

**Project: Snow Depth and Microclimate using Remote Telemetry**  
**Client: Dodge Ridge Ski Area**  
**Location: California**  
**Year: 2002**



*Northern California 2 hours from Sacramento*

**Application Notes:**

Dodge Ridge Ski Resort is located at 12,000 ft. near the Sonora Pass of the Sierra Mountains, east of Yosemite National Park. The project was created to monitor snow depth and other weather parameters.

**System Description:**

The Ski Resort wanted to be able to collect Wind, Temp and Snow Depth data for operational and marketing purposes.



*The upper monitoring site includes sensors for measurement of wind speed and direction, temperature and relative humidity, and snow depth*



*Intermountain Environmental personnel complete final installation and testing at the upper site.*

The resort operations department needs to report snow totals and monitor the wind throughout the resort to avoid potentially dangerous wind speed situations near chair lifts.

The marketing department wanted to offer weather data to customers through their website. Temperature and new snow totals are valuable information for those interested in skiing.



Intermountain Environmental was contracted to install two weather stations; one site at the top of the mountain and one near the bottom. Using Campbell Scientific LoggerNet the resort is able to use the automated scheduling function to dial the modem at each site to collect data. They can also be manually dialed for quick checks and resort decision-making.

There is a wind anemometer, located on chairlift number 3, which is used to report high wind speeds to the ski resort personnel.

*A CR10X  
measures the  
sensors  
and provides  
remote access via  
the COM200  
Telephone Modem*

The Campbell Scientific NL100 interface allows the park to communicate with the system over their internal IP Network. This allows for real-time data collection and alarming functions.

Each site reports snow level data and 24-hour snow totals. This saves the time of the resort personnel that used to ride a snowmobile to each snow stake to record the levels visually.

For Information on this project or these products please contact:

**Intermountain Environmental, Inc.**  
**601 W. 1700 S. Logan, UT 84321**  
**Phone # 435-755-0774**  
**[www.inmtn.com](http://www.inmtn.com)**