

**CENTRAL VALLEY PROJECT
SCHEDULE OF ESTIMATED IRRIGATION DIRECT PUMPING COSTS
2012 IRRIGATION WATER RATES**

A	B	C	D	E	F	G	H	I	J	K
2012 Projected Deliveries <Schedule A-12>										
Facility/Contractor	Wintu PP	Tehama-Colusa Canal Relifts						Corning Canal Relifts		
		Colusa County WD	Dunnigan WD	Glenn Valley WD	Kanawha WD	Orland- Artois WD	Westside WD	Corning WD	Proberta WD	
Ref	<Sch A-12>	<Sch A-12>	<Sch A-12>	<Sch A-12>	<Sch A-12>	<Sch A-12>	<Sch A-12>	<Sch A-12>	<Sch A-12>	
Corning Canal										
Corning WD								10,983		
Proberta WD									2,170	
Cow Creek Unit										
Bella Vista WD	6,942									
Tehama-Colusa Canal										
Colusa County WD		37,050								
Dunnigan WD			10,622							
Glenn Valley WD				1,075						
Kanawha WD					28,267					
Orland-Artois WD						30,520				
Westside WD							39,054			
Total Deliveries	6,942	37,050	10,622	1,075	28,267	30,520	39,054	10,983	2,170	
Est. ARRA Cost	\$ 29	\$ 39	\$ 0		\$ 5	\$ 11	\$ 6	\$ 19	\$ 1	
Est. 2012 XO&M Cost	\$ 2,952	\$ 8,801	\$ 146		\$ 1,201	\$ 1,328	\$ 506	\$ 1,603	\$ 156	
Est. 2012 Project Use Energy Cost	\$ 79,067	\$ 235,739	\$ 3,922	\$ -	\$ 32,161	\$ 35,562	\$ 13,563	\$ 42,948	\$ 4,172	
	\$ 82,048	\$ 244,579	\$ 4,069	\$ -	\$ 33,367	\$ 36,901	\$ 14,075	\$ 44,571	\$ 4,329	
Cost Per A/F	\$ 11.82	\$ 6.60	\$ 0.38	\$ -	\$ 1.18	\$ 1.21	\$ 0.36	\$ 4.06	\$ 1.99	

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San Luis Canal Relifts										
Facility/Contractor	Panoche WD	San Luis WD	Westlands WD 1/				Total	Cross Valley Contractors 3/		
			Westlands WD Relifts	Pleasant Valley PP	Valley Rifts			State Delta PP	Dos Amigos PP	
Ref	<Sch A-12>	<Sch A-12>	<Sch A-12>	<Sch A-12>	<Sch A-12>		(E+F)	<Sch A-12>	<Sch A-12>	
Cross Valley Canal										
County of Fresno								870	870	
County of Tulare								1,539	1,539	
Hills Valley ID								970	970	
Kern-Tulare ID								10,660	10,660	
Lower Tule River ID - CV								8,184	8,184	
Pixley ID								8,184	8,184	
Rag Gulch WD								-	-	
Tri-Valley WD								331	331	
San Luis Canal										
Panoche WD - SLC	39,566									
San Luis WD - SLC		39,056								
Westlands WD - SLC			534,293	59,940	11,368	594,233	2/			
Westlands WD - SLC (DD#2)			700	78	15	778	2/			
Total Deliveries	39,566	39,056	534,993	60,019	11,383	595,012		30,739	30,739	
Est. ARRA Cost	\$ 0	\$ 153	\$ 383	\$ 105	\$ 1	\$ 489		\$ 114		
Est. 2012 XO&M Cost	\$ 29	\$ 17,150	\$ 71,264	\$ 14,982	\$ 1,480	\$ 87,726		\$ 7,321	\$ 3,750	
Estimated 2012 Project Use Energy Cost	\$ 790	\$ 459,361	\$1,908,767	\$ 401,296	\$ 39,641	\$2,349,704		\$ 196,081	\$ 100,455	
	\$ 820	\$ 476,664	\$1,980,414	\$ 416,384	\$ 41,122	\$2,437,919		\$ 203,515	\$ 104,205	
Cost Per A/F	\$ 0.02	\$ 12.20				\$ 4.10		\$6.62	\$3.39	

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FOOTNOTES

1/ Westlands WD & Westlands WD DD#2 (DD#2) deliveries are based on firm supplies:

	Ratios	Allocated 2012 Deliveries	
		Westlands WD	DD#2
Westlands WD Relifts:			
High Side - Relift Pumps	0.26957	160,185	210
Low Side (LS) - Gravity Feed	0.62957	374,109	490
Subtotal	0.89913	534,293	700
Pleasant Valley PP:			
High Side - Relift Pump	0.01913	11,368	15
Coalinga Canal, LS - Gravity	0.08174	48,572	64
Subtotal (Pleasant Valley PP)	0.10087	59,940	78
Total - WWD Deliveries	1.0000	594,233	778

2/ Excludes Pleasant Valley Relifts deliveries as they are included with Pleasant Valley Pumping Plant.

3/ Cross Valley Canal Estimated 2012 Project Use Energy Cost

	Dos Amigos PP	State Delta PP
<u>2012 PUE Estimate</u>		
Direct Billed	\$ 2,183,733	\$ 328,879
Cross Valley Canal 2012 Projected Cost	\$ 103,633	\$ 202,284
Total	<u>\$ 2,287,366</u>	<u>\$ 531,164</u>

	Deliveries	Ratio	Dos Amigos PP	State Delta PP
M&I	973	0.03067	\$ 3,178	\$ 6,203
Irrigation	30,739	0.96933	\$ 100,455	\$ 196,081
Total	<u>31,712</u>	<u>1.00000</u>	<u>\$ 103,633</u>	<u>\$ 202,284</u>

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A	B	C	D	E	F	G	H	I	J
		Acre-Feet		Ratio of Acre-Feet				For Water Ratesetting	
		M&I	Irrigation	M&I	Irrigation	Total	Total \$	M&I	Irrigation
Ref		<Sch A-12>	<Sch A-12>	(C/(C+D))	(D/(C+D))	(E+F)	<Meter Costs>	(E*H)	(F*H)
Used in Schedule 10									
Storage:									
Friant D&R	2/	169		1.00		1.00	10,131	10,131	
Shasta D&R (Includes Jdg F Carr PH)		1,847	3,164	0.37	0.63	1.00	138,687	51,125	87,561
Columbia Mowry (Based on Avg. KWH's)		71,919	528,090	0.12	0.88	1.00	12,661	1,518	11,143
Folsom Pump Plant		41,918		1.00		1.00	41,644	41,644	
New Melones Dam & Reservoir			35,645		1.00	1.00	1,852		1,852
Gianelli WR Pump-Gen Plt	3/	9,688	475,380	0.02	0.98	1.00	3,385,684	67,618	3,318,067
Regen. Credit - San Luis PP		9,688	475,380	0.02	0.98	1.00	(2,409,936)	(48,130)	(2,361,805)
SFU Gianelli WR PGP (Direct Pumping)		105,415	33,406	0.76	0.24	1.00			
Conveyance Pumping:									
Corning Pumping Plant			16,031		1.00	1.00	149,158		149,158
Dos Amigos Pumping Plant	4/	13,248	675,471	0.02	0.98	1.00	2,183,733	42,007	2,141,726
O'Neill Pump-Gen Plt		119,254	712,520	0.14	0.86	1.00	1,448,329	207,651	1,240,678
Regen. Credit - O'Neill Pump-Gen Plt		119,254	712,520	0.14	0.86	1.00	(36,605)	(5,248)	(31,357)
Jones Pumping Plant		198,152	1,663,800	0.11	0.89	1.00	11,292,342	1,201,752	10,090,590
In-Lieu of Jones Pumping							328,879		328,879
Out-of-Basin Pumping:									
Coyote PP		50,953	9,837	0.84	0.16	1.00	106,774	89,496	17,278
Pacheco PP		105,415	33,406	0.76	0.24	1.00	652,359	495,374	156,985
Used in Schedule 11 Page 1									
Direct Pumping:									
Glenn Valley WD			1,075		1.00	1.00			
Gianelli PGP - SFU	1/						968,943	735,775	233,168
Contra Costa PP		88,074		1.00		1.00	462,760	462,760	
Colusa CWD (Incl. Arb./Will O&M Office)		113	37,050	0.00	1.00	1.00	236,455	716	235,739
Corning WD			10,983		1.00	1.00	42,948		42,948
Dunnigan WD			10,622		1.00	1.00	3,922		3,922
Kanawha WD	5		28,267	0.00	1.00	1.00	32,166	5	32,161
Orland-Artois WD			30,520		1.00	1.00	35,562		35,562
Panoche WD - SLC			39,566		1.00	1.00	790		790
Westside WD			39,054		1.00	1.00	13,563		13,563
Pleasant Valley PP		6,523	48,636	0.12	0.88	1.00	455,121	53,825	401,296
Pleasant Valley Relifts			11,383		1.00	1.00	39,641		39,641
Proberta WD			2,170		1.00	1.00	4,172		4,172
San Luis WD Relifts		620	39,056	0.02	0.98	1.00	466,653	7,292	459,361
State-Delta PP - Cross Valley Canal		973	30,739	0.03	0.97	1.00	202,284	6,203	196,081
Westlands WD Relifts		2,911	534,993	0.01	0.99	1.00	1,919,152	10,385	1,908,767
Wintu PP		2,890	6,942	0.29	0.71	1.00	111,987	32,920	79,067
City of Shasta Lake (Shasta PP)	5/	2,494		1.00		1.00	49,479	49,479	
Dos Amigos PP - Cross Valley Canal		973	30,739	0.03	0.97	1.00	103,633	3,178	100,455
Reimbursable Billing							5,908		
Project General							7,828		
Nonreimbursable F&W							31,339		
							22,500,000	3,517,476	18,937,449

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FOOTNOTES (FOR PAGE 4)

- 1/ See Ratios in the Storage section
- 2/ Irrigation contractor receives class 2 water which is not charged for the storage component.
- 3/ According to MP-2810 (CB 06/93) only 70% of San Luis Canal Deliveries are stored in B.F. Sisk San Luis Reservoir and, therefore, require pumping by the WR Gianelli Pump-Generator.
- 4/ Excludes estimated San Luis WD deliveries before Dos Amigos. The calculation reflects the relationship between actual deliveries versus actual exclusions over a 5 year period.

	39,056
less	<u>3,644</u>
	<u>35,413</u>

Irrigation Deliveries *		Ratio	Estimated Exclusion
Total	Excluded		
2006	74,635		9,122
2007	80,058		8,048
2008	66,552		5,807
2009	68,004		5,223
2010	65,238		4,872
Total	<u>354,487</u>	<u>9.33%</u>	<u>3,644</u>

Total Dos Amigos Pumping Plant Irrigation Projected Water Deliveries less exclusions for San Luis Water District:

	679,114
less	<u>3,644</u>
	<u>675,471</u>

* Provided annually by Stacey Smith, CVOCO.

- 5/ It was determined in late 2000 that Shasta PP serves the City of Shasta Lake exclusively and accordingly is not a pooled storage cost. As a result, PUE O&M will be proactively allocated to this contractor beginning in 2001.