

CENTRAL VALLEY PROJECT
FY 2015 vs. FY 2016 O&M COST ESTIMATE ANALYSIS
IRRIGATION

	2015	2016	Variance		
	<u>Rates</u>	<u>Rates</u>	<u>(2015 rate -</u>	<u>Percent Change</u>	<u>Explanation of significant decrease/ increase in cost</u>
			<u>2016 rate)</u>		
Storage					
Black Butte Reservoir	975,814	946,913	(28,901)	-2.96%	
Buchanan Reservoir	417,524	531,263	113,739	27.24%	
Columbia-Mowry System	167,229	172,272	5,043	3.02%	
Coleman National Fish Hatchery	3,076,971	3,039,356	(37,615)	-1.22%	
Delta Cross Channel	79,733	79,369	(364)	-0.46%	
Folsom Dam & Reservoir	1,099,147	957,637	(141,510)	-12.87%	
Folsom Pumping Plant	411,968	351,351	(60,617)	-14.71%	
Friant Dam & Reservoir	1,398,541	1,400,018	1,477	0.11%	
Gianelli, WR PGP	2,727,778	4,226,298	1,498,520	54.94%	
Less: Gianelli Credit	(2,587,893)	(2,637,187)	(49,294)	1.90%	
Hidden Reservoir	194,806	223,999	29,193	14.99%	
Hill, CA Whiskeytown Dam	254,928	254,871	(57)	-0.02%	
New Melones Dam & Reservoir	939,574	963,414	23,840	2.54%	
Nimbus Dam & Reservoir	169,857	170,027	170	0.10%	
Sacramento River	834,314	723,485	(110,829)	-13.28%	
San Joaquin River	118,400	106,671	(11,729)	-9.91%	
Security Costs	3,388,683	3,488,793	100,110	2.95%	
Shasta Dam & Reservoir	1,454,942	1,561,979	107,037	7.36%	
Sisk, BF San Luis Dam	4,029,491	3,872,944	(156,547)	-3.89%	
Trinity Dam & Reservoir	95,317	95,422	105	0.11%	
Water Forum - American River Division	64,358	54,887	(9,471)	-14.72%	
Total Storage	19,311,482	20,583,782	1,272,300	6.59%	Overall increase is below materiality of 10%. No further action is required.

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	Rates	Rates	2016 rate)	Percent Change	Explanation of significant decrease/ increase in cost
Conveyance					
Delta Barriers - Unfunded	2,716,800	-	(2,716,800)	-100.00%	No unfunded needs for delta barriers as of yet.
Delta-Mendota Canal	-	-	-		
DMC Regulatory Actions	101,541	81,432	(20,109)	-19.80%	
Hydrologic operating Modeling - Delta Division	19,113	17,970	(1,143)	-5.98%	
Water Wheeling Cost -Unfunded	-	-	-		
DMC Subsidence Study	5,000	5,000	-	0.00%	
Friant-Kern Canal	69,667	37,272	(32,395)	-46.50%	
Los Banos Creek Detention Dam - Maint. Joint	5,927	5,927	-	0.00%	
Madera Canal	13,000	13,000	-	0.00%	
Red Bluff Diversion Dam	-	-	-		
San Luis Canal	-	-	-		
Tehama-Colusa Canal	85,625	81,120	(4,505)	-5.26%	
TCC Fish Facilities	-	-	-		
Total	3,016,673	241,721	(58,152)	-91.99%	
Less Direct billed	(299,873)	(241,721)	58,152	-19.39%	
Net Conveyance Cost	2,716,800	-	-	-100.00%	
Conveyance Pumping					
Corning Pumping Plant	195,975	184,209	(11,766)	-6.00%	
Dos Amigos Pumping Plant	2,126,195	1,659,150	(467,045)	-21.97%	
O'Neill Pump Gen Plant - Federal	1,086,386	1,341,439	255,053	23.48%	
Jones Pumping Plant	10,463,187	10,390,256	(72,931)	-0.70%	
Total Conveyance Pumping	13,871,743	13,575,053	(296,690)	-2.14%	
Less: Direct Billed	(13,871,743)	(13,575,053)	296,690		
Net Reimbursable Conveyance Pumping	-	-	-		Cost is directly billed to contactors.

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	<u>Rates</u>	<u>Rates</u>			
<u>Direct Pumping Cost</u>					
<u>Corning Canal</u>					
Corning WD Canalside Relift - Power	69,287	42,404	(26,883)	-38.80%	
Proberta WD Canalside Relift - Power	4,287	847	(3,440)	-80.24%	
<u>Cow Creek Unit</u>					
Wintu-Cow Creek PP - Power/Bella Vista WD	74,340	66	(74,274)	-99.91%	
<u>Cross Valley Canal</u>					
Dos Amigos PP and Banks	309,960	239,379	(70,581)	-22.77%	
<u>San Felipe Unit</u>					
San Benito County WD					
Gianelli, WR PGP	95,115	143,155	48,040	50.51%	
Pacheco PP - Power	126,650	147,275	20,625	16.29%	
Santa Clara Valley WD					
Coyote PP - Power	31,839	48,979	17,140	53.83%	
Gianelli, WR PGP	100,599	161,728	61,129	60.77%	
Pacheco PP - Power	133,952	166,383	32,431	24.21%	
<u>San Luis Canal - Fresno</u>					
Pleasant Valley PP & Relifts	432,940	559,347	126,407	29.20%	
Westlands WD Relifts	2,246,320	2,673,937	427,617	19.04%	
<u>San Luis Canal - Tracy</u>					
Panoche WD Canalside Relift - Power	959	1,851	892	93.01%	
San Luis WD Canalside Relift - Power	573,580	938,772	365,192	63.67%	
<u>Tehama-Colusa Canal</u>					
Colusa County WD	332,173	491,565	159,392	47.98%	
Dunnigan WD Canalside Relift - Power	5,470	5,224	(246)	-4.50%	
Westside WD/GV WD Canalside Relift - Power	21,018	36,778	15,760	74.98%	
Kanawha WD Canalside Relift	52,855	87,405	34,550	65.37%	
Orland-Artois WD Canalside Relift	77,258	66,851	(10,407)	-13.47%	
Total Direct Pumping Cost	4,688,602	5,811,945	1,123,344	23.96%	

Due to the expiration of our contract with PG&E on April 1, 2016, PUE costs are projected to increase by approximately \$4 million dollars for fiscal year 2016. This projected increase is included in the 2016 water rates. In future years, costs are anticipated to increase by \$8 to \$10 million.

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<u>Water Marketing Expense</u>					
Suisun Marsh Protection	664,774	588,104	(76,670)	-11.53%	
Water Contract Administration	6,893,395	5,972,757	(920,638)	-13.36%	
Water and Power Systems Controls	5,527,392	5,432,583	(94,809)	-1.72%	
Other Expenses/Hazardous Material Management	3,887,021	3,616,225	(270,796)	-6.97%	
Hazardous Material Management Program	439,047	367,026	(72,021)	-16.40%	
General Expense	1,373,505	1,367,809	(5,696)	-0.41%	
Cost Allocation Study Cost	1,040,775	991,568	(49,207)	100.00%	
Water Wheeling Cost	588,640	1,584,300	995,660	100.00%	
Non-Permanent Contractor Revenue	(264,464)	(15,162)	249,302	-94.27%	
Total Water Marketing	20,150,085	19,905,210	(244,875)	-1.22%	Overall decrease is below materiality of 10%. No further action is required.
<u>Extraordinary O&M</u>					
Storage	2,057,565	3,515,700	1,458,135	70.87%	
Conveyance pumping	601,639	-	(601,639)	-100.00%	
Direct pumping	203,477	-	(203,477)	-100.00%	
Total XO&M	2,862,681	3,515,700	653,019	22.81%	Butterfly valves refurbishment and replacement windings on eight units pump/turbine and draft tube.
Total Reimbursable cost for 2015 rates	49,729,650	49,816,637	86,987	0.17%	Overall decrease is below materiality of 10%. No further action is required.
Source: Schedule A-9 of the 2015 and 2016 Irrigation Water Ratebooks.					