



## MEMORANDUM

TO: SLDMWA Finance & Administration Committee Members, Alternates

FROM: Raymond Tarka, Director of Finance

DATE: July 8, 2024

RE: Historical Analysis of Deliveries Through San Luis Joint Use Facilities

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As an action item from the June 3, 2024 Finance & Administration Committee, staff was asked to perform an historical analysis of the customer deliveries through the San Luis Joint Use (SLJU) facilities. The purpose of the analysis was to determine the feasibility of correlating use percentages on a customer-by-customer basis that would be consistent regardless of hydrology and could provide an alternative to billing the SLJU costs separately from water delivery rates.

Staff analyzed the final accountings for Water Year 2011 through Water Year 2021 and the delivery volumes applied to the San Luis Canal above the Dos Amigos Pumping Plant cost pool and the San Luis Canal below Dos Amigos Pumping Plant cost pool and also the volumes recorded to recover the power costs (PUE) of the Dos Amigos Pumping Plant.

The results of this analysis were inconclusive to draw a consistency pattern for allocating delivery costs on an annual basis. While staff is unaware of all of the business decisions that drove some of the variability of the volumes, it is reasonable to assume that the hydrology in each year had a significant impact on each water user's delivery volumes.

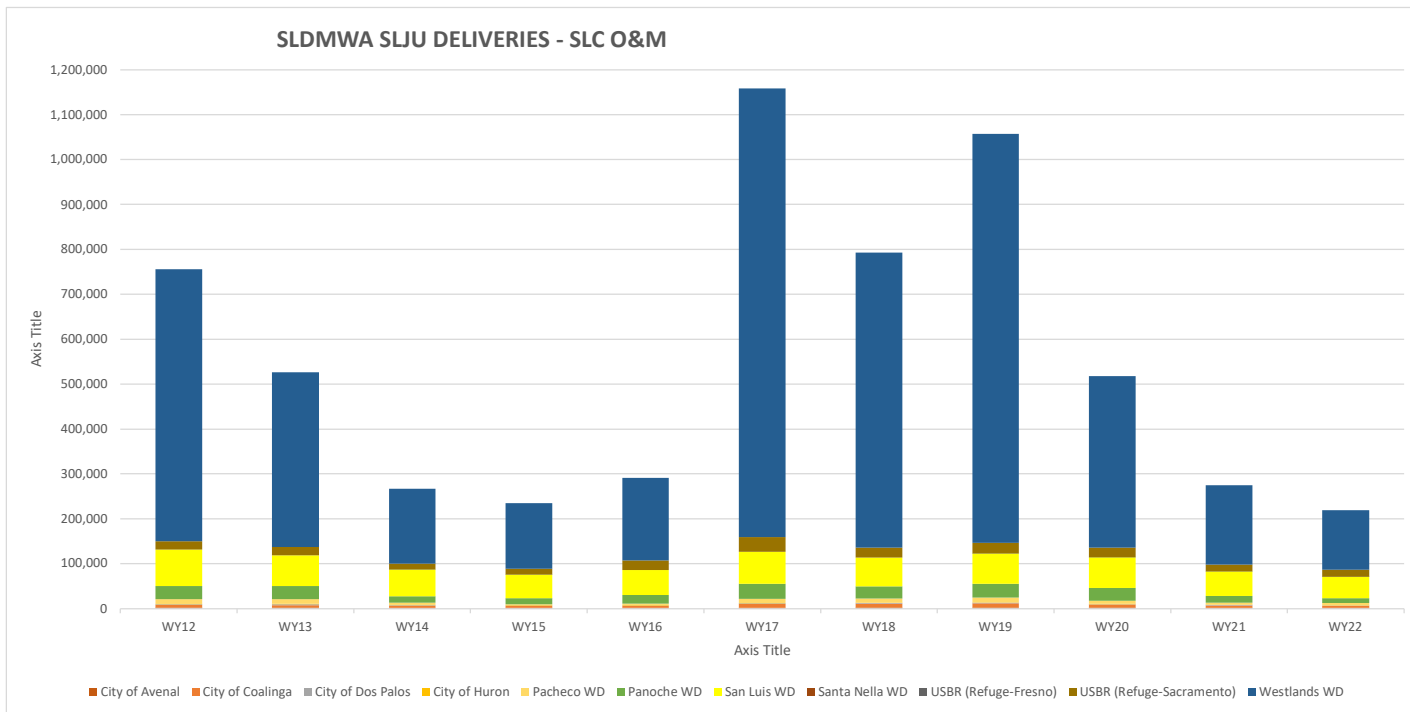
Following are schedules displaying the delivery volumes over the last eleven years for each customer receiving water through the San Luis Canal. As illustrated, the volumes by customer vary each year widely as a result of hydrology and individual business decisions.

Based on this variability, staff does not recommend pursuing an alternative to billing the SLJU costs at this time.



### San Luis & Delta-Mendota Water Authority San Luis Canal Historical Delivery Volumes by Customer Applied to Cost Recovery of SLJU San Luis Canal O&M Costs

	WY12	WY13	WY14	WY15	WY16	WY17	WY18	WY19	WY20	WY21	WY22	MIN	MAX	AVG
City of Avenal	2,521	2,592	2,107	1,931	1,974	2,120	2,403	2,398	2,480	2,308	2,257	1,931	2,592	2,281
City of Coalinga	5,682	5,220	4,393	4,155	3,912	8,261	8,733	9,464	6,241	4,629	3,552	3,552	9,464	5,840
City of Dos Palos	1,399	1,981	1,174	985	1,197	1,351	1,377	1,278	1,437	1,206	1,155	985	1,981	1,322
City of Huron	1,086	1,086	821	776	754	813	817	860	959	953	858	754	1,086	889
Pacheco WD	10,184	10,472	5,173	1,760	2,937	9,350	8,975	10,447	6,138	3,958	4,804	1,760	10,472	6,745
Panoche WD	29,454	29,033	14,033	13,629	20,040	33,019	27,269	30,739	28,907	15,391	11,142	11,142	33,019	22,969
San Luis WD	81,093	68,424	59,836	52,789	54,806	71,795	63,995	68,103	68,618	54,797	47,267	47,267	81,093	62,866
Santa Nella WD	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USBR (Refuge-Fresno)	-	-	18	3	1	42	41	42	68	144	89	-	144	41
USBR (Refuge-Sacramento)	18,859	18,803	13,123	12,569	21,645	32,444	22,737	23,516	21,592	14,944	15,673	12,569	32,444	19,628
Westlands WD	605,633	388,624	166,395	146,400	184,066	999,064	656,449	910,444	381,689	176,843	132,388	132,388	999,064	431,636
<b>Total by Water Year</b>	<b>755,911</b>	<b>526,235</b>	<b>267,073</b>	<b>234,997</b>	<b>291,332</b>	<b>1,158,259</b>	<b>792,796</b>	<b>1,057,291</b>	<b>518,129</b>	<b>275,173</b>	<b>219,185</b>			
<b>WWD as % of Total</b>	<b>80%</b>	<b>74%</b>	<b>62%</b>	<b>62%</b>	<b>63%</b>	<b>86%</b>	<b>83%</b>	<b>86%</b>	<b>74%</b>	<b>64%</b>	<b>60%</b>			





## San Luis & Delta-Mendota Water Authority San Luis Canal Historical Delivery Volumes Percentages by Customer

### Applied to Cost Recovery of SLJU San Luis Canal O&M Costs

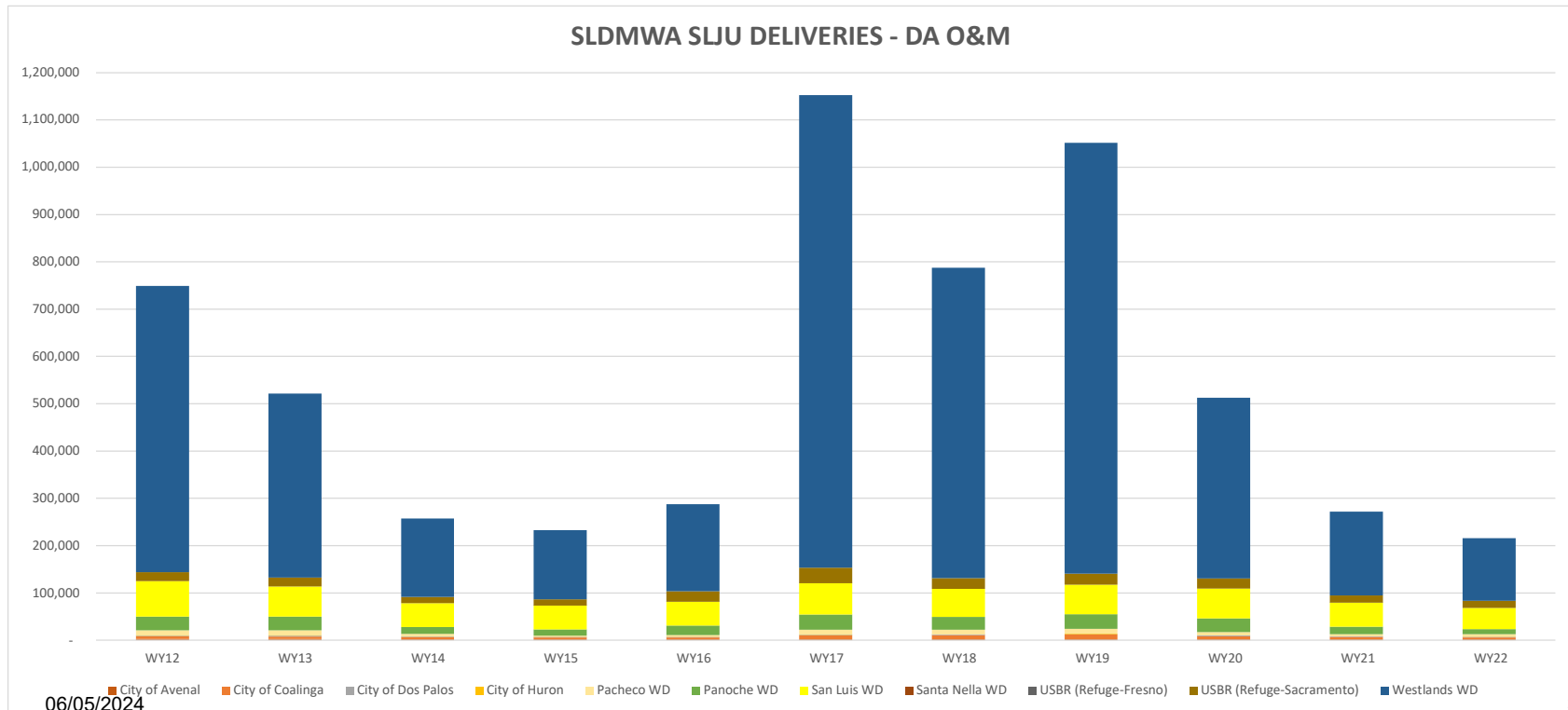
Water User	WY12 %	WY13 %	WY14 %	WY15 %	WY16 %	WY17 %	WY18 %	WY19 %	WY20 %	WY21 %	WY22 %
City of Avenal	0.33%	0.49%	0.79%	0.82%	0.68%	0.18%	0.30%	0.23%	0.48%	0.84%	1.0%
City of Coalinga	0.75%	0.99%	1.64%	1.77%	1.34%	0.71%	1.10%	0.90%	1.20%	1.68%	1.6%
City of Dos Palos	0.19%	0.38%	0.44%	0.42%	0.41%	0.12%	0.17%	0.12%	0.28%	0.44%	0.5%
City of Huron	0.14%	0.21%	0.31%	0.33%	0.26%	0.07%	0.10%	0.08%	0.19%	0.35%	0.4%
Pacheco WD	1.35%	1.99%	1.94%	0.75%	1.01%	0.81%	1.13%	0.99%	1.18%	1.44%	2.2%
Panoche WD	3.90%	5.52%	5.25%	5.80%	6.88%	2.85%	3.44%	2.91%	5.58%	5.59%	5.1%
San Luis WD	10.73%	13.00%	22.40%	22.46%	18.81%	6.20%	8.07%	6.44%	13.24%	19.91%	21.6%
Santa Nella WD	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.0%
USBR (Refuge-Fresno)	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.01%	0.00%	0.01%	0.05%	0.0%
USBR (Refuge-Sacramento)	2.49%	3.57%	4.91%	5.35%	7.43%	2.80%	2.87%	2.22%	4.17%	5.43%	7.2%
Westlands WD	80.12%	73.85%	62.30%	62.30%	63.18%	86.26%	82.80%	86.11%	73.67%	64.27%	60.4%
<b>Total by Water Year</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.0%</b>



## San Luis & Delta-Mendota Water Authority

### San Luis Canal Historical Delivery Volumes by Customer Applied to Cost Recovery of SLJU Dos Amigos O&M Costs

Water User	WY12	WY13	WY14	WY15	WY16	WY17	WY18	WY19	WY20	WY21	WY22	MIN	MAX	AVG
City of Avenal	2,521	2,592	2,107	1,931	1,974	2,120	2,403	2,398	2,480	2,308	2,257	1,931	2,592	2,281
City of Coalinga	5,682	5,220	4,393	4,155	3,912	8,261	8,733	9,464	6,241	4,629	3,552	3,552	9,464	5,840
City of Dos Palos	1,399	1,981	1,174	985	1,197	1,351	1,377	1,278	1,437	1,206	1,155	985	1,981	1,322
City of Huron	1,086	1,086	821	776	754	813	817	860	959	953	858	754	1,086	889
Pacheco WD	10,184	10,472	5,173	1,760	2,937	9,350	8,975	10,447	6,138	3,958	4,804	1,760	10,472	6,745
Panoche WD	29,454	29,033	14,033	13,629	20,040	33,019	27,269	30,739	28,907	15,391	11,142	11,142	33,019	22,969
San Luis WD	74,671	63,469	50,505	50,600	51,049	66,124	59,001	62,112	62,879	51,192	44,185	44,185	74,671	57,799
Santa Nella WD	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USBR (Refuge-Fresno)	-	-	18	3	1	42	41	42	68	144	89	-	144	41
USBR (Refuge-Sacramento)	18,859	18,803	13,123	12,569	21,645	32,444	22,737	23,516	21,592	14,944	15,673	12,569	32,444	19,628
Westlands WD	605,633	388,624	166,395	146,400	184,066	999,064	656,449	910,444	381,689	176,843	132,388	132,388	999,064	431,636
<b>Total by Water Year</b>	<b>749,489</b>	<b>521,280</b>	<b>257,742</b>	<b>232,808</b>	<b>287,575</b>	<b>1,152,588</b>	<b>787,802</b>	<b>1,051,300</b>	<b>512,390</b>	<b>271,568</b>	<b>216,103</b>			
<b>WWD as % of Total</b>	<b>81%</b>	<b>75%</b>	<b>65%</b>	<b>63%</b>	<b>64%</b>	<b>87%</b>	<b>83%</b>	<b>87%</b>	<b>74%</b>	<b>65%</b>	<b>61%</b>			





## San Luis & Delta-Mendota Water Authority San Luis Canal Historical Delivery Volumes Percentages by Customer

### Applied to Cost Recovery of SLJU Dos Amigos O&M Costs

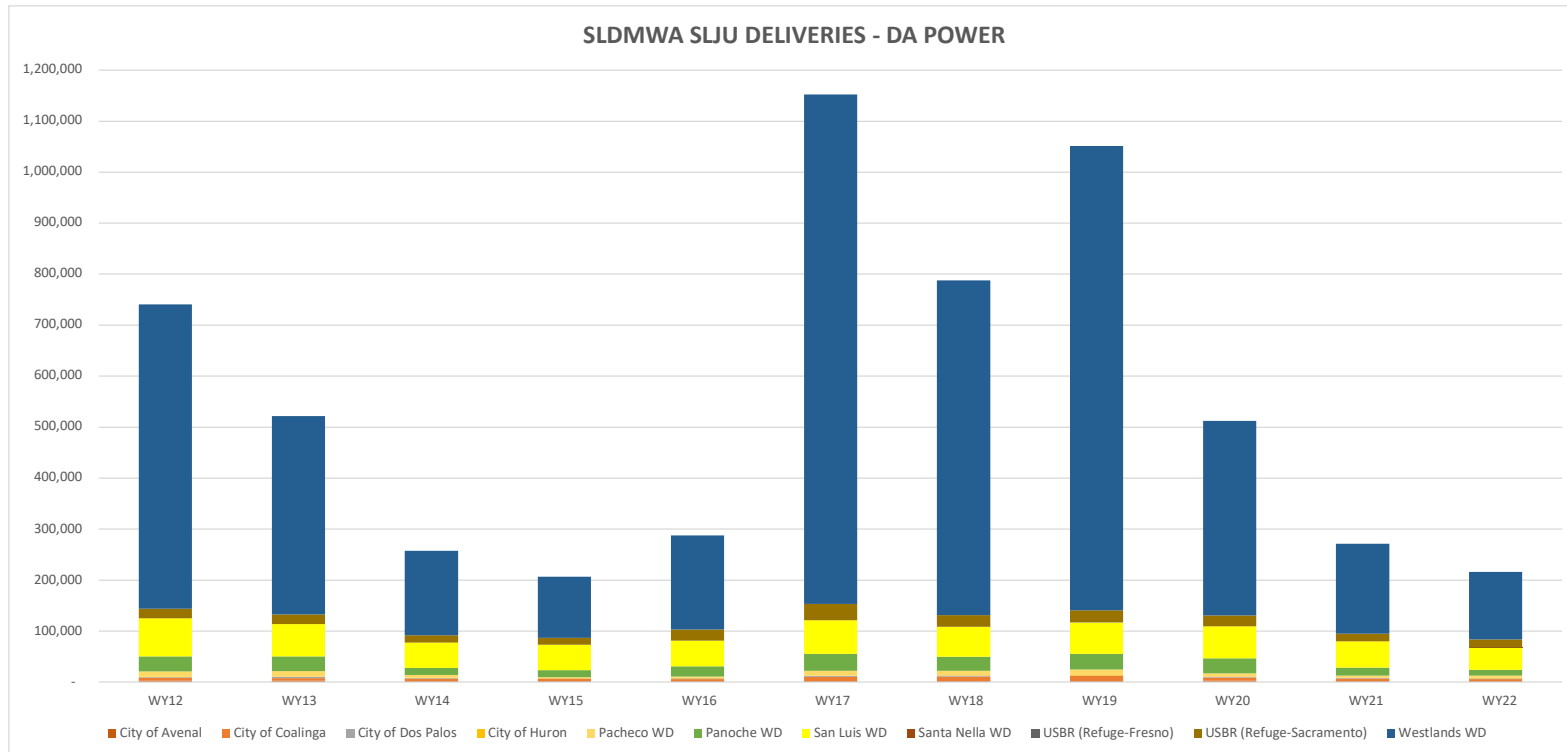
Water User	WY12 %	WY13 %	WY14 %	WY15 %	WY16 %	WY17 %	WY18 %	WY19 %	WY20 %	WY21 %	WY22 %
City of Avenal	0.34%	0.50%	0.82%	0.83%	0.69%	0.18%	0.31%	0.23%	0.48%	0.85%	1.04%
City of Coalinga	0.76%	1.00%	1.70%	1.78%	1.36%	0.72%	1.11%	0.90%	1.22%	1.70%	1.64%
City of Dos Palos	0.19%	0.38%	0.46%	0.42%	0.42%	0.12%	0.17%	0.12%	0.28%	0.44%	0.53%
City of Huron	0.14%	0.21%	0.32%	0.33%	0.26%	0.07%	0.10%	0.08%	0.19%	0.35%	0.40%
Pacheco WD	1.36%	2.01%	2.01%	0.76%	1.02%	0.81%	1.14%	0.99%	1.20%	1.46%	2.22%
Panoche WD	3.93%	5.57%	5.44%	5.85%	6.97%	2.86%	3.46%	2.92%	5.64%	5.67%	5.16%
San Luis WD	9.96%	12.18%	19.60%	21.73%	17.75%	5.74%	7.49%	5.91%	12.27%	18.85%	20.45%
Santa Nella WD	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
USBR (Refuge-Fresno)	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.01%	0.00%	0.01%	0.05%	0.04%
USBR (Refuge-Sacramento)	2.52%	3.61%	5.09%	5.40%	7.53%	2.81%	2.89%	2.24%	4.21%	5.50%	7.25%
Westlands WD	80.81%	74.55%	64.56%	62.88%	64.01%	86.68%	83.33%	86.60%	74.49%	65.12%	61.26%
<b>Total by Water Year</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>



## San Luis & Delta-Mendota Water Authority

### San Luis Canal Historical Delivery Volumes by Customer Applied to Cost Recovery of Dos Amigos Project Use Energy Costs

Water User	WY12	WY13	WY14	WY15	WY16	WY17	WY18	WY19	WY20	WY21	WY22	MIN	MAX	AVG
City of Avenal	2,521	2,592	2,107	1,931	1,974	2,120	2,403	2,398	2,480	2,308	2,257	1,931	2,592	2,281
City of Coalinga	5,682	5,220	4,393	4,155	3,912	8,261	8,733	9,464	6,241	4,629	3,552	3,552	9,464	5,840
City of Dos Palos	1,399	1,981	1,174	985	1,197	1,351	1,377	1,278	1,437	1,206	1,155	985	1,981	1,322
City of Huron	1,086	1,086	821	776	754	813	817	860	959	953	858	754	1,086	889
Pacheco WD	10,184	10,472	5,173	1,760	2,937	9,350	8,975	10,447	6,138	3,958	4,804	1,760	10,472	6,745
Panoche WD	29,454	29,033	14,033	13,629	20,040	33,019	27,269	30,739	28,907	15,391	11,142	11,142	33,019	22,969
San Luis WD	74,671	63,469	50,505	50,600	51,049	66,124	59,001	62,112	62,879	51,192	44,185	44,185	74,671	57,799
Santa Nella WD	-	-	-	-	-	-	-	-	-	-	16	-	16	1
USBR (Refuge-Fresno)	-	-	18	3	1	42	41	42	68	144	89	-	144	41
USBR (Refuge-Sacramento)	18,859	18,803	13,123	12,569	21,645	32,444	22,737	23,516	21,592	14,944	15,673	12,569	32,444	19,628
Westlands WD	597,083	388,624	166,395	119,800	184,066	999,064	656,449	910,444	381,689	176,843	132,388	119,800	999,064	428,440
<b>Total by Water Year</b>	<b>740,939</b>	<b>521,280</b>	<b>257,742</b>	<b>206,208</b>	<b>287,575</b>	<b>1,152,588</b>	<b>787,802</b>	<b>1,051,300</b>	<b>512,390</b>	<b>271,568</b>	<b>216,119</b>			
<b>WWD as % of Total</b>	<b>81%</b>	<b>75%</b>	<b>65%</b>	<b>58%</b>	<b>64%</b>	<b>87%</b>	<b>83%</b>	<b>87%</b>	<b>74%</b>	<b>65%</b>	<b>61%</b>			





## San Luis & Delta-Mendota Water Authority San Luis Canal Historical Delivery Volumes Percentages by Customer

### Applied to Cost Recovery of Dos Amigos Project Use Energy Costs

Water User	WY12 %	WY13 %	WY14 %	WY15 %	WY16 %	WY17 %	WY18 %	WY19 %	WY20 %	WY21 %	WY22 %
City of Avenal	0.34%	0.50%	0.82%	0.94%	0.69%	0.18%	0.31%	0.23%	0.48%	0.85%	1.04%
City of Coalinga	0.77%	1.00%	1.70%	2.01%	1.36%	0.72%	1.11%	0.90%	1.22%	1.70%	1.64%
City of Dos Palos	0.19%	0.38%	0.46%	0.48%	0.42%	0.12%	0.17%	0.12%	0.28%	0.44%	0.53%
City of Huron	0.15%	0.21%	0.32%	0.38%	0.26%	0.07%	0.10%	0.08%	0.19%	0.35%	0.40%
Pacheco WD	1.37%	2.01%	2.01%	0.85%	1.02%	0.81%	1.14%	0.99%	1.20%	1.46%	2.22%
Panoche WD	3.98%	5.57%	5.44%	6.61%	6.97%	2.86%	3.46%	2.92%	5.64%	5.67%	5.16%
San Luis WD	10.08%	12.18%	19.60%	24.54%	17.75%	5.74%	7.49%	5.91%	12.27%	18.85%	20.44%
Santa Nella WD	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%
USBR (Refuge-Fresno)	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.01%	0.00%	0.01%	0.05%	0.04%
USBR (Refuge-Sacramento)	2.55%	3.61%	5.09%	6.10%	7.53%	2.81%	2.89%	2.24%	4.21%	5.50%	7.25%
Westlands WD	80.58%	74.55%	64.56%	58.10%	64.01%	86.68%	83.33%	86.60%	74.49%	65.12%	61.26%
<b>Total by Water Year</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>