

**CENTRAL VALLEY PROJECT
SCHEDULE OF ESTIMATED IRRIGATION PROJECT USE ENERGY COSTS
DIRECT PUMPING
2004 IRRIGATION WATER RATES**

2004 Projected Deliveries Schedule A-12										
Facility/Contractor	Wintu PP	Contra Costa 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>Contra Costa Canal</u>										
Contra Costa WD		325								
<u>Corning Canal</u>										
Corning WD								9,952		
Proberta WD									2,625	
<u>Cow Creek Unit</u>										
Bella Vista WD	10,156									
<u>Tehama-Colusa Canal</u>										
Colusa County WD			33,483							
Dunnigan WD				13,232						
Glenn Valley WD					830					
Kanawha WD						31,917				
Orland-Artois WD							39,750			
Westside WD								48,750		
Total Deliveries	10,156	325	33,483	13,232	830	31,917	39,750	48,750	9,952	2,625
Est. 2004 Project Use Energy Cost	\$44,226	\$1,200	\$104,217	\$915	\$706	\$11,911	\$32,342	\$8,664	\$18,017	\$2,136
Rate Per A/F	\$4.35	\$3.69	\$3.11	\$0.07	\$0.85	\$0.37	\$0.81	\$0.18	\$1.81	\$0.81

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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
<u>Cross Valley Canal</u>								
County of Fresno							1,200	1,200
County of Tulare							1,982	1,982
Hills Valley ID							1,673	1,673
Kern-Tulare ID							20,000	20,000
Lower Tule River ID - CV							15,551	15,551
Pixley ID							15,551	15,551
Rag Gulch WD							6,650	6,650
Tri-Valley WD							571	571
<u>San Luis Canal</u>								
Panoche WD - SLC	48,000							
San Luis WD - SLC		66,467						
Westlands WD - SLC			674,123	79,003	15,801	753,126 2/		
Total Deliveries	48,000	66,467	674,123	79,003	15,801	753,126	63,178	63,178
Estimated 2004 Project Use Energy Cost	\$511	\$166,570	\$898,232	\$184,068	\$17,895	\$1,100,195	\$121,337	\$83,714
Rate Per A/F	\$0.01	\$2.51				\$1.46	4/	4/

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FOOTNOTES

1/ Westlands WD Deliveries are based on firm supplies:

	Ratios	Allocated 2004 WWD Deliveries
	<u>3/</u>	
Westlands WD Relifts:		
High Side - Relift Pumps	0.24212	182,346
Low Side (LS) - Gravity Feed	<u>0.65298</u>	<u>491,776</u>
Subtotal	0.89510	674,123
Pleasant Valley PP:		
High Side - Relift Pump	0.02098	15,801
Coalinga Canal, LS - Gravity	<u>0.08392</u>	<u>63,202</u>
Subtotal (Pleasant Valley PP)	<u>0.10490</u>	<u>79,003</u>
Total - WWD Deliveries	<u>1.0000</u>	<u>753,126</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:

	Dos Amigos PP	State Delta PP
<u>2004 PUE Estimate</u>		
Direct Billed	\$1,156,155	\$142,699
Cross Valley Canal 2004 Projected Cost	<u>\$85,002</u>	<u>\$123,204</u>
	\$1,241,158	\$265,904

Cross Valley Canal						
	Dos Amigos PP 2004 Projection	State Delta PP 2004 Projection	Projected 2004 Deliveries 6/	Rate Per A/F		
				Dos Amigos PP	State Delta PP	Total
<u>Irrigation</u>						
County of Fresno	\$1,590	\$2,305	1,200	1.33	1.92	3.25
County of Tulare	2,626	3,806	1,982	1.33	1.92	3.25
Hills Valley ID	2,217	3,213	1,673	1.33	1.92	3.25
Kern-Tulare ID	26,501	38,411	20,000	1.33	1.92	3.25
Lower Tule River ID - CV	20,606	29,867	15,551	1.33	1.92	3.25
Pixley ID	20,606	29,867	15,551	1.33	1.92	3.25
Rag Gulch WD	8,812	12,772	6,650	1.33	1.92	3.25
Tri-Valley WD	757	1,097	571	1.33	1.92	3.25
Total AG	<u>\$83,714</u>	<u>\$121,337</u>	<u>63,178</u>			
<u>M & I</u>						
County of Fresno	\$398	\$576	300	1.33	1.92	3.25
County of Tulare	891	1,292	673	1.33	1.92	3.25
Total M&I	<u>1,289</u>	<u>1,868</u>	<u>973</u>			
Grand Total	<u>\$85,002</u>	<u>\$123,204</u>	<u>64,150</u>			

5/ See Conveyance Pumping (Schedule A-10) for Dos Amigos direct billed costs.

6/ Delivery Base has been modified. See Footnote 10 on Schedule A-12 and associated MP-3400 Standard Operating Procedure (SOP).

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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</u>									
Storage:									
Friant D&R	2/	232		100.00%		100.00%	3,268.67	3,268.67	
Shasta D&R (Includes Jdg F Carr PH)		3,312	10,175	24.56%	75.44%	100.00%	69,367.68	17,034.47	52,333.21
Columbia Mowry (Based on Avg. KWH's)		94,184	730,191	11.42%	88.58%	100.00%	8,354.68	954.51	7,400.17
Folsom Pump Plant		38,540		100.00%		100.00%	19,783.11	19,783.11	
New Melones Dam & Reservoir			24,409		100.00%	100.00%	1,154.55		1,154.55
Gianelli WR Pump-Gen Plt	3/	7,240	611,494	1.17%	98.83%	100.00%	1,963,416.78	22,973.54	1,940,443.24
Regen. Credit - San Luis PP		7,240	611,494	1.17%	98.83%	100.00%	(1,425,049.67)	(16,674.21)	(1,408,375.46)
SFU Gianelli WR PGP (Direct Pumping)		101,548	24,706	80.43%	19.57%	100.00%			
Conveyance Pumping:									
Corning Pump Plant			15,851		100.00%	100.00%	46,447.57		46,447.57
Dos Amigos Pump Plant	4/	10,026	862,507	1.15%	98.85%	100.00%	1,156,155.22	13,285.20	1,142,870.02
O'Neill Pump-Gen Plt		111,891	898,270	11.08%	88.92%	100.00%	680,496.63	75,375.35	605,121.28
Regen. Credit - O'Neill Pump-Gen Plt		111,891	898,270	11.08%	88.92%	100.00%	(57,503.13)	(6,369.35)	(51,133.78)
Tracy Pump Plant		195,666	1,926,426	9.22%	90.78%	100.00%	5,189,962.26	478,536.01	4,711,426.25
In-Lieu of Tracy Pumping							142,699.31		142,699.31
Out-of-Basin Pumping:									
Coyote PP		48,750	316	99.36%	0.64%	100.00%	81,511.17	80,985.56	525.62
Pacheco PP		101,548	24,706	80.43%	19.57%	100.00%	361,048.14	290,396.13	70,652.01
<u>Used in Schedule 11 Page 1</u>									
Direct Pumping:									
Glenn Valley WD			830		100.00%	100.00%	705.56		705.56
Gianelli PGP - SFU	1/						400,640.64	322,240.93	78,399.70
Contra Costa PP		98,500	325	99.67%	0.33%	100.00%	365,402.28	364,202.08	1,200.20
Colusa CWD (Incl. Arb./Will O&M Office)		113	33,483	0.34%	99.66%	100.00%	104,568.98	351.72	104,217.26
Corning WD			9,952		100.00%	100.00%	18,016.72		18,016.72
Dunnigan WD			13,232		100.00%	100.00%	914.73		914.73
Kanawha WD			31,917		100.00%	100.00%	11,911.13		11,911.13
Orland-Artois WD			39,750		100.00%	100.00%	32,341.59		32,341.59
Panoche WD - SLC			48,000		100.00%	100.00%	511.14		511.14
Westside WD			48,750		100.00%	100.00%	8,663.59		8,663.59
Pleasant Valley PP	2,684		63,202	4.07%	95.93%	100.00%	191,884.63	7,816.83	184,067.80
Pleasant Valley Relifts			15,801		100.00%	100.00%	17,895.49		17,895.49
Proberta WD			2,625		100.00%	100.00%	2,136.33		2,136.33
San Luis WD Relifts		341	66,467	0.51%	99.49%	100.00%	167,424.43	854.56	166,569.87
State-Delta PP - Cross Valley Canal		973					123,204.35	1,867.75	121,336.60
Westlands WD Relifts		4,500	674,123	0.66%	99.34%	100.00%	904,228.12	5,996.01	898,232.11
Wintu PP		4,681	10,156	31.55%	68.45%	100.00%	64,608.85	20,383.22	44,225.63
City of Shasta Lake (Shasta PP)	5/	2,329		100.00%		100.00%	13,472.76	13,472.76	
Dos Amigos PP - Cross Valley Canal							85,002.38	1,288.62	83,713.76
Reimbursable Billing							2,318.09		
Project General							3,833.36		
Nonreimbursable F&W							9,201.88		
							10,770,000.00	1,718,023.46	9,036,623.21

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FOOTNOTES

- 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.
Source of data is Schedule A-12A, worksheet "Input PUE", footnote #4.

	66,467
less	<u>11,057</u>
	<u>55,410</u>

Irrigation Deliveries *				
	<u>Total</u>	<u>Excluded</u>	<u>Ratio</u>	<u>Estimated Exclusion</u>
1998	57,993	12,289		
1999	81,387	15,224		
2000	74,373	13,009		
2001	69,670	9,112		
2002	<u>73,271</u>	<u>9,702</u>		
Total	<u>356,694</u>	<u>59,336</u>	<u>0.16635</u>	<u>11,057</u>

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

	873,563
less	<u>11,057</u>
	<u>862,507</u>

* Provided annually by Valerie Ungvari, 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.