Attachment 1

PROPOSED

City of Riverside
Public Utilities Department

SCHEDULE WA-12
AGRICULTURAL SERVICE

APPLICABILITY:
Applicable only to agricultural users that meet the Qualifying Criteria and Special Conditions set forth in this schedule.

TERRITORY:
City of Riverside and contiguous area.

RATES:
Quantity Rates

With Residence (Winter)	Per 100 Cubic Feet Per Month - Effective July 1,			
100 cubic feet per month	2019	2020	2021	2022
Tier 1 (first 9 CCF)	$1.19	$1.22	$1.26	$1.30
AWA* (CCF allocation per customer)	$1.19	$1.22	$1.26	$1.30
Tier 2 (next 26 CCF above Tier 1+AWA)	$1.50	$1.54	$1.58	$1.64
Tier 3 (all CCF above Tier 1+AWA+Tier 2)	$2.76	$2.84	$2.91	$3.01

With Residence (Summer)	Per 100 Cubic Feet Per Month - Effective July 1,			
100 cubic feet per month	2019	2020	2021	2022
Tier 1 (first 9 CCF)	$1.19	$1.22	$1.26	$1.30
AWA* (CCF allocation per customer)	$1.19	$1.22	$1.26	$1.30
Tier 2 (next 26 CCF above Tier 1+AWA)	$1.50	$1.54	$1.58	$1.64
Tier 3 (all CCF above Tier 1+AWA+Tier 2)	$3.37	$3.46	$3.55	$3.66

Without Residence (Winter)	Per 100 Cubic Feet Per Month - Effective July 1,			
100 cubic feet per month	2019	2020	2021	2022
AWA* (CCF allocation per customer)	$1.19	$1.22	$1.26	$1.30
All CCF above AWA	$1.58	$1.58	$1.58	$1.58

Without Residence (Summer)	Per 100 Cubic Feet Per Month - Effective July 1,			
100 cubic feet per month	2019	2020	2021	2022
AWA* (CCF allocation per customer)	$1.19	$1.22	$1.26	$1.30
All CCF above AWA	$1.84	$1.84	$1.84	$1.84

*AWA = Agricultural Water Allocation in CCF per month, per Customer (see Definitions 1.a)

Customer Charge (Per WA-1A Schedule)

	Per Meter, Per Month - Effective July 1,			
Meter Size	2019	2020	2021	2022
5/8 and 3/4 inch	$18.07	$20.53	$23.08	$26.00
1-inch	$28.69	$32.58	$36.63	$41.26
1-1/2 inch	$55.00	$62.45	$70.22	$79.08
2-inch	$86.70	$98.45	$110.68	$124.64

Surcharge Area Outside City
Charges shall be the amount computed at the quantity rates and the customer charge set forth in this schedule multiplied by 1.47.

Adopted by Board of Public Utilities: Board Resolution No
Approved by City Council: Council Resolution No.
Effective Date:

QUALIFYING CRITERIA:

1. To qualify for this rate, Applicants must meet **ALL** of the following criteria :
    a. Service address is located within the service area of Riverside Public Utilities.
    b. Applicant must submit a completed Agricultural Service Application Form and permit a physical, onsite inspection.
    c. Service address is allowed to conduct agricultural activities as a permitted use under the City's Municipal code, including the City zoning codes, and General Plan land uses.
    d. Service address property size must be at least one-half acre in size and customer is growing, cultivating, and maintaining:
        i. minimum of 75 edible fruit or nut trees; or
        ii. minimum 75 edible grape vines; or
        iii. minimum of half acre in row crop produce, vine crops other than grape vines, nursery stock, or pasture with qualifying Livestock; ornamental turf shall not be considered pasture; or
        iv. a combination of i, ii, and/or iii.

2. If the service addresses for multiple Customers are contiguous, collectively comprise one-half acre, each individual service address meets all of the Qualifying Criteria set forth in No. 1a, b, and c, above, and collectively meet all of the Qualifying Criteria 1.d above, then each service address can qualify to receive a proportionate share of the AWA as long as each service address has its own water service and the contiguous parcels are continually maintaining a minimum total of one-half acre of Qualifying Agriculture.

3. If service address is undeveloped and for sale, meets Qualifying Criteria 1.a, b and c above, and the prospective buyer provides proof that Criteria 1.d shall be met within six months of close of escrow on the property, the service address can qualify for this rate upon proof of close of escrow and when agricultural activities specified in 1.d.iv begin.

DEFINITIONS:

1. Agricultural Water Allocation (AWA)
    a. The total monthly agricultural water allocation volume in hundred cubic feet (CCF) as determined by the following formula based on the monthly average reference evapotranspiration rate (ET_o), particular crop factor(s) (K_c), and the irrigated planted areas (IA) occupied by the respective crop(s). (Note: 36.3 converts ET_o into CCF)

$$AWA = ET_o \times K_c \times IA \times 36.3$$

    b. If the customer's property has a residence and receives non-potable water deliveries from the Gage Canal Company (Company) via the WA-8 Greenbelt Irrigation Service rate, or by owning shares in the Company, the AWA will be reduced for planted areas being irrigated by Company water by up to 156 CCF/planted acre/month for those months the Company can provide delivery to the parcel.

    c. The Monthly Allocation Calculator (Exhibit A) will be used to calculate the total AWA for the respective property and crop(s).

2. Irrigated Area Allocation (IA)

a. The amount of planted area allocation assigned to a qualifying service address. IA will be determined by verifying the planted areas of Qualifying Agriculture in the Agricultural Service Application Form submitted by the Applicant. Planted area measurements will be verified by physical, onsite inspection.

b. Individually planted trees or grape vines shall each initially receive an IA equal to 400 square feet and 100 square feet, respectively. The total cumulative area assigned to all individually planted trees or grape vines cannot exceed the planted area identified in the Agricultural Service Application Form. The Customer's IA will be the lessor of the planted area allocation or total cumulative area assigned to all individually planted trees or grape vines.

c. Applicant may submit an amended Agricultural Service Application Form to increase the IA if new agricultural activity is added.

d. The following areas will be excluded from the IA: buildings, roads, pathways, hardscapes, landscaping, ornamental turf, and fallow areas.

3. Crop Factors (K_c)

The value assigned to one of the four groups of Qualifying Agriculture listed below as derived and taken from the Irrigation Training & Research Center (ITRC) California Evapotranspiration Database for California Irrigation Management Information System (CIMIS) Zone 6, developed by California Polytechnic State University in San Luis Obispo, California. Additional information can be found at the City of Riverside Public Utilities website at http://www.riversidepublicutilities.com/.

i. 0.45 for immature trees (for first 5 planted years).
ii. 0.53 for grape vines and row crops.
iii. 0.69 for citrus, avocado, edible fruit and nut trees, and nursery stock.
iv. 0.89 for pasture with livestock.

4. Reference Evapotranspiration (ET_o)

The rolling 15 year monthly average ET_o 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. Visit https://cimis.water.ca.gov for more information on available monthly ET_o data from CIMIS Station #44. A table of this data is attached as Exhibit B and is also available on the RPU website.

5. Qualifying Agriculture shall mean edible citrus, fruit or nut trees; grape vines; row crop produce; nursery stock; and pasture with Livestock

6. Livestock shall mean animals kept or raised for use other than pleasure.

SPECIAL CONDITIONS:

1. The Board of Public Utilities will publish a list of Best Water Management Practices for the customers on this rate to use as a guide and menu for efficient agricultural irrigation practices. These practices shall be reviewed and updated at least every 5 years.

2. Upon the effective date of this rate, all existing WA-3 and WA-9 customers will transition to this rate in accordance with the terms of this rate by submitting a completed Agricultural Service Application Form. Within fourteen days of the effective date of this rate schedule or receipt of the Agricultural Service Application Form from customer, the Utility will conduct a physical onsite inspection of the service address to verify that the correct AWA is being applied. If a WA-3 or WA-9 service address does not comply with the requirements of this rate schedule, Customer will have six months to bring their service address property into compliance or the Utility will assign an applicable rate to the Customer other than this rate schedule, effective as of January 1, 2020. If an existing WA-3 or WA-9 Customer refuses to allow a physical onsite inspection, the Utility will immediately assign an applicable rate to the Customer other than this rate schedule.

3. If Customer or an applicant fails to allow a physical, onsite inspection as required under this rate, the Utility will assign an applicable rate to the Customer other than this rate schedule.

4. Service under this rate schedule will require the installation of forced sprinkler irrigation systems or other suitable alternative. Furrow irrigation systems or other gravity fed irrigation system will not be allowed under this rate.

5. Each service address property receiving this rate shall be physically inspected every five years to ensure the service address property meets the Qualifying Criteria and that the assigned AWA is accurate. The Utility will provide at least a 48 hour advanced notice of such inspection. Upon inspection, AWA may be adjusted in accordance with this rate schedule. If a Customer is not in compliance with this rate schedule, the Utility shall assign an applicable rate to the Customer other than this rate schedule.

6. If Customer or applicant requests a meter size larger than two inch, RPU has the sole discretion to make a determination if the property can be allowed to receive this rate. Customer will be responsible for all costs and fees associated with such meter.

7. Customers may request an increase or decreases to their AWA once every two years. Such re-allocation will require an onsite, physical inspection of the service address property to verify types and amounts of Qualifying Agriculture as well as to verify area in agricultural use. RPU may reassess the planted areas on a customer property and/or adjust the AWA at any time.

8. Second Meter:

Customers may choose to have a second meter installed by the Utility for agricultural purpose in addition to a meter for non-agricultural service. Customer will be responsible for all costs and fees associated with such second meter, in accord with the Utility's Water rates and Rules. Customer will be responsible to pay all costs associated with any tailpipe work connecting the second meter to Customer's agricultural irrigation system. A backflow inspection will be conducted by City staff before Meter 2 can be activated and backflow device(s) may be required. If a backflow device is required, Customer will be responsible to provide the Utility with an annual

backflow certification at Customer's cost. Meter 2 can only be used to irrigate QUALIFYING AGRICULTURE. RPU staff will conduct inspections and pressure testing (if needed) at least biennially to verify the Meter 2 irrigation system is independent and not cross-connected to the domestic system.

9. RPU reserves the right to make adjustments to the AWA due to extreme weather conditions. The amount of adjustment will be determined by the Utility General Manager and approved by the Board of Public Utilities.

10. For Customers found to be out of compliance more than one time within a 5 year period, the Utility shall assign an applicable rate to the Customer other than this rate schedule. Customer may re-apply for this rate two years after such assignment.

11. Program Limit:

The total demand for this Schedule shall collectively not exceed $684,000 in under collection of costs to provide this rate. Once the Program Limit is reached, the General Manager will immediately declare the Schedule closed to new customers, subject to approval by the Board of Public Utilities and the City Council. The rate will remain closed until such time as additional non-rate revenues are established to subsidize the cost to provide this rate to new Customers. The City Council may, by resolution, identify such additional non-rate revenues and increase the Program Limit set forth herein. Such increase must be adopted by a resolution that is also approved by the Board of Public Utilities.

12. Water Conservation Surcharge

The rates and charges above are subject to a surcharge (Water Conservation Surcharge) as adopted via City Council Resolution No. 22675 on April 22, 2014 and such surcharge as in effect from time to time. The Water Conservation Surcharge will be applied to the Customer's total water usage charge including without limitation the quantity rates, customer and minimum charge for the applicable billing period.

13. Applicable Rate Schedule

a. Applicable Rate Schedule

For Customers applying for service at an existing service address, the Utility will assign a water rate schedule based on the characteristics of the service address. The Utility will presume that any water rate previously assigned to that service address is the appropriate schedule, unless the Customer requests a review for another applicable rate schedule, rate, or optional provision. In certain situations when a Customer does not qualify for a water rate previously assigned to that service address, the Utility will assign the applicable rate to the Customer. The Utility assumes no responsibility for advising the Customer of lower optional rates under existing schedules available as a result of the Customer's changes to the characteristics of the service address.

b. Change of Rate Schedule

A change to the applicable rate schedule may be made if the Utility determines that the Customer no longer qualifies for the assigned rate schedule. The change will become effective for service rendered after the next regular meter reading following verification and approval by the Utility of such eligibility. Any change in rate schedules pursuant to this section shall be made prospectively only.

14. Water General Fund Transfer

The Water General Fund Transfer is a component of every customer's water bill, and is a transfer of up to 11.5% of revenues from the Water Fund to the City's General Fund. On June 4, 2013, the voters of the City of Riverside approved the Water General Fund Transfer as a general tax, pursuant to Article 13.C of the California Constitution.

ENERGY COST ADJUSTMENT FOR PUMPING WATER:

The Quantity Rates shall be subject to an energy cost adjustment relating to increases and decreases in the cost of electric power for pumping water. This energy cost adjustment shall apply to each one hundred cubic feet (CCF) of sales to which Quantity Rates apply. Determination of the adjustment factor shall be made at the beginning of each quarter, with the initial adjustment beginning February 1, 1983.

The energy cost adjustment shall be calculated by dividing the CCF of metered Water sold in each quarter into the total dollar amount of fuel cost adjustments plus any base rate increases imposed by power suppliers for pumping water during that quarter:

A. Fuel cost adjustment charges by Southern California Edison Company.
B. Fuel cost surcharge charges by City of Riverside.
C. Base rate increase charges by Southern California Edison Company.*
D. Base rate increase charges by City of Riverside.*

$$\frac{\$\ (A+B+C+D)}{\text{CCF (Metered Sales)}} = \$.0000 \text{ per CCF}$$

The resultant shall be the energy cost adjustment factor for pumping water and shall be expressed in terms of cents per CCF carried out to the nearest $0.0001. This factor shall be divided by 0.885 to allow for the 11.5% of gross revenue payable to the City General Fund. The resultant shall then become the energy cost adjustment to be multiplied by all CCF increments reported in billings to Customers. The resultant amount in each case, expressed to the nearest $0.01, shall constitute the adjustment to be added to the Customer's bill.

*(Over base rates in effect February 1, 1983)

EXHIBIT A

WA-12 Monthly CCF Water Allocation Calculator

	CIMIS Station #44 Reference 15 year average ET_0 (2004-2018) in inches / month [1]											
	Jan	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sept**	**Oct**	**Nov**	**Dec**
	2.61	2.92	4.66	5.68	6.42	7.02	7.47	7.17	5.7	4.07	2.89	2.29
[2] K_c for citrus, avocado, fruit and nut trees, and nursery stock	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
ET_{crop} (CCF/acre/mo)	65.37	73.14	116.72	142.27	160.80	175.83	187.10	179.59	142.77	101.94	72.39	57.36
Irrigated Area in acres (IA)												
Monthly CCF allocation	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
[2] K_c for grape vines and row crops	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
ET_{crop} (CCF/acre/mo)	50.21	56.18	89.65	109.28	123.51	135.06	143.72	137.94	109.66	78.30	55.60	44.06
Irrigated Area in acres (IA)												
Monthly CCF allocation	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
[2] K_c for pasture with livestock	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
ET_{crop} (CCF/acre/mo)	84.32	94.34	150.55	183.50	207.41	226.80	241.33	231.64	184.15	131.49	93.37	73.98
Irrigated Area in acres (IA)												
Monthly CCF allocation	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
[2] K_c for immature trees	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
ET_{crop} (CCF/acre/mo)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Irrigated Area in acres (IA)												
Monthly CCF allocation	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total Monthly AWA	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

[1] *The rolling 15 year average will be updated annually*

[2] *Kc factors were derived from the Irrigation Training & Research Center (ITRC) California Evapotranspiration Database developed by California Polytechnic State University San Luis Obispo for CIMIS Zone 6, average values from irrigation design and water balance conditions for drip, spray and surface irrigation techniques.*

WA-12 Monthly CCF Allocation Formula

AWA= ET(o) x Kc x IA x 36.3

AWA = Agricultural Water Allocation in CCF per month, per customer

EXHIBIT B

Zone 6 - CIMIS Station #44 Total ETo (inches/month)

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	**15 Year Avg. Eto**
Jan	2.49	2.02	2.92	3.28	1.69	3.32	2.35	2.91	3.02	2.72	3.27	2.84	2.09	1.81	2.41	**2.61**
Feb	2.76	2.21	3.35	2.91	2.31	2.41	2.44	2.91	3.41	3.18	3.03	3.32	4.29	2.08	3.17	**2.92**
Mar	4.81	3.93	3.42	5.02	5.30	4.62	4.67	4.22	4.51	4.80	4.95	5.85	4.92	5.01	3.81	**4.66**
Apr	5.90	5.41	4.26	5.04	6.04	5.58	5.11	5.57	5.85	5.71	6.52	6.28	6.04	6.13	5.69	**5.68**
May	7.10	6.47	6.02	6.47	6.28	6.32	6.18	6.67	7.00	7.01	7.65	5.37	6.21	5.95	5.57	**6.42**
June	6.50	6.49	7.16	7.16	7.59	5.37	6.25	6.95	7.62	7.36	7.61	7.46	7.21	6.98	7.61	**7.02**
July	7.55	7.28	7.73	7.57	7.53	7.60	6.57	7.76	7.93	7.13	7.77	6.75	7.74	7.11	8.04	**7.47**
Aug	6.81	6.68	7.20	7.09	7.23	6.68	6.99	7.65	7.84	7.37	7.29	7.66	6.88	6.40	7.35	**7.14**
Sept	5.83	5.32	5.70	5.44	5.79	5.89	5.45	5.47	6.44	6.14	6.19	5.81	5.30	4.92	5.86	**5.70**
Oct	3.39	3.65	3.95	4.34	5.02	4.40	2.10	4.03	4.38	4.27	4.52	4.22	3.87	4.54	4.30	**4.07**
Nov	2.44	2.84	3.14	2.81	3.14	3.18	3.22	2.45	2.72	2.76	3.21	2.77	3.18	2.35	3.13	**2.89**
Dec	2.30	2.15	2.94	2.24	1.89	2.08	1.78	2.82	1.70	2.80	2.01	2.35	1.99	3.09	2.24	**2.29**

The data in this table was downloaded from Station #44 of the California Irrigation Management Information System (CIMIS) located at the University of California Riverside (https://cimis.water.ca.gov/Default.aspx). CIMIS Station #44 is located in CIMIS Zone 6 and the table above uses the Station #44 monthly Reference Evapotranspiration (Eto) rates in inches/month for 2004 - 2018 to establish the 15 year average monthly ETo values (**in bold**) that are used in the WA-12 Agricultural Service monthly agricultural water allocation (AWA) formula. This 15 year average will be updated annually to ensure a continual 15 year rolling average of ETo values.