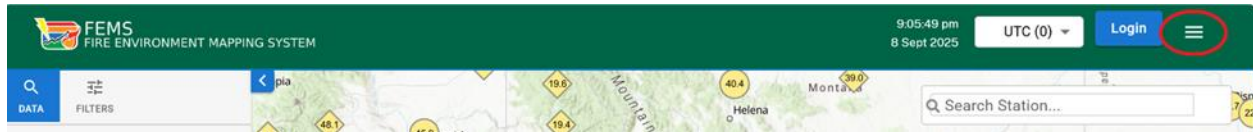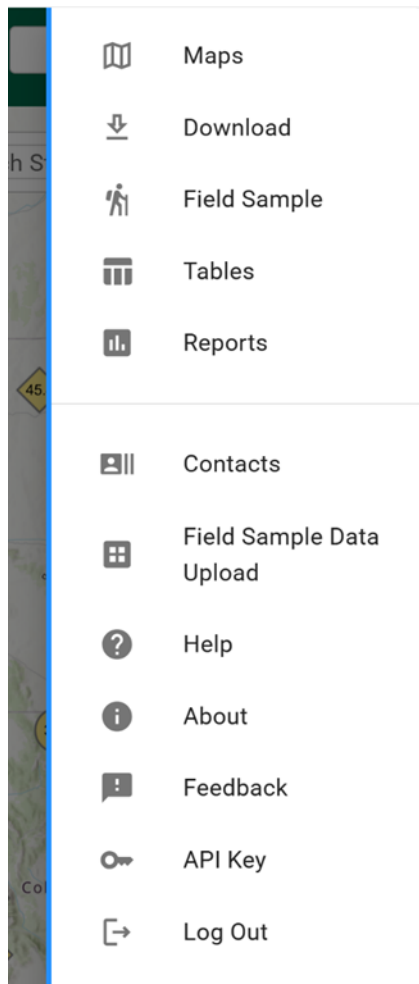# FEMS Weather Module

Fire Environment Mapping System (FEMS) is a map-based application that displays Weather, Fire Danger and Field Samples. Navigation is based on a series of buttons, check boxes and sliders:
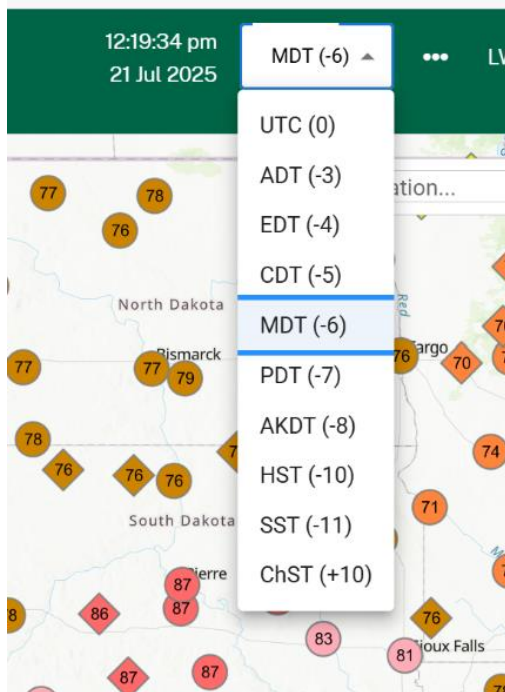
1. Click on the "Hamburger" icon in the upper right:

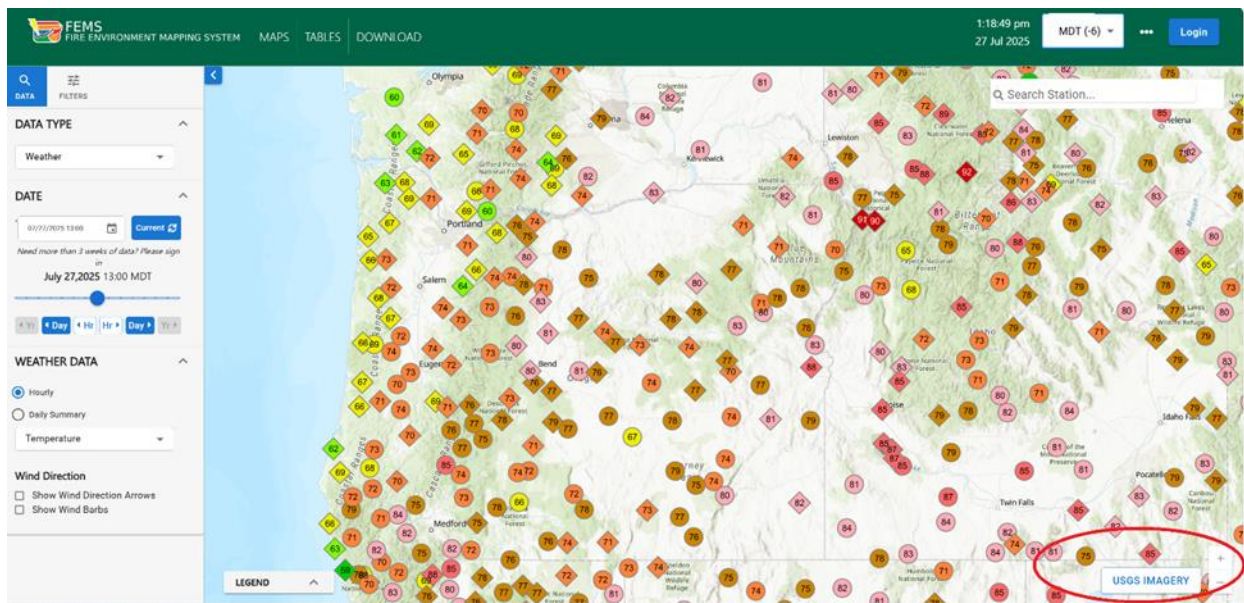2. A list of menu options will appear; selections will vary with user roles:

3. Data can be displayed in UTC or Standard Time:

Map View

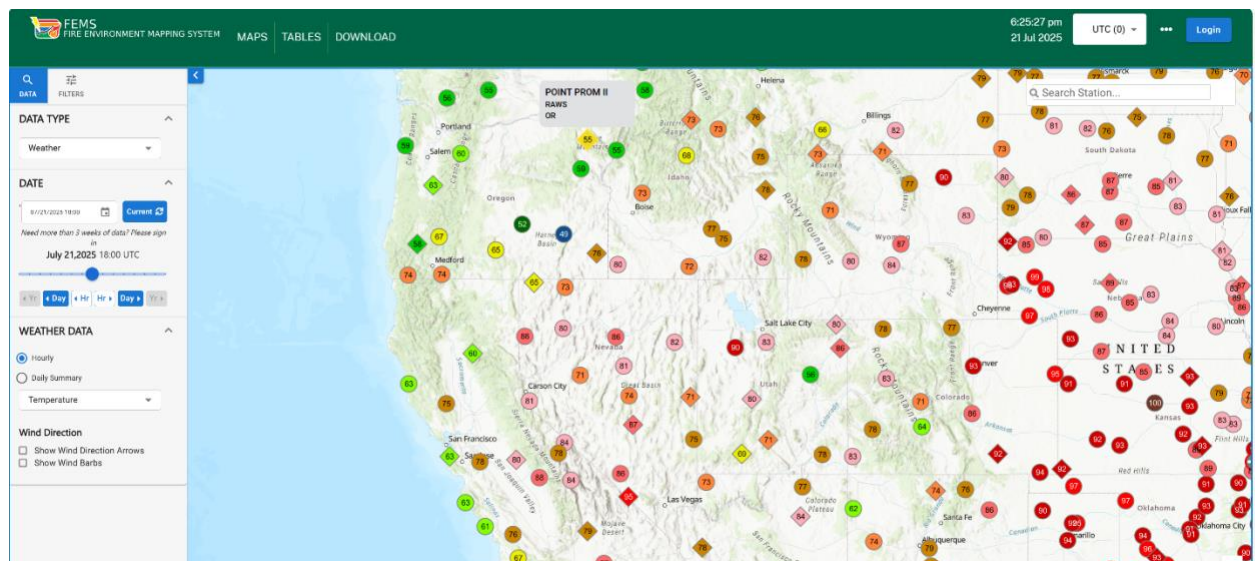Two options are available for viewing the map.

World Topo is the default.

Clicking on the "USGS IMAGERY" label will change the map.

Selections on the left side will determine the map data displayed:
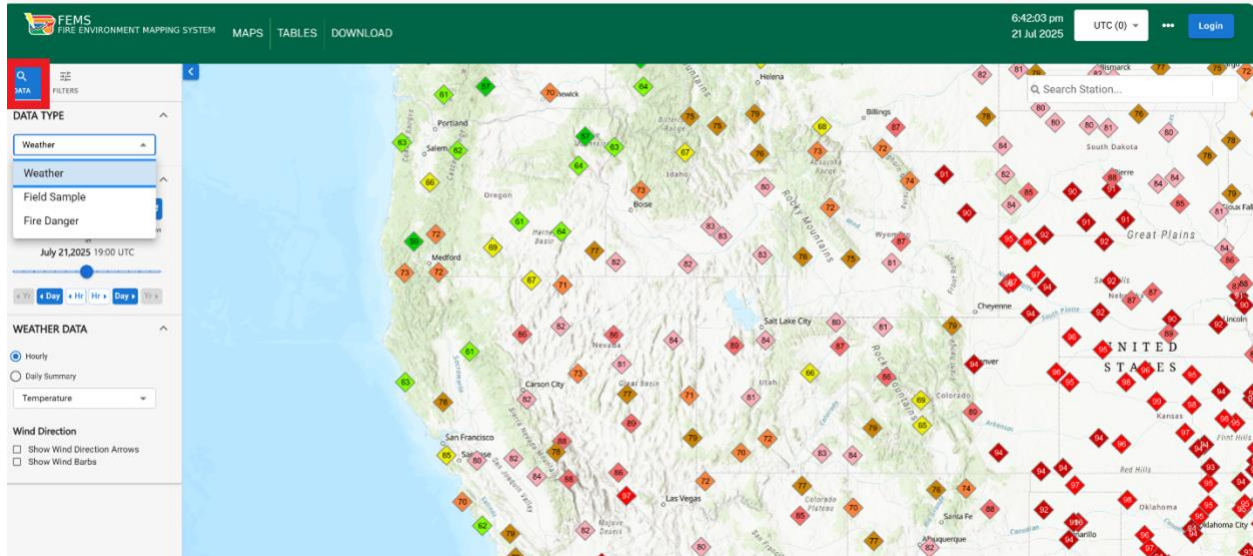

Zoom Capability, the map can be enlarged to locate the desired area or weather station.
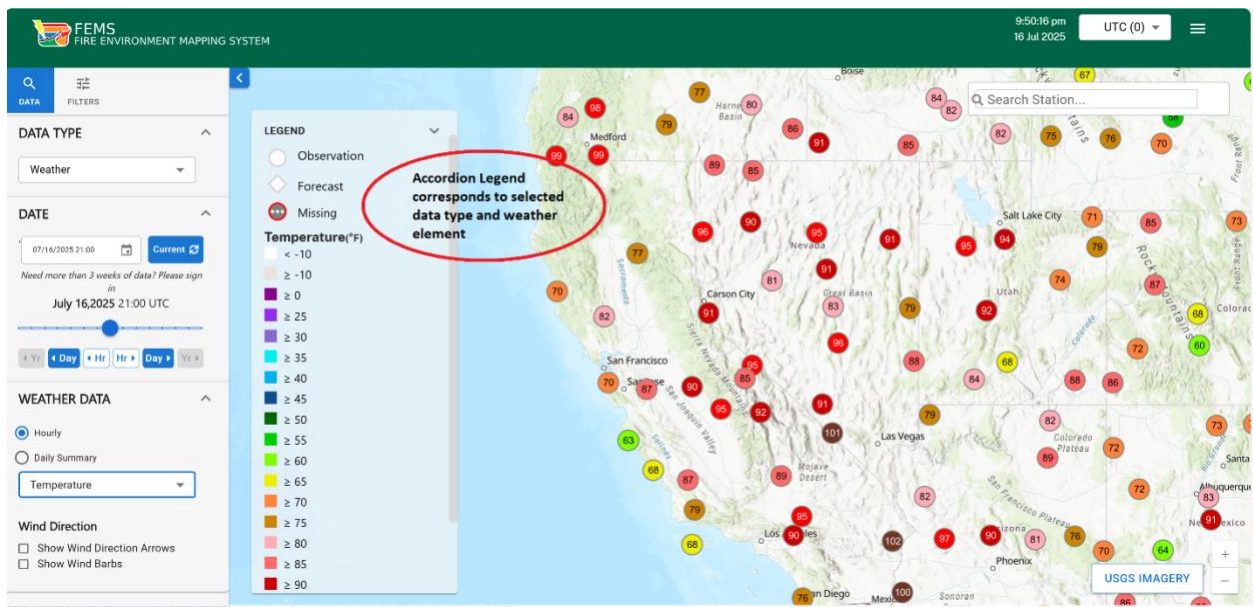
Data Tab:

Under the "Data" tab, accordion menus and radial buttons will aid selections:
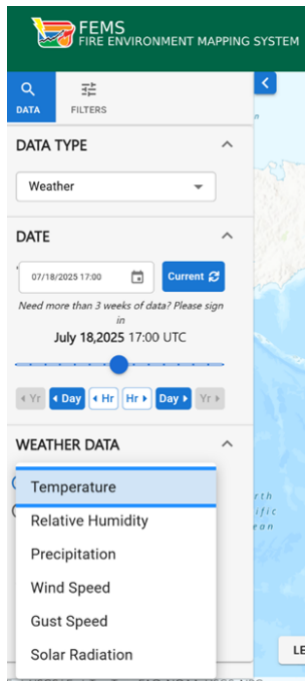
The Legend corresponds to the selected data type and element:


Available selections will depend on the data type selected. Here, "Weather" is the selected data type. The list of elements available for view on the map are located in the dropdown:

Weather is available hourly or daily.

A specific date range can be requested. Public users will be able to view the previous 14 days of observations and seven days forecasts. Authorized users will have access to the full range of station data.

Options exist for viewing the wind directions, as either arrows or barbs.
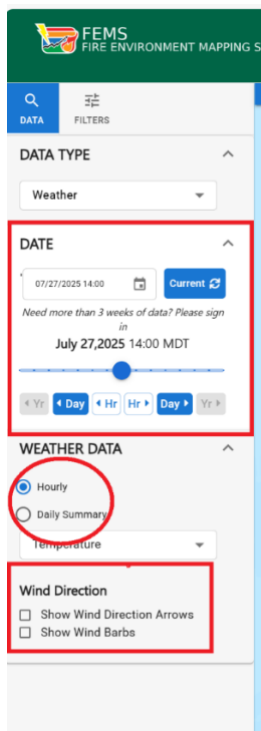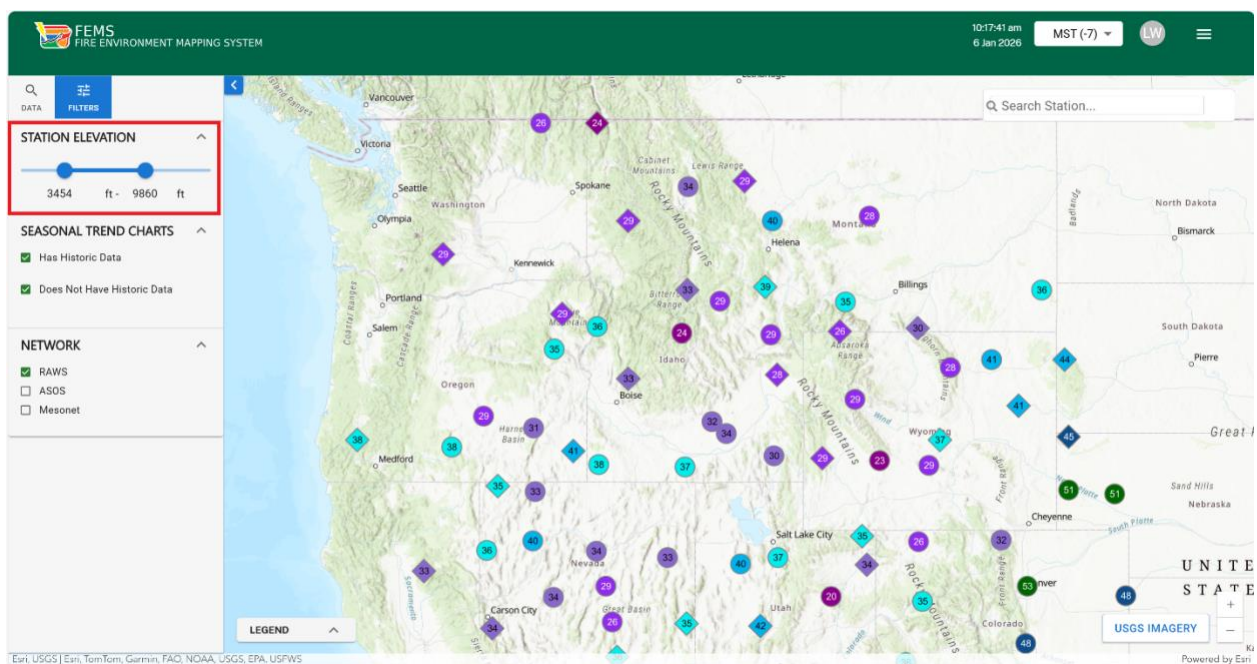
Filter Tab:

Under the "Filter" Tab there are several filter options to narrow the stations displayed.
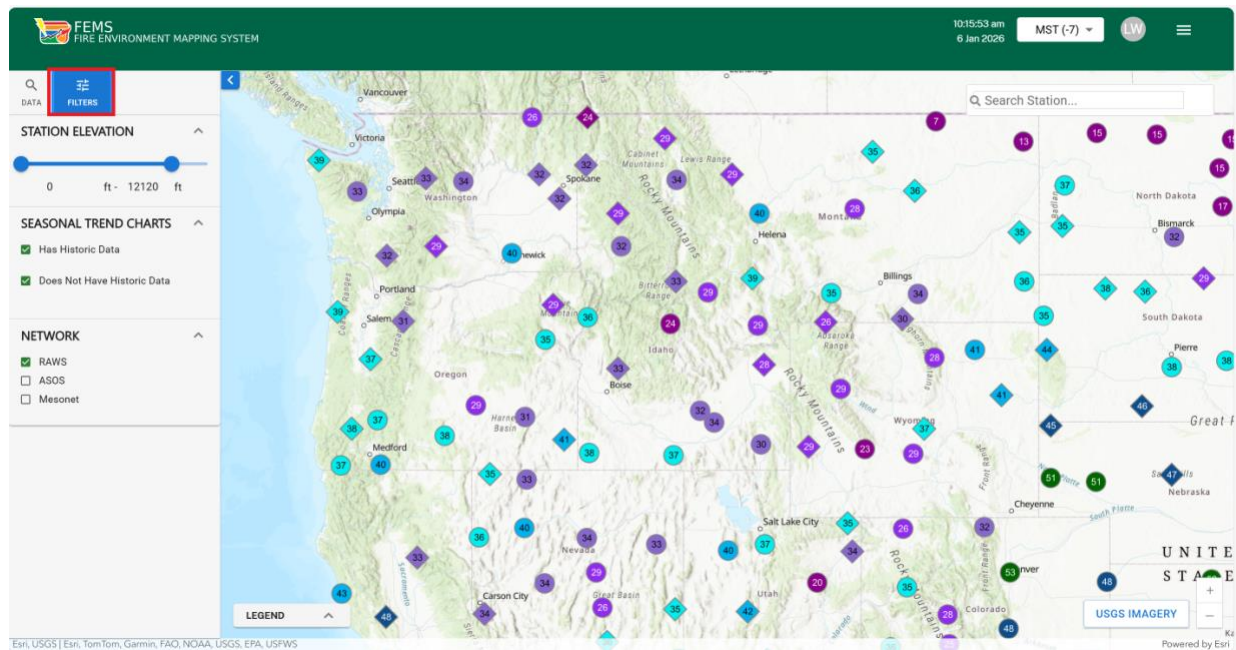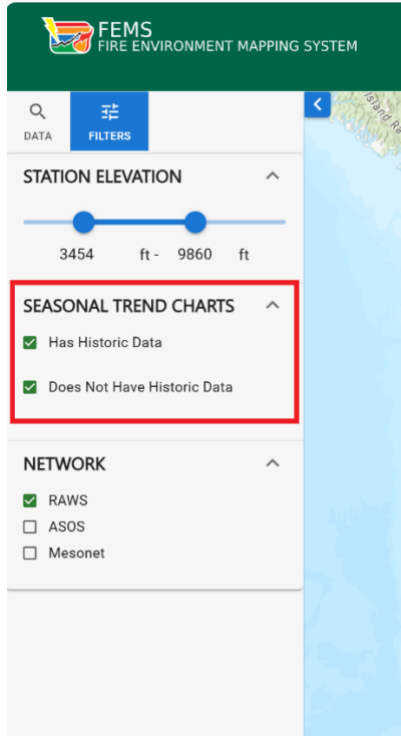

"*Station Elevation*" can be adjusted to only display stations at a desired elevation by adjusting the slider bar.

"*Seasonal Trend Charts*" check boxes filter out stations with or without historical data.

"*Networks*" check boxes will display only the selected networks.
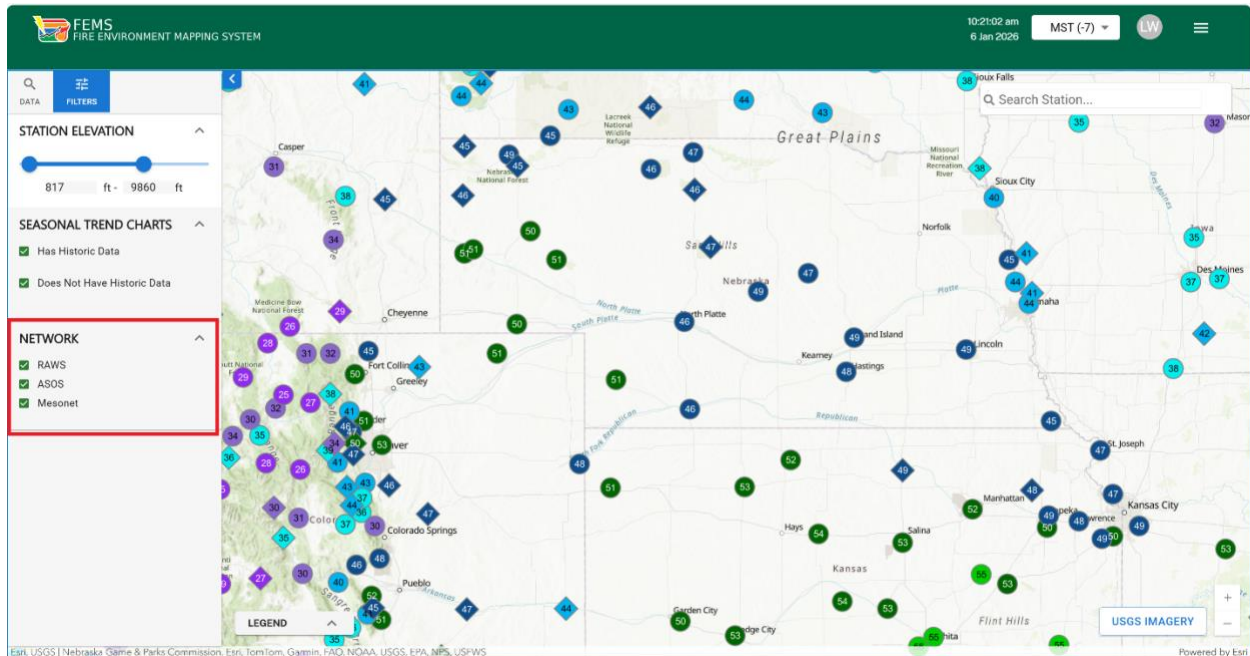
Dynamic Search:

The dynamic search function can be used to display the desired weather stations:

To display the weather data, click on the weather station icon. All weather elements will be displayed. The table format is the default display.

Solid lines indicate actual observations. Dotted lines delineate forecasted observations.
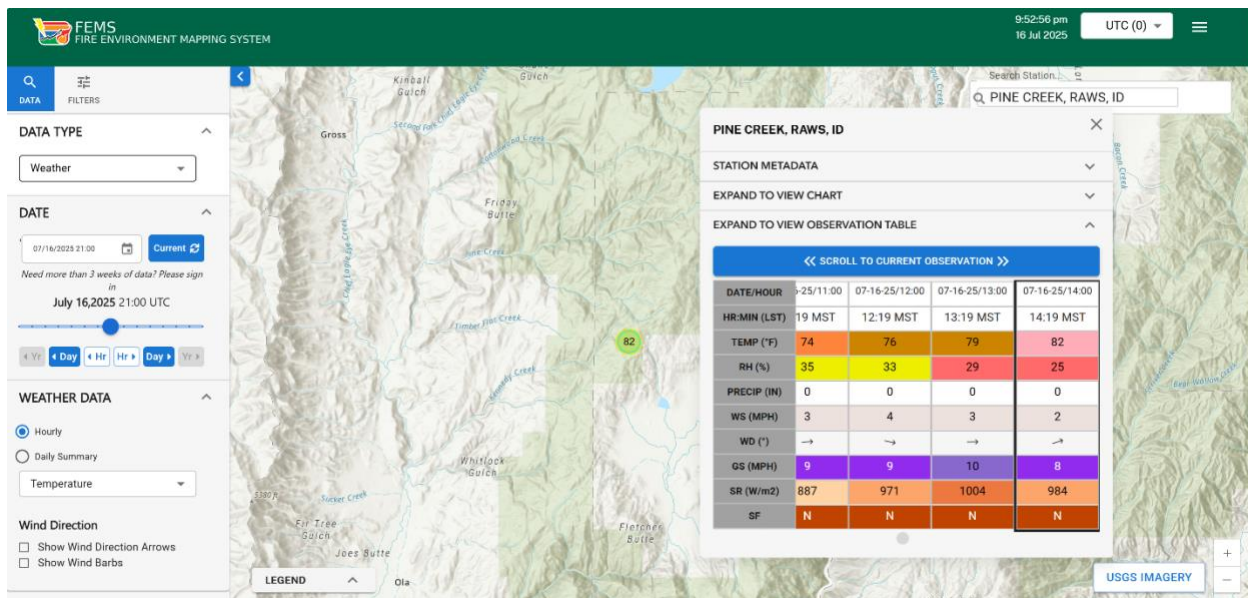
Chart and Station Metadata:

Options are available to view the data in chart form as well as the Station Metadata by clicking the down carrots.
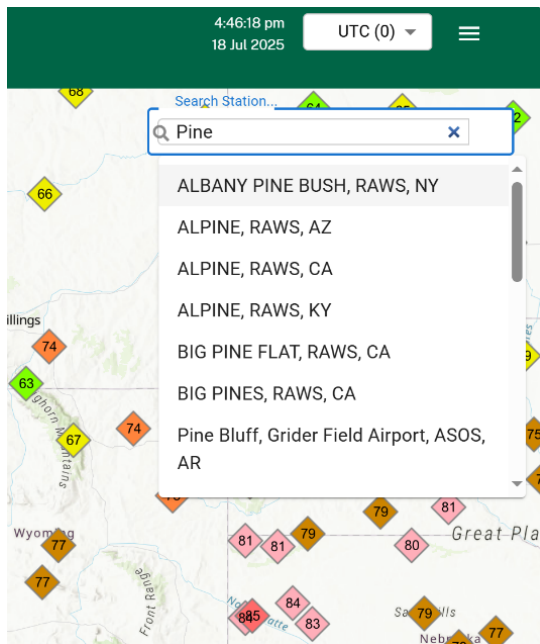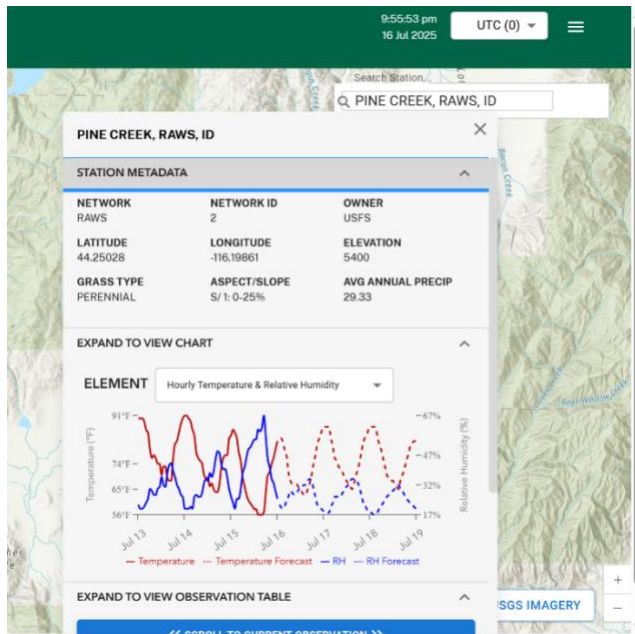

Data Download

Additional weather data is available as a Data Download.

1. Click on the "Hamburger" icon to open the Menu:

2. Select the "Download" option in the menu:

3. Select "Weather" as the Data Subject Area:

4. Select desired Data Set:

FEMS Data Download

Options to refine your download will appear as you make selections.
Changes to selections may impact your available options and selections.

Data Subject Area *Required*

Weather

Data Set *Required*

Select a Data Set
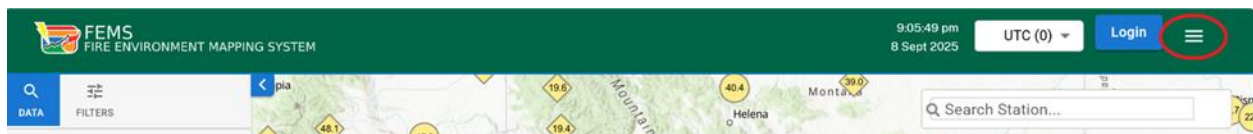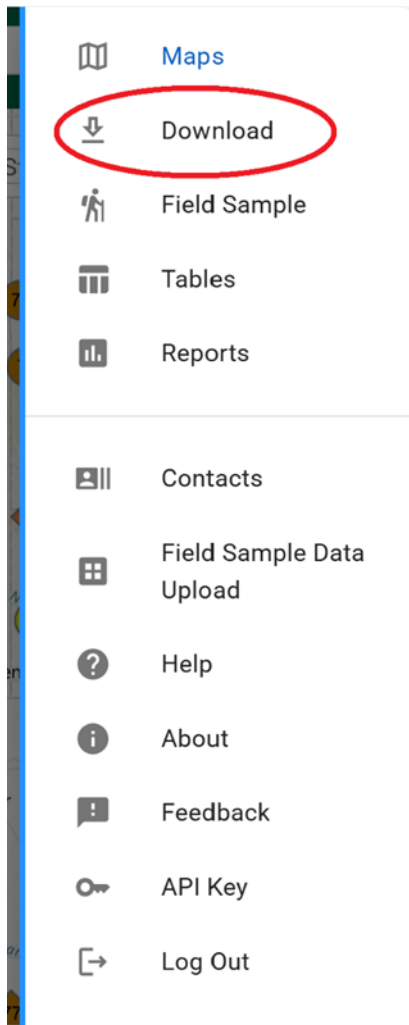
> Weather Observation
>
> Weather Forecast
>
> Weather Observation and Appended Forecast

Data Format *Required*

Select a Data Format

Date Range *Required*

Start Date

End Date

5. If "Hourly" is selected, FW21 is available as a "Data Format":

FEMS Data Download

Options to refine your download will appear as you make selections.
Changes to selections may impact your available options and selections.

Data Subject Area *Required*

Weather

Data Set *Required*

Weather Observation

Date Time Frequency *Required*

○ Daily
● Hourly

Data Format *Required*

FW21 (LST - Local Standard Time)

> FW21 (LST - Local Standard Time)
>
> CSV (UTC)

Date Range *Required*

Start Date
08/27/2025

End Date
09/10/2025

6. Select the desired "Data Range".
7. Select the desired Station or Stations.

FEMS Data Download

Options to refine your download will appear as you make selections.
Changes to selections may impact your available options and selections.

Data Subject Area *Required*

| Weather | ▾ |

Data Set *Required*

| Weather Observation and Appended Forecast | ▾ |

Date Time Frequency *Required*

◉ Daily
○ Hourly

> (Daily) Maximum/Minimum data will be downloaded from midnight to midnight local station time.

Data Format *Required*

| CSV (LST - Local Standard Time) | ▾ |

> Time is adjusted to time zone of station but not adjusted for daylight savings.

Date Range *Required*

| Start Date | End Date |
| 06/02/2025 📅 | 08/01/2025 📅 |

[Previous 5 Days And 7-Day Forecast]

Selected Station(s) *Required*

| 🔍 Search All Stations... |

> - Only 1 station can be selected for requests greater than one year.
> - Up to 10 stations can be selected for requests between 2 weeks and one year.
> - Unlimited stations can be selected for requests less than 2 weeks.

These are your selected stations. Total stations selected: 1

| Pine Creek, RAWS, ID × |

Clear All

[Download Data] [Copy Data Link]

8. Data can be downloaded into a CSV file viewed in Excel or copied as a link for further analysis.

The Copy Data Link (CDL) replaces the WXML functionality in WIMS by generating an API.

Additional Resources:

Copy Data Link:
TechTip_Copy Data Link in FEMS.pdf

Using Copy Data Link in Excel:
TechTip- Using the Copy Data Link from FEMS in Excel.pdf

Using FEMS Get Data Manipulation (URL):
FEMS TechNote-2025-09-Get Data Manipulation.pdf