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Measuring the temperature within your orchard to check overnight temperatures to determine frost events!
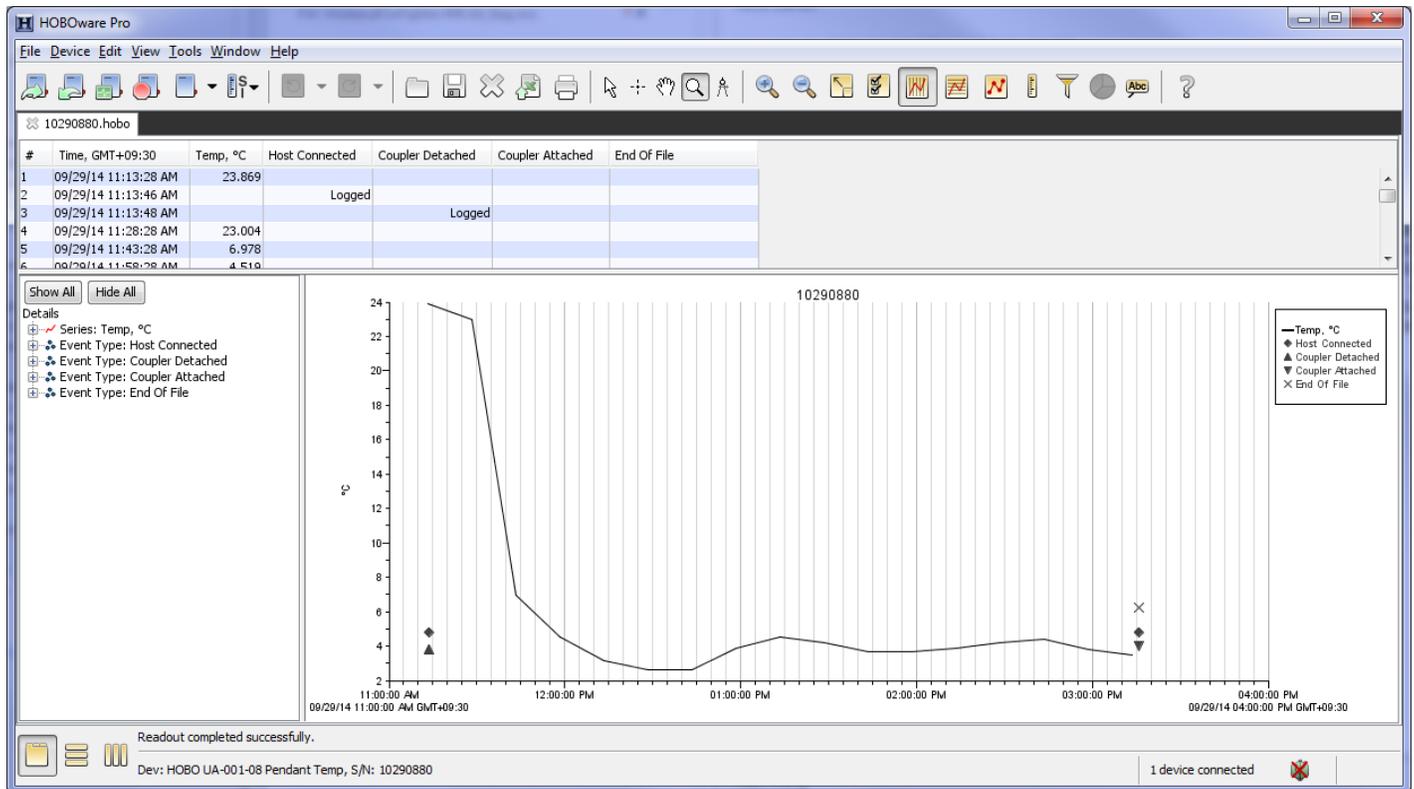
The Problem

You have an orchard and you are concerned about the overnight temperatures and how they will affect the yield and quality. You wish to monitor this to get an indication as to when frost events have occurred. So which logger do you use to do this that is cost effective and provides the data you require?

The Solution

For these requirements we recommend the HOBO UA Series Pendant temperature loggers as they are waterproof, reliable and easy to mount. They allow the user to record either 6500 readings (UA-001-08) or 52000 readings (UA-001-64) and then download them into the free Onset HOBOware software for review. This gives the user a good indication as to what is occurring over time within their orchard to establish when frost events may have occurred.

The other advantage of these options is that they feature a user replaceable battery so it is cost effective to use them over a number of years. At a 15 minute interval the battery lasts approximately 1 year so you can deploy them for a significant period without needing to worry the battery will go flat.

Within the software your data can be filtered to show daily minimums, hourly minimums etc to gain the best understanding as to what is occurring within your orchard. It can also be used just to establish readings over time and there is example data below showing data over time to give you a feel as to how HOBOware will output your data:

If you need assistance with selecting a logger to monitor your orchard please feel free to contact one of our friendly Scientists via email or phone on **1300 737 871**.

Recommended Products

UA-001-08 - Hobo Pendant Temp-Alarm Data Logger

A miniature one-channel temperature logger, this model is waterproof and value-priced for short-term shipping applications or year-long remote deployment. Logger alarm LEDs flash if temperatures have exceeded user-set levels and delay options, and provide visible verification that temperatures have been within the desired range throughout deployment. This 8K model stores approximately 6.5K of 10-bit temperature readings.

UA-001-64 - Hobo Pendant 64K Temp-Alarm Data Logger

A miniature one-channel temperature logger, this model is waterproof and value-priced for short-term shipping applications or year-long remote deployment. Logger alarm LEDs flash if temperatures have exceeded user-set levels and delay options, and provide visible verification that temperatures have been within the desired range throughout deployment. This 64K model stores approximately 52K of 10-bit temperature readings.

Required download interface:

Optic USB Base Station for Hobo Pendant- BASE-U-1

The Pendant Base Station and Coupler provide fast optical infrared (IR) communication for easy logger launch and readout of HOBO Pendant loggers. The Base Station connects via USB to a host computer, while the Coupler attaches the logger to the Base Station for communications.