIES  
AND PRESENT WORTH @ .023374 FOR CALCULATION OF INDIVIDUAL CONTRACTOR PRORATED CONSTRUCTION COSTS AND RATE

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**CENTRAL VALLEY PROJECT**  
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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	6		-		9		-		15		2,373		81,912		4,521	
2019	5		-		12		-		17		2,224		75,480		3,886	
2020	6		14		13		4		37		1,634		86,856		3,985	
2021	6	6	14	14	13	13	4	4	37	37	1,634	1,597	86,856	84,873	3,985	3,894
2022	6	6	14	13	13	12	4	4	37	36	1,634	1,560	86,856	82,934	3,985	3,805
2023	6	6	14	13	13	12	4	4	37	35	1,634	1,525	86,856	81,040	3,985	3,718
2024	6	6	14	13	13	12	4	4	37	34	1,634	1,490	86,856	79,189	3,985	3,633
2025	6	6	14	12	13	12	4	4	37	33	1,634	1,456	86,856	77,380	3,985	3,550
2026	6	6	14	12	13	11	4	3	37	33	1,634	1,423	86,856	75,613	3,985	3,469
2027	6	5	14	12	13	11	4	3	37	32	1,634	1,390	86,856	73,886	3,985	3,390
2028	6	5	14	12	13	11	4	3	37	31	1,634	1,358	86,856	72,199	3,985	3,313
2029	6	5	14	11	13	11	4	3	37	30	1,634	1,327	86,856	70,550	3,985	3,237
2030	6	5	14	11	13	10	4	3	37	30	1,634	1,297	86,856	68,938	3,985	3,163
H&P/T	1,167	57	569	124	380	115	827	35	2,943	330	86,873	14,423	5,137,758	766,602	177,798	35,173
7-Year Hist Avg (A-12)	6		14		13		4		37		1,634		86,856		3,985	
Projected Del. (A-2ba)	64	57	140	124	130	115	40	35	374	330	16,341	14,423	868,564	766,602	39,851	35,173

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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	-		-		-		1,203		15,354		5		525				25
2019	-		-		-		1,318		10,183		12		540				24
2020	86		192		278		959		7,496		4		336				24
2021	86	84	192	188	278	272	959	937	7,496	7,324	4	4	336	328			24
2022	86	82	192	183	278	265	959	916	7,496	7,157	4	4	336	320			24
2023	86	80	192	179	278	259	959	895	7,496	6,994	4	4	336	313			24
2024	86	78	192	175	278	253	959	874	7,496	6,834	4	4	336	306			24
2025	86	77	192	171	278	248	959	855	7,496	6,678	4	4	336	299			24
2026	86	75	192	167	278	242	959	835	7,496	6,525	4	4	336	292			24
2027	86	73	192	163	278	236	959	816	7,496	6,376	4	4	336	285			24
2028	86	71	192	160	278	231	959	797	7,496	6,231	4	4	336	279			24
2029	86	70	192	156	278	226	959	779	7,496	6,088	4	4	336	273			24
2030	86	68	192	152	278	221	959	761	7,496	5,949	4	4	336	266			24
H&P/T	2,212	759	7,559	1,695	9,771	2,454	32,858	8,465	373,063	66,156	547	39	7,897	2,962	1,176		209
7 - Year Hist Avg (A-12)	86		192		278		959		7,496		4		336		24		
Projected Del. (A-2ba)	860	759	1,920	1,695	2,780	2,454	9,591	8,465	74,956	66,156	44	39	3,356	2,962	237		209

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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	2		12,079			4,137	29,921		6,457		-		0		0		40,515			
2020	46	0	8,865	0	5,757	0	22,586	0	4,305	0	5,000	0	3,518	0	657	0	41,824	0		
2021	46	45	8,865	8,662	5,757	5,626	22,586	22,070	4,305	4,207	5,000	4,886	3,518	3,438	657	642	41,824	40,869		
2022	46	44	8,865	8,464	5,757	5,497	22,586	21,566	4,305	4,111	5,000	4,774	3,518	3,359	657	628	41,824	39,935		
2023	46	43	8,865	8,271	5,757	5,372	22,586	21,074	4,305	4,017	5,000	4,665	3,518	3,282	657	613	41,824	39,023		
2024	46	42	8,865	8,082	5,757	5,249	22,586	20,592	4,305	3,925	5,000	4,559	3,518	3,207	657	599	41,824	38,132		
2025	46	41	8,865	7,897	5,757	5,129	22,586	20,122	4,305	3,836	5,000	4,454	3,518	3,134	657	586	41,824	37,261		
2026	46	40	8,865	7,717	5,757	5,012	22,586	19,662	4,305	3,748	5,000	4,353	3,518	3,062	657	572	41,824	36,410		
2027	46	39	8,865	7,541	5,757	4,897	22,586	19,213	4,305	3,662	5,000	4,253	3,518	2,993	657	559	41,824	35,578		
2028	46	38	8,865	7,369	5,757	4,786	22,586	18,774	4,305	3,579	5,000	4,156	3,518	2,924	657	546	41,824	34,766		
2029	46	37	8,865	7,200	5,757	4,676	22,586	18,346	4,305	3,497	5,000	4,061	3,518	2,857	657	534	41,824	33,972		
2030	46	37	8,865	7,036	5,757	4,569	22,586	17,927	4,305	3,417	5,000	3,969	3,518	2,792	657	522	41,824	33,196		
H&P/T	5,298	407	420,838	78,239	74,769	50,813	1,104,589	199,347	271,627	38,000	55,085	44,130	110,080	31,049	235,703	5,803	1,851,852	369,142		
7 - Year Hist Avg (A-12)	46		8,865		5,757		22,586		4,305		5,000		3,518		657		41,824			
Projected Del. (A-2ba)	461	407	88,646	78,239	57,571	50,813	225,861	199,347	43,054	38,000	50,000	44,130	35,179	31,049	6,574	5,803	418,240	369,142		

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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	-		11,200		2,973		14,173		24		129		153	
2020	9,309		4,286		4,286		17,881		69		99		169	
2021	9,309	9,096	4,286	4,188	4,286	4,188	17,881	17,472	69	68	99	97	169	165
2022	9,309	8,888	4,286	4,092	4,286	4,092	17,881	17,073	69	66	99	95	169	161
2023	9,309	8,685	4,286	3,999	4,286	3,999	17,881	16,683	69	65	99	93	169	157
2024	9,309	8,487	4,286	3,908	4,286	3,908	17,881	16,302	69	63	99	91	169	154
2025	9,309	8,293	4,286	3,818	4,286	3,818	17,881	15,930	69	62	99	89	169	150
2026	9,309	8,104	4,286	3,731	4,286	3,731	17,881	15,566	69	60	99	87	169	147
2027	9,309	7,919	4,286	3,646	4,286	3,646	17,881	15,211	69	59	99	85	169	143
2028	9,309	7,738	4,286	3,563	4,286	3,563	17,881	14,863	69	57	99	83	169	140
2029	9,309	7,561	4,286	3,481	4,286	3,481	17,881	14,524	69	56	99	81	169	137
2030	9,309	7,388	4,286	3,402	4,286	3,402	17,881	14,192	69	55	99	79	169	134
H&P/T	933,115	82,161	65,346	37,829	648,978	37,829	1,647,439	157,818	3,831	610	5,906	878	9,736	1,488
7 - Year Hist Avg (A-12)	9,309		4,286		4,286		17,881		69		99		169	
Projected Del. (A-2ba)	93,089	82,161	42,860	37,829	42,860	37,829	178,809	157,818	691	610	994	878	1,686	1,488

CENTRAL VALLEY PROJECT  
SCHEDULE OF HISTORICAL (1981-2019) & PROJECTED (2020-2030) M&I WATER DELIVERIES  
AND PRESENT WORTH @ .023374 FOR CALCULATION OF INDIVIDUAL CONTRACTOR PRORATED CONSTRUCTION COSTS AND RATE

YEAR	FRIANT-KERN CANAL (FKC)											
	FKC ARVIN-EDISON WSD	FKC ARVIN-EDISON WSD	FKC CITY OF FRESNO	FKC CITY OF FRESNO	FKC CITY OF LINDSAY	FKC CITY OF LINDSAY	FKC CITY OF ORANGE COVE	FKC CITY OF ORANGE COVE	FKC DELANO-EARLIMART ID	FKC DELANO-EARLIMART ID	FKC LINDSAY-STRATHMORE ID	FKC LINDSAY-STRATHMORE ID
	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	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	460		55,268		1,415		1,249		378		440	
2020	448	0	34,433	0	1,478	0	1,094	0	225	0	542	0
2021	448	437	34,433	33,647	1,478	1,445	1,094	1,069	225	220	542	530
2022	448	427	34,433	32,878	1,478	1,412	1,094	1,044	225	215	542	518
2023	448	418	34,433	32,128	1,478	1,379	1,094	1,020	225	210	542	506
2024	448	408	34,433	31,394	1,478	1,348	1,094	997	225	205	542	494
2025	448	399	34,433	30,677	1,478	1,317	1,094	974	225	201	542	483
2026	448	390	34,433	29,976	1,478	1,287	1,094	952	225	196	542	472
2027	448	381	34,433	29,291	1,478	1,258	1,094	930	225	192	542	461
2028	448	372	34,433	28,622	1,478	1,229	1,094	909	225	187	542	451
2029	448	364	34,433	27,969	1,478	1,201	1,094	888	225	183	542	440
2030	448	355	34,433	27,330	1,478	1,173	1,094	868	225	179	542	430
H&P/T	29,160	3,952	2,263,430	303,912	83,030	13,047	54,603	9,653	6,893	1,987	16,142	4,786
7 - Year Hist Avg (A-12)	448		34,433		1,478		1,094		225		542	
Projected Del. (A-2ba)	4,477	3,952	344,334	303,912	14,783	13,047	10,937	9,653	2,251	1,987	5,423	4,786

CENTRAL VALLEY PROJECT  
SCHEDULE OF HISTORICAL (1981-2019) & PROJECTED (2020-2030) M&I WATER DELIVERIES  
AND PRESENT WORTH @ .023374 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	160		1,533		60,903		35,046	2,447		9,410			200	
2020	133		1,154		39,508		25,500	2,698		5,956			186	
2021	133	130	1,154	1,128	39,508	38,606	25,500	24,917	2,698	2,636	5,956	5,820	186	181
2022	133	127	1,154	1,102	39,508	37,724	25,500	24,348	2,698	2,576	5,956	5,687	186	177
2023	133	124	1,154	1,077	39,508	36,862	25,500	23,792	2,698	2,517	5,956	5,557	186	173
2024	133	122	1,154	1,052	39,508	36,020	25,500	23,249	2,698	2,460	5,956	5,430	186	169
2025	133	119	1,154	1,028	39,508	35,198	25,500	22,718	2,698	2,403	5,956	5,306	186	165
2026	133	116	1,154	1,005	39,508	34,394	25,500	22,199	2,698	2,349	5,956	5,185	186	162
2027	133	114	1,154	982	39,508	33,608	25,500	21,692	2,698	2,295	5,956	5,067	186	158
2028	133	111	1,154	959	39,508	32,841	25,500	21,196	2,698	2,242	5,956	4,951	186	154
2029	133	108	1,154	937	39,508	32,091	25,500	20,712	2,698	2,191	5,956	4,838	186	151
2030	133	106	1,154	916	39,508	31,358	25,500	20,239	2,698	2,141	5,956	4,727	186	147
H&P/T	12,708	1,178	39,739	10,185	2,505,704	348,701	695,073	225,064	162,381	23,810	270,516	52,569	9,234	1,639
7 - Year Hist Avg (A-12)	133		1,154		39,508		25,500		2,698		5,956		186	
Projected Del. (A-2ba)	1,334	1,178	11,540	10,185	395,080	348,701	254,999	225,064	26,977	23,810	59,561	52,569	1,857	1,639

CENTRAL VALLEY PROJECT  
SCHEDULE OF HISTORICAL (1981-2019) & PROJECTED (2020-2030) M&I WATER DELIVERIES  
AND PRESENT WORTH @ .023374 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	25		12,082		12,117		93,216		105,333	
2020	18	0	8,857	0	5,438	0	85,005	0	90,442	0
2021	18	17	8,857	8,655	5,438	5,313	85,005	83,063	90,442	88,377
2022	18	17	8,857	8,457	5,438	5,192	85,005	81,166	90,442	86,358
2023	18	17	8,857	8,264	5,438	5,073	85,005	79,312	90,442	84,386
2024	18	16	8,857	8,076	5,438	4,958	85,005	77,501	90,442	82,458
2025	18	16	8,857	7,891	5,438	4,844	85,005	75,731	90,442	80,575
2026	18	16	8,857	7,711	5,438	4,734	85,005	74,001	90,442	78,735
2027	18	15	8,857	7,535	5,438	4,626	85,005	72,311	90,442	76,936
2028	18	15	8,857	7,363	5,438	4,520	85,005	70,659	90,442	75,179
2029	18	15	8,857	7,194	5,438	4,417	85,005	69,045	90,442	73,462
2030	18	14	8,857	7,030	5,438	4,316	85,005	67,468	90,442	71,784
H&P/T	1,210	158	443,341	78,176	181,705	47,992	3,756,492	750,258	3,938,197	798,251
7 - Year Hist Avg (A-12)	18		8,857		5,438		85,005		90,442	
Projected Del. (A-2ba)	179	158	88,574	78,176	54,376	47,992	850,047	750,258	904,423	798,251



CENTRAL VALLEY PROJECT  
SCHEDULE OF HISTORICAL (1981-2019) & PROJECTED (2020-2030) M&I WATER DELIVERIES  
AND PRESENT WORTH @ .023374 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	2,432		6,029		824		0		2,301		11,586	
2020	2,217	0	5,123	0	829	0	3	0	2,643	0	10,815	0
2021	2,217	2,166	5,123	5,006	829	810	3	3	2,643	2,583	10,815	10,568
2022	2,217	2,117	5,123	4,892	829	792	3	2	2,643	2,524	10,815	10,327
2023	2,217	2,068	5,123	4,780	829	774	3	2	2,643	2,466	10,815	10,091
2024	2,217	2,021	5,123	4,671	829	756	3	2	2,643	2,410	10,815	9,861
2025	2,217	1,975	5,123	4,564	829	739	3	2	2,643	2,355	10,815	9,635
2026	2,217	1,930	5,123	4,460	829	722	3	2	2,643	2,301	10,815	9,415
2027	2,217	1,886	5,123	4,358	829	706	3	2	2,643	2,249	10,815	9,200
2028	2,217	1,843	5,123	4,259	829	689	3	2	2,643	2,197	10,815	8,990
2029	2,217	1,801	5,123	4,161	829	674	3	2	2,643	2,147	10,815	8,785
2030	2,217	1,759	5,123	4,066	829	658	3	2	2,643	2,098	10,815	8,584
H&P/T	106,374	19,565	269,775	45,219	46,576	7,321	277	23	197,502	23,330	620,504	95,457
7 - Year Hist Avg (A-1)	2,217		5,123		829		3		2,643		10,815	
Projected Del. (A-2ba)	22,167	19,565	51,233	45,219	8,294	7,321	26	23	26,433	23,330	108,153	95,457

CENTRAL VALLEY PROJECT  
SCHEDULE OF HISTORICAL (1981-2019) & PROJECTED (2020-2030) M&I WATER DELIVERIES  
AND PRESENT WORTH @ .023374 FOR CALCULATION OF INDIVIDUAL CONTRACTOR PRORATED CONSTRUCTION COSTS AND RATE

YEAR	SAN LUIS CANAL - TRACY (SLCT)								SHASTA D&R (SD&R)							
	SLCT PACHECO WD AF	SLCT PACHECO WD PW OF AF	SLCT PANOCH WD AF	SLCT PANOCH WD PW OF AF	SLCT SAN LUIS WD AF	SLCT SAN LUIS WD PW OF AF	SLCT TOTAL AF	SLCT TOTAL PW OF AF	SD&R CENTERVILLE CSD AF	SD&R CENTERVILLE CSD PW OF AF	SD&R MOUNTAIN CSD AF	SD&R MOUNTAIN CSD PW OF AF	SD&R SHASTA CWA AF	SD&R SHASTA CWA PW OF AF	SD&R TOTAL AF	SD&R TOTAL 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	-		83		611		694		603		637		116		1,356	
2020	11	0	83	0	438	0	532	0	585	0	535	0	110	0	1,230	0
2021	11	11	83	82	438	428	532	521	585	572	535	522	110	108	1,230	1,202
2022	11	11	83	80	438	418	532	509	585	559	535	510	110	105	1,230	1,175
2023	11	10	83	78	438	409	532	497	585	546	535	499	110	103	1,230	1,148
2024	11	10	83	76	438	399	532	485	585	533	535	487	110	101	1,230	1,121
2025	11	10	83	74	438	390	532	474	585	521	535	476	110	98	1,230	1,096
2026	11	10	83	73	438	381	532	464	585	509	535	465	110	96	1,230	1,071
2027	11	9	83	71	438	373	532	453	585	498	535	455	110	94	1,230	1,047
2028	11	9	83	69	438	364	532	442	585	486	535	444	110	92	1,230	1,022
2029	11	9	83	68	438	356	532	433	585	475	535	434	110	90	1,230	999
2030	11	9	83	66	438	348	532	423	585	464	535	424	110	88	1,230	976
H&P/T	587	97	2,565	737	35,059	3,866	38,211	4,700	33,828	5,163	30,467	4,718	7,722	975	72,018	10,856
7 - Year Hist Avg (A-12)	11		83		438		532		585		535		110		1,230	
Projected Del. (A-2ba)	110	97	834	737	4,380	3,866	5,324	4,700	5,850	5,163	5,346	4,718	1,104	975	12,300	10,856

CENTRAL VALLEY PROJECT  
SCHEDULE OF HISTORICAL (1981-2019) & PROJECTED (2020-2030) M&I WATER DELIVERIES  
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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	6,731		57		332		7,120		104		38		142	
2020	4,707		99		339		5,145		127		17		145	
2021	4,707	4,599	99	96	339	332	5,145	5,027	127	125	17	17	145	142
2022	4,707	4,494	99	94	339	324	5,145	4,912	127	122	17	17	145	138
2023	4,707	4,392	99	92	339	317	5,145	4,800	127	119	17	16	145	135
2024	4,707	4,291	99	90	339	309	5,145	4,691	127	116	17	16	145	132
2025	4,707	4,193	99	88	339	302	5,145	4,583	127	114	17	16	145	129
2026	4,707	4,097	99	86	339	295	5,145	4,479	127	111	17	15	145	126
2027	4,707	4,004	99	84	339	289	5,145	4,376	127	108	17	15	145	123
2028	4,707	3,912	99	82	339	282	5,145	4,276	127	106	17	14	145	120
2029	4,707	3,823	99	80	339	276	5,145	4,179	127	104	17	14	145	118
2030	4,707	3,736	99	78	339	269	5,145	4,083	127	101	17	14	145	115
H&P/T	159,039	41,542	6,205	870	25,617	2,996	190,861	45,408	5,022	1,125	343	154	5,364	1,279
7 - Year Hist Avg (A-12)	4,707		99		339		5,145		127		17		145	
Projected Del. (A-2ba)	47,067	41,542	986	870	3,394	2,996	51,447	45,408	1,274	1,125	174	154	1,449	1,279

CENTRAL VALLEY PROJECT  
SCHEDULE OF HISTORICAL (1981-2019) & PROJECTED (2020-2030) M&I WATER DELIVERIES  
AND PRESENT WORTH @ .023374 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	20		1,911		-		1,931		53,110	
2020	21		1,181		1		1,203		46,197	
2021	21	21	1,181	1,154	1	1	1,203	1,176	46,197	
2022	21	20	1,181	1,128	1	1	1,203	1,149	46,197	
2023	21	20	1,181	1,102	1	1	1,203	1,122	46,197	
2024	21	19	1,181	1,077	1	1	1,203	1,097	46,197	
2025	21	19	1,181	1,052	1	1	1,203	1,072	46,197	
2026	21	18	1,181	1,028	1	1	1,203	1,047	46,197	
2027	21	18	1,181	1,005	1	1	1,203	1,023	46,197	
2028	21	17	1,181	982	1	1	1,203	1,000	46,197	
2029	21	17	1,181	959	1	1	1,203	977	46,197	
2030	21	17	1,181	937	1	1	1,203	955	46,197	
H&P/T	5,294	185	96,291	10,424	299	9	101,884	10,618	2,493,027	
7 - Year Hist Avg (A-12)	21		1,181		1		1,203		46,197	
Projected Del. (A-2ba)	210	185	11,810	10,424	10	9	12,030	10,618	461,969	

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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	17		2,224		75,480		3,886		-		12,079		40,515		14,173	
2020	37		1,634		86,856		3,985		278		8,865		41,824		17,881	
2021	37	37	1,634	1,597	86,856	84,873	3,985	3,894	278	272	8,865	8,662	41,824	40,869	17,881	17,472
2022	37	36	1,634	1,560	86,856	82,934	3,985	3,805	278	265	8,865	8,464	41,824	39,935	17,881	17,073
2023	37	35	1,634	1,525	86,856	81,040	3,985	3,718	278	259	8,865	8,271	41,824	39,023	17,881	16,683
2024	37	34	1,634	1,490	86,856	79,189	3,985	3,633	278	253	8,865	8,082	41,824	38,132	17,881	16,302
2025	37	33	1,634	1,456	86,856	77,380	3,985	3,550	278	248	8,865	7,897	41,824	37,261	17,881	15,930
2026	37	33	1,634	1,423	86,856	75,613	3,985	3,469	278	242	8,865	7,717	41,824	36,410	17,881	15,566
2027	37	32	1,634	1,390	86,856	73,886	3,985	3,390	278	236	8,865	7,541	41,824	35,578	17,881	15,211
2028	37	31	1,634	1,358	86,856	72,199	3,985	3,313	278	231	8,865	7,369	41,824	34,766	17,881	14,863
2029	37	30	1,634	1,327	86,856	70,550	3,985	3,237	278	226	8,865	7,200	41,824	33,972	17,881	14,524
2030	37	30	1,634	1,297	86,856	68,938	3,985	3,163	278	221	8,865	7,036	41,824	33,196	17,881	14,192
H&P/T	2,943	330	86,873	14,423	5,137,758	766,602	177,798	35,173	9,771	2,454	420,838	78,239	1,851,852	369,142	1,647,439	157,818
7 - Year Hist Avg (A-12)	37		1,634		86,856		3,985		278		8,865		41,824		17,881	
Projected Del. (A-2ba)	374	330	16,341	14,423	868,564	766,602	39,851	35,173	2,780	2,454	88,646	78,239	418,240	369,142	178,809	157,818

CENTRAL VALLEY PROJECT  
SCHEDULE OF HISTORICAL (1981-2019) & PROJECTED (2020-2030) M&I WATER DELIVERIES  
AND PRESENT WORTH @ .023374 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	153		60,903		35,046		12,082		105,333		11,586		694		1,356	
2020	169		39,508		25,500		8,857		90,442		10,815		532		1,230	
2021	169	165	39,508	38,606	25,500	24,917	8,857	8,655	90,442	88,377	10,815	10,568	532	521	1,230	1,202
2022	169	161	39,508	37,724	25,500	24,348	8,857	8,457	90,442	86,358	10,815	10,327	532	509	1,230	1,175
2023	169	157	39,508	36,862	25,500	23,792	8,857	8,264	90,442	84,386	10,815	10,091	532	497	1,230	1,148
2024	169	154	39,508	36,020	25,500	23,249	8,857	8,076	90,442	82,458	10,815	9,861	532	485	1,230	1,121
2025	169	150	39,508	35,198	25,500	22,718	8,857	7,891	90,442	80,575	10,815	9,635	532	474	1,230	1,096
2026	169	147	39,508	34,394	25,500	22,199	8,857	7,711	90,442	78,735	10,815	9,415	532	464	1,230	1,071
2027	169	143	39,508	33,608	25,500	21,692	8,857	7,535	90,442	76,936	10,815	9,200	532	453	1,230	1,047
2028	169	140	39,508	32,841	25,500	21,196	8,857	7,363	90,442	75,179	10,815	8,990	532	442	1,230	1,022
2029	169	137	39,508	32,091	25,500	20,712	8,857	7,194	90,442	73,462	10,815	8,785	532	433	1,230	999
2030	169	134	39,508	31,358	25,500	20,239	8,857	7,030	90,442	71,784	10,815	8,584	532	423	1,230	976
H&P/T	9,736	1,488	2,505,704	348,701	695,073	225,064	443,341	78,176	3,938,197	798,251	620,504	95,457	38,211	4,700	72,018	10,856
7 - Year Hist Avg (A-12)	169		39,508		25,500		8,857		90,442		10,815		532		1,230	
Projected Del. (A-2ba)	1,686	1,488	395,080	348,701	254,999	225,064	88,574	78,176	904,423	798,251	108,153	95,457	5,324	4,700	12,300	10,856

CENTRAL VALLEY PROJECT  
SCHEDULE OF HISTORICAL (1981-2019) & PROJECTED (2020-2030) M&I WATER DELIVERIES  
AND PRESENT WORTH @ .023374 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	7,120		142		1,931		384,720		53,110	437,830
2020	5,145		145		1,203		344,907		46,197	391,104
2021	5,145	5,027	145	142	1,203	1,176	344,907	337,030	46,197	391,104
2022	5,145	4,912	145	138	1,203	1,149	344,907	329,332	46,197	391,104
2023	5,145	4,800	145	135	1,203	1,122	344,907	321,811	46,197	391,104
2024	5,145	4,691	145	132	1,203	1,097	344,907	314,459	46,197	391,104
2025	5,145	4,583	145	129	1,203	1,072	344,907	307,277	46,197	391,104
2026	5,145	4,479	145	126	1,203	1,047	344,907	300,259	46,197	391,104
2027	5,145	4,376	145	123	1,203	1,023	344,907	293,402	46,197	391,104
2028	5,145	4,276	145	120	1,203	1,000	344,907	286,700	46,197	391,104
2029	5,145	4,179	145	118	1,203	977	344,907	280,153	46,197	391,104
2030	5,145	4,083	145	115	1,203	955	344,907	273,753	46,197	391,104
H&P/T	190,861	45,408	5,364	1,279	101,884	10,618	17,956,165	3,044,176	2,493,027	20,449,192
7 - Year Hist Avg (A-12)	5,145		145		1,203		344,907		46,197	391,104
Projected Del. (A-2ba)	51,447	45,408	1,449	1,279	12,030	10,618	3,449,070	3,044,176	461,969	3,911,039

M&I 2021 Sch A-13 F.Z23.XLSM  
9/18/2020

CENTRAL VALLEY PROJECT  
SCHEDULE OF HISTORICAL (1981-2019) & PROJECTED (2020-2030) M&I WATER DELIVERIES  
AND PRESENT WORTH @ .023374 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.