

REMOTE AUTOMATIC WEATHER STATIONS

BLM/NIFC/RSFWSU



PERMANENT WEATHER STATION

- 2178 Permanent Weather Stations in the Network
- Stations are located in the 50 United States, Puerto Rico, American Samoa and Guam
- All Stations are 300 baud Hourly Transmissions
- Fire Weather and Resource Applications
- Stations are Manufactured by Campbell, FTS, Sutron, and Vaisala

PERMANENT STATIONS

Fire Weather Stations Must Meet National Fire Danger Rating Standards (NFDRS)

Minimum Sensor Complement

Relative Humidity

Air Temperature

Wind Speed

Wind Direction

Solar Radiation

Rain Gauge

Alternate Sensor Complement

Fuel Moisture

Fuel Temperature

Soil Moisture

Soil Temperature

Barometric Pressure



PORTABLE STATIONS

- 593 Portable Weather Stations in the Network
- Stations are located in the 50 United States, Puerto Rico, American Samoa and Guam
- All Stations are 300 baud Hourly Transmissions
- Fire Weather and Resource Applications
- Stations are Manufactured by Campbell, FTS, and Vaisala

PORTABLE STATIONS

- Portable Stations Have NFDRS Recommendations
- Sensor Complement
- Relative Humidity
- Air Temperature
- Wind Speed
- Wind Direction
- Solar Radiation
- Rain Gauge
- Fuel Moisture
- Fuel Temperature



INCIDENT REMOTE AUTOMATIC WEATHER STATIONS (IRAWS)

- 75 IRAWS in Inventory
- IRAWS are used on All Risk Incidents
- Normally used on Wildfires
- Have been deployed to the Exxon Valdez Oil Spill, 9-11 World Trade Center Disaster, Columbia Space Shuttle Disaster, Hurricanes Katrina and Rita
- 117 Deployments on 52 Wildfire Incidents in 2018
- 23 IRAWS were deployed in California Wildfires along with numerous State and Private Forest portables

IRAWS

- Radio Voice Transmitter and GOES
- Radio Voice sends Weather Data and Alerts
- GOES Transmissions are 5 Second Windows every 15 Minuets



SMOKE MONITORS

- 76 Stations in the Network
- Stations are Deployed on Wildfire Incidents
- All Stations are 300 baud
- Fire Weather Applications
- Stations are Manufactured by FTS, and MetOne
- Data is sent to the Western Regional Climate Center (WRCC) for Distribution

WEATHER DATA

- Have a DRGS and 2 HRIT Receivers
- Collect Data from Wallops and EDDN
- Have 3 LRGS, One Primary, One Backup, and One Test
- Data is Converted in the Wildland Fire Management Information (WFMI) Software.
- Converted Data is sent to WIMMS, GEOMAC, WRCC, MESOWEST, and the Alaska Fire Service



QUESTIONS?

