IRR 2011 Sch A-11 F.Z13.XLSM
9/30/2010

CENTRAL VALLEY *PROJECT*
SCHEDULE OF ESTIMATED IRRIGATION PROJECT USE ENERGY COSTS
DIRECT PUMPING
2011 IRRIGATION WATER RATES

A	B	C	D	E	F	G	H	I	J	K
	2011 Projected Deliveries Schedule A-12									
			Tehama-Colusa Canal Relifts						Corning Canal Relifts	
Facility/Contractor	Wintu PP		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									11,110	
Proberta WD										2,244
Cow Creek Unit										
Bella Vista WD	7,693									
Tehama-Colusa Canal										
Colusa County WD			36,779							
Dunnigan WD				12,106						
Glenn Valley WD					930					
Kanawha WD						28,693				
Orland-Artois WD							32,714			
Westside WD								38,073		
Total Deliveries	7,693		36,779	12,106	930	28,693	32,714	38,073	11,110	2,244
Est. 2011 Project Use Energy Cost	$ 92,096		$ 289,764	$ 4,557	$ -	$ 26,985	$ 47,793	$ 18,774	$ 45,040	$ 15,217
Cost Per A/F	$ 11.97		$ 7.88	$ 0.38	$ -	$ 0.94	$ 1.46	$ 0.49	$ 4.05	$ 6.78

CENTRAL VALLEY PROJECT
SCHEDULE OF ESTIMATED IRRIGATION PROJECT USE ENERGY COSTS
DIRECT PUMPING
2011 IRRIGATION WATER RATES

A	B	C	D	E	F	G	H	I	J	K
		San Luis Canal Relifts								
				Westlands WD 1/					Cross Valley Contractors 4/	
Facility/Contractor		Panoche WD	San Luis WD	Westlands WD Relifts	Pleasant Valley PP	Pleasant Valley Rlfts	Total		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									677	677
County of Tulare									1,210	1,210
Hills Valley ID									962	962
Kern-Tulare ID	5/								11,527	11,527
Lower Tule River ID - CV									8,044	8,044
Pixley ID									8,872	8,872
Rag Gulch WD	5/								-	-
Tri-Valley WD									299	299
San Luis Canal										
Panoche WD -SLC		41,479								
San Luis WD - SLC			46,286							
Westlands WD - SLC				608,637	68,280	12,950	676,917 2/			
Westlands WD - SLC (DD#2)				624	70	13	694 2/			
Total Deliveries		41,479	46,286	609,261	68,350	12,963	677,611		31,591	31,591
Estimated 2011 Project Use Energy Cost		$ 990	$ 539,950	$ 1,751,752	$ 254,155	$ 41,068	$ 2,046,976		$ 69,598	$ 70,864
Cost Per A/F		$ 0.02	$ 11.67				$ 3.02		4/	4/

CENTRAL VALLEY PROJECT
SCHEDULE OF ESTIMATED IRRIGATION PROJECT USE ENERGY COSTS
DIRECT PUMPING
2011 IRRIGATION WATER RATES

FOOTNOTES (FOR PAGES 1 AND 2)

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

	Ratios	Allocated 2011 Deliveries	
		Weslands WD	Westlands WD DD#2
	3/		
Westlands WD Relifts:			
High Side - Relift Pumps	0.26957	182,473	187
Low Side (LS) - Gravity Feed	0.62957	426,164	437
Subtotal	0.89913	608,637	624
Pleasant Valley PP:			
High Side - Relift Pump	0.01913	12,950	13
Coalinga Canal, LS - Gravity	0.08174	55,331	57
Subtotal (Pleasant Valley PP)	0.10087	68,280	70
Total - WWD Deliveries	1.0000	676,917	694

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

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

CENTRAL VALLEY PROJECT
SCHEDULE OF ESTIMATED IRRIGATION PROJECT USE ENERGY COSTS
DIRECT PUMPING
2011 IRRIGATION WATER RATES

FOOTNOTES - Cont.

4/ Dos Amigos and State Delta PP Costs:

	Dos Amigos PP	State Delta PP
2011 PUE Estimate		
Direct Billed	$ 1,749,806	$ 120,557
Cross Valley Canal 2011 Projected Cost	$ 73,045	$ 71,741
Total	$ 1,822,851	$ 192,298

Cross Valley Canal

		Dos Amigos PP 2011 Projection	State Delta PP 2011 Projection	Projected 2011 Deliveries	Rate Per A/F Dos Amigos PP	Rate Per A/F State Delta PP	Rate Per A/F Total
Irrigation							
County of Fresno		$ 1,518	$ 1,491	677	$ 2.24	$ 2.20	$ 4.44
County of Tulare		$ 2,714	$ 2,666	1,210	$ 2.24	$ 2.20	$ 4.44
Hills Valley ID		$ 2,158	$ 2,120	962	$ 2.24	$ 2.20	$ 4.44
Kern-Tulare ID	5/	$ 25,856	$ 25,394	11,527	$ 2.24	$ 2.20	$ 4.44
Lower Tule River ID - CV		$ 18,044	$ 17,722	8,044	$ 2.24	$ 2.20	$ 4.44
Pixley ID		$ 19,902	$ 19,547	8,872	$ 2.24	$ 2.20	$ 4.44
Rag Gulch WD	5/	$ -	$ -	-	$ -	$ -	$ -
Tri-Valley WD		$ 671	$ 659	299	$ 2.24	$ 2.20	$ 4.44
Total Irrigation		$ 70,864	$ 69,598	31,591			
M & I							
County of Fresno		$ 673	$ 661	300	$ 2.24	$ 2.20	$ 4.44
County of Tulare		$ 1,509	$ 1,482	673	$ 2.24	$ 2.20	$ 4.44
Total M&I		$ 2,181	$ 2,142	973			
Grand Total		$ 73,045	$ 71,741	32,564			

5/ Rag Gulch WD assigned all of its entitlement to Kern-Tulare WD effective February 25, 2010.

CENTRAL VALLEY PROJECT
SCHEDULE OF ESTIMATED IRRIGATION PROJECT USE ENERGY COSTS
DIRECT PUMPING
2011 IRRIGATION WATER RATES

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/	173.60		100.00%		100.00%	12,344.22	12,344.22	
Shasta D&R (Includes Jdg F Carr PH)		1,745.40	3,155.40	35.61%	64.39%	100.00%	176,147.11	62,734.08	113,413.04
Columbia Mowry (Based on Avg. KWH's)		79,381.18	562,166.33	12.37%	87.63%	100.00%	14,362.60	1,777.14	12,585.46
Folsom Pump Plant		42,414.60		100.00%		100.00%	141,744.16	141,744.16	
New Melones Dam & Reservoir			34,788.60		100.00%	100.00%	2,643.00		2,643.00
Gianelli WR Pump-Gen Plt	3/	9,989.28	539,781.76	1.82%	98.18%	100.00%	2,184,529.93	39,692.67	2,144,837.26
Regen. Credit - San Luis PP		9,989.28	539,781.76	1.82%	98.18%	100.00%	(1,743,341.95)	(31,676.33)	(1,711,665.62)
SFU Gianelli WR PGP (Direct Pumping)		91,542.80	34,869.80	72.42%	27.58%	100.00%			
Conveyance Pumping:									
Corning Pumping Plant			16,336.00		100.00%	100.00%	183,695.30		183,695.30
Dos Amigos Pumping Plant	4/	13,677.40	766,395.77	1.75%	98.25%	100.00%	1,749,806.07	30,680.20	1,719,125.87
O'Neill Pump-Gen Plt		105,813.20	805,986.60	11.60%	88.40%	100.00%	1,391,209.59	161,448.09	1,229,761.49
Regen. Credit - O'Neill Pump-Gen Plt		105,813.20	805,986.60	11.60%	88.40%	100.00%	(155,574.31)	(18,054.20)	(137,520.11)
Jones Pumping Plant		186,186.79	1,783,758.81	9.45%	90.55%	100.00%	10,742,611.55	1,015,323.65	9,727,287.90
In-Lieu of Jones Pumping							120,556.93		120,556.93
Out-of-Basin Pumping:									
Coyote PP		43,609.90	9,395.60	82.27%	17.73%	100.00%	155,863.15	128,235.31	27,627.85
Pacheco PP		91,542.80	34,869.80	72.42%	27.58%	100.00%	1,280,610.95	927,365.72	353,245.23
Used in Schedule 11 Page 1									
Direct Pumping:									
Glenn Valley WD			930.20		100.00%	100.00%			
Gianelli PGP - SFU	1/						502,303.85	363,747.76	138,556.08
Contra Costa PP		87,340.40		100.00%		100.00%	699,419.05	699,419.05	
Colusa CWD (Incl. Arb./Will O&M Office)		112.50	36,779.20	0.30%	99.70%	100.00%	290,649.83	886.33	289,763.51
Corning WD			11,110.40		100.00%	100.00%	45,040.08		45,040.08
Dunnigan WD			12,106.20		100.00%	100.00%	4,556.78		4,556.78
Kanawha WD		4.25	28,693.00	0.01%	99.99%	100.00%	26,989.07	4.00	26,985.07
Orland-Artois WD			32,714.00		100.00%	100.00%	47,792.68		47,792.68
Panoche WD - SLC			41,478.60		100.00%	100.00%	989.67		989.67
Westside WD			38,072.80		100.00%	100.00%	18,773.78		18,773.78
Pleasant Valley PP		6,774.40	55,387.38	10.90%	89.10%	100.00%	285,240.64	31,085.57	254,155.07
Pleasant Valley Relifts			12,963.00		100.00%	100.00%	41,068.17		41,068.17
Proberta WD			2,244.00		100.00%	100.00%	15,216.63		15,216.63
San Luis WD Relifts		620.00	46,286.00	1.32%	98.68%	100.00%	547,182.72	7,232.62	539,950.10
State-Delta PP - Cross Valley Canal							71,740.74	2,142.49	69,598.25
Westlands WD Relifts		3,020.00	609,261.21	0.49%	99.51%	100.00%	1,760,435.46	8,683.13	1,751,752.33
Wintu PP		2,315.40	7,693.00	23.13%	76.87%	100.00%	119,814.80	27,718.63	92,096.16
City of Shasta Lake (Shasta PP)	5/	2,554.80		100.00%		100.00%	40,212.45	40,212.45	
Dos Amigos PP - Cross Valley Canal							73,045.08	2,181.44	70,863.64
Reimbursable Billing							6,813.46		
Project General							10,281.32		
Nonreimbursable F&W							35,225.44		
							20,900,000.00	3,654,928.18	17,192,751.60

CENTRAL VALLEY PROJECT
SCHEDULE OF ESTIMATED IRRIGATION PROJECT USE ENERGY COSTS
DIRECT PUMPING
2011 IRRIGATION WATER RATES

FOOTNOTES (FOR PAGE 5)

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-12, worksheet "Input PUE", footnote #4.

	46,286
less	4,721
	41,565

	Irrigation Deliveries *			
	Total	Excluded	Ratio	Estimated Exclusion
2005	71,899	8,636		
2006	74,635	9,122		
2007	80,058	8,048		
2008	66,552	5,807		
2009	68,004	5,223		
Total	361,148	36,836	10.20%	4,721

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

	771,117
less	4,721
	766,396

* 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.