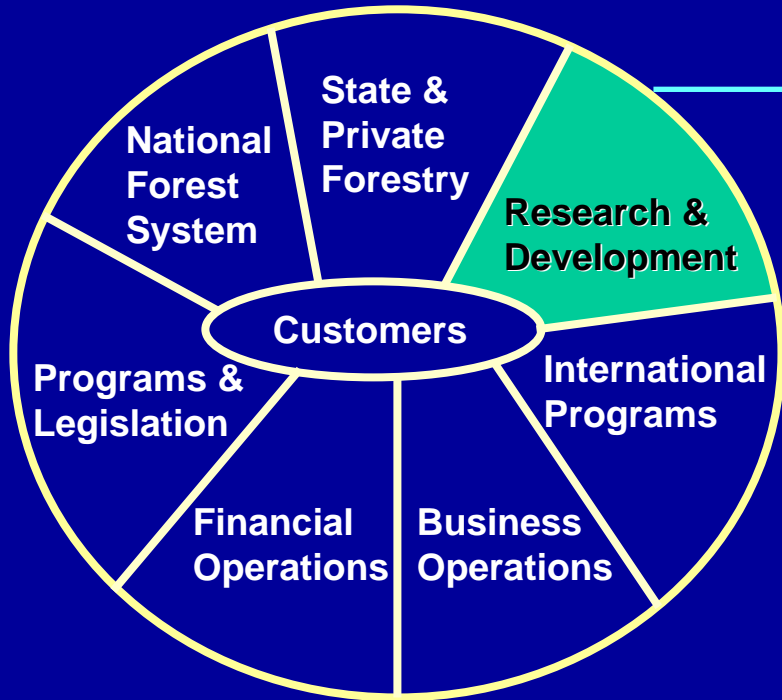


Missoula Fire Sciences Laboratory

FireLab



USDA Forest Service Organization



Washington Office

Vegetation Management & Protection Research

Wildlife, Fish, Water & Air Research

Resource Valuation & Use Research

Inventory & Monitoring

Science Policy, Planning & Information

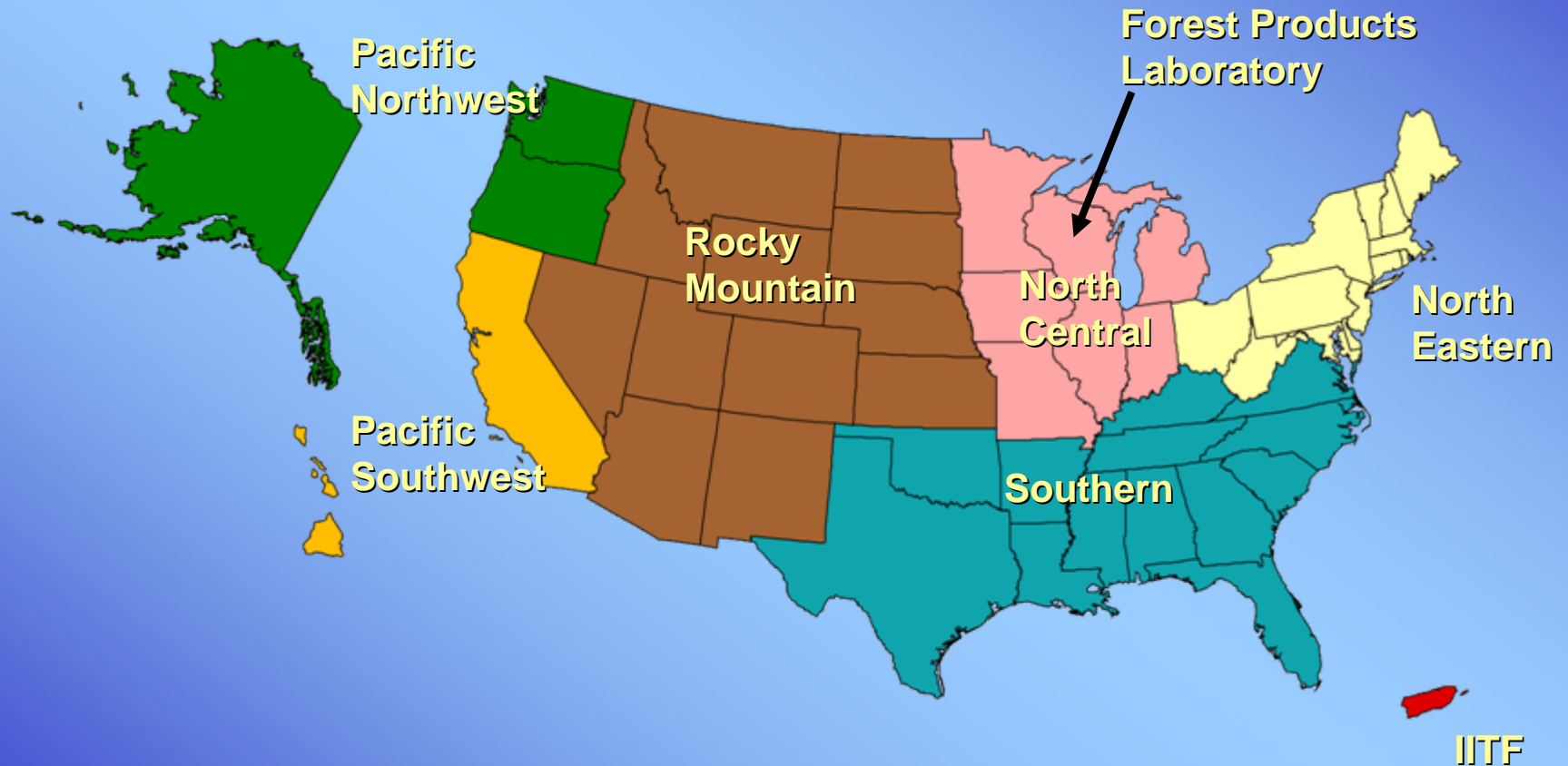
Field

6 Research Stations

140 Work Units at 67 Locations

Forest Products Lab & International Institute of Tropical Forestry

Forest Service R & D Stations



Rocky Mountain Research Station





1960



Fire Sciences Laboratory ~ Rocky Mountain Research Station ~ Missoula, Montana USA

Missoula Fire Sciences Laboratory

FireLab

Research and Development Mission

Our mission is to improve the safety and effectiveness of fire management through the creation and dissemination of basic fire science knowledge. We investigate the impacts of fires on the environment by means of fundamental and applied research for understanding and predicting fire behavior, its effects on ecosystems, and its emissions into the atmosphere.



Missoula Fire Sciences Laboratory -- 2005

3 Research Work Units:

- **Fire Chemistry**
- **Fire Behavior**
- **Fire Ecology and Fuels**

LANDFIRE Program

Fire Chemistry

The Fire Chemistry Unit conducts basic and applied research to understand the impact of fires on air quality, visibility, public health, ozone chemistry in the troposphere and stratosphere, and global climate.

The results of our research have been widely used by land management agencies, state environmental regulatory agencies, and the Environmental Protection Agency to monitor and regulate the emissions of air pollutants from prescribed fires and wildfires.

Fire Behavior

The mission of the Fire Behavior Research Project is to conduct research on wildland fire behavior to help land managers involved in pre-fire planning and management, fire suppression, and prescribed burning to better manage and protect the environment, firefighters, and communities.

The unit conducts fundamental laboratory and field research on wildland fire behavior, develops physically based models, and synthesizes the knowledge into models and tools useful to managers.

Fire Ecology and Fuels

The Fire Ecology and Fuels Unit focus is to determine the effects of fire and fuel management treatments on forests and rangelands. This is accomplished through a program of research and development that involves site-, watershed-, and landscape-level field studies integrated with remote sensing and computer modeling.

Research is conducted to restore and sustain healthy conditions, design and prioritize effective fuel treatments, and determine the impacts of fire management on native plants and exotic/invasive weeds.

LANDFIRE

LANDFIRE is a five-year, multi-partner wildland fire, ecosystem, and fuel mapping project. The project will generate consistent, comprehensive maps and data describing vegetation, fire, and fuel characteristics across the United States. These maps are produced at scales fine enough to assist in prioritizing and planning specific hazardous fuel reduction and ecosystem management projects.

Fire Sciences Laboratory
~ Rocky Mountain Research Station ~
Missoula, Montana USA

- #6: Landscape Fire Dynamics, Emissions,
and Ecology
- #7: Prevention of Residential Fire Disasters
During Extreme Wildland Fire Conditions
- #8: Fuels Treatment and Ecosystem Restoration
- #9: Characterization of Properties
of Smoke Emissions
- #10: Forecasting Long-range Transport of Smoke

Fire Sciences Laboratory
~ Rocky Mountain Research Station ~
Missoula, Montana USA

The End—Thank You!

