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David R. Ansolabehere, General Manager

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Cawelo Water District and Groundwater Sustainability Agency Landowners:

The Cawelo Water District (District) contracted with LandIQ to provide a new service to assist landowners with water management within the District and Cawelo Water District Groundwater Sustainability Agency (GSA) through a Daily Irrigation Management Tool (Tool).

For the last four (4) years Land IQ has been providing the District and GSA with monthly field-by-field estimates of actual evapotranspiration (ET) to identify agricultural consumptive demand. While highly accurate, the monthly results do not come quickly enough for irrigation management decisions. Thus, Land IQ developed a new tool (Daily Irrigation Management Tool) that provides growers, managers, and the District with access to daily ET and precipitation results within 1-2 days.

The purpose of the Tool is for individual grower water management decision-making. The Tool allows growers to track their water use on a daily basis in relation to a user defined threshold. This will allow growers to adjust water management decisions during the year on a real time basis to achieve, and hopefully not exceed, this user defined threshold. For consistency, the results of the Tool will be reconciled against and will match the proven results of the 30-day ET results that are currently being provided to the District and GSA. Additional information on the Tool can be found on the attached flyers.

The District will hold a Landowner Workshop on 19 December 2025 at 9:30 A.M. with LandIQ to provide landowners with an overview of the Tool and assist landowners to initially access and use the Tool. The Landowner Workshop will be held both in person at the District Office (17207 Industrial Farm Road, Bakersfield, CA 93308) and virtually. This will be an interactive workshop to assist landowners and landowners participating will need to bring, or have access to, a laptop and/or tablet. If wishing to participate in the Landowner Workshop virtually, please reach out to the District (officeadmin@cawelowd.org) to obtain the virtual meeting information. The virtual meeting information will also be posted on the District website (www.cawelowd.org) when available.

If you have any questions, please contact the District at officeadmin@cawelowd.org or (661) 393-6072.

Sincerely,

Dave Halopoff
Assistant General Manager



DAILY ET & IRRIGATION MANAGEMENT TOOL



Land IQ has been providing field-by-field monthly evapotranspiration (ET) and precipitation results to irrigation districts (Districts) and Groundwater Sustainability Agencies (GSAs) since 2016. This tool takes ET and precipitation to the daily timestep, providing results in 1-2 days, allowing growers to better manage their water.

GROWER PORTAL

- Claim fields
- Assign an entity for viewing (Farm Manager or Landowner)
- View claimed fields only
- Track water use against a user-defined target or allocation
- Download daily ET and precipitation by field

ENTITY ACCESS

- View only assigned fields
- Track water use against the grower defined target or allocation
- Download daily ET and precipitation

ADMINISTRATOR PORTAL

- View all claimed fields
- View field-level data
- Track number of claimed fields
- Track District/GSA water use
- Download daily ET and precipitation

WHAT

All the inputs that make the monthly, 30-day ET deliverable reliable, drive the daily ET tool as well. These inputs include:

- a data driven approach
- use of ground station data
- modeling at the field-level
- use of multiple remotely sensed images
- incorporation of agronomic variables

MONTHLY RESULTS

For consistency, the results of this daily product will match the proven results of the monthly, 30-day ET results that are currently provided to nearly 40 GSAs and Districts.

ACCESS

The grower only has access to the results of their fields, while the administrator-level has access to all fields and is provided with area-wide (e.g., GSA, Districts, or similar entity) summaries of accumulated consumption, precipitation, grower participation, crop type, field-level results, etc.

GROWER PORTAL



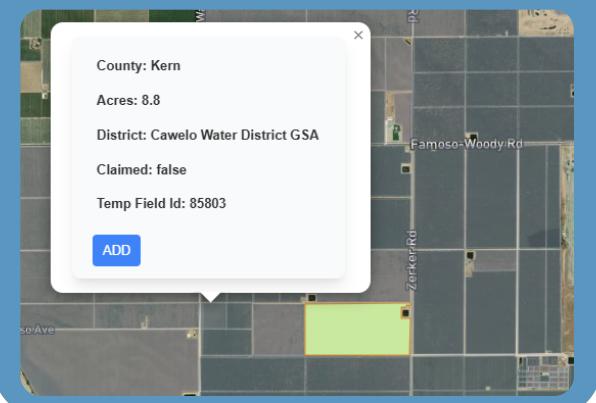
GROWER LEVEL ACCESS

- Claim fields
- Assign an entity for viewing (i.e. Farm Manager or Landowner)
- View claimed fields only
- Track water use against a user-defined target or allocation
- Download daily ET and precipitation by field

ENTITY LEVEL ACCESS

Provide landowners or farm manager level users access to assigned fields where they may view and download data by identifying an entity level user.

Claim a Field:



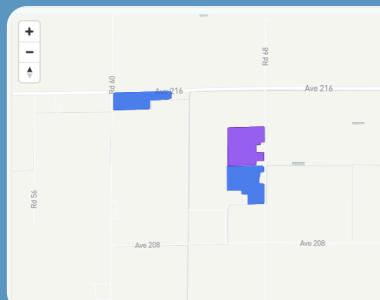
Enter Crop Specific Details:

Claim a New Field

Field Name	Name the Field				
Entity Name (Optional)	Name the Field				
Total Target Water	0	Target Type	ET	Water Unit	Feet
Crop 1	Alfalfa	Primary Irrigation Method	Drip	Start Date	mm/dd/yyyy
Crop 2	None	Primary Irrigation Method	None	Start Date	mm/dd/yyyy
Crop 3	None	Primary Irrigation Method	None	Start Date	mm/dd/yyyy

Submit

View all claimed fields in spatial and tabular form:



Claimed Fields

FIELD NAME	ENTITY	TARGET_WATER	CROP 1
AZ Dairy Home Ranch #1	None	33 Inches (ET)	Forage Mix (2024-11-20 - 2025-03-25)
AZ Dairy Home Ranch #2	None	40 Inches (ET)	Alfalfa (2024-10-01 - 2025-09-30)
AZ Dairy Home Ranch #3	None	35 Inches (ET)	Corn (field) (2025-03-20 - 2025-08-06)

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View and download field-level daily ET and precipitation:



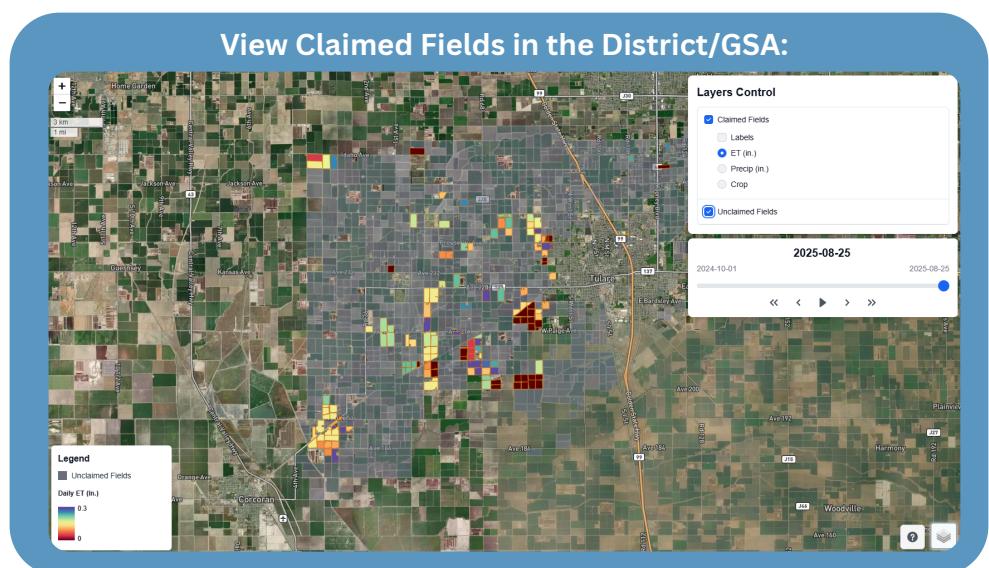
Track field-level water use against a user defined target or historical trends:



ADMINISTRATIVE PORTAL



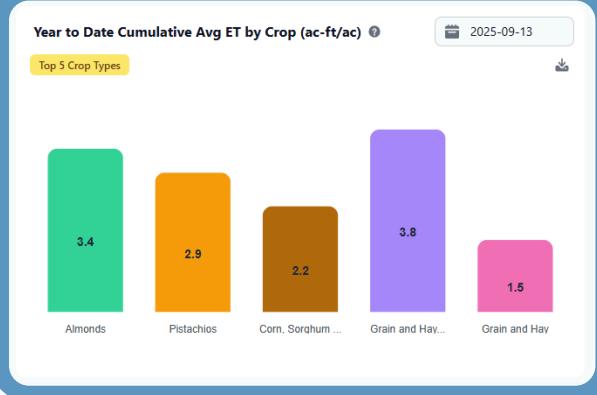
- View all claimed fields
- View field-level data
- Track number of claimed fields
- Track District/GSA water use
- Download daily ET and precipitation



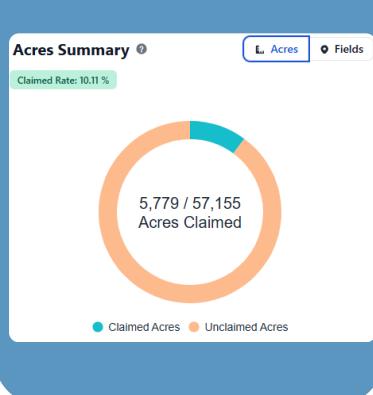
Track District/GSA Level Stats:



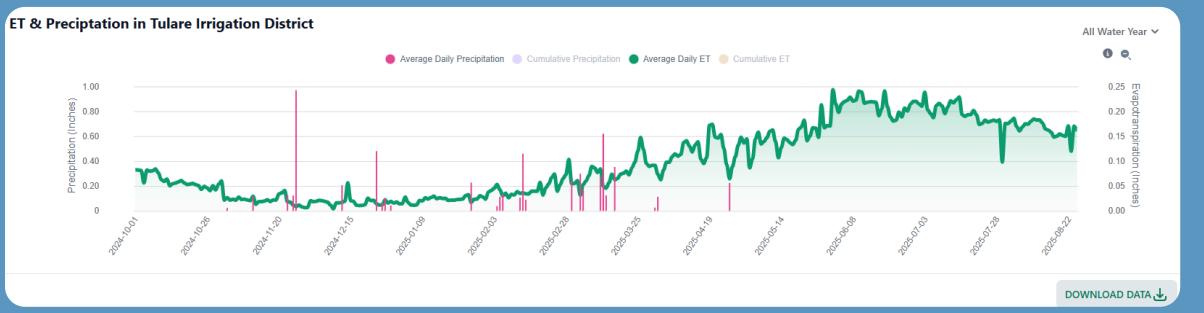
Track and Download ET by Crop Type:



Track Claimed Fields:



View and download district-level daily ET and precipitation:



View and download field-level daily ET and precipitation:

