



# CalWEP LAM Explorer

POWERED BY WATERVIEW  
Water Efficiency Software

## Frequently Asked Questions

### CII-LAM LUCD dataset (State of California, DWR):

#### What is the CII-LAM-LUCD data and how can I use it?

Even though it wasn't regulatorily required, the California Department of Water Resources (DWR), along with NV5, developed the conditional Commercial, Institutional, and Industrial landscape area measurement and land use classification dataset (CII-LAM-LUCD), to help urban retail water suppliers in complying with Water Code:

- Conditionally classifying irrigated CII landscapes. These irrigated CII landscapes may or may not be on a dedicated irrigation meter or be associated with a CII large landscape irrigated by a mixed-use meter (Water Code Section 969(a) and Section 973);
- Providing a dataset of residential extensions for suppliers to confirm. These are irrigated landscapes outside of a property line that may be irrigated by a residential customer. After confirming the extensions are irrigated by a residential customer, suppliers can request the State Water Board to include confirmed residential extensions in their Residential LAM estimates (Water Code Section 968(a)).
- Getting started on identifying CII nonfunctional turf that may be irrigated with potable water (Water Code Section 10608.14).

DWR is providing the CII-LAM-LUCD data as a starting point for urban water suppliers to evaluate CII outdoor water use efficiency, identifying opportunities for conservation, and supporting compliance with the State Water Board Conservation as a California Way of Life regulations.

## Why is CalWEP hosting the CII-LAM-LUCD data?

DWR will email suppliers with the CII-LAM-LUCD geospatial data and reports when final. However, DWR doesn't own a license and is unable to provide suppliers with direct access to share the 2020 Hexagon imagery used to create the CII-LAM-LUCD dataset. It's critical that the imagery used to create the data is available to suppliers when reviewing the data to confirm the data accuracy and more easily identify CII landscapes that may be subject to the regulations. The data in the Viewer is the same data provided by DWR enabling suppliers to access, review, and utilize their data efficiently.

The CalWEP Viewer tool is a voluntary effort by CalWEP and Eagle Aerial Solutions, without sponsorship from DWR, to provide additional support and resources to water suppliers, helping them prepare for compliance with water use efficiency regulations.

**DISCLAIMER:** While DWR appreciates CalWEP's help with providing imagery to suppliers; DWR does not endorse or recommend any consulting agency that offers suppliers assistance with GIS data.

## What data is DWR providing with the CII-LAM-LUCD dataset?

The CII-LAM-LUCD data complements the Residential-LAM data (provided by DWR in 2021, except for recently new suppliers) and uses the same urban retail water supplier boundary for both deliverables.

Supplier specific deliverables:

1. 1. Geospatial datasets (GIS) in two formats; both formats have identical data:
  - a. Shapefiles, and
  - b. Geodatabase (\*.gdb) containing data as feature classes.
2. Reports (\*.pdf):
  - a. CII-LUCD / Residential Parkways Irrigated Vegetation Analysis Report: summary report describing methods, source data, results, and validation.
  - b. README file: description of attribute values provided in the GIS datasets.
  - c. CII-LAM information sheet: users guide for people new to or unfamiliar working with LUCD or LAM GIS datasets.

The CII-LUCD data should be reviewed with the same source imagery that was used for the analysis, in this case, the 2020 Hexagon imagery. This imagery dataset will be available through the CalWEP LAM Explorer

Residential extensions should be reviewed with the 2018 Hexagon imagery; this imagery was provided upon request with the Residential LAM deliverable.

If a re-delivery of the 2018 Hexagon imagery is needed, please contact Scott Hayes at [Scott.Hayes@water.ca.gov](mailto:Scott.Hayes@water.ca.gov).

NOTE: The 2018 Hexagon imagery will also be available for viewing through the CalWEP LAM Explorer.

## Who do I contact if I have questions or feedback about the data?

If corrections or edits to the provided dataset are necessary, those initial edits do not need to be coordinated with DWR. When a supplier has completed making changes to the CII-LAM-LUCD data, DWR requests that suppliers provide the final CII-LAM-LUCD dataset along with the supplier's edits so that DWR to maintain a current dataset.

Should additional assistance be needed, please contact DWR at [WUE@water.ca.gov](mailto:WUE@water.ca.gov) for general questions and [WUEStandards@water.ca.gov](mailto:WUEStandards@water.ca.gov) for CII-LAM-LUCD data questions.

The Landscape Area Measurement (LAM) data aligns with the Conservation as a California Way of Life regulations by supporting urban water suppliers in meeting the requirements for the CII-DIM Water Use Standard. This standard establishes efficient outdoor water use for Commercial, Industrial, and Institutional (CII) accounts with dedicated irrigation meters (DIMs). The LAM data is critical for compliance as it identifies irrigated areas and landscape types associated with CII accounts, which are used to calculate the CII-DIM water budget. This budget represents the annual maximum allowed outdoor water use based on landscape efficiency factors (LEF) that account for irrigation efficiency and plant water needs. Starting on July 1, 2028, suppliers will use the LAM data to define and enforce these water budgets, ensuring that outdoor water use is managed efficiently. Additionally, the LAM data aids suppliers in identifying and measuring large landscaped mixed use meter accounts or transitioning to equivalent technologies during the compliance preparation period. It enables accurate reporting, tracking, and alignment with the broader objectives of water conservation regulations by providing a foundational dataset for understanding and managing outdoor water use.

### **What is CalWEP LAM Explorer, and how does it benefit urban water suppliers?**

The CalWEP LAM Explorer is an online tool developed by the California Water Efficiency Partnership (CalWEP) in collaboration with Eagle Aerial Solutions and the WaterView team. It consolidates CII LAM data with the residential LAM data previously provided by the California Department of Water Resources (DWR), giving urban water suppliers a more comprehensive view of the total irrigated landscape within their service areas. This tool benefits suppliers by enabling them to analyze and manage landscape data across both residential and CII sectors. It allows users to make notes, provide feedback, and better understand the irrigated areas tied to large-scale water use. By offering a centralized platform, the platform simplifies access to critical data, reduces administrative burdens, and supports suppliers in preparing for compliance with water efficiency regulations, such as the CII-DIM Water Use Standard. This broader landscape perspective helps suppliers identify opportunities for conservation and improve water management practices.

## **Is CalWEP LAM Explorer only available to CalWEP members, or can non-members access it too?**

The CalWEP Viewer is available to all urban water suppliers and each supplier will only be able to view their own data. Supplier access to the data will vary based on the supplier's CalWEP membership status:

- Non-CalWEP members receive limited access for 6 months, starting from the time their DWR CII-LAM-LUCD data becomes available and their agency creates an account.
- CalWEP members will have extended access for 1 year, starting from the time their DWR CII-LAM-LUCD data becomes available and their agency creates an account. If members required additional time to utilize the tool for compliance and planning purposes, it can be made upon request.

This structure ensures that all suppliers can benefit from the tool while offering long-term access to CalWEP members for comprehensive water management support.

## **How can I access CalWEP LAM Explorer and begin using it?**

To access the CalWEP LAM Explorer and begin using it:

1. When your CII-LAM-LUCD data is completed, DWR will send an email with instructions for creating an account on the CalWEP website to view the data (if you don't have an account).
2. This will send a notification to the CalWEP/Eagle Aerial team and start the process of consolidating and uploading your agency's data into the platform.
3. CalWEP will also reach out to your agency to assist with account creation and provide guidance on using the tool.

This coordinated approach ensures that your agency has seamless access to the Explorer and the resources needed to effectively manage and analyze the data.

## **How many users from each supplier can create an account in the CalWEP LAM Explorer?**

Each supplier can have up to two users create accounts in the CalWEP LAM Explorer. This limitation ensures fair access to the tool while maintaining efficient support and management of user accounts. Agencies are encouraged to select users who are directly involved in managing and analyzing landscape data to maximize the Explorer's effectiveness.

## **Is there a cost associated with accessing CalWEP LAM Viewer?**

No, there is no cost for accessing the CalWEP LAM Explorer, whether you are a CalWEP member or a non-member. Both members and non-members can use the tool to access and analyze their data, although non-members have limited access for six months after their data becomes available.

## **Are there specific software or browser requirements to use CalWEP LAM Explorer?**

While all browsers will work, the Explorer is optimized for Chrome.

## **How do I download the GIS files for offline use?**

DWR will be sending each water supplier their own shapefiles and geodatabases for their service area through Box. The contact info listed on your UWMP will be the email address the Box link was sent to. If a new link needs to be sent, please contact DWR.

## **Does the data need to be updated by urban water suppliers and provided back to DWR? If so, what is the process and timeline for submitting updates?**

Updating the data is not a requirement, but DWR respectfully requests that urban water suppliers provide any updates to improve the accuracy of the data. Suppliers are encouraged to submit updates within six months of gaining access to the data. This process, known as ground-truthing, helps ensure the data reflects current conditions. To submit updates, suppliers should contact the Water Use Efficiency (WUE) branch of DWR with the revised information. This collaborative effort supports data accuracy and enhances its usefulness for long-term water management.

## **Are there webinars or resources to help agencies better understand the CII LAM-LUCD data and its application?**

DWR hosted a webinar in October of 2024 to provide agencies with an understanding of the CII LAM-LUCD data and its applications. The webinar can be found here: <https://www.youtube.com/watch?v=tn6d4r3n3RI>

## How long will CalWEP LAM Viewer be available?

The CalWEP LAM Viewer will be available to:

- Non-CalWEP members for three months starting from the creation of their account.
- CalWEP members until June 2027, providing extended access to support long-term water management and compliance efforts.