Interactive Web Applications that accept user input for Station ID(s), Group ID(s) support **AUTO-COMPLETE** feature that generates a drop-down list of possible matches for partial user entries.

API DOCUMENTS WEB-SERVICES DATA DOWNLOAD APPS   VERSION 3.4

Note: All Tabular data views support PDF, CSV and Excel downloads. Screen captures in this document show partial data which may not be current.

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ALLOWED HTTPS REQUESTS

POST: Update resource

GET: Get a resource or list of resources

WEB SERVICES OUTPUT DOWNLOAD FORMATS SUPPORTED

JSON, CSV and EXCEL.

DESCRIPTION OF USUAL SERVER RESPONSES

- 200 OK – the request was successful (some API calls may return 201 instead).
- 201 Created – the request was successful, and a resource was created.
- 204 No Content – the request was successful but there is no representation to return (i.e. the response is empty).
- 400 Bad Request – the request could not be understood or was missing required parameters.
- 401 Unauthorized – authentication failed or user doesn't have permissions for requested operation.
- 403 Forbidden – access denied.
- 404 Not Found – resource was not found.
- 405 Method Not Allowed – requested method is not supported for resource.
- 500 Internal Server Error

NAVIGATION BUTTONS TO SCROLL THROUGH OUTPUT DATA-VIEW

Earlier: To scroll through the hourly data for prior 12 hours with each click. Similarly, 30 days of daily data and 24 months of monthly data.
Later: To scroll back 12 hours of hourly data towards current data with each click. Similarly, 30 days of daily data and 24 months of monthly data.
Latest: shows the most current data.

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OUTPUT DATA-VIEW FOOTER BUTTONS FOR DOWNLOAD OPTIONS

Copy: To copy the data view into clipboard for paste.

Excel: Download data in the excel format for consumption.

CSV: Download data in CSV format for consumption.

PDF: Generate and download a PDF report.

DATA STRUCTURES FOR SPECIFIED DATE RANGE

Parameter start date: The Date starting point, inclusive. Both date and time are used. Can be null.

Parameter end date: The last date for data to be returned, inclusive. Both date and time are used. Can be null.

Parameter sensorNums: The String list of sensor numbers as a comma delimited string. Can be null.

Parameter stations: The String list of stations as a comma delimited string values. Can be null.

GET THE MATCHING STATIONS

Parameter stationId The String station ID to match.

Parameter durCode The String DurCode like M or D to match.

Return the List of matching stationData objects.

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HISTORICAL DATA SELECTOR

http://cdec.water.ca.gov/dynamicapp/selectQuery

selectQuery application facilitates to query real-time, daily and monthly data using the same form. It shows data in Pacific Standrad time in HTML tabular views and supports download in PDF, CSV and Excel formats.

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WEBAPP – GENERAL DATA DOWNLOAD

http://cdec.water.ca.gov/dynamicapp/wsSensorData

The General Data download application facilitates the download of current and historical data for single station or multiple stations (separated by comma). Same application helps to download real-time, 15 minutes, event, daily and monthly data. Supports JSON, CSV and Excel download formats.

CDEC Webservice JSON and CSV

General Data Download
Webservice Form for General Data Download * Real-time Data * Daily Data * Monthly Data

To get data in JSON and CSV formats:

1. Fill in the blanks (New feature auto-complete can help select station and Sensor from drop down lists and click "**View JSON Data or View CSV Data**".
2. **Single CDEC station or multiple stations are accepted separated by comma** (e.g. ORO, FOL, SHA).
3. In case of Multiple Stations, the drop down list will only show the common sensors:

Station ID(s)	comma delimited
Sensor Number:	▼
Start Date	2019-05-09 ✖ 🗓
End Date	2019-05-10 ✖ 🗓

[View JSON Data] [View CSV Data Now] [Download Excel (.xlsx) Data Now]

General Data

To get data in JSON or Comma-Separated Value (CSV) format:
Fill in a Station ID and click "**View JSON Data**" or "**Download CSV Data Now**".
Leave either date field blank for beginning or end of record.

NOTE: *Data is displayed in 4-digit year format.*
Dates, times, and output will always be Pacific Standard Time.

Note: All Tabular data views support PDF, CSV and Excel downloads. Screen captures in this document show partial data which may not be current.

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WEBAPP – SENSOR GROUP DATA DOWNLOAD

CDEC Sensor Group JSON and CSV Webservices

Group Data Download

Webservices Form for Group Data Download * Hourly Data * Daily Data * Monthly Data

To get data in JSON or Comma-Separated Value (CSV) format:

1. Please click here to lookup the SENSOR GROUP IDs currently available:
2. Fill in the blanks (New feature auto-complete can help select Sensor Group IDs from drop down list. Click **"JSON Data"** or **"CSV Data"** after selecting the radio button for **Download** or **View**.
   Leave either date field blank for beginning or end of record.

NOTE: Dates in the output are in Pacific Standard Time.

Group ID

Start Date   2019-05-09   ✖   📅

End Date   2019-05-10   ✖   📅

JSON Data   CSV Data   ◉ Download ○ View

General Data

Fill in a Group ID and click **"JSON Data"** or **"CSV Data"** after selecting the radio button for **Download** or **View**.
Leave either date field blank for beginning or end of record.

NOTE: Dates in the output are in Pacific Standard Time.

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LOOKUP STATION META DATA

http://cdec.water.ca.gov/dynamicapp/staMeta

To get information about a CDEC station or to find a CDEC Station ID:
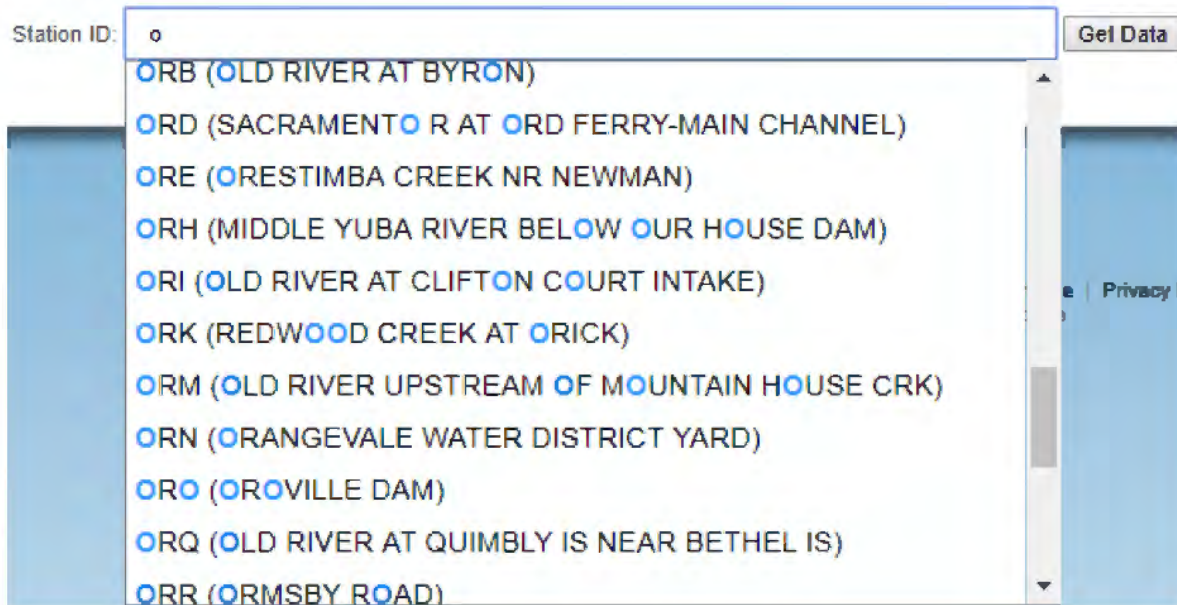
Station Meta data application shows all meta data related to a CDEC station as selected by users.

1. Specify three or more letters to search for all station names containing them.
2. Specify one or two letters to retrieve Station IDs that **begin** with what you specify.
3. Case is not significant.
4. Click the "**Get Data**" button only once.

Screen Captures:

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OROVILLE DAM

Map of surrounding area

Station ID	ORO		Elevation	900.0 ft
River Basin	FEATHER R		County	BUTTE
Hydrologic Area	SACRAMENTO RIVER		Nearby City	OROVILLE
Latitude	39.54°		Longitude	-121.493°
Operator	CA Dept of Water Resources/O&M Oroville Field Division		Data Collection	MULTIPLE

Additional types of information: | Dam Information | Reservoir Information

The following data types are available online. Select one of the links below to retrieve recent data.

Sensor Description	Sensor Number	Duration	Plot	Data Collection	Data Available
EVAPORATION, LAKE COMPUTED CFS, CFS	74	(daily)	(EVAP)	DATA XCHG-DWR O&M	10/01/1994 to present
FULL NATURAL FLOW, CFS	8	(daily)	(FNF)	COMPUTED	04/21/1985 to present
PRECIPITATION, ACCUMULATED, INCHES	2	(daily)	(RAIN)	COMPUTED	10/01/2003 to present
PRECIPITATION, INCREMENTAL, INCHES	45	(daily)	(PPT INC)	DATA XCHG-DWR O&M	01/01/1987 to present
PRECIPITATION, INCRMNT 4A-4A, INCHES	203	(daily)	(PPTINC4)	DATA XCHG-NWS	10/01/2013 to present
RES, ABV TOP OF CONSERV STOR, AF	200	(daily)	(ABV TOC)	COMPUTED	01/01/2010 to present
RESERVOIR ELEVATION, FEET	6	(daily)	(RES ELE)	COMPUTED	02/14/1985 to present
RESERVOIR INFLOW, CFS	76	(daily)	(INFLOW)	DATA XCHG-DWR O&M	01/01/1994 to present
RESERVOIR OUTFLOW, CFS	23	(daily)	(OUTFLOW)	DATA XCHG-DWR O&M	01/05/1987 to present
RESERVOIR STORAGE, AF	15	(daily)	(STORAGE)	COMPUTED	02/13/1985 to present
RESERVOIR, STORAGE CHANGE, AF	22	(daily)	(RES CHG)	COMPUTED	10/01/1993 to present
RESERVOIR, TOP CONSERV STORAGE, AF	94	(daily)	(TOC STO)	DATA XCHG-DWR O&M	10/20/2000 to present
RESERVOIR, SCHEDULED RELEASE, CFS	7	(event)	(REL SCH)	MANUAL ENTRY	10/01/1995 to present
BATTERY VOLTAGE, VOLTS	14	(hourly)	(BAT VOL)	SATELLITE	01/01/1995 to present
DISCHARGE, CONTROL REGULATING, CFS	85	(hourly)	(RIV REL)	DATA XCHG-DWR O&M	02/05/1998 to present
PRECIPITATION, ACCUMULATED, INCHES	2	(hourly)	(RAIN)	SATELLITE	01/01/1984 to present
RESERVOIR ELEVATION, FEET	6	(hourly)	(RES ELE)	SATELLITE	01/01/1984 to present
RESERVOIR INFLOW, CFS	76	(hourly)	(INFLOW)	DATA XCHG-DWR O&M	01/23/1997 to present
RESERVOIR OUTFLOW, CFS	23	(hourly)	(OUTFLOW)	DATA XCHG-DWR O&M	02/06/1998 to present
RESERVOIR STORAGE, AF	15	(hourly)	(STORAGE)	COMPUTED	01/01/1984 to present
RESERVOIR STORAGE, AF	15	(monthly)	(STORAGE)	MANUAL ENTRY	10/01/1967 to present

Station comments:

04/16/2019	Transmission equipment repaired. Hourly data is back online as of 4/15/2019 10:00.
04/15/2019	Beginning 4/12/2019 16:00, reservoir elevation and storage are not transmitting correctly. Data is being flagged automatically.
12/26/2018	Reservoir elevation and storage reporting correctly starting 12/24/2018 at 10:00.
12/21/2018	Beginning 12/20/2018 14:00 reservoir elevation and storage are not transmitting correctly. Data is being flagged automatically.
02/23/2017	Outflow from Oroville includes all releases from the Oroville Dam (i.e.: Hyatt, spillway, low flow outlet), while River Release (RIV REL) pertains to the Oroville Complex as a whole which includes any releases from the Diversion Dam gates and Thermalito Afterbay River Outlet.
12/31/2014	Sensor for reservoir elevation has been repaired. Data from 12/30/14, 0900 is valid.
12/30/2014	Hourly elevation and storage data is invalid since 12/25/2014. Data is being flagged.

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CDEC STATION SEARCH

http://cdec.water.ca.gov/dynamicapp/damSearch

To list CDEC Stations by station name, sensor type, duration, status, geographic location, nearby city, river basin, hydrologic area, county, or operator:

1. Specify a three-letter CDEC Station ID or partial Station Name,
   or a Sensor Type, *or* a Duration Type, *or* an Status Type,
   or a pair of Latitude/Longitude values, *or* an Elevation values, *or* a Nearby City Name,
   or a River Basin Name, *or* a Hydrologic Area Name,
   or a County Name, *or* an Operator Name.
2. Select more criteria for a narrower search.
3. Select how you want the search results displayed.
4. Click the **Search** button only once.

Screen Shot:

Select One Or More Items For Search		
Search By	Search Criteria	Where Equivalent To Search Key
☐	Station ID/Name:	
(And) ☐	Sensor Type:	% UP 01 (211) ▼
(And) ☐	Collection Type:	NONE SPECIFIED ▼
(And) ☐	Duration:	⦿ Any Duration ○ Event ○ Hourly ○ Daily ○ Monthly
(And) ☐	Status:	⦿ Any status ○ Active stations only ○ Discontinued stations only
(And) ☐	Longitude: / Latitude:	>= ___ And <= ___ (example: 120.25) / >= ___ And <= ___ (example: 39.75)
(And) ☐	Elevation:	>= -5 And <= 99000 (example: 500 feet)
(And) ☐	Nearby City:	
(And) ☐	River Basin:	NONE SPECIFIED ▼
(And) ☐	Hydrologic Area:	NONE SPECIFIED ▼
(And) ☐	County:	NONE SPECIFIED ▼
(And) ☐	Operator ID/Name:	Alameda County ▼
Display Sorted By	Station ID ▼	Search For CDEC Stations

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LOOKUP TABLES AND URL REFERENCES

FOR MORE LISTING REPORTS PLEASE REFER TO STATIONS PAGE

http://cdec.water.ca.gov/staInfo.html

DATA FLAG DEFINITIONS

http://cdec.water.ca.gov/reportapp/javareports?name=FlagList

Data Flag Definitions

July 22, 2019

Report generated: July 23, 2019 16:04

DATA FLAG DEFINITIONS SORTED BY DATA FLAG	
DATA FLAG	**FLAG DESCRIPTION**
	No Flag
A	Precipitation accumulation
L	Waiting for observer response
N	Error in data
e	Estimated
q	New rating table
r	Revised
s	New shift started
t	Trace of precipitation
v	Out of Valid Range

Sensor Definitions

http://cdec.water.ca.gov/reportapp/javareports?name=SensList

Reservoirs Information

http://cdec.water.ca.gov/reportapp/javareports?name=ResInfo

Active Daily Reporting Stations

http://cdec.water.ca.gov/reportapp/javareports?name=DailyStations

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Active Monthly Unimpaired Flow Stations

http://cdec.water.ca.gov/reportapp/javareports?name=MonthlyFNF

Active Snow Depth sensors in California

http://cdec.water.ca.gov/reportapp/javareports?name=SnowDepth
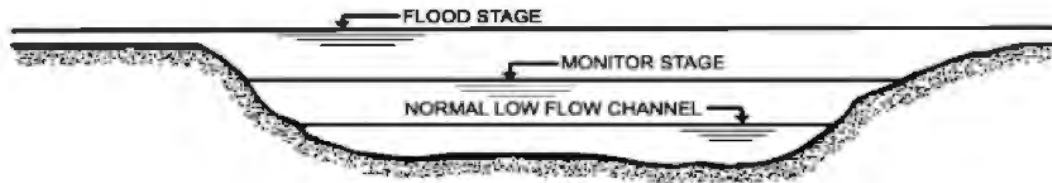
River Stage Definitions

http://cdec.water.ca.gov/stageInfo.html


River Stage Definitions

MONITOR - FLOOD - DANGER STAGES

CROSS SECTION - TYPICAL NON-LEVEED STREAM

MONITOR STAGE - The Stage at which initial action must be taken by concerned interests (livestock warning, removal of equipment from lowest overflow areas, or simply general surveillance of the situation). This level may produce overbank flows sufficient to cause minor flooding of low-lying lands and local roads.

FLOOD STAGE - The Stage at which overbank flows are of sufficient magnitude to cause considerable inundation of land and roads and/or threat of significant hazard to life and property.
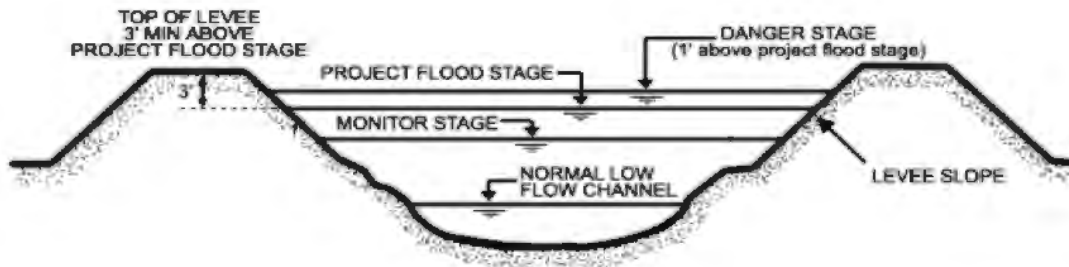
CROSS SECTION-TYPICAL LEVEED STREAM

MONITOR STAGE - The Stage at which patrol of flood control project levees by the responsible levee maintaining agency becomes mandatory, or the Stage at which flow occurs into bypass areas from project overflow weirs.

PROJECT FLOOD STAGE - The Stage at which the flow in a flood control project is at maximum design capacity (U.S. Corps of Engineers "Project Flood Plane"). At this level there is a minimum freeboard of 3 feet to the top of levees.

DANGER STAGE - The Stage at which the flow in a flood control project is greater than maximum design capacity and where there is extreme danger with threat of significant hazard to life and property in the event of levee failure. This is generally 1 foot above project flood stage.

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