

CENTRAL VALLEY PROJECT
FY 2016 vs. FY 2017 O&M COST ESTIMATE ANALYSIS
IRRIGATION

	<u>2016 Rates</u>	<u>2017 Rates</u>	<u>Variance</u>	<u>% Change</u>	<u>Explanation of significant decrease/ increase in cost</u>
Storage					
Black Butte Reservoir	946,913	623,178	(323,735)	-34%	
Buchanan Reservoir	531,263	571,217	39,954	8%	
Columbia-Mowry System	172,272	168,506	(3,766)	-2%	
Coleman National Fish Hatchery	3,039,356	3,082,158	42,802	1%	
Delta Cross Channel	79,369	77,665	(1,704)	-2%	
Folsom Dam & Reservoir	957,637	1,316,238	358,601	37%	
Folsom Pumping Plant	351,351	426,758	75,407	21%	
Friant Dam & Reservoir	1,400,018	1,350,631	(49,387)	-4%	
Gianelli, WR PGP	4,226,298	3,818,520	(407,778)	-10%	
Less: Gianelli Credit	(2,637,187)	(3,429,473)	(792,286)	30%	
Hidden Reservoir	223,999	221,946	(2,053)	-1%	
Hill, CA Whiskeytown Dam	254,871	257,240	2,369	1%	
New Melones Dam & Reservoir	963,414	160,494	(802,920)	-83%	
Nimbus Dam & Reservoir	170,027	172,403	2,376	1%	
Sacramento River	723,485	512,218	(211,267)	-29%	
San Joaquin River	106,671	107,571	900	1%	
Security Costs	3,488,793	3,601,143	112,350	3%	
Shasta Dam & Reservoir	1,561,979	1,576,166	14,187	1%	
Sisk, BF San Luis Dam	3,872,944	3,664,858	(208,086)	-5%	
Trinity Dam & Reservoir	95,422	96,309	887	1%	
Water Forum - American River Division	54,887	146,494	91,607	167%	
Total Storage	20,583,782	18,522,240	(2,061,542)	-10%	Overall decrease is equal to or below materiality of 10%. No further action is required.

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<u>Conveyance</u>					
Delta Barriers - Unfunded	-	-	-		No unfunded needs for delta barriers as of yet.
Delta-Mendota Canal	-	-	-		
DMC Regulatory Actions	81,432	77,343	(4,089)	-5%	
Hydrologic operating Modeling - Delta Division	17,970	17,069	(901)	-5%	
Water Wheeling Cost -Unfunded	-	-	-		
DMC Subsidence Study	5,000	5,000	-	0%	
Friant-Kern Canal	37,272	37,284	12	0%	
Los Banos Creek Detention Dam - Maint. Joint	5,927	5,927	-	0%	
Madera Canal	13,000	13,000	-	0%	
Red Bluff Diversion Dam	-	-	-		
San Luis Canal	-	27,258	27,258	100%	
Tehama-Colusa Canal	81,120	80,239	(881)	-1%	
TCC Fish Facilities	-	-	-		
Drainage Projects		1,767,000	1,767,000	100%	Includes Grasslands Bypass Project for \$860,000
Total	241,721	2,030,120	1,788,399	740%	
Less Direct billed	(241,721)	(2,030,120)	(1,788,399)		
Net Conveyance Cost	-	-	-		
<u>Conveyance Pumping</u>					
Corning Pumping Plant	184,209	247,030	62,821	34%	
Dos Amigos Pumping Plant	1,659,150	3,006,004	1,346,854	81%	
O'Neill Pump Gen Plant - Federal	1,341,439	1,430,829	89,390	7%	
Jones Pumping Plant	10,390,256	12,866,179	2,475,923	24%	
Total Conveyance Pumping	13,575,053	17,550,041	3,974,988	29%	
Less: Direct Billed	(13,575,053)	(17,550,041)	(3,974,988)		
Net Reimbursable Conveyance Pumping	-	-	-		Conveyance Pumping cost is direct billed to Water Authority.

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<u>Direct Pumping Cost</u>					
<u>Corning Canal</u>					
Corning WD Canalside Relift - Power	42,404	63,793	21,389	50%	
Proberta WD Canalside Relift - Power	847	2,991	2,144	253%	
<u>Cow Creek Unit</u>					
Wintu-Cow Creek PP - Power/Bella Vista WD	66	78,788	78,722	119276%	The meter used to estimate Bella Vista WD cost for 2016 was not correct, resulting in a low estimate. Contractor was notified and 2016 rate increased to cover expected cost.
<u>Cross Valley Canal</u>					
Dos Amigos PP and Banks	239,379	300,881	61,502	26%	
<u>San Felipe Unit</u>					
San Benito County WD					
Gianelli, WR PGP	143,155	61,685	(81,470)	-57%	
Pacheco PP - Power	147,275	108,281	(38,994)	-26%	
Santa Clara Valley WD					
Coyote PP - Power	48,979	26,978	(22,001)	-45%	
Gianelli, WR PGP	161,728	68,142	(93,586)	-58%	
Pacheco PP - Power	166,383	119,617	(46,766)	-28%	
<u>San Luis Canal - Fresno</u>					
Pleasant Valley PP & Relifts	559,347	655,747	96,400	17%	
Westlands WD Relifts	2,673,937	3,217,215	543,278	20%	
<u>San Luis Canal - Tracy</u>					
Panoche WD Canalside Relift - Power	1,851	1,631	(220)	-12%	
San Luis WD Canalside Relift - Power	938,772	830,687	(108,085)	-12%	
<u>Tehama-Colusa Canal</u>					
Colusa County WD					
Dunnigan WD Canalside Relift - Power	5,224	5,043	(181)	-3%	
Westside WD/GV WD Canalside Relift - Power	36,778	31,674	(5,104)	-14%	
Kanawha WD Canalside Relift	87,405	74,298	(13,107)	-15%	
Orland-Artois WD Canalside Relift	66,851	73,541	6,690	10%	
Total Direct Pumping Cost	5,811,945	6,093,233	281,287	5%	Due to the expiration of Reclamation's contract with PG&E on April 1, 2016, PUE costs are projected to increase. In fiscal year 2016, the increase is expected to be \$4 million and in 2017, the increase is projected to be approximately \$6.9 million. These increases are included in the water rates.

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<u>Water Marketing Expense</u>					
Suisun Marsh Protection	588,104	565,554	(22,550)	-4%	
Water Contract Administration	5,972,757	6,502,921	530,164	9%	
Water and Power Systems Controls	5,432,583	5,398,679	(33,904)	-1%	
Other Expenses/Hazardous Material Management	3,616,225	3,462,679	(153,546)	-4%	
Hazardous Material Management Program	367,026	361,677	(5,349)	-1%	
General Expense	1,367,809	1,598,668	230,859	17%	
Cost Allocation Study Cost	991,568	775,000	(216,568)	-22%	
Water Wheeling Cost	1,584,300	1,420,171	(164,129)	-10%	
Non-Permanent Contractor Revenue	(15,162)	(55)	15,107	-100%	
Total Water Marketing	19,905,210	20,085,294	180,084	1%	Overall increase is below materiality of 10%. No further action is required.
<u>Extraordinary O&M</u>					
Storage	3,515,700	5,516,875	2,001,175	57%	
Conveyance pumping	-	-	-		
Direct pumping	-	-	-		
Total XO&M	3,515,700	5,516,875	2,001,175	57%	Significant Inclusions for 2017: Nimbus Dam Radial Gate Refurbishing; Replace Staten Island and San Andreas Water Quality Monitoring Stations; and, Delta Cross Channel Radial Gate Gear Replacements
Total Reimbursable cost for 2017 rates	49,816,637	50,217,642	401,005	1%	Overall increase is below materiality of 10%. No further action is required.

Source: Schedule A-9 of the 2016 and 2017 Irrigation Water Ratebooks.