

Mid-Kaweah Groundwater
Sustainability Agency (GSA)
PO Box 1920
Tulare, CA 93275



WA000XXXX: Business Name
First Name Last Name
XXXXXX Rd XX
City, California XXXXX

Announcement

You are receiving this true-up invoice at the end of the Water Year 2023 (October 2022 - September 2023) due to the enactment of the Mid-Kaweah Groundwater Sustainability Agency's (MKGSA) Emergency Ordinance, which was adopted on May 1, 2022. For more information on the Emergency Ordinance and your invoice, go to the MKGSA website (www.midkawah.org/emergency-ordinance).

Payment

Payments are due by May 23, 2024. Please remit payment either hand delivered to the Tulare Irrigation District office, at 6826 Ave 240 Tulare, CA 93274, or mail to P.O. box. 1920 Tulare, CA 93275. Please make checks payable to Mid-Kaweah GSA.

The MKGSA Board of Directors adopted nine amendments to the Emergency Ordinance which are listed below. For information regarding these amendments, please visit our website www.midkawah.org/emergency-ordinance.

- | | |
|---|-----------------------------|
| 1. Consumptive Use for Dairy Facilities | 1. Sub-APN Water Accounting |
| 2. Fallow Field | 2. Well Metering Appeal |
| 3. Land Transfer & Sales | 3. Parcel Verification |
| 4. Irrigation Efficiency | 4. Late Fee Policy |
| | 5. Precipitation Credit |

Congratulations on tackling one of the wettest years on record with your innovative ideas and localized recharge efforts. Tulare Irrigation District (TID), comprising 94% of the irrigated acreage in the MKGSA, were able to recharge a total of ~400,000 Acre-feet. Thanks to TID growers, irrigation orders early in the water year (January-March) was 44% higher than any other wet year on record. The MKGSA appreciates the cooperation and hard work all of our landowners and land managers have done to assist in reaching groundwater sustainability.

For more information:
Website: www.midkawah.org
Contact Us:
Email: dnz@tulareid.org
Phone: 559.686.3425

Evapotranspiration Data

The MKGSA has been working with the company Land IQ to effectively measure the water consumption of various crops grown. Below is a evapotranspiration (ET) table showing crop ET in MKGSA.

Crop Type	Oct 2021	Nov 2021	Dec 2021	Jan 2022	Feb 2022	Mar 2022	Apr 2022	May 2022	Jun 2022	Jul 2022	Aug 2022	Sep 2022	Annual ET WY2022
	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	feet
Pears-Bartletts*	2.93	1.17	0.55	0.80	0.79	2.33	4.79	6.54	7.61	7.88	7.12	5.08	3.9
Alfalfa	2.90	1.33	0.64	0.96	1.56	3.33	5.01	6.05	6.81	6.76	6.11	4.57	3.8
Almonds	2.62	1.02	0.57	0.64	0.90	2.63	4.88	5.94	6.62	7.15	5.95	4.23	3.6
Walnuts	2.80	1.20	0.56	0.60	0.81	1.71	4.08	6.19	6.75	7.35	6.36	4.52	3.6
Prunes*	2.78	0.99	0.53	0.59	0.76	1.51	3.39	5.89	6.38	7.22	6.68	4.40	3.4
Pecans	2.44	0.90	0.51	0.61	0.79	1.70	3.81	5.63	6.62	7.16	6.51	4.62	3.4
Plums*	2.45	0.81	0.55	0.72	1.05	2.40	4.07	5.21	6.09	6.89	5.79	4.28	3.3
Cherries	2.50	0.78	0.47	0.54	0.75	2.10	3.94	5.18	5.77	6.80	5.29	4.09	3.2
Pistachios	2.54	0.72	0.45	0.53	0.66	1.22	3.04	5.38	6.11	6.67	6.02	4.29	3.1
Grapes	2.67	0.85	0.48	0.51	0.65	1.15	1.56	5.42	6.64	6.88	6.07	4.21	3.1
Double Crop	1.34	0.41	0.71	1.31	1.90	3.64	5.23	2.66	0.62	7.05	6.80	3.98	3.0
Citrus Fruits	2.51	1.16	0.67	0.99	1.33	2.42	2.48	4.18	3.45	5.29	4.59	3.54	2.7
Bush Berries	2.57	0.95	0.62	0.66	0.80	1.85	3.52	4.89	5.50	5.91	3.04	2.25	2.7
Mixed Grasses*	1.92	0.36	0.47	0.54	0.83	2.47	2.21	0.83	7.10	7.32	6.70	0.05	2.6
Cotton	1.07	0.35	0.39	0.48	0.55	1.01	0.99	0.92	5.00	6.81	6.38	4.37	2.4
Sugar Beets	1.62	0.36	0.47	0.72	1.39	3.51	5.35	6.33	5.19	2.49	0.31	0.16	2.3
Field Corn	0.99	0.36	0.40	0.50	0.56	0.98	1.24	5.46	7.23	7.31	2.22	0.23	2.3
Grains Sorghums*	2.10	0.34	0.35	0.46	0.43	0.78	1.12	0.57	3.54	7.27	7.06	0.41	2.0
Strawberries*	0.82	0.36	0.47	0.57	0.86	1.87	3.46	4.33	4.09	3.25	0.82	0.10	1.7
Truck Crops*	0.91	0.38	0.45	0.52	0.71	1.79	3.18	4.14	3.98	3.10	0.66	0.24	1.7
Farmstead	1.42	0.42	0.48	0.62	0.84	1.63	2.26	1.78	1.47	3.50	2.49	1.73	1.6
Wheat	1.15	0.37	0.47	0.83	1.56	3.31	4.74	2.42	0.82	1.35	0.71	0.41	1.5
Native Pasture	1.11	0.43	0.62	1.03	1.54	2.85	2.62	1.04	0.79	1.45	0.54	0.39	1.2
Oats	0.64	0.37	0.54	0.86	1.51	3.19	3.65	0.68	0.57	1.14	0.48	0.32	1.2
Idle Crop Land	1.08	0.38	0.46	0.57	0.71	1.14	1.12	0.62	0.66	1.30	0.51	0.32	0.7
Basin	0.71	0.35	0.34	0.51	0.70	1.77	1.25	0.42	0.58	1.40	0.48	0.24	0.7
Residential	0.85	0.33	0.36	0.50	0.57	0.96	1.17	0.64	0.61	1.48	0.67	0.48	0.7
Young Perennials	0.82	0.35	0.40	0.49	0.56	1.00	1.05	0.43	0.37	0.75	0.48	0.22	0.6
Commercial	0.65	0.29	0.34	0.49	0.51	0.87	0.86	0.56	0.44	1.01	0.38	0.26	0.6

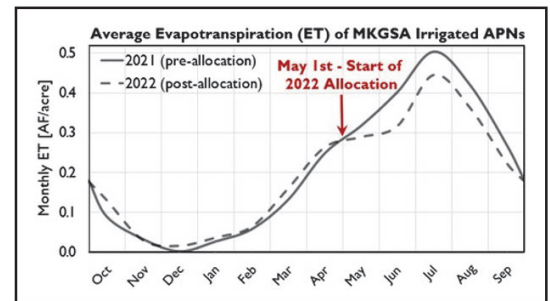
** Disclaimers

Crop type comprised less than 100 acres in the MKGSA. The dataset may not be diverse enough to represent the average consumptive use

1. Crops are based off TID crop surveys
2. ET values are the values of nearly all ages (except for trees less than 1 year old). Young trees included in the average underestimate consumptive use of mature trees.
3. Analysis is based on the irrigated acreage only (not by APN)

Water Consumption Changes

In 2022, the MKGSA experienced an abrupt 13% decrease in ET in response to the allocation. Evapotranspiration met by groundwater decreased after the adoption of the Emergency Ordinance which shows that our growers were less reliant on groundwater during the dry 2022 season. To the right, is a graph depicting the water consumption decline.



Grant Dollars

The Kaweah Subbasin has been awarded ~\$29 million in state and federal funding used for recharge basins, injection wells, groundwater studies, technology and programs within the subbasin.

Water Market Pilot v1.0

The Water Marketing Strategy Version 1.0 Pilot will be launching in 2024. The pilot market will allow 0.83 AF/Acre or 10 inches/ acre to be sold within the Mid-Kaweah GSA. The pilot guidelines are located on the Tulare Irrigation District website (<https://tulareid.org/kaweah-subbasin-water-marketing-strategy-committee>). On the image to the right, are the analysis zones that the water market will be using (zones subject to change).

