

Project: Remote Climate and Evaporation Stations
Client: Kings River Water Conservation District
Location: Fresno, California
Year: 1995

Application Notes:

Kings River Water Conservation District had one existing weather station located along the Kings River above Fresno, California. They wanted to upgrade the existing station with newer data logger technology and also wanted to add a further station which was to be located at Pine Reservoir.

Installation and System Design:

Upgrading the upper Kings River weather station site was a fairly simple operation. The existing data logger was removed and a new one was programmed to measure the existing air temperature, relative humidity, wind speed, and wind direction sensors.

The site at Pine Reservoir required that the station be installed to a floating dock that is relocated as the reservoir decreases during the summer months and fills during the winter and spring. IEI personnel installed sensors to measure air temperature and relative humidity RH45, wind speed and wind direction WS5103, solar radiation SR200, and barometric pressure BP105.

Because the dock, that the weather station was mounted to, would be moved randomly throughout the year, it was also necessary to install an electronic compass that would measure magnetic north and then correct the wind direction reading based on the compass reading. This made it possible for the dock to be moved without requiring someone to realign the wind sensor each time.

For information on this project or these products please contact:

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*KRWCD personnel
downloading data from the
Pine Reservoir weather
station located on the
floating marina boat dock.*



*Upper Kings River Weather
Station Site*