

**Project: Micro Climate Monitoring**  
**Client: Far Niente Vineyard**  
**Location: Napa Valley, California**  
**Year: 1995**

**Application Notes:**

The Far Niente Winery produces a particular type of wine that is only made a few places in the world. This wine requires specific growing conditions for the grapes that are used to make it. The conditions produce a microclimate where a particularly rare type of mold grows on the grapes. The conditions for this mold to grow occur randomly and may not occur for several years. This means that this wine can be difficult to supply and therefore is very expensive. With the help of a local consultant, Far Niente management decided to see if they could create the microclimate needed to produce the grapes and mold for this special wine. If this could be done, then this wine could be produced on a more consistent basis and in larger quantities.



*Weather Station at Far Niente Vineyard.*

**Installation and System Design:**

Intermountain Environmental, Inc. installed a weather station in a selected section of the vineyard. The weather station consisted of a CR10X Data logger, with sensors for measuring air temperature and relative humidity (RH45), wind speed and direction (WS5103), precipitation (RG5256), and leaf wetness (LW237) at two levels.

The station was interfaced to a computer at the vineyard main office through a direct telephone line connected to a COM300 Synthesized Voice Modem. The consultant can also access the data from his office via the phone link. This allows each party to operate independently but use the same information.

Data is polled by the main office computer and loaded into a weather data management program for further evaluation.

For Information on this project or these products please contact:

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*Greg McCurdy performs final calibration and testing on weather station at Far Niente vineyard.*