
Facilities and Resources

Facilities & Resources include instruments and tools used by Fire Lab personnel (e.g., radome, infrared cameras, burn chamber).

Advanced Computing Facilities - The Fire, Fuels, and Smoke program advances the state of the science related to modeling important processes which take place on the landscape.

Gas Chromatography Lab - The gas chromatography lab is where we analyze smoke samples taken from experiments in the combustion lab, from the scene of wild or prescribed fires, or from aircraft traversing a smoke plume. Mobile Instrument Van - The mobile lab provides a platform from which to operate a variety of particulate and gas analyzing instruments at remote fire locations. Lidar - The lidar van is used in the study of smoke plumes from fire events. Sun photometers - Automatic (commercial) and hand held (made in-house) sun photometers are used to study air quality by generating many in situ measurements against which satellite algorithms may be validated. Satellite Downlink - The MODIS direct broadcast receiving station allows us to receive timely information about fire starts and fire progress. Thermal imaging - The Missoula Fire Sciences Laboratory maintains calibrated thermal infrared cameras for use in the field. Wind Tunnel and Combustion Facility - The wind tunnel/combustion (WTCL) facility is used to conduct burning experiments in a controlled environment under varying temperature, humidity, and wind conditions.