Onset®

Grains Per Pound Assistant

For HOBOware® Pro Software

User's Guide

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About Data Assistants

Data assistants are plug-in utilities for HOBOware Pro. They let you create new data series by combining data recorded by the logger with additional data that you enter before you display the plot.

If your logger or datafile contains data that supports a data assistant, you will see a Data Assistants section at the bottom of the Plot Setup dialog. Select an assistant and click **Process** to continue.

For information about installing and managing data assistants, refer to the following page at the Onset web site:
http://www.onsetcomp.com/dataAssistants

Using the Grains Per Pound Assistant

The Grains Per Pound Assistant calculates the absolute amount of water in the air, based on temperature, humidity, dew point, and altitude. You can also create an altitude-corrected dew point series. To create a grains per pound and altitude-corrected dew point series:

1. Read out a logger or open a datafile that contains temperature, humidity, and dew point series.

2. From the Plot Setup dialog, select **Grains Per Pound Assistant** and click **Process**.

The Grains Per Pound Assistant dialog will appear.
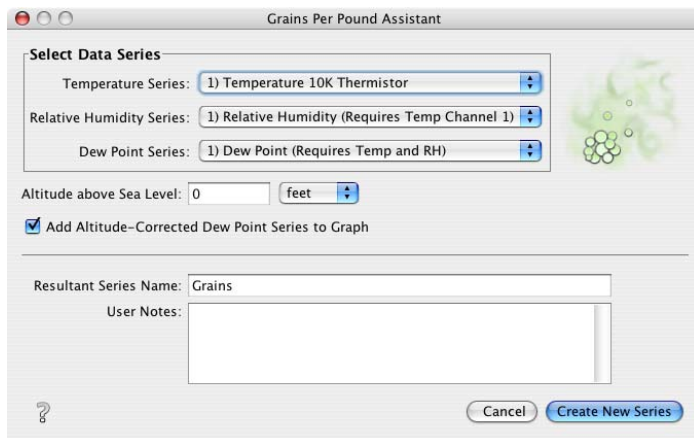
3. If your datafile includes multiple temperature, humidity, or dew point series, choose the series you want to use from the drop-down lists. (If your logger supports sensor locations, the location you entered will be displayed here.)

4. To correct for altitude (optional), enter the altitude in the **Altitude above Sea Level** box and use the drop-down to indicate whether this number is in feet or meters.
   NOTE : Your settings are retained, so you do not need to re-enter your altitude each time you use the Grains Per Pound Assistant.

5. If you want to see an altitude-corrected dew point series on the graph, check the **Add Altitude-Corrected Dew Point Series to Graph** box.

6. Keep the default **Resultant Series Name**, or enter a new one. You may also enter **User Notes** concerning the series you are creating.

7. Click **Create New Series**. The new grains per pound series (and altitude-corrected dew point series, if applicable) is listed and selected in the Plot Setup dialog.

8. You can click **Process** on the Plot Setup dialog again to create another series using different data series or altitudes.

9. Click the **Plot** button. The settings you entered will be displayed in the Details pane of the plot.
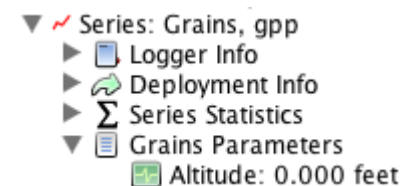
Available filters

After the plot is displayed, you may apply minimum, maximum, and average filters to the grains per pound and altitude-corrected dew point series as you would for any sensor data series in HOBOware Pro.