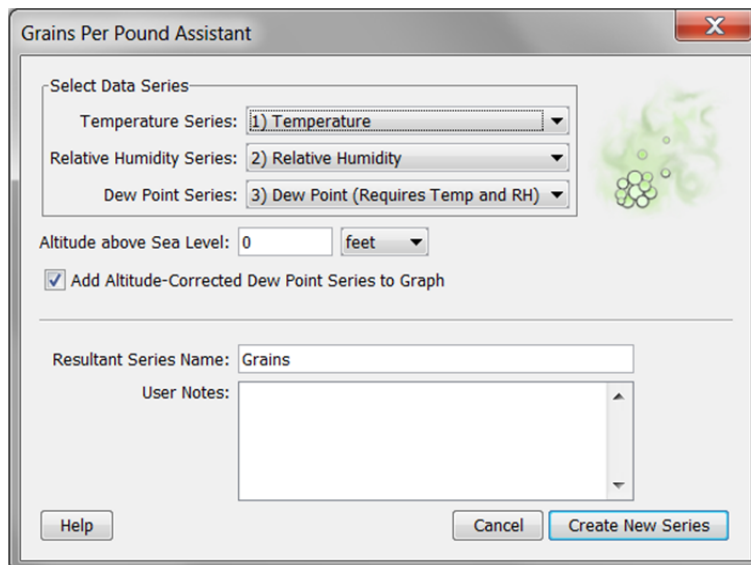# HOBOware® Pro Grains Per Pound Assistant User's Guide

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.
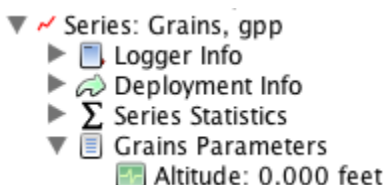
To create a grains per pound and altitude-corrected dew point series:

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

2. From the Plot Setup window, select the Grains Per Pound Assistant and click the Process button.

3. In the Grains Per Pound Assistant window, choose the data series you want to convert from the Temperature, Relative Humidity, and Dew Point Series drop-down lists.

4. To correct for the Altitude above Sea Level (optional), enter the altitude and use the drop-down menu to indicate whether this number is in feet or meters.

5. Select the Add Altitude-Corrected Dew Point Series to Graph checkbox to plot an altitude-corrected dew point series.

6. In the Resultant Series Name field, keep the default name or type a new one.

7. Type any User Notes concerning the series you are creating (optional).

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

9. Click the Plot button.

The scaled series will appear in the plot and the settings for the scaled series are listed in the Details pane:

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.