

Project: RAWS-Fire Weather Forecasting
Client: Camp Williams Army National Guard
Location: Draper, Utah
Year: 1998

RAWS Fire Weather Forecasting:

Camp Williams is a National Guard Training Site operated by the Utah Army National Guard. It is located 26 miles south of Salt Lake City. It consists of 28,000 acres of training areas and has a billeting capacity of 2,800 troops. The main training site for the UTNG includes artillery, engineers, academies & other units. Adjacent to large metropolitan areas -- Salt Lake City & Provo -- the area consists of semi-desert and sage steppe. The area is used for training in combat and other similar uses. IEI was contracted to install a remote weather station for the purpose of fire danger forecasting. If the fire danger rating is too high the base shuts down operations in the range to avoid starting any fires. This makes the accuracy and availability of this weather data very valuable to the operations of the base.



The Station has the following equipment:

- 20 ft Tower
- Deep Cycle Battery
- 20 Watt Solar Panel
- CR10 Data logger (Campbell Scientific)
- RM Young 05103 Wind Monitor
- Vaisala HMP45C Temperature & RH Sensor
- Texas Electronics 8" Precipitation Gauge
- RF400 Spread Spectrum Radio



05103 Wind Monitor



HMP45C Temp & RH



TE525WS Rain Gauge



RF400 Radio

Fire weather station

The station is on a PakBus network, which allows the use of a repeater that is located on a small rise between the camp head quarters and the weather station. There are two base stations located within Camp Williams. One is in the Utah State University Environmental group's office and the other is located in the Range Control office of the base. Each base station is a PC running Logger Net 3.0 and is programmed to automatically request data through the repeater every hour. Remsoft then imports the data into Weather Pro. Weather pro then calculates the Burn Component and Ignition Component, which are used for the danger code decision-making.

For Information on this project or these products please contact:

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