

CENTRAL VALLEY PROJECT
SCHEDULE OF ESTIMATED IRRIGATION PROJECT USE ENERGY COSTS
DIRECT PUMPING
2009 IRRIGATION WATER RATES

2009 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
<u>Corning Canal</u>									
Corning WD								10,902	
Proberta WD									2,625
<u>Cow Creek Unit</u>									
Bella Vista WD	10,874								
<u>Tehama-Colusa Canal</u>									
Colusa County WD		43,928							
Dunnigan WD			14,250						
Glenn Valley WD				1,268					
Kanawha WD					33,735				
Orland-Artois WD						39,750			
Westside WD							48,560		
Total Deliveries	10,874	43,928	14,250	1,268	33,735	39,750	48,560	10,902	2,625
Est. 2009 Project Use Energy Cost	\$88,163	\$198,892	\$2,504	\$0	\$11,502	\$48,853	\$14,520	\$37,427	\$3,262
Cost Per A/F	\$8.11	\$4.53	\$0.18	\$0.00	\$0.34	\$1.23	\$0.30	\$3.43	\$1.24

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San Luis Canal Relifts								
Facility/Contractor	Panoche WD	San Luis WD	Westlands WD 1/			Total	Cross Valley Contractors 4/	
			Westlands WD Relifts	Pleasant Valley PP	Pleasant Valley Rlfts		State Delta PP	Dos Amigos PP
Cross Valley Canal								
County of Fresno							1,079	1,079
County of Tulare							1,084	1,084
Hills Valley ID							1,877	1,877
Kern-Tulare ID							16,504	16,504
Lower Tule River ID - CV							8,079	8,079
Pixley ID							8,136	8,136
Rag Gulch WD							4,996	4,996
Tri-Valley WD							285	285
San Luis Canal								
Panoche WD -SLC	57,076							
San Luis WD - SLC		65,987						
Westlands WD - SLC			821,292	95,684	22,326	916,976 2/		
Westlands WD - SLC (DD#2)			1,880	219	51	2,099 2/		
Total Deliveries	57,076	65,987	823,172	95,903	22,377	919,075	42,039	42,039
Estimated 2009 Project Use Energy Cost	\$601	\$315,454	\$1,804,498	\$348,474	\$37,418	\$2,190,390	\$42,210	\$93,836
Cost Per A/F	\$0.01	\$4.78				\$2.38	4/	4/

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FOOTNOTES

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

	<u>Ratios</u>	<u>Allocated 2009 WWD Deliveries</u>	<u>Allocated 2009 WWD (DD #2) Deliveries</u>
	3/		
Westlands WD Relifts:			
High Side - Relift Pumps	0.28696	263,132	602
Low Side (LS) - Gravity Feed	<u>0.60870</u>	<u>558,159</u>	<u>1,278</u>
Subtotal	0.89565	821,292	1,880
Pleasant Valley PP:			
High Side - Relift Pump	0.02435	22,326	51
Coalinga Canal, LS - Gravity	<u>0.08000</u>	<u>73,358</u>	<u>168</u>
Subtotal (Pleasant Valley PP)	<u>0.10435</u>	<u>95,684</u>	<u>219</u>
Total - WWD Deliveries	<u>1.0000</u>	<u>916,976</u>	<u>2,099</u>

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

3/ Refer to Schedule A-5 worksheet "KWHSPERAF".

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FOOTNOTES - Cont.

4/ Dos Amigos and State Delta PP Costs:

2009 PUE Estimate

Direct Billed
Cross Valley Canal 2009 Projected Cost
Total

Dos Amigos PP	State Delta PP
\$2,359,285	\$26,097
\$96,007	\$43,186
<u>\$2,455,292</u>	<u>\$69,283</u>

Cross Valley Canal						
	Dos Amigos PP 2009 Projection	State Delta PP 2009 Projection	Projected 2009 Deliveries	Rate Per A/F		
				Dos Amigos PP	State Delta PP	Total
Irrigation						
County of Fresno	\$2,409	\$1,084	1,079	2.23	1.00	3.23
County of Tulare	2,419	1,088	1,084	2.23	1.00	3.23
Hills Valley ID	4,189	1,884	1,877	2.23	1.00	3.23
Kern-Tulare ID	36,839	16,571	16,504	2.23	1.00	3.23
Lower Tule River ID - CV	18,034	8,112	8,079	2.23	1.00	3.23
Pixley ID	18,159	8,169	8,136	2.23	1.00	3.23
Rag Gulch WD	11,151	5,016	4,996	2.23	1.00	3.23
Tri-Valley WD	637	287	285	2.23	1.00	3.23
Total Irrigation	<u>\$93,836</u>	<u>\$42,210</u>	<u>42,039</u>			
M & I						
County of Fresno	\$670	\$301	300	2.23	1.00	3.23
County of Tulare	1,501	675	673	2.23	1.00	3.23
Total M&I	<u>\$2,171</u>	<u>\$976</u>	<u>973</u>			
Grand Total	<u><u>\$96,007</u></u>	<u><u>\$43,186</u></u>	<u><u>43,012</u></u>			

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		Acre-Feet		Ratio of Acre-Feet			Total \$	For Water Ratesetting	
		M&I	Irrigation	M&I	Irrigation	Total		M&I	Irrigation
<u>Used in Schedule 10/schedule 9</u>									
Storage:									
Friant D&R	2/	210		100.00%		100.00%	\$ 7,486.45	\$ 7,486.45	
Shasta D&R (Includes Jdg F Carr PH)		2,072	4,151	33.30%	66.70%	100.00%	114,145.03	38,007.69	\$ 76,137.34
Columbia Mowry (Based on Avg. KWH's)		90,394	648,723	12.23%	87.77%	100.00%	12,089.98	1,478.61	10,611.37
Folsom Pump Plant		42,154		100.00%		100.00%	29,689.12	29,689.12	
New Melones Dam & Reservoir			26,359		100.00%	100.00%	201.70		201.70
Gianelli WR Pump-Gen Plt	3/	10,719	735,092	1.44%	98.56%	100.00%	2,334,805.28	33,556.75	2,301,248.53
Regen. Credit - San Luis PP		10,719	735,092	1.44%	98.56%	100.00%	(1,881,013.36)	(27,034.67)	(1,853,978.69)
SFU Gianelli WR PGP (Direct Pumping)		100,973	45,717	68.83%	31.17%	100.00%			
Conveyance Pumping:									
Corning Pumping Plant			16,856		100.00%	100.00%	82,735.63		82,735.63
Dos Amigos Pumping Plant	4/	14,724	1,042,256	1.39%	98.61%	100.00%	2,359,284.84	32,865.43	2,326,419.41
O'Neill Pump-Gen Plt		116,286	1,095,849	9.59%	90.41%	100.00%	1,249,993.19	119,918.07	1,130,075.12
Regen. Credit - O'Neill Pump-Gen Plt		116,286	1,095,849	9.59%	90.41%	100.00%	(80,063.56)	(7,680.90)	(72,382.67)
Jones Pumping Plant		198,104	2,146,137	8.45%	91.55%	100.00%	9,296,380.53	785,606.23	8,510,774.31
In-Lieu of Jones Pumping							26,096.88		26,096.88
Out-of-Basin Pumping:									
Coyote PP		48,020	12,033	79.96%	20.04%	100.00%	167,998.84	134,337.36	33,661.48
Pacheco PP		100,973	45,717	68.83%	31.17%	100.00%	734,650.67	505,690.41	228,960.27
<u>Used in Schedule 11 Page 1</u>									
Direct Pumping:									
Glenn Valley WD			1,268		100.00%	100.00%			
Gianelli PGP - SFU	1/						459,223.26	316,102.34	143,120.92
Contra Costa PP		87,905		100.00%		100.00%	323,824.88	323,824.88	
Colusa CWD (Incl. Arb./Will O&M Office)		113	43,928	0.26%	99.74%	100.00%	199,401.38	509.36	198,892.02
Corning WD			10,902		100.00%	100.00%	37,426.51		37,426.51
Dunnigan WD			14,250		100.00%	100.00%	2,504.31		2,504.31
Kanawha WD		5	33,735	0.01%	99.99%	100.00%	11,503.48	1.70	11,501.78
Orland-Artois WD			39,750		100.00%	100.00%	48,852.66		48,852.66
Panoche WD - SLC			57,076		100.00%	100.00%	601.26		601.26
Westside WD			48,560		100.00%	100.00%	14,519.82		14,519.82
Pleasant Valley PP		7,614	88,943	7.89%	92.11%	100.00%	378,305.64	29,831.36	348,474.28
Pleasant Valley Relifts			21,846		100.00%	100.00%	37,418.15		37,418.15
Proberta WD			2,625		100.00%	100.00%	3,262.18		3,262.18
San Luis WD Relifts		620	65,987	0.93%	99.07%	100.00%	318,418.34	2,963.93	315,454.40
State-Delta PP - Cross Valley Canal							43,186.15	976.44	42,209.71
Westlands WD Relifts		3,020	808,287	0.37%	99.63%	100.00%	1,811,239.87	6,742.14	1,804,497.73
Wintu PP		1,559	10,874	12.54%	87.46%	100.00%	100,806.14	12,642.90	88,163.24
City of Shasta Lake (Shasta PP)	5/	2,832		100.00%		100.00%	26,888.84	26,888.84	
Dos Amigos PP - Cross Valley Canal							96,006.84	2,170.72	93,836.12
Reimbursable Billing							3,748.87		
Project General							7,028.86		
Nonreimbursable F&W							21,351.33		
							<u>\$18,400,000.00</u>	<u>\$2,376,575.16</u>	<u>\$15,991,295.77</u>

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FOOTNOTES

- 1/ See ratios in the storage section on page 2.
- 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. Source of data is Schedule A-12, worksheet "Input PUE", footnote #4.

	65,987
less	7,876
	<u>58,111</u>

Irrigation Deliveries *		Ratio	Estimated Exclusion
Total	Excluded		
2003	76,432		10,546
2004	80,315		9,401
2005	71,899		8,636
2006	74,635		9,122
2007	80,058		8,048
Total	<u>383,339</u>	<u>0.11935</u>	<u>7,876</u>

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

	1,050,132
less	7,876
	<u>1,042,256</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.