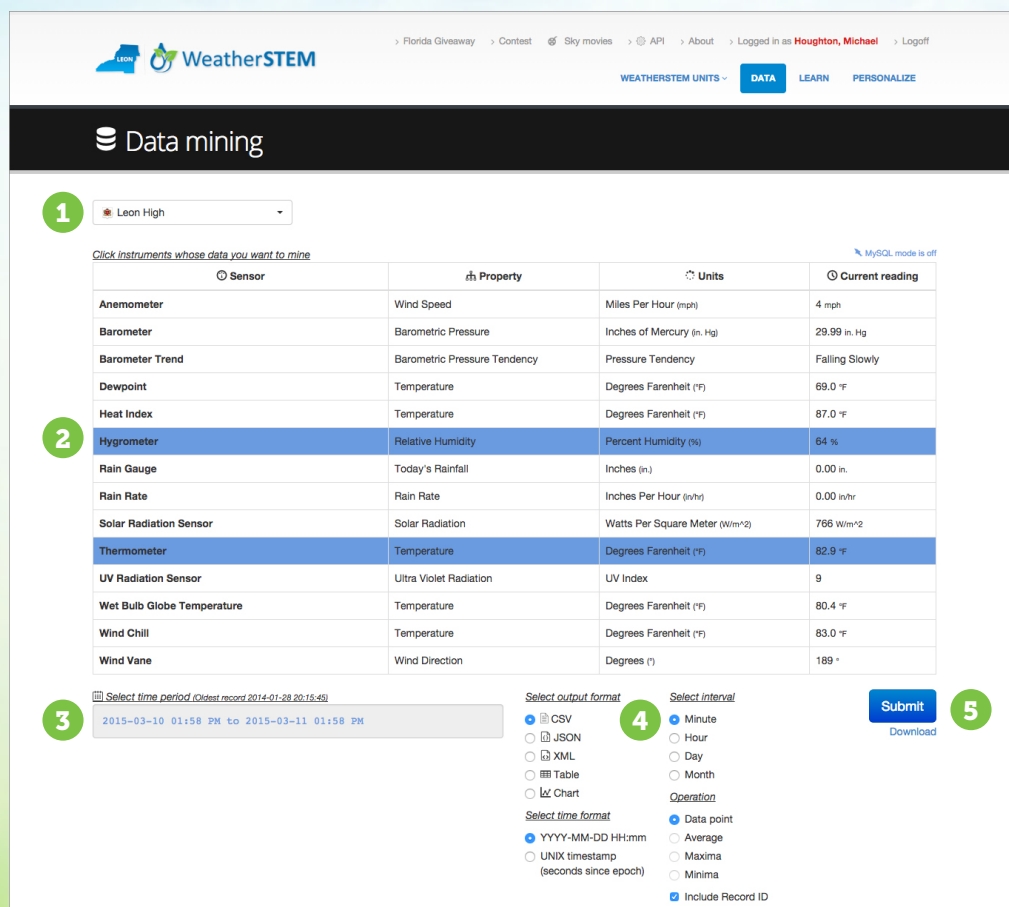




Getting Started Series

Data Mining

The “DATA” tab in the top menu loads the Data Mining tool. This powerful feature enables research into sensor readings from any station. There are five steps for exploring the data. The following diagram provides a quick overview of the process.*



1 **Step One**

Select the school or location for the WeatherSTEM Unit you would like to research. After your selection you will see a table of all the sensors at that location along with current readings.

2 **Step Two**

From the table of sensors and readings, select the sensor or sensors that you would like to use for data research.

Sensor	Property	Units	Current reading
Anemometer	Wind Speed	Miles Per Hour (mph)	4 mph
Barometer	Barometric Pressure	Inches of Mercury (in. Hg)	29.99 in. Hg
Barometer Trend	Barometric Pressure Tendency	Pressure Tendency	Falling Slowly
Dewpoint	Temperature	Degrees Fahrenheit (°F)	69.0 °F
Heat Index	Temperature	Degrees Fahrenheit (°F)	87.0 °F
Hygrometer	Relative Humidity	Percent Humidity (%)	64 %
Rain Gauge	Today's Rainfall	Inches (in.)	0.00 in.
Rain Rate	Rain Rate	Inches Per Hour (in/hr)	0.00 in/hr
Solar Radiation Sensor	Solar Radiation	Watts Per Square Meter (W/m²)	766 W/m²
Thermometer	Temperature	Degrees Fahrenheit (°F)	82.9 °F
UV Radiation Sensor	Ultra Violet Radiation	UV Index	9
Wet Bulb Globe Temperature	Temperature	Degrees Fahrenheit (°F)	80.4 °F
Wind Chill	Temperature	Degrees Fahrenheit (°F)	83.0 °F
Wind Vane	Wind Direction	Degrees (°)	189 °

3 **Step Three**

Select the time period for your data set. The default period is the past 24 hours. Data can be gathered from as far back as the day on which the WeatherSTEM Unit was first installed.

4 **Step Four**

Select the output format, time format, interval, and operation for your data.

5 **Step Five**

Click the “Submit” button to process the data. If you chose CSV, JSON, or XML as the output format, a file is created and can be opened via a “Download” link that will appear under the “Submit” button once the file has been created. Otherwise, you will see a pop-up showing a table or chart.

* The screen examples above are from the WeatherSTEM page for Leon County in Florida (<https://leon.weatherstem.com>), but these same steps work for all counties and locations.

Learn more at <https://www.weatherstem.com>