

Attachment 7

WA-12 Agricultural Service Rate - Fiscal Impact
Estimated Usage of Approved Non-Rate Revenue

	Estimated Based on Full Fiscal Year Implementation					4 Year Avg.
	18/19	19/20	Fiscal Year 20/21	21/22	22/23	
COSA WA-3/9 Allocation of Non-Rate Revenue	\$ 684,229	\$ 691,974	\$ 686,730	\$ 679,125	\$ 677,851	\$ 683,920
Allocation of Non-Rate Revenue (Current WA-3/9 Customers at WA-12)	\$ -	\$ 307,586	\$ 312,955	\$ 315,462	\$ 321,529	\$ 314,383
Rate Implementation	\$ -	\$ 29,400	\$ 1,900	\$ 1,900	\$ 1,900	\$ 8,775
Subtotal		\$ 336,986	\$ 314,855	\$ 317,362	\$ 323,429	\$ 323,158
New WA-12 Customers (130 Acres Assumed)		\$ 331,628	\$ 338,146	\$ 340,891	\$ 348,095	\$ 339,690
Subtotal WA-3/9 and New WA-12 customers	\$ -	\$ 668,614	\$ 653,001	\$ 658,253	\$ 671,524	\$ 662,848
Total Reduction/(Increase) in Allocation of Non-Rate Revenue	\$ -	\$ 23,360	\$ 33,729	\$ 20,872	\$ 6,327	\$ 21,072

Existing WA-3/9 Customers	
Number of Customers	
Residential	169
Commercial	21
Total Customers	190
Assumed Consumption	
Residential	360,651
Commercial	129,924
Total Consumption	490,575
Calculated Water Budget Allocation (CCF)	
Residential	217,940
Commercial	147,148
Total Water Budget Allocation	365,088

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Assumptions in Fiscal Impact Analysis	
1.	Assumed the rolling 15 year monthly average ETo value of required irrigation (in inches per month) as derived from CIMIS Station #44 data located at the University of California, Riverside. The 15 year rolling average will be updated annually. Initially the 15 year monthly average is based on January 1, 2004 through December 31, 2018.
2.	Assumed ITRC Crop Kc Factors as grouped in the following: Existing customers utilize the Kc Factor of 0.69 for citrus, avocado, fruit/nut trees and nursery stock; and 0.89 for pasture with livestock. These Kc factors assume a theoretical efficiency. 0.69 – average for citrus, avocado, fruit/nut trees, nursery stock 0.89 – pasture with livestock 0.53 – average for row crops and vines 0.45 – average for immature trees (first 5 planted years) Reflects average values of the ITRC Zone 6 data for 1997 irrigation design and balance conditions; typical, dry, and wet years; and drip, spray, and surface irrigation methods.
3.	Analysis assumes an irrigation efficiency factor (IE) of 0.85. IE is the value applied in the Agricultural Water Allocation (AWA) formula to account for inefficiencies in various irrigation methods.
4.	Fiscal impact of new customer acres assumed all water budget usage would be fully utilized. The fiscal impact is calculated at the delta of the seasonal average for WA-1A SFR Tier 3 less WA-12 Tier 2 AWA rate for residential customers and the delta of the seasonal average for WA-6 less WA-12 Tier 1 AWA rate for commercial customers based on the usage profiles of existing WA-3.1, WA-3.2, WA-9.1 and WA-9.2 customers. Usage profiles are based on the average of fiscal year 2017-18 and fiscal year 2018-19 usage for existing WA-3 and WA-9 customers.
5.	Assumed new customer acres are 65% residential and 35% commercial with 95% fruit trees/citrus and 5% being pasture with livestock. The current residential / commercial split for existing WA-3/WA-9 customers is 65% residential and 35% commercial based on acreage calculated in the fixed area allocation approach.
6.	Annual consumption used in the analysis is the average of the each customer's fiscal year 2017-18 and fiscal year 2018-19 usage plus 10%. Added 10% to the average of the fiscal year 2017-18 and fiscal year 2018-19 usage to build in a margin for error for fiscal year 2018-19 which experienced significant precipitation.
7.	AWA is based on the lesser of planted area allocation or fixed area allocation for existing WA-3 / WA-9 customers.
8.	Our Irrigated Area Allocation (IA) assumptions are based on using google earth satellite imaging by: a. Estimated fixed area - counted trees at 400 square feet per tree and counted vines at 100 square feet per vine. b. Estimated planted area in acres with google earth measuring tool. c. Actual fixed area and planted area will be submitted with the Agricultural Application Forms and subject to RPU review and inspection.
9.	For customers receiving Gage water either through Gage shares or the WA-8 rate, it was assumed their water budget allocation reduced by 50 percent of 156 CCF/acre/month for those months the Gage Canal Company can provide delivery to the parcel. Actual AWA reductions for customers receiving Gage water will be determined by RPU and may vary by customer.