

Risk Based Wildland Fire Management

The following represent (left to right) DOI Land Managed, Percentage of DOI Burnable Land, and DOI Land Burned Annually with >4' flame length. For additional details on the Risk Based Wildland Fire Management (RBWFM) project, reference the October 14, 2014 Dear Tribal Leader Letter and RBWM Issue Paper at http://www.doi.gov/pmb/owf/tribal_consultation.cfm.



¹DOI land burned annually with >4-foot flame length is an estimate, produced by FSim modeled fires. FSim is a comprehensive, stochastic fire ignition, growth, and suppression simulation system that pairs a fire growth model (Finney 1998, Finney 2002) and a model of ignition probability with simulated weather streams in order to simulate fire ignition and growth. For more information, please consult: [A simulation of probabilistic wildfire risk components for the continental United States](#), USDA Forest Service.

Proposed Preliminary and Pre-decisional National Value Sets. The table represents the preliminary values and data used for evaluation in the Risk Based Wildland Fire Management

Values	Data Elements	Data Source
Developed Areas	Data elements used: <ul style="list-style-type: none"> LandScan Day and Night (HSIP Gold 2013) National Park Service Facilities 	LandScan - A global population dataset using geospatial data and analyzed satellite imagery to represent populations of people. HSIP GOLD 2013 – A compilation of geospatial infrastructure datasets of critical resources from Federal, state, local, and private sources. More information: https://www.hifldwg.org National Park Service Facilities database
Infrastructure	Data elements used: <ul style="list-style-type: none"> Communication sites, Energy and Transportation Facilities 	HSIP GOLD 2013 – A compilation of geospatial infrastructure datasets of critical resources from Federal, state, local, and private sources.
Recreation Sites	Data elements used: <ul style="list-style-type: none"> Ski areas and Public Campgrounds 	HSIP GOLD 2013 – A compilation of geospatial infrastructure datasets of critical resources from Federal, state, local, and private sources.
Riparian	Data elements used: <ul style="list-style-type: none"> National Hydrography Dataset (NHD) flowline, medium resolution, streams and rivers, perennial Alaska and Puerto Rico- NHD flowline, high resolution, streams and rivers, perennial 	National Hydrography Dataset and Watershed Boundary Dataset - Digital vector datasets used by geographic information systems. The data is designed to be used in mapping and in the analysis of surface water systems. More information: http://nhd.usgs.gov/index.html
Forest Areas	Data elements used: <ul style="list-style-type: none"> Forest type data for Alaska and CONUS are from: http://data.fs.usda.gov/geodata/rastergateway/forest_type/index.php with a canopy cover threshold >10 % from LANDFIRE 1.2.0 Canopy Cover layer Forest Type data for Hawaii and Puerto Rico from LANDFIRE 1.2.0 EVT layer with a canopy cover threshold of >10% using LANDFIRE 1.2.0 Canopy Cover layer 	LANDFIRE 1.2.0 - LANDFIRE is a program that provides over 20 national geo-spatial layers, databases, and ecological models that are available to the public for the US and insular areas. More information: http://www.landfire.gov/viewer/
Threatened and Endangered Species	Data elements used: <ul style="list-style-type: none"> Critical Habitat for Threatened and Endangered Species 	Environmental Conservation Online System (ECOS) - ECOS serves a variety of reports related to the Fish and Wildlife Service Threatened and Endangered Species. More information: http://ecos.fws.gov/ecos/home.action
Surface Drinking Water	Data elements used: <ul style="list-style-type: none"> Continental U.S. land areas most important to surface drinking water 	USDA Forest Service, Forests to Faucets - Models and maps land areas most important to surface drinking water. More information: http://www.fs.fed.us/ecosystemservices/FS_Efforts/forests2faucets.shtml
Sage Grouse	Data elements used: <ul style="list-style-type: none"> Preliminary Priority Habitat (PPH) 	PPH comprises areas that have been identified as having the highest conservation value to maintaining sustainable Greater Sage-Grouse populations. More information: http://www.blm.gov/wo/st/en/prog/more/sagegrouse.html