

California Department of Water Resources Groundwater Information

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Introduction

- Groundwater Level Data Collection
 - DWR, Local agencies, other Cooperators
 - Typically twice a year – seasonal fluctuations and long term trends
- 2009 Legislation – CASGEM
 - Voluntary program
 - Data available to public
 - CASGEM wells include construction information
- Available Tools
 - Groundwater Information Center
 - Water Data Library
 - CASGEM
 - Interactive Map Application

Web Based Reports and Maps

- “Hardcopy” reports are important
 - Summarize information at a specific time
 - Provide analysis in a specific format
- However...Web based reports and maps allow:
 - Interaction
 - Information and data updates
 - More transparency
 - A better format for data reports

Groundwater Data Links

- DWR Groundwater Information Center
 - Main Page - www.water.ca.gov/groundwater/gwinfo/index.cfm
 - Maps and Reports - www.water.ca.gov/groundwater/maps_and_reports/index.cfm
- GIC Interactive Map (water level and subsidence maps)
www.water.ca.gov/groundwater/MAP_APP/index.cfm
- Water Management Planning Tool (boundaries map)
www.water.ca.gov/groundwater/boundaries.cfm
- Water Data Library (water level data, some WQ data)
www.water.ca.gov/waterdatalibrary/
- CASGEM (water level data, monitoring plans, well details)
www.water.ca.gov/groundwater/casgem/



Groundwater Information Center

Introduction

The Groundwater Information Center is DWR's portal for groundwater information, groundwater management plans, water well basics, and statewide and regional reports, maps and figures. California's groundwater provides approximately 30 to 46 percent of the State's total water supply, depending on wet or dry years, and serves as a critical buffer against drought and climate change. Some communities in California are 100 percent reliant upon groundwater for urban and agricultural use.

DWR has a long-standing history of collecting and analyzing groundwater data, investigating and reporting groundwater conditions, implementing local groundwater assistance grants, encouraging integrated water management, and providing the technical expertise needed to improve groundwater management practices. DWR will continue to work with local agencies and regional organizations to provide data that enables sustainable groundwater management. The Groundwater Information Center website will be updated as new information becomes available.



Water Management Planning Tool

In February 2015, DWR released its new **Water Management Planning Tool** to view boundaries important to water planners. The Department intends to test this **interactive map application** internally while also providing a beta version to the public.

GROUNDWATER HOME

GROUNDWATER INFORMATION CENTER

- » Groundwater Basics
- » Maps and Reports
- » Groundwater Management
- » Groundwater Well Information
- » Monitoring and Data Collection
 - » CASGEM
 - » Water Data Library
- » GIC Interactive Map Application
- » Contacts

SUSTAINABLE GROUNDWATER MANAGEMENT



Groundwater Information Center

Maps and Reports

Groundwater data and related information can be reported in a variety of formats, including maps, figures, and written reports.

This page provides access to PDF documents which report groundwater conditions in a variety of formats. Documents are organized by report type (for example, "Groundwater Level Change Maps") and by region. Statewide reports, or reports that cover large regions of the state are found on this page, whereas local reports are available at Region Office Reports and Data below. Please note that data reports and other information is being added to this page regularly.

Statewide and Regional Maps

+ [Groundwater Level Change Maps \(click here to view\)](#)

Statewide and Regional Reports

GROUNDWATER HOME

GROUNDWATER INFORMATION CENTER

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California Department of Water Resources
Groundwater Information Center
Map Interface

Data Boundaries Disclaimer [Help!](#)

Groundwater Level Measurements

Select Data Type:

- Depth Below Ground
- Groundwater Elevation
- Change in Groundwater Level

Choose Time Period:

- 2014 Select Year
- Spring Select Season
- 2004 to 2014 Select Range

(Change in Groundwater Level Only)

Show Data Layers:

- Measurements
- Contours
- Color Ramp

Legend:

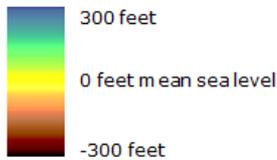
Measurements

-  Groundwater Elevation Measurement

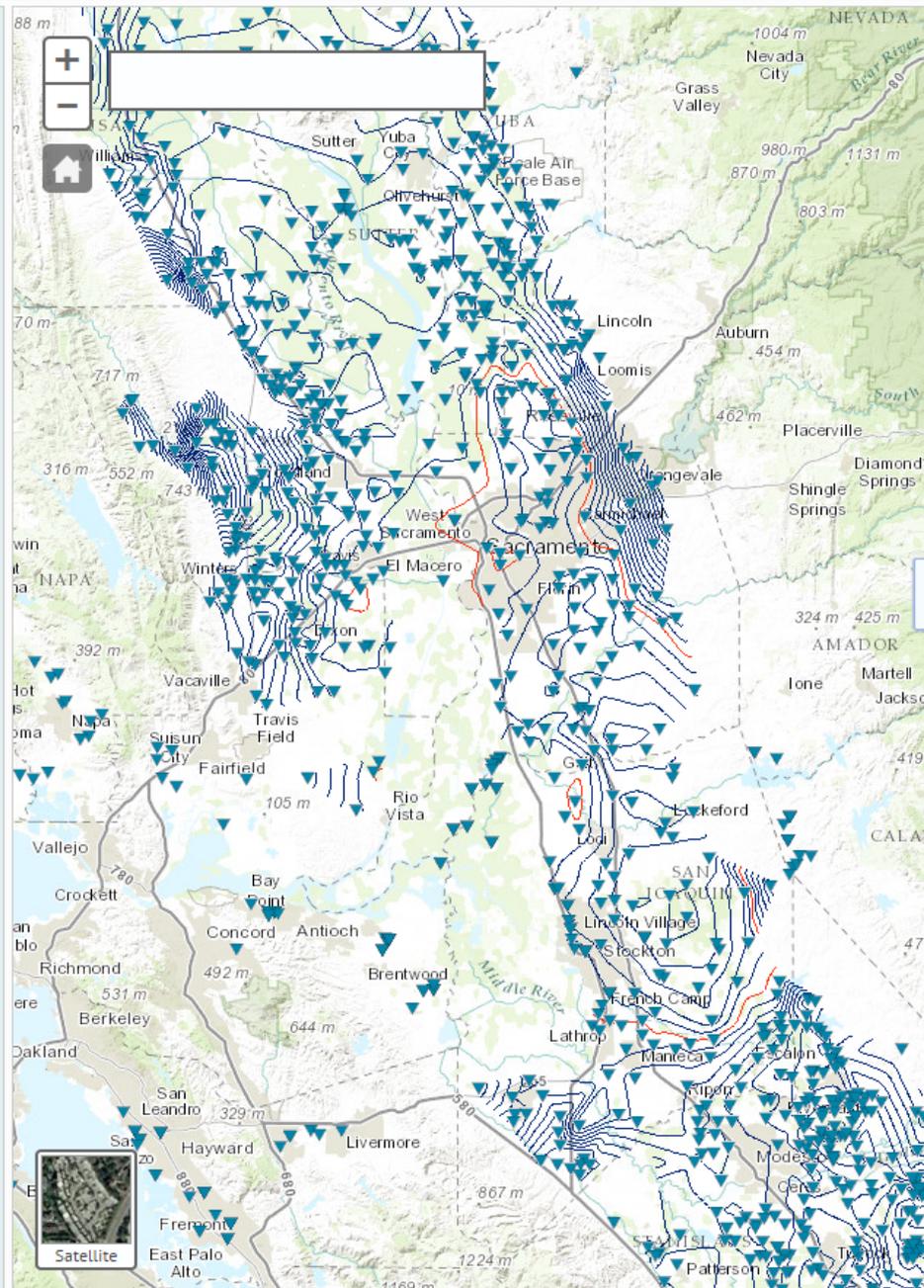
Contours

-  Sea Level
-  Primary Contour
-  Secondary Contour

Color Ramp



Subsidence



Groundwater Elevation

These layers show the groundwater elevation and are derived from water level measurements collected from wells. Water level measurements are filtered based on measurement date and well construction information (when available) and are intended to approximate groundwater elevations in the unconfined to uppermost semi-confined aquifers.

Measurements values are based on data collected from wells in the field, while the contours and color ramp layers provide a smoothed approximation of the groundwater elevation "surface" based on the measurement data. Note that the measurement values may not exactly match the contour or color ramp values because of surface and contour smoothing process.

Groundwater elevations are shown as feet above or below mean sea level (positive values indicate groundwater elevations above means sea level, negative values indicate groundwater elevations below mean sea level).

Layer Attribute Explanation:

- Site Code:** Unique Well ID
- Local Well Name:** Well ID defined by local agency or well owner
- State Well Number:** DWR State Well Number
- WCR Number:** Well Completion Report number (DWR form 188)
- Well Use:** Intended use of well
- Msmt Date:** Date water level measurement was collected
- Msmt Agency:** Agency that collected the water level measurement
- WSEL:** Groundwater Surface Elevation (ft-msl), NAVD88
- DGBS:** Groundwater Depth Below Ground

[Download selected data](#)



Water Management Planning Tool

[Clear all](#) [Help!](#)

Boundaries Map

County Boundaries



County Boundary

Region Office Service Areas



Region Office Service Areas

Hydrologic Regions



Hydrologic Regions

Prop 84 Funding Areas



Prop 84 Funding Areas

Regional Water Quality Control Board Boundaries



Regional Water Quality Control Board Boundaries

Tribal Lands

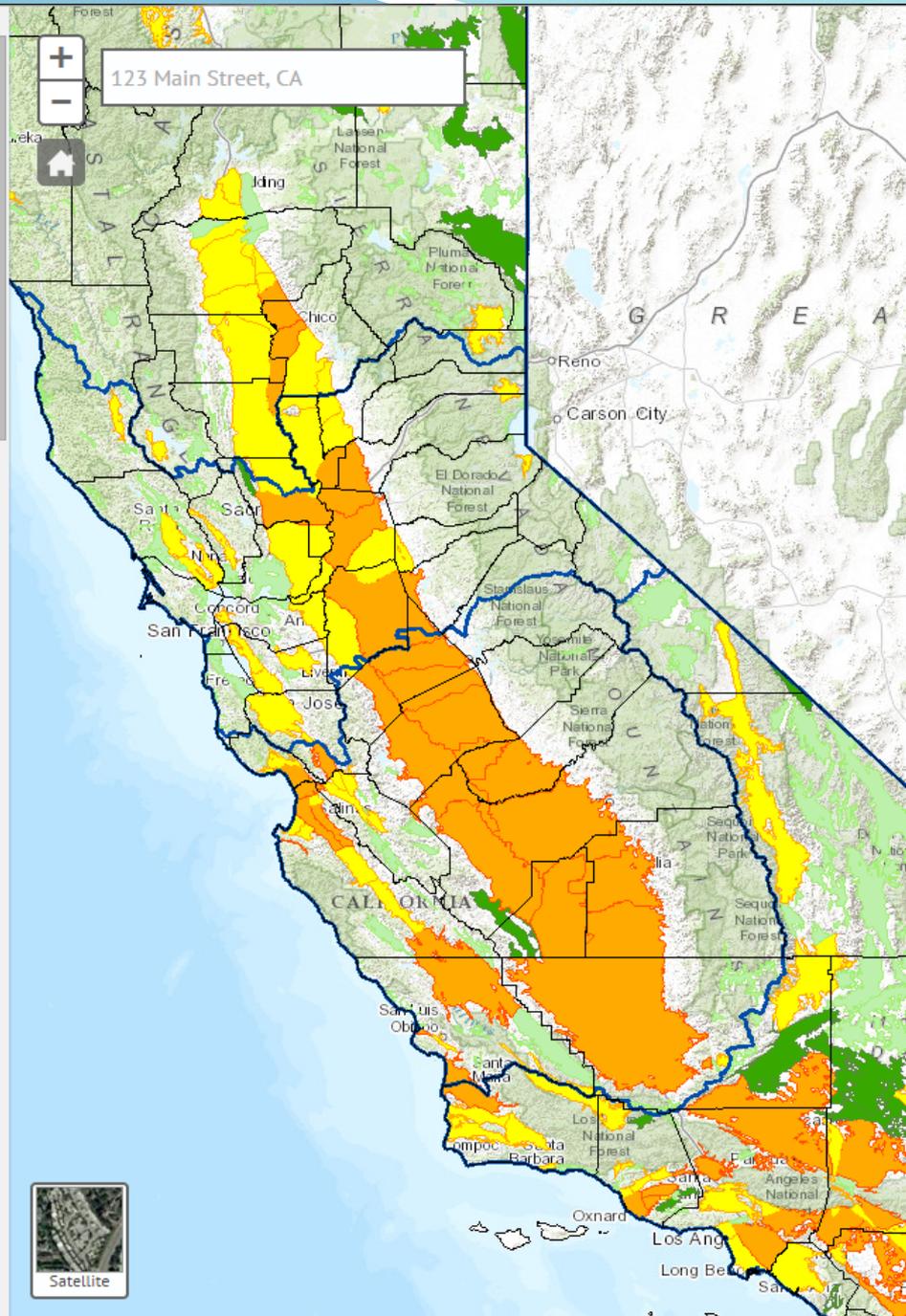


- Location of a Historic or Landless Tribe
- Tribal Trust Land held by U.S. Government
- Tribal Trust Land in a Public Domain Allotment
- Tribal Trust Land Out of State

Regional Flood Planning Boundaries



- Area of Local Interest
- Regional Flood Planning Area



Boundaries Map

This application contains a variety of boundaries that could be useful to water management planners. **Click on features in the map or see below for more information:**

DATA DISCLAIMER

All information provided by the Department of Water Resources on its Web pages and Internet sites, is made available to provide immediate access for the convenience of interested persons. While the Department believes the information to be reliable, human or mechanical error remains a possibility. Therefore, the Department does not guarantee the accuracy, completeness, timeliness, or correct sequencing of the information. Neither the Department of Water Resources nor any of the sources of the information shall be responsible for any errors or omissions, or for the use or results obtained from the use of this information.

The following layers are contained in the map (scroll down for brief descriptions):

- County Boundaries
- Region Office Service Areas
- Hydrologic Regions
- Prop 84 Funding Areas
- Regional Water Quality Control Board Boundaries
- Tribal Lands
- Regional Flood Planning Boundaries
- Reclamation Districts
- CA State Park Lands
- Federal Lands
- CASGEM Groundwater Basin Prioritization
- Groundwater Management Plans
- IRWM Regions
- Adjudicated Groundwater Basins
- Disadvantaged Communities Block Groups
- Disadvantaged Communities Tracts
- Disadvantaged Communities Places

Unavailable

- [Water Data Library Home](#)
- [Groundwater Level Data](#)
- [Water Quality Data](#)
- [Continuous Data](#)
- [Historical Information](#)
- [Contact Information](#)

DWR CLIENTS ONLY

- [Admin Login](#)
- [Climate Data \(Beta 1.1\)](#)
- [Climate Data \(Access Prototype\)](#)

Water Data Library

Use the map below to locate monitoring stations. You can find an area of interest if you zoom and pan the map. Quickly find an area searching for named features on a map such as the name of a city, park, landmark, lake, water feature, or zip code within California. Once at the area of interest, select the desired Site Type and click the "Refresh Map" button to show monitoring stations in the area. Additional searches by data type are possible by clicking the links on the left. For help on these and other ways to find your data [click here](#).

WDL STATION MAP

Location Search

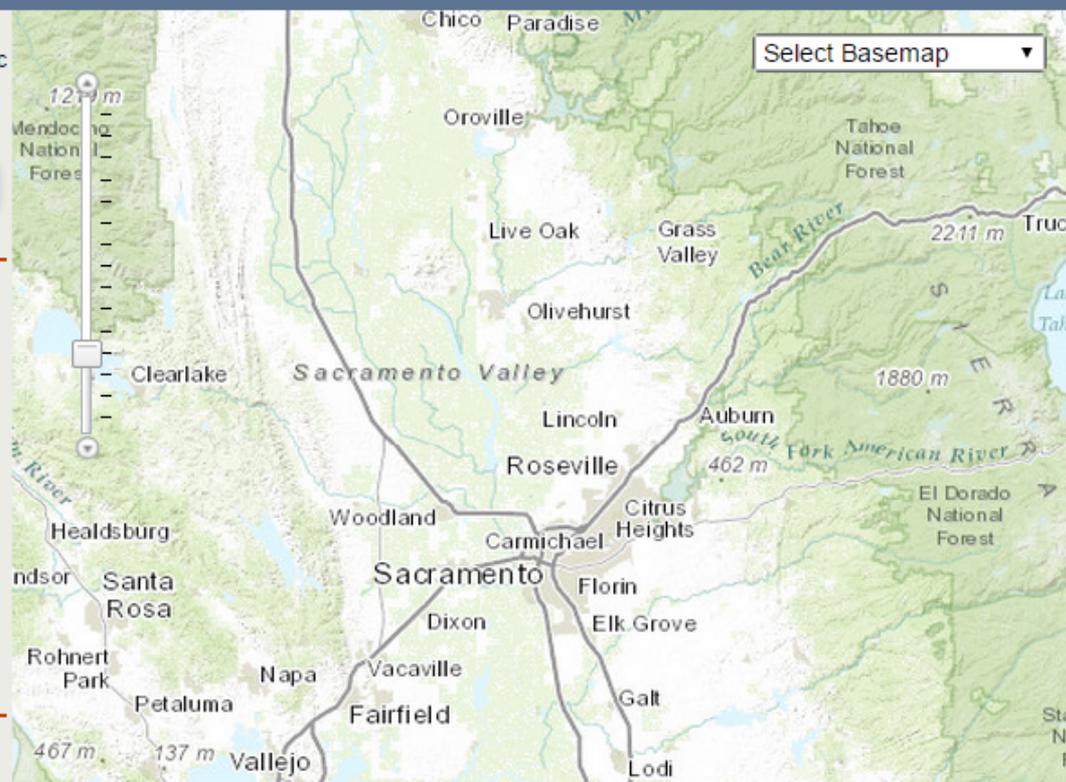
To find monitoring stations for a specific area, enter the placename or zip code into the text box below

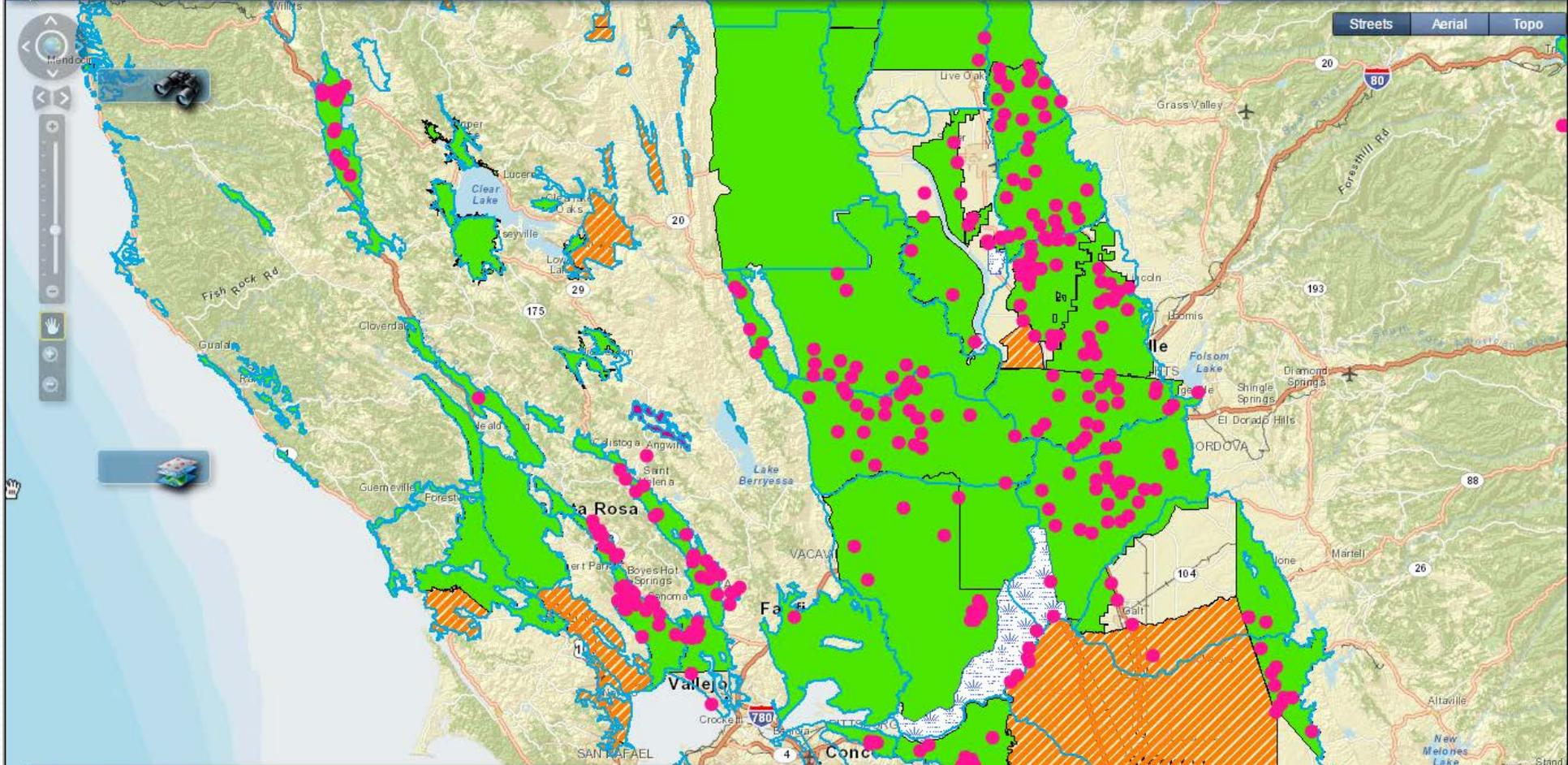
Site Type

Select the desired site type using the checkboxes

- Groundwater Level
- Water Quality
- [Include Historic Data](#)
- Continuous Data
- = Multiple Stations at one Location
- = Cluster, showing number of stations

Cursor Coordinates (WGS84)





Well Search Results

Local Well Number	State Well Number	CASGEM Station ID	Monitoring Entity	Basin Name/Num	Well Use	CASGEM Well	Total Well Depth
Ukiah Valley-9	16N12W09J001	392572N123190f	Department of V	Ukiah Valley-1.5	Unknown	Yes	133
MW 1-3		388604N121354f	City of Lincoln	North American	Observation	Yes	204
PI-5B	05N03E09L002N	382902N121647f	Department of V	Solano-5-21.66	Observation	Yes	82