

Squaw Valley and Alpine Meadows

Squaw Valley and Alpine Meadows Merge Operations and Weather Data



Case Study Summary

Location: Olympic Valley, CA

Participating Organization: Squaw Valley and Alpine Meadows ski resorts

Problem: When two major ski resorts merged their operations there was a need to merge their weather monitoring resources. In addition, the route for a high speed gondola between the two resorts needed to be studied.

Solution: Western Weather Group brought the data from the two resorts into their online weather database providing access to all the data from a single resource. To study the wind conditions on the mountain to determine the best route for the gondola, four weather stations were installed

Products Used: CR1000 datalogger, 05106-45 heavy duty alpine wind monitor

Squaw Valley and Alpine Meadows are two major ski resorts on the north shore of Lake Tahoe. Both resorts had built weather monitoring networks on their mountain using Campbell Scientific weather stations. When the two resorts merged their operations there was a need to be able to easily view the data from both resorts from a single source. Western Weather Group worked with the ski areas to collect, process and disseminate the data from both resorts using the WWG online weather database. Mountain operations can now view all of the weather station data on both mountains on a single web page or their smartphone or tablet. Data views include looking at the data on a Google Map image as well as tabular and graphical formats.

A new high speed gondola has been envisioned to link the two resorts separated by a mountain ridge. Possible routes for the gondola are being studied with the assistance of four new remote automated weather stations. The weather stations are using a Campbell Scientific CR1000 datalogger, R. M. Young heavy duty alpine Wind Monitor and a cellular modem for communications. Data at the four sites is gathered every 15 minutes. The base-to-base gondola proposed to run between Squaw Valley and Alpine Meadows resorts would create the largest single ski resort in the United States.