

What is LANDFIRE?

LANDFIRE (Landscape Fire and Resource Management Planning Tools Project) is an interagency vegetation, fire, and fuel characteristics mapping project. It is a shared project between the DOI and Forest Service wildland fire management programs and is sponsored by the Wildland Fire Leadership Council. LANDFIRE is producing a comprehensive, consistent, scientifically credible suite of spatial data layers for the entire United States. Principal project partners include the USFS Missoula Fire Sciences Laboratory, the USGS Center for Earth Resources Observation and Science, and The Nature Conservancy. The project is scheduled from FY04 through FY09, with expenses apportioned between the Forest Service (60%) and Department of Interior (40%). Data products are 30-meter spatial resolution raster data sets, which will vary in accuracy by geography, product, and scale of use. In addition, the project has been directed to provide an operations and maintenance plan.

Why LANDFIRE?

LANDFIRE was initiated by a request from federal land agencies to develop maps needed to help land managers prioritize areas for hazardous fuel reduction and ecological conservation. LANDFIRE provides science to support the Healthy Forests Restoration Act (Community Wildfire Protection Plans), the National Fire Plan, and land and fire management planning stewardship of public and private lands.

What are LANDFIRE's data products and how are they developed?

LANDFIRE procedures integrate relational databases, geo-referenced field plots, remote sensing, systems ecology, gradient modeling, predictive landscape modeling, vegetation disturbance dynamics, and peer-reviewed fire science to create a state-of-the-art scientific analysis of the U.S. landscape. LANDFIRE is creating spatial data layers that include: all layers required to run fire modeling applications such as FARSITE and FlamMap, Existing Vegetation Type, Canopy Height, Biophysical Setting, Environmental Site Potential, Fire Regime Condition Class, and fire effects layers.

How can LANDFIRE data products be applied?

LANDFIRE's objective is to provide data products to help land managers:

- ▶ Identify priority areas for reduction of wildfire risks associated with accumulation of hazardous fuel
- ▶ Address questions related to the reduction of wildfire risk to communities and resources of concern
- ▶ Deliver consistent information at different scales and provide an information foundation for monitoring progress in reducing risk

LANDFIRE data products may also be used for:

- ▶ Improvement of coordination between agencies with regard to fire and other land management resources
- ▶ Modeling real-time fire behavior to support tactical decisions to ensure sufficient wildland firefighting capacity and safety
- ▶ Modeling potential fire behavior and effects to strategically plan projects for hazardous fuel reduction and the restoration of ecosystem integrity on fire-adapted landscapes

LANDFIRE milestones

LANDFIRE Prototype Project	Central Utah / Northern Rockies	2005
LANDFIRE Rapid Assessment	Conterminous U.S.	2006
LANDFIRE National	Western U.S.	2006
LANDFIRE National	Eastern U.S.	2008
LANDFIRE National	Alaska & Hawaii	2009

LANDFIRE data needs

To assist in the effort to ground-truth LANDFIRE maps, the LANDFIRE team would like to incorporate into our field plot database any vegetation or fuel data you have collected for inventory, monitoring, mapping, research, or similar purposes. If you have such geo-referenced plot data or know of possible data sources, please visit www.landfire.gov to learn how to share your data.

For more information, current project status, or to contact the LANDFIRE team, please visit www.landfire.gov