

# User Guide - WQCD Temperature Logger Interactive Map

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Source: Colorado Department of Public Health and Environment (CDPHE)  
Water Quality Control Division (division)  
Watershed Section

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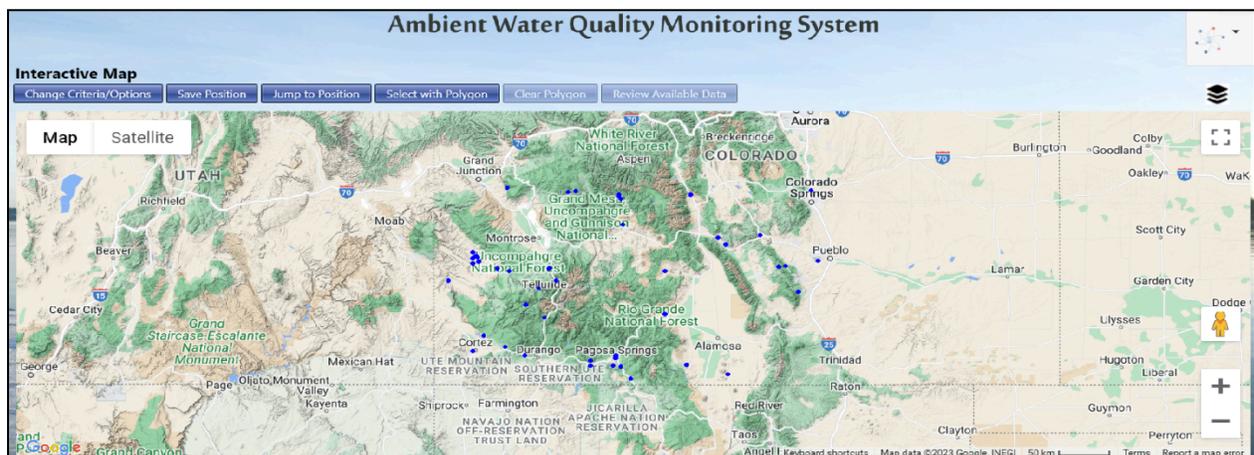
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## 1. Introduction

The Ambient Water Quality Monitoring System (AWQMS) interactive map feature allows users to select one or more stations and download available temperature data to a Microsoft Excel spreadsheet. AWQMS is a data management system for ambient water quality data. It was specifically designed for compatibility with EPA's Water Quality Exchange (WQX).

## 2. URL

<https://cdphe.gselements.com/Login.aspx?userLoginName=WQCD-TEMPERATURE&dataAnalysisCriteriaSetUid=1124>



### 3. Map Navigation

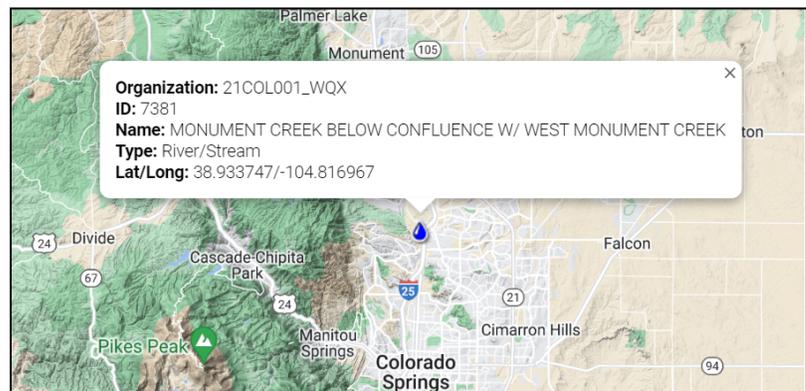
#### 3.1. General Navigation

From the interactive map screen, the user can zoom in and out by using the mouse scroll wheel or the Zoom In (+) or Zoom Out (-) buttons in the lower right of the map screen. To move the map, click and hold the left mouse button and drag the map to a new place. Panning allows the user to scroll the map in any direction.

The interactive map only displays sites with temperature data. When the interactive map is initially opened, the map will automatically center on the spatial extent of those sites. Hence, the state may not be shown in its entirety unless the user manually zooms the map out. Optionally, the user may select the **“Jump to Position”** button from the interactive map menu to zoom out to the whole state.

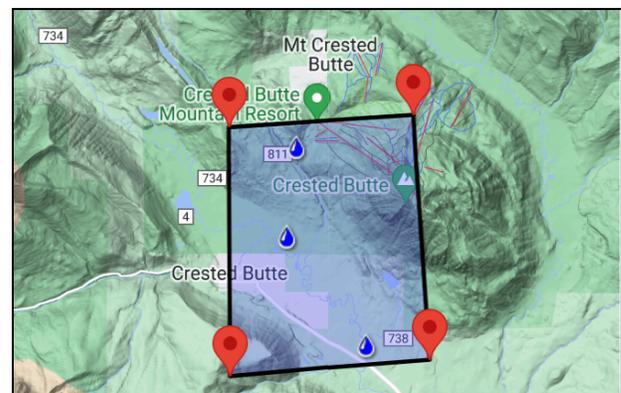
#### 3.2 Selecting One Site

From the interactive map screen, use the mouse scroll wheel to zoom to a specific site of interest. As the map zooms in, the blue circles will change into blue-colored tear drops. Hover the mouse pointer on the tear drop. A popup window will appear showing the organization and site details.



#### 3.3 Selecting Multiple Sites

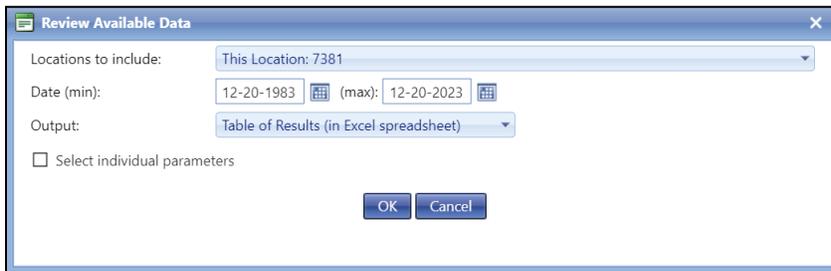
From the interactive map screen, use the mouse scroll wheel to zoom to a specific area of interest. From the interactive map menu, select the **“Select with Polygon”** button. Using the mouse pointer, click on the map in close proximity to the sites of interest. Continue to click on at least two or more points to create a polygon shape around the sites.



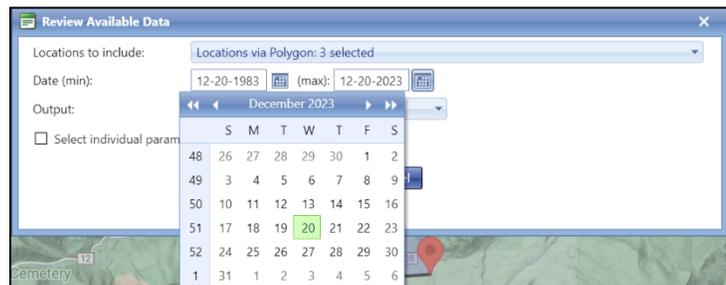
## 4. Reviewing and Downloading Available Data

### 4.1 One Site

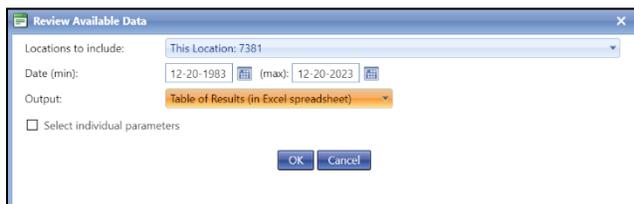
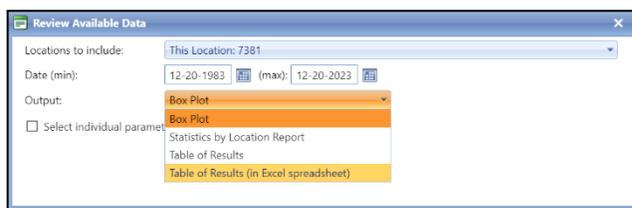
Once a site is identified, left mouse click on the blue-colored tear drop. The **Review Available Data** window will open.



The minimum (min) and maximum (max) dates default to a 40-year period of record. The max date is the present date and the min date is exactly 40 years previous to the present date. The user may narrow the search by opening the calendar popups, adjacent to each date, and changing the dates to the user's preference.



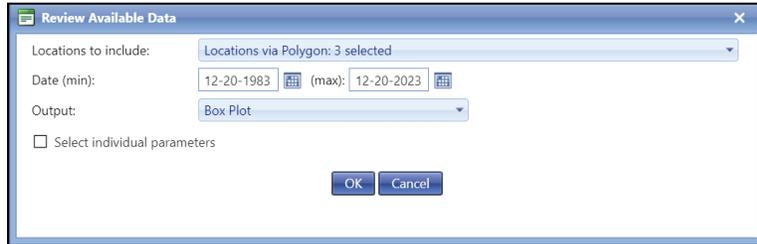
Once the dates are selected, left mouse click the drop arrow in the **Output** selection box to select **Table of Results (in Excel spreadsheet)**.



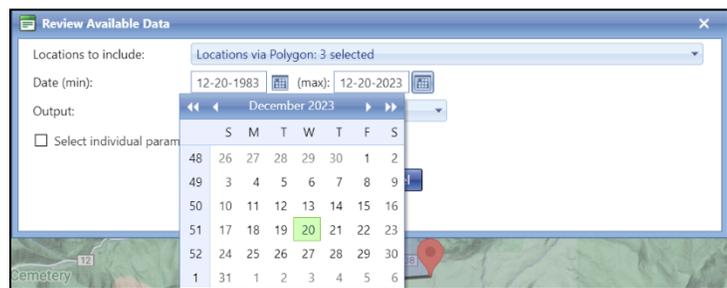
Left mouse click the **“OK”** button to download the Excel spreadsheet to your computers Downloads folder. Click on the **“X”** to close the window. The user may continue to navigate the interactive map or close the browser tab.

## 4.2 Multiple Sites

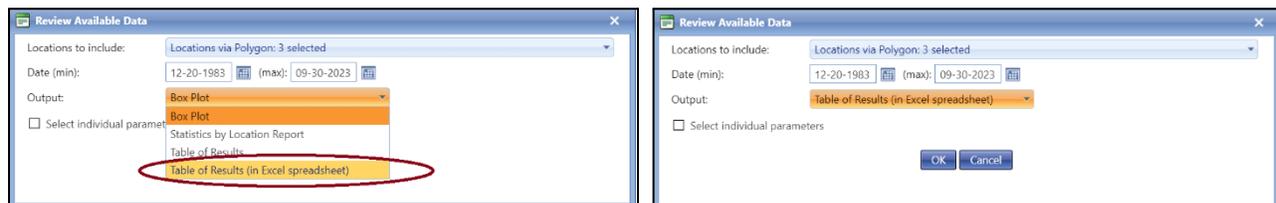
Once multiple sites are selected from a drawn polygon, select the **“Review Available Data”** button from the interactive map menu. The **Review Available Data** window will open.



The minimum (min) and maximum (max) dates default to a 40-year period of record. The max date is the present date and the min date is exactly 40 years previous to the present date. The user may narrow the search by opening the calendar popups, adjacent to each date, and changing the dates to the user’s preference.



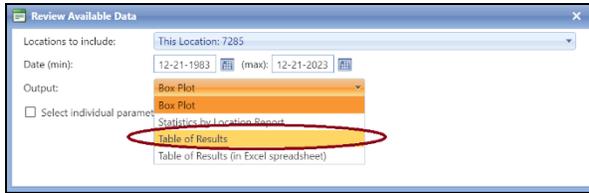
Once the dates are selected, left mouse click the drop arrow in the **Output** selection box to select **“Table of Results (in Excel spreadsheet)”**.



Left mouse click the **“OK”** button to download the Excel spreadsheet to your computers Downloads folder. Click on the **“X”** to close the window. Left mouse click the **“Clear Polygon”** button on the interactive map menu to clear the polygon. The user may continue to navigate the interactive map or close the browser tab.

## 4.3 Table of Results

To view a table of results, without downloading, left mouse click the drop arrow in the **Output** selection box to select **“Table of Results”**. Left mouse click the **“OK”** button to open the table. Click on the **“X”** to close the window.



Mon. Loc. ID	Mon. Loc. Name	Activity ID	Activity Type	Media	Media Sub.	Date	Time	Parameter	Fraction	Statistic	Value	Units
7285	BOGGS CK. @ HWY 96 ABV PUEBLO RES.			Water		10-22-2012	01:45:00 PM	Temperature, water			22.393	deg C
7285	BOGGS CK. @ HWY 96 ABV PUEBLO RES.			Water		10-22-2012	01:30:00 PM	Temperature, water			22.202	deg C
7285	BOGGS CK. @ HWY 96 ABV PUEBLO RES.			Water		10-22-2012	01:15:00 PM	Temperature, water			21.867	deg C

## 5. Troubleshooting

It is not recommended to select the **“Change Criteria/Options”** button on the interactive map menu. See illustration below on the left.



The **“Organizations & Locations Search Criteria”** and **“Other Search Criteria”** buttons below the main menu row are the default search criteria for the organization (CDPHE) and period of record (dates) as previously discussed in Sections 3 and 4 of this tutorial. These defaults are protected and cannot be changed by the user. See illustration above on the right.

It is not recommended to select the **“Default Search Criteria”** or **“Create Map”** buttons on the main menu row. These are default presets for the temperature map. Due to the proprietary settings of the interactive map, the default search criteria and map creation features are unprotected and may be (de)selected or modified further by the user. However, those actions are unsupported by this tutorial. Therefore, it not advisable to proceed further into those menu options.

To return to the main interactive map, left mouse click the **“Return”** button, pan the mouse pointer over the **Map** tab and select **Colorado Continuous Temperature Data** button. Optionally, the user may open a new browser and enter the URL from Section 2 into the browser search bar.

## 6. FAQs

**Question:** Will more continuous temperature data be added to AWQMS?

**Answer:** Yes. The division periodically adds more temperature logger data to AWQMS once the data is validated.

**Question:** Is the time-based incremental data also stored in U.S. EPA’s Water Quality Exchange (WQX)?

**Answer:** No. The division’s incremental data is summarized as monthly min, mean, and max in WQX.

