

Effects of fire on pollinators and pollination

www.nrfirescience.org/resource/15080

Summary: 1) Increased incidence of landscape fire and pollinator declines with co-extinctions of dependent plant species are both globally significant. Fire can alter species distributions, but its effects on plant–pollinator interactions are poorly understood so its present and future role in coupled plant–pollinator declines...

Author(s): Julian Brown, Alan York, Fiona J. Christie, Michael A. McCarthy

Year Published: 2017

Type: Document

Book or Chapter or Journal Article

Montana Climate Assessment VIGNETTE: forest Management and a Changing Climate with Diana Six

www.nrfirescience.org/resource/15727

Diana Six has been studying pine bark beetles for 25 years, and still can't say she completely understands them. Lately, she's been diving into a topic she has always found even more confounding - forest management. This article describes an interview with Six that describes forest resilience in face of climate change.

Year Published: 2017

Type: Document

Research Brief or Fact Sheet

Conflicting Perspectives on Spotted Owls, Wildfire, and Forest Restoration

www.nrfirescience.org/resource/16339

Evidence of increasing fire extent and severity in the western US in recent decades has raised concern over the effects of fire on threatened species such as the spotted owl (*Strix occidentalis Xantus de Vesey*), which nests in forests with large trees and high canopy cover that are vulnerable to high-severity wildfire. A dichotomy...

Author(s): Joseph L. Ganey, Ho Yi Wan, Samuel A. Cushman, Christina D. Vojta

Year Published: 2017

Type: Document

Book or Chapter or Journal Article

Fires following bark beetles: factors controlling severity and disturbance interactions in ponderosa pine

www.nrfirescience.org/resource/16316

Previous studies have suggested that bark beetles and fires can be interacting disturbances, whereby bark beetle– caused tree mortality can alter the risk and severity of subsequent wildland fires. However, there remains considerable uncertainty around the type and magnitude of the interaction between fires following bark beetle...

Author(s): Carolyn Hull Sieg, Rodman Linn, F. Pimont, Chad M. Hoffman, Joel D. McMillin, Judith Winterkamp, Scott L. Baggett

Year Published: 2017

Type: Document

Book or Chapter or Journal Article

Interactions of landscape disturbances and climate change dictate ecological pattern and process: spatial modeling of wildfire, insect, and disease dynamics under future climates

www.nrfirescience.org/resource/15531

Context: Interactions among disturbances, climate, and vegetation influence landscape patterns and ecosystem processes. Climate changes, exotic invasions, beetle outbreaks, altered fire regimes, and

human activities may interact to produce landscapes that appear and function beyond historical analogs. Objectives We used the...

Author(s): Rachel A. Loehman, Robert E. Keane, Lisa M. Holsinger, Zhiwei Wu

Year Published: 2017

Type: Document

Book or Chapter or Journal Article

Prescribed fire in grassland butterfly habitat: targeting weather and fuel conditions to reduce soil temperature and burn severity

www.nrfirescience.org/resource/16319

Prescribed burning is a primary tool for habitat restoration and management in fire-adapted grasslands. Concerns about detrimental effects of burning on butterfly populations, however, can inhibit implementation of treatments. Burning in cool and humid conditions is likely to result in lowered soil temperatures and to produce...

Author(s): Kathryn C. Hill, Jonathan D. Bakker, Peter W. Dunwiddie

Year Published: 2017

Type: Document

Book or Chapter or Journal Article

Tamm Review: Shifting global fire regimes: Lessons from reburns and research needs

www.nrfirescience.org/resource/15305

Across the globe, rising temperatures and altered precipitation patterns have caused persistent regional droughts, lengthened fire seasons, and increased the number of weather-driven extreme fire events. Because wildfires currently impact an increasing proportion of the total area burned, land managers need to better understand...

Author(s): Susan J. Prichard, Camille Stevens-Rumann, Paul F. Hessburg

Year Published: 2017

Type: Document

Book or Chapter or Journal Article

Artemisia tridentata subsp. vaseyana (mountain big sagebrush)

www.nrfirescience.org/resource/16200

Mountain big sagebrush is a widely distributed shrub native to the western United States. Mountain big sagebrush ecosystems support hundreds of plant and animal species, including several sagebrush obligates. The distribution of mountain big sagebrush has been reduced since European-American settlement, and is likely to be further...

Author(s): Robin J. Innes

Year Published: 2017

Type: Document

Synthesis

Using resilience and resistance concepts to manage threats to sagebrush ecosystems, Gunnison sage-grouse, and Greater sage-grouse in their eastern range: a strategic multi-scale approach

www.nrfirescience.org/resource/14967

This report provides a strategic approach developed by a Western Association of Fish and Wildlife Agencies interagency working group for conservation of sagebrush ecosystems, Greater sage-grouse, and Gunnison sage-grouse. It uses information on (1) factors that influence sagebrush ecosystem resilience to disturbance and resistance...

Author(s): Jeanne C. Chambers, Jeffrey L. Beck, Steven B. Campbell, John Carlson, Thomas J.

Christiansen, Karen J. Clause, Jonathan B. Dinkins, Douglas W. Havlina, Kevin E. Doherty, Kathleen A.

Griffin, Douglas W. Havlina, Kenneth F. Henke, Jacob D. Hennig, Laurie L. Kurth, Jeremy D. Maestas, Mary Manning, Kenneth E. Mayer, Brian A. Meador, Clinton McCarthy, Marco A. Perea, David A. Pyke
Year Published: 2016
Type: Document
Technical Report or White Paper

Centrocercus minimus, Centrocercus urophasianus (Gunnison sage-grouse, greater sage-grouse)

www.nrfirescience.org/resource/10784

This FEIS species review synthesizes information on the relationship of Centrocercus minimus, Centrocercus urophasianus (Gunnison sage-grouse, greater sage-grouse) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided...

Author(s): Robin J. Innes

Year Published: 2016

Type: Document

Synthesis

Avian relationships with wildfire at two dry forest locations with different historical fire regimes

www.nrfirescience.org/resource/14479

Wildfire is a key factor influencing bird community composition in western North American forests. We need to understand species and community responses to wildfire and how responses vary regionally to effectively manage dry conifer forests for maintaining biodiversity. We compared avian relationships with wildfire burn severity...

Author(s): Quresh Latif, Jamie Sanderlin, Victoria A. Saab, William M. Block, Jonathan G. Dudley

Year Published: 2016

Type: Document

Book or Chapter or Journal Article

Post-fire logging produces minimal persistent impacts on understory vegetation in northeastern Oregon, USA

www.nrfirescience.org/resource/14354

Post-fire forest management commonly requires accepting some negative ecological impacts from management activities in order to achieve management objectives. Managers need to know, however, whether ecological impacts from post-fire management activities are transient or cause long-term ecosystem degradation. We studied the long...

Author(s): David W. Peterson, Erich K. Dodson

Year Published: 2016

Type: Document

Book or Chapter or Journal Article

Planning for wildfire in the wildland-urban interface: a resource guide for Idaho communities

www.nrfirescience.org/resource/14856

The price of wildfire has never been higher. Why? And what can local communities do about it? One way to measure the price of wildfire is the dollars spent on suppression alone. In 1995, fire made up 16 percent of the U.S. Forest Service's annual appropriation budget; in 2015, wildfire consumed more than 50 percent of the...

Author(s): Stephen R. Miller, Thomas Wuerzer, Jaap Vos, Eric Lindquist, Molly Mowery, Tyre Holfeltz, Brian Stephens, Alexander Grad

Year Published: 2016

Type: Document

Incorporating resource protection constraints in an analysis of landscape fuel-treatment effectiveness in the northern Sierra Nevada, CA, USA

www.nrfirescience.org/resource/14012

Finding novel ways to plan and implement landscape-level forest treatments that protect sensitive wildlife and other key ecosystem components, while also reducing the risk of large-scale, high-severity fires, can prove to be difficult. We examined alternative approaches to landscape-scale fuel-treatment design for the same landscape...

Author(s): Christopher B. Dow, Brandon M. Collins, Scott L. Stephens

Year Published: 2016

Type: Document

Book or Chapter or Journal Article

The integrated rangeland fire management strategy actionable science plan

www.nrfirescience.org/resource/14697

The Integrated Rangeland Fire Management Strategy (hereafter Strategy, DOI 2015) outlined the need for coordinated, science-based adaptive management to achieve long-term protection, conservation, and restoration of the sagebrush (*Artemisia* spp.) ecosystem. A key component of this management approach is the...

Author(s): Integrated Rangeland Fire Management Strategy Actionable Science Plan Team

Year Published: 2016

Type: Document

Management or Planning Document

Tamm Review: Management of mixed-severity fire regime forests in Oregon, Washington, and Northern California

www.nrfirescience.org/resource/13976

Increasingly, objectives for forests with moderate- or mixed-severity fire regimes are to restore successional diversity landscapes that are resistant and resilient to current and future stressors. Maintaining native species and characteristic processes requires this successional diversity, but methods to achieve it are poorly...

Author(s): Paul F. Hessburg, Thomas A. Spies, David A. Perry, Carl N. Skinner, Alan H. Taylor, Peter M. Brown, Scott L. Stephens, Andrew J. Larson, Derek J. Churchill, Nicholas A. Povak, Peter H. Singleton, Brenda McComb, William J. Zielinski, Brandon M. Collins, R. Brion Salter, Jerry F. Franklin, Gregg M. Riegel

Year Published: 2016

Type: Document

Book or Chapter or Journal Article, Synthesis

Riparian fuel treatments in the western USA: challenges and considerations

www.nrfirescience.org/resource/14663

Fuel reduction treatments are being conducted throughout watersheds of the western United States to reduce hazardous fuels in efforts to decrease the risk of high-severity fire. The number of fuel reduction projects that include near-stream environments is increasing, bringing new challenges to riparian management. Riparian areas...

Author(s): Kathleen A. Dwire, Kristen E. Meyer, Gregg M. Riegel, Timothy A. Burton

Year Published: 2016

Type: Document

Technical Report or White Paper

Positive effects of fire on birds may appear only under narrow combinations of fire severity and time-since-fire

www.nrfirescience.org/resource/14642

We conducted bird surveys in 10 of the first 11 years following a mixed-severity fire in a dry, low-elevation mixed-conifer forest in western Montana, United States. By defining fire in terms of fire severity and time-since-fire, and then comparing detection rates for species inside 15 combinations of fire severity and time-since-...

Author(s): Richard L. Hutto, David A. Patterson

Year Published: 2016

Type: Document

Book or Chapter or Journal Article

Quaking aspen in Utah: integrating recent science with management

www.nrfirescience.org/resource/15175

Quaking aspen is widely regarded as a key resource for humans, livestock, and wildlife with these values often competing with each other, leading to overuse of aspen in some locations and declines. We review trends in aspen science and management, particularly in Utah. Historically, research conducted here holds a prestigious place...

Author(s): Paul C. Rogers, Sam St. Clair

Year Published: 2016

Type: Document

Book or Chapter or Journal Article

Transferability of habitat suitability models for nesting woodpeckers associated with wildfire

www.nrfirescience.org/resource/15000

Following wildfire, forest managers are challenged with meeting both socioeconomic demands (e.g., salvage logging) and mandates requiring habitat conservation for disturbance-associated wildlife (e.g., woodpeckers). Habitat suitability models for nesting woodpeckers can be informative, but tests of model transferability are needed...

Author(s): Quresh Latif, Victoria A. Saab, Jeff P. Hollenbeck, Jonathan G. Dudley

Year Published: 2016

Type: Document

Book or Chapter or Journal Article

Tamm Review: Are fuel treatments effective at achieving ecological and social objectives? A systematic review

www.nrfirescience.org/resource/14425

The prevailing paradigm in the western U.S. is that the increase in stand-replacing wildfires in historically frequent-fire dry forests is due to unnatural fuel loads that have resulted from management activities including fire suppression, logging, and grazing, combined with more severe drought conditions and increasing...

Author(s): Elizabeth L. Kalies, Larissa L. Yocom Kent

Year Published: 2016

Type: Document

Book or Chapter or Journal Article, Synthesis

Short-term impacts of fire-mediated habitat alterations on an isolated bighorn sheep population

www.nrfirescience.org/resource/14889

Habitat alterations may improve and expand wildlife habitats, and bolster waning wildlife populations. We used global positioning system (GPS) locations to monitor 38 bighorn sheep (*Ovis canadensis*

Shaw) that were translocated to the Seminoe Mountains, Wyoming, USA, in 2009 and 2010, and 24 bighorns captured in 2011 to investigate...

Author(s): Justin G. Clapp, Jeffrey L. Beck

Year Published: 2016

Type: Document

Book or Chapter or Journal Article

Burned forest characterization at single-tree level with airborne laser scanning for assessing wildlife habitat

www.nrfirescience.org/resource/14180

Abundance, size, and spatial distribution of standing dead trees (snags), are key indicators of forest biodiversity and ecosystem health. These metrics represent critical habitat components for various wildlife species of conservation concern, including the Black-backed Woodpecker (*Picoides arcticus*), which is strongly associated...

Author(s): Angeles Casas, Mariano Garcia, Rodney B. Siegel, Alexander Koltunov, Carlos Ramirez, Susan L. Ustin

Year Published: 2016

Type: Document

Book or Chapter or Journal Article

Effects of prescribed fire on wildlife and wildlife habitat in selected ecosystems of North America

www.nrfirescience.org/resource/14715

Prescribed fire is applied widely as a management tool in North America to meet various objectives such as reducing fuel loads and fuel continuity, returning fire to an ecosystem, enhancing wildlife habitats, improving forage, preparing seedbeds, improving watershed conditions, enhancing nutrient cycling, ...

Author(s): William M. Block, L. Mike Conner, Paul A. Brewer, Paulette Ford, Jonathan Haufler, Andrea Litt, Ronald E. Masters, Laura R. Mitchell, Jane Park

Year Published: 2016

Type: Document

Technical Report or White Paper

Conservation and restoration of sagebrush ecosystems and sage-grouse: an assessment of USDA Forest Service Science

www.nrfirescience.org/resource/14004

Sagebrush ecosystems are among the largest and most threatened ecosystems in North America. Greater sage-grouse has served as the bellwether for species conservation in these ecosystems and has been considered for listing under the Endangered Species Act eight times. In September 2015, the decision was made not to list greater sage...

Author(s): Deborah M. Finch, Douglas A. Boyce, Jeanne C. Chambers, Chris J. Colt, R. Kasten Dumroese, Stanley G. Kitchen, Clinton McCarthy, Susan E. Meyer, Bryce A. Richardson, Mary M. Rowland, Mark A. Rumble, Michael K. Schwartz, Monica S. Tomosy, Michael J. Wisdom

Year Published: 2016

Type: Document

Synthesis, Technical Report or White Paper

Getting ahead of the wildfire problem: quantifying and mapping management challenges and opportunities

www.nrfirescience.org/resource/14688

Wildfire is a global phenomenon that plays a vital role in regulating and maintaining many natural and

human-influenced ecosystems but that also poses considerable risks to human populations and infrastructure. Fire managers are charged with balancing the short-term protection of human assets sensitive to fire exposure against the...

Author(s): Christopher D. O'Connor, Matthew P. Thompson, Francisco Rodriguez y Silva

Year Published: 2016

Type: Document

Book or Chapter or Journal Article

Wildfire! Toward understanding its effects on wildlife

www.nrfirescience.org/resource/14658

There are few places in western North America, and increasingly in the northern regions of Canada and Alaska, where wildfire and its effects are unfamiliar sights. Last year, wildfires burned more than 800,000 hectares of National Forest lands; the same year, a record 4.1 million hectares burned across all land ownerships in the...

Author(s): Peter H. Singleton, Victoria A. Saab, William M. Block, Brian Logan, Craig Thompson

Year Published: 2016

Type: Document

Book or Chapter or Journal Article

Biomass and fire dynamics in a temperate forest-grassland mosaic: Integrating multi-species herbivory, climate, and fire with the FireBGCv2/GrazeBGC system

www.nrfirescience.org/resource/13195

Landscape fire succession models (LFSMs) predict spatially-explicit interactions between vegetation succession and disturbance, but these models have yet to fully integrate ungulate herbivory as a driver of their processes. We modified a complex LFSM, FireBGCv2, to include a multi-species herbivory module, GrazeBGC. The system is...

Author(s): Robert A. Riggs, Robert E. Keane, Norm Cimon, Rachel Cook, Lisa M. Holsinger, John Cook, Timothy DelCurto, Scott L. Baggett, Donald Justice, David Powell, Martin Vavra, Bridgett J. Naylor

Year Published: 2015

Type: Document

Book or Chapter or Journal Article

Using bird ecology to learn about the benefits of severe fire

www.nrfirescience.org/resource/15556

In this chapter in the book "The Ecological Importance of Mixed Severity Fires: Nature's Phoenix, the authors do not provide an encyclopedic review of the more than 450 published papers that describe some kind of effect of fire on birds. Instead, they chose to highlight underappreciated principles or lessons that emerge from...

Author(s): Richard L. Hutto, Monica L. Bond, Dominick A. DellaSala

Year Published: 2015

Type: Document

Book or Chapter or Journal Article

Impacts of fire on snowshoe hares in Glacier National Park, Montana, USA

www.nrfirescience.org/resource/13460

Forest fires fundamentally shape the habitats available for wildlife. Current predictions for fire under a warming climate suggest larger and more severe fires may occur, thus challenging scientists and managers to understand and predict impacts of fire on focal species, especially species of management concern. Snowshoe hares (...)

Author(s): Ellen Cheng, Karen E. Hodges, Scott Mills

Year Published: 2015
Type: Document
Book or Chapter or Journal Article

Too hot to trot? Evaluating the effects of wildfire on patterns of occupancy and abundance for a climate-sensitive habitat specialist

www.nrfirescience.org/resource/13185

Wildfires are increasing in frequency and severity as a result of climate change in many ecosystems; however, effects of altered disturbance regimes on wildlife remain poorly quantified. Here, we leverage an unexpected opportunity to investigate how fire affects the occupancy and abundance of a climate-sensitive habitat specialist,...

Author(s): Johanna Varner, Mallory S. Lambert, Joshua J. Horns, Sean Laverty, Laurie Dizney, Erik A. Beever, M. Denise Dearing

Year Published: 2015

Type: Document

Book or Chapter or Journal Article

Simulated big sagebrush regeneration supports predicted changes at the trailing and leading edges of distribution shifts

www.nrfirescience.org/resource/15432

Many semi-arid plant communities in western North America are dominated by big sagebrush. These ecosystems are being reduced in extent and quality due to economic development, invasive species, and climate change. These pervasive modifications have generated concern about the long-term viability of sagebrush habitat and sagebrush-...

Author(s): Daniel Schlaepfer, Kyle A. Taylor, Victoria E. Pennington, Kellen N. Nelson, Trace E. Martyn, Caitlin M. Rottler, William Lauenroth, John Bradford

Year Published: 2015

Type: Document

Book or Chapter or Journal Article

Conflicting selection from fire and seed predation drives fine-scaled phenotypic variation in a widespread North American conifer

www.nrfirescience.org/resource/12964

Recent work has demonstrated that evolutionary processes shape ecological dynamics on relatively short timescales (eco-evolutionary dynamics), but demonstrating these effects at large spatial scales in natural landscapes has proven difficult. We used empirical studies and modeling to investigate how selective pressures from fire and...

Author(s): Matt V. Talluto, Craig W. Benkman

Year Published: 2014

Type: Document

Book or Chapter or Journal Article

Characterizing spatial reference conditions in southwestern warm/dry mixed-conifer forests

www.nrfirescience.org/resource/12951

Reference conditions describe attributes of ecosystem structure, composition, and function and are used to inform ecological restoration efforts. Reference condition information on tree spatial patterns that occurred prior to wide-spread fire exclusion is limited for warm/dry mixed-conifer forests of the western U.S., particularly...

Author(s): Kyle Rodman, Andrew Sanchez Meador

Year Published: 2014

Type: Document

US strategy for forest management adaption to climate change: building a framework for decision making

www.nrfirescience.org/resource/12443

Recent policy changes in the USA direct agencies managing federal forests to analyze the potential effects of climate change on forest productivity, water resource protection, wildlife habitat, biodiversity, and other values. This paper describes methods developed to (1) assess current risks, vulnerabilities, and gaps in knowledge...

Author(s): V. Alaric Sample, Jessica E. Halofsky, David L. Peterson

Year Published: 2014

Type: Document

Book or Chapter or Journal Article

Fuels treatments in ponderosa pine - Visits to the Boise National Forest and Boise Basin Exp. Forest

www.nrfirescience.org/resource/12928

Terrie Jain, Research Forester with the USFS Rocky Mountain Research Station, together with foresters, and fire and wildlife managers from the Boise National Forest led a tour of fuels treatments in dry conifer forests around Idaho City, Idaho. Site visits provided a visual of high forest fuel conditions with potential to support...

Author(s): Corey L. Gucker

Year Published: 2014

Type: Document

Research Brief or Fact Sheet

Northern Rocky Mountain Experimental Forests: settings for science, management, and education alliances

www.nrfirescience.org/resource/12911

Society's view of forests and what they produce changed considerably during the latter part of the 20th century. Prior to the 1970s, society believed that forests in the western United States provided a seemingly infinite supply of natural resources and economic prosperity. The public trusted experts to make forest management...

Author(s): Theresa B. Jain, Michael A. Battaglia, Russell T. Graham

Year Published: 2014

Type: Document

Book or Chapter or Journal Article

The ecological importance of severe fire - Site visits to Lolo Creek and Blue Mountain burned areas

www.nrfirescience.org/resource/12652

Dr. Dick Hutto, professor of Organismal Biology and Ecology at the University of Montana, took participants of the May 2014 Large Wildland Fires Conference to recently burned sites to discuss fire effects. Hutto was enthused and excited about "the magical biology" occurring on recently burned sites. Magical biology includes...

Author(s): Corey L. Gucker

Year Published: 2014

Type: Document

Research Brief or Fact Sheet

Preliminary resource vulnerability assessment

www.nrfirescience.org/resource/13409

This document is an assessment of the FS Northern Region's key water resources, tree species, wildlife species, and disturbances, which includes descriptions of the species' current condition, existing stressors, sensitivity to and expected effects of climate changes, and adaptive capacity.

Author(s): Northern Region Adaptation Partnership

Year Published: 2014

Type: Document

Technical Report or White Paper

Future Forests Webinar Series, webinar proceedings and summary: ongoing research and management responses to the mountain pine beetle outbreak

www.nrfirescience.org/resource/12963

The Future Forest Webinar Series facilitated dialogue between scientists and managers about the challenges and opportunities created by the mountain pine beetle (MPB) epidemic. The series consisted of six webinars facilitated by the USFS Rocky Mountain Research Station, the Northern and Rocky Mountain Regions, and the Colorado Forest...

Year Published: 2014

Type: Document

Conference Proceedings

Quantifying restoration effectiveness using multi-scale habitat models: implications for sage-grouse in the Great Basin

www.nrfirescience.org/resource/12947

A recurrent challenge in the conservation of wide-ranging, imperiled species is understanding which habitats to protect and whether we are capable of restoring degraded landscapes. For Greater Sage-grouse (*Centrocercus urophasianus*), a species of conservation concern in the western United States, we approached this problem by...

Author(s): Robert S. Arkle, David S. Pilliod, Steven E. Hanser, Matthew L. Brooks, Jeanne C. Chambers, James B. Grace, Kevin C. Knutson, David A. Pyke, Justin L. Welty, Troy A. Wirth

Year Published: 2014

Type: Document

Book or Chapter or Journal Article

Moving forward: responding to and mitigating effects of the MPB epidemic

www.nrfirescience.org/resource/13711

The final webinar in the Future Forest Webinar Series provided an example of how managers utilized available science to address questions about post-epidemic forest conditions. Assessments of current conditions and projected trends, and how these compare with historical patterns, provide important information for land management...

Author(s): Claudia Regan, Barry Bollenbacher, Rob Gump, Michael Hillis

Year Published: 2014

Type: Document

Conference Proceedings

A polygon-based modeling approach to assess exposure of resources and assets to wildfire

www.nrfirescience.org/resource/12048

Spatially explicit burn probability modeling is increasingly applied to assess wildfire risk and inform mitigation strategy development. Burn probabilities are typically expressed on a per-pixel basis, calculated as the number of times a pixel burns divided by the number of simulation iterations. Spatial intersection of highly...

Author(s): Matthew P. Thompson, Joe H. Scott, Jeffrey D. Kaiden, Julie W. Gilbertson-Day
Year Published: 2013
Type: Document
Book or Chapter or Journal Article

Managing high-elevation sagebrush steppe: do conifer encroachment and prescribed fire affect habitat for pygmy rabbits?

www.nrfirescience.org/resource/11999

Both fire and conifer encroachment can markedly alter big sagebrush communities and thus habitat quality and quantity for wildlife. We investigated how conifer encroachment and spring prescribed burning affected forage and cover resources for a sagebrush specialist, the pygmy rabbit. We studied these dynamics at spring prescribed...

Author(s): Bonnie A. Woods, Janet L. Rachlow, Stephen C. Bunting, Timothy R. Johnson, Kelly Bocking
Year Published: 2013
Type: Document
Book or Chapter or Journal Article

Eriophorum viridicarinatum (green-keeled cottongrass)

www.nrfirescience.org/resource/11521

This FEIS species review synthesizes information on the relationship of *Eriophorum viridicarinatum* (green-keeled cottongrass) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution...

Author(s): Robin J. Innes
Year Published: 2013
Type: Document
Synthesis

Restoring habitat for the northern Idaho ground squirrel (*Urocitellus brunneus brunneus*): effects of prescribed burning on dwindling habitat

www.nrfirescience.org/resource/12137

Land use and fire exclusion have contributed to an increase in ponderosa pine (*Pinus ponderosa*) forest extent and density in west-central Idaho. Open areas within ponderosa pine forests are decreasing, thus reducing habitat for the endemic northern Idaho ground squirrel (NIDGS; *Urocitellus brunneus brunneus*). In 2000, the NIDGS was...

Author(s): E. F. Suronen, Beth A. Newingham
Year Published: 2013
Type: Document
Book or Chapter or Journal Article

***Corydalis sempervirens* (pink corydalis)**

www.nrfirescience.org/resource/10933

This FEIS species review synthesizes information on the relationship of *Corydalis sempervirens* (pink corydalis) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Rachelle Meyer
Year Published: 2013
Type: Document
Synthesis

Appendix 1: Regional summaries - Great Plains

www.nrfirescience.org/resource/11902

Natural vegetation of the Great Plains is primarily grassland and shrubland ecosystems with trees occurring in scattered areas along streams and rivers, on planted woodlots, as isolated forests such as the Black Hills of South Dakota, and near the biogeographic contact with Rocky Mountains and eastern deciduous forests. Trees are...

Author(s): Linda A. Joyce

Year Published: 2013

Type: Document

Synthesis, Technical Report or White Paper

Reduced ectoparasite loads of deer mice in burned forest: from fleas to trees?

www.nrfirescience.org/resource/12030

We tested whether reduced parasite loads might contribute to high post-fire abundances of deer mice (*Peromyscus maniculatus*). We performed parasite examinations of 54 mice captured in burned forest in the area of Davis Fire (western Montana, USA), and 26 mice captured in nearby unburned forest.

Mean abundance of ectoparasites (fleas...

Author(s): Rafal Zwolak, S. Meagher, J. W. Vaughn, S. Dziemian, Elizabeth E. Crone

Year Published: 2013

Type: Document

Book or Chapter or Journal Article

Disease in a dynamic landscape: host behavior and wildfire reduce amphibian chytrid infection

www.nrfirescience.org/resource/12017

Disturbances are often expected to magnify effects of disease, but these effects may depend on the ecology, behavior, and life history of both hosts and pathogens. In many ecosystems, wildfire is the dominant natural disturbance and thus could directly or indirectly affect dynamics of many diseases. To determine how probability of...

Author(s): Blake R. Hossack, Winsor H. Lowe, Joy L. Ware, Paul S. Corn

Year Published: 2013

Type: Document

Book or Chapter or Journal Article

Historical and cultural fires, tribal management and research issues in Northern California: trails, fires and tribulations

www.nrfirescience.org/resource/12539

Indigenous people's detailed traditional knowledge about fire, although superficially referenced in various writings, has not for the most part been analyzed in detail or simulated by resource managers, wildlife biologists, and ecologists. . . . Instead, scientists have developed the principles and theories of fire ecology, fire...

Author(s): Frank K. Lake

Year Published: 2013

Type: Document

Book or Chapter or Journal Article

A technical guide for monitoring wildlife habitat

www.nrfirescience.org/resource/12383

Information about status and trend of wildlife habitat is important for the U.S. Department of Agriculture, Forest Service to accomplish its mission and meet its legal requirements. As the steward of 193 million acres (ac) of Federal land, the Forest Service needs to evaluate the status of wildlife habitat and how it

compares with...

Author(s): Mary M. Rowland, Christina D. Vojta

Year Published: 2013

Type: Document

Technical Report or White Paper

Landscape-scale eco-evolutionary dynamics: selection by seed predators and fire determine a major reproductive strategy

www.nrfirescience.org/resource/11982

Recent work in model systems has demonstrated significant effects of rapid evolutionary change on ecological processes (eco-evolutionary dynamics). Fewer studies have addressed whether eco-evolutionary dynamics structure natural ecosystems. We investigated variation in the frequency of serotiny in lodgepole pine (*Pinus contorta*), a...

Author(s): Matt V. Talluto, Craig W. Benkman

Year Published: 2013

Type: Document

Book or Chapter or Journal Article

Comparing the effect of salvage logging on birds in the Mediterranean Basin and the Rocky Mountains: common patterns, different conservation implications

www.nrfirescience.org/resource/12016

Postfire salvage logging is currently a controversial issue because of the impact that the removal of snags has on ecosystem structure and function. Although it is a common practice worldwide, the absence of comparisons across regions hinders the development of broad generalizations. Here we compare bird response to postfire salvage...

Author(s): Josep Rost, Richard L. Hutto, Lluís Brotons, Pere Pons

Year Published: 2013

Type: Document

Book or Chapter or Journal Article

Summary of science, activities, programs, and policies that influence the rangewide conservation of greater sage-grouse (*Centrocercus urophasianus*)

www.nrfirescience.org/resource/15420

Because of their broad range, variations in population traits and characteristics across this range, and the variability in habitat conditions and threats within this range, conservation of sage-grouse is a unique challenge compared to isolated or range-restricted species, primarily due to the scale of the effort. This complexity is...

Author(s): D.J. Manier, D.J.A. Wood, Z.H. Bowen, R.M. Donovan, M.J. Holloran, L.M. Juliusson, K.S. Mayne, S.J. Oyler-McCance, F.R. Quamen, D.J. Saher, A.J. Titolo

Year Published: 2013

Type: Document

Technical Report or White Paper

Goodyera repens (northern rattlesnake plantain)

www.nrfirescience.org/resource/10928

This FEIS species review synthesizes information on the relationship of *Goodyera repens* (northern rattlesnake plantain) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): Ilana L. Abrahamson

Year Published: 2013

Type: Document
Synthesis

Accipiter gentilis (northern goshawk)

www.nrfirescience.org/resource/10662

This FEIS species review synthesizes information on the relationship of *Accipiter gentilis* (northern goshawk) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Katharine R. Stone

Year Published: 2013

Type: Document

Synthesis

Interactive effects of wildfire, forest management, and isolation on amphibian and parasite abundance

www.nrfirescience.org/resource/11970

Projected increases in wildfire and other climate-driven disturbances will affect populations and communities worldwide, including host-parasite relationships. Research in temperate forests has shown that wildfire can negatively affect amphibians, but this research has occurred primarily outside of managed landscapes where...

Author(s): Blake R. Hossack, Winsor H. Lowe, R. Ken Honeycutt, Sean A. Parks, Paul S. Corn

Year Published: 2013

Type: Document

Book or Chapter or Journal Article

Response of highly valued resources and assets to wildfire within Grand Teton National Park and Bridger-Teton National Forest

www.nrfirescience.org/resource/12744

Grand Teton National Park (GTNP) and the Bridger-Teton National Forest (BTNF) cover approximately 3.7 million acres within the Greater Yellowstone Ecosystem. The majority of this land base is fairly remote, much of it either designated Wilderness or roadless, and composed of fire-adapted ecosystems. To add complexity to the fire...

Author(s): Joe H. Scott, Don Helmbrecht, Martha A. Williamson

Year Published: 2013

Type: Document

Technical Report or White Paper

Trial by fire

www.nrfirescience.org/resource/12135

1) Conservation partners across 11 western states are rallying in unprecedented fashion to reduce threats to sage-grouse and the sagebrush ecosystem they occupy. 2) Improvements made in the Bureau of Land Management's (BLM) wildfire policy are a tremendous step forward but the 2012 wildfire season is a harsh reminder that more...

Author(s): Tim Murphy, David E. Naugle, Randall Eardley, Jeremy D. Maestas, Tim Griffiths, Michael L. Pellant, San J. Stiver

Year Published: 2013

Type: Document

Book or Chapter or Journal Article

Consequences of spatial heterogeneity for ecosystem services in changing forest landscapes: priorities for future research

www.nrfirescience.org/resource/13431

Changes in key drivers (e.g., climate, disturbance regimes and land use) may affect the sustainability of forest landscapes and set the stage for increased tension among competing ecosystem services. We addressed two questions about a suite of supporting, regulating and provisioning ecosystem services in each of two well-studied...

Author(s): Monica G. Turner, Daniel C. Donato, William H. Romme

Year Published: 2013

Type: Document

Book or Chapter or Journal Article

Toxicodendron radicans, Toxicodendron rydbergii (eastern poison-ivy, western poison-ivy)

www.nrfirescience.org/resource/10525

This FEIS species review synthesizes information on the relationship of Toxicodendron radicans, Toxicodendron rydbergii (eastern poison-ivy, western poison-ivy) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on...

Author(s): Robin J. Innes

Year Published: 2012

Type: Document

Synthesis

Effects of ungulate herbivory on aspen, cottonwood, and willow development under forest fuels treatment regimes

www.nrfirescience.org/resource/8337

Herbivory by domestic and wild ungulates can dramatically affect vegetation structure, composition and dynamics in nearly every terrestrial ecosystem of the world. These effects are of particular concern in forests of western North America, where intensive herbivory by native and domestic ungulates has the potential to substantially...

Author(s): Bryan A. Endress, Michael J. Wisdom, Martin Vavra, Catherine G. Parks, Brian L. Dick, Bridgett J. Naylor, Jennifer M. Boyd

Year Published: 2012

Type: Document

Book or Chapter or Journal Article

Betula occidentalis (water birch)

www.nrfirescience.org/resource/10582

This FEIS species review synthesizes information on the relationship of Betula occidentalis (water birch) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Corey L. Gucker

Year Published: 2012

Type: Document

Synthesis

Odocoileus hemionus (mule deer)

www.nrfirescience.org/resource/10521

This FEIS species review synthesizes information on the relationship of Odocoileus hemionus (mule deer) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes,

and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Robin J. Innes

Year Published: 2012

Type: Document

Synthesis

Rapid increases and time-lagged declines in amphibian occupancy after wildfire

www.nrfirescience.org/resource/11998

Climate change is expected to increase the frequency and severity of drought and wildfire. Aquatic and moisture-sensitive species, such as amphibians, may be particularly vulnerable to these modified disturbance regimes because large wildfires often occur during extended droughts and thus may compound environmental threats. However...

Author(s): Blake R. Hossack, Winsor H. Lowe, Paul S. Corn

Year Published: 2012

Type: Document

Book or Chapter or Journal Article

Salix amygdaloides (peachleaf willow)

www.nrfirescience.org/resource/10658

This FEIS species review synthesizes information on the relationship of *Salix amygdaloides* (peachleaf willow) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology...

Author(s): Janet L. Fryer

Year Published: 2012

Type: Document

Synthesis

Rubus parviflorus (thimbleberry)

www.nrfirescience.org/resource/10676

This FEIS species review synthesizes information on the relationship of *Rubus parviflorus* (thimbleberry) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Corey L. Gucker

Year Published: 2012

Type: Document

Synthesis

Principal short-term findings of the National Fire and Fire Surrogate study

www.nrfirescience.org/resource/12600

Principal findings of the National Fire and Fire Surrogate (FFS) study are presented in an annotated bibliography and summarized in tabular form by site, discipline (ecosystem component), treatment type, and major theme. Composed of 12 sites, the FFS is a comprehensive multidisciplinary experiment designed to evaluate the costs and...

Author(s): James D. McIver, Karen Erickson, Andrew P. Youngblood

Year Published: 2012

Type: Document

Synthesis, Technical Report or White Paper

The effects of forest fuel-reduction treatments in the United States

www.nrfirescience.org/resource/12579

The current conditions of many seasonally dry forests in the western and southern United States, especially those that once experienced low- to moderate-intensity fire regimes, leave them uncharacteristically susceptible to high-severity wildfire. Both prescribed fire and its mechanical surrogates are generally successful in meeting...

Author(s): Scott L. Stephens, James D. McIver, Ralph E. Boerner, Christopher J. Fettig, Joseph B. Fontaine, Bruce R. Hartsough, Patricia L. Kennedy, Dylan W. Schwilk

Year Published: 2012

Type: Document

Book or Chapter or Journal Article, Synthesis

Ranunculus glaberrimus (sagebrush buttercup)

www.nrfirescience.org/resource/10794

This FEIS species review synthesizes information on the relationship of *Ranunculus glaberrimus* (sagebrush buttercup) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Rachelle Meyer

Year Published: 2012

Type: Document

Synthesis

A new forest fire paradigm: the need for high-severity fires

www.nrfirescience.org/resource/14505

During the 2012 fire season from June through August, wildfires in the droughtstricken western and central United States burned more than 3.6 million acres of forest and shrubland. In the hot, dry, windy conditions seen that season, a single spark can start an understory fire that ascends into the...

Author(s): Monica L. Bond, Rodney B. Siegel, Richard L. Hutto, Victoria A. Saab, Stephen A. Shunk

Year Published: 2012

Type: Document

Book or Chapter or Journal Article

Understanding the effects of fire management practices on forest health: implications for weeds and vegetation structure

www.nrfirescience.org/resource/11986

Current fire policy to restore ecosystem function and resiliency and reduce buildup of hazardous fuels implies a larger future role for fire (both natural and human ignitions) (USDA Forest Service and U.S. Department of the Interior 2000). Yet some fire management (such as building fire line, spike camps, or helispots) potentially...

Author(s): Anne E. Black, Peter Landres

Year Published: 2012

Type: Document

Technical Report or White Paper

Cornus sericea (red-osier dogwood)

www.nrfirescience.org/resource/10629

This FEIS species review synthesizes information on the relationship of *Cornus sericea* (red-osier dogwood) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general

management. This species review can be...

Author(s): Corey L. Gucker

Year Published: 2012

Type: Document

Synthesis

Cornus canadensis (bunchberry)

www.nrfirescience.org/resource/10680

This FEIS species review synthesizes information on the relationship of *Cornus canadensis* (bunchberry) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Corey L. Gucker

Year Published: 2012

Type: Document

Synthesis

The beauty of a burned forest

www.nrfirescience.org/resource/14506

In the Northern Rockies, forests that have escaped fire are rare. In the Crown, fire is just as important as rainfall and sunlight are to plants and animals. For the vast majority of forest types within the region, the predominant fire regime is one of infrequent, intense, stand-replacement fires—not one of...

Author(s): Richard L. Hutto

Year Published: 2011

Type: Document

Research Brief or Fact Sheet

Restoration of whitebark pine forests in the northern Rocky Mountains, USA

www.nrfirescience.org/resource/11900

Whitebark pine (*Pinus albicaulis*) has been declining across much of its range in North America because of the combined effects of mountain pine beetle epidemics, fire exclusion policies, and widespread exotic blister rust infections. Whitebark pine seed is dispersed by a bird, the Clark's nutcracker, which caches seed in open,...

Author(s): Robert E. Keane

Year Published: 2011

Type: Document

Conference Proceedings

Amphibian responses to wildfire in the western United States: emerging patterns from short-term studies

www.nrfirescience.org/resource/8285

The increased frequency and severity of large wildfires in the western United States is an important ecological and management issue with direct relevance to amphibian conservation. Although the knowledge of fire effects on amphibians in the region is still limited relative to most other vertebrate species, we reviewed the current...

Author(s): Blake R. Hossack, David S. Pilliod

Year Published: 2011

Type: Document

Book or Chapter or Journal Article, Synthesis

A regional experiment to evaluate effects of fire and fire surrogate treatments in the sagebrush biome - Final Report to the Joint Fire Science Program

www.nrfirescience.org/resource/11225

SageSTEP is a comprehensive regional experiment that provides critical information to managers faced with a sagebrush steppe ecosystem that is increasingly at risk from wildfire, invasive plants, and climate change. The experiment provides managers with information that can be used to restore ecological communities across the 100+...

Author(s): James D. McIver, Hugh Barrett, Mark W. Brunson, Stephen C. Bunting, Jeanne C. Chambers, Carla M. D'Antonio, Paul S. Doescher, Dale Johnson, Sherm Karl, Steve Knick, Richard F. Miller, Michael L. Pellant, Frederick B. Pierson, David A. Pyke, Kimberly Rollins, Bruce A. Roundy, Eugene Schupp, Robin J. Tausch, David Turner, Michael J. Wisdom

Year Published: 2011

Type: Document

Technical Report or White Paper

Quercus macrocarpa (bur oak)

www.nrfirescience.org/resource/10669

This FEIS species review synthesizes information on the relationship of *Quercus macrocarpa* (bur oak) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Corey L. Gucker

Year Published: 2011

Type: Document

Synthesis

Euphorbia esula (leafy spurge)

www.nrfirescience.org/resource/10451

This FEIS species review synthesizes information on the relationship of *Euphorbia esula* (leafy spurge) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy,...

Author(s): Corey L. Gucker

Year Published: 2011

Type: Document

Synthesis

Antennaria parvifolia (littleleaf pussytoes)

www.nrfirescience.org/resource/10657

This FEIS species review synthesizes information on the relationship of *Antennaria parvifolia* (littleleaf pussytoes) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Janet L. Fryer

Year Published: 2011

Type: Document

Synthesis

Effects of post-fire salvage logging on cavity-nesting birds and small mammals in southeastern Montana

www.nrfirescience.org/resource/12052

We investigated how post-fire salvage logging of Ponderosa Pine (*Pinus ponderosa*) affected populations of cavity-nesting birds and small mammals in southeastern Montana in 2004 and 2005. We examined two salvage and two control plots with three point-count stations and one small mammal trap site randomly distributed across each plot...

Author(s): William J. Kronland, Marco Restani

Year Published: 2011

Type: Document

Book or Chapter or Journal Article

The magnificent high-elevation five-needle white pines: ecological roles and future outlook

www.nrfirescience.org/resource/11895

The High Five symposium is devoted to exchanging information about a small group of pines with little commercial value but great importance to the ecology of high-mountain ecosystems of the West. These High Five pines include the subalpine and treeline species-whitebark (*Pinus albicaulis*), Rocky Mountain bristlecone (*P. aristata*),...

Author(s): Diana F. Tomback, Peter Achuff, Anna W. Schoettle, John W. Schwandt, Ron J. Mastrogiuseppe

Year Published: 2011

Type: Document

Conference Proceedings, Synthesis

Twenty years after the 1988 Yellowstone fires: lessons about disturbance and ecosystems

www.nrfirescience.org/resource/8308

The 1988 Yellowstone fires were among the first in what has proven to be an upsurge in large severe fires in the western USA during the past 20 years. At the time of the fires, little was known about the impacts of such a large severe disturbance because scientists had had few previous opportunities to study such an event...

Author(s): William H. Romme, Mark S. Boyce, Robert E. Gresswell, Evelyn H. Merrill, G. Wayne Minshall, Cathy L. Whitlock, Monica G. Turner

Year Published: 2011

Type: Document

Book or Chapter or Journal Article

Predicted fates of ground-nesting bees in soil heated by wildfire: thermal tolerances of life stages and a survey of nesting depths

www.nrfirescience.org/resource/12144

Periodic wildfire defines plant community composition and dynamics in many of the world's semi-arid biomes, whose climates and floras also favor wild bee diversity. Invasive flammable grasses, deforestation, historical fire suppression and human ignition are increasing fire frequency and intensifying its severity, as well as...

Author(s): James H. Cane, John L. Neff

Year Published: 2011

Type: Document

Book or Chapter or Journal Article

Cervus elaphus (elk)

www.nrfirescience.org/resource/10523

This FEIS species review synthesizes information on the relationship of *Cervus elaphus* (elk) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general...

Author(s): Robin J. Innes
Year Published: 2011
Type: Document
Synthesis

Woodpecker habitat after the fire

www.nrfirescience.org/resource/13508

Public land managers are asked to minimize fuel levels after fires, including using techniques such as salvage logging. They are also responsible for maintaining suitable wildlife habitat, especially for species of concern to state and federal agencies. An area where these responsibilities could conflict is in the use of salvage...

Author(s): Victoria A. Saab
Year Published: 2011
Type: Document
Research Brief or Fact Sheet

Alnus incana, Alnus incana subsp. rugosa, Alnus incana subsp. tenuifolia (gray alder, speckled alder, thinleaf alder)

www.nrfirescience.org/resource/10660

This FEIS species review synthesizes information on the relationship of *Alnus incana*, *Alnus incana* subsp. *rugosa*, *Alnus incana* subsp. *tenuifolia* (gray alder, speckled alder, thinleaf alder) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations....

Author(s): Janet L. Fryer
Year Published: 2011
Type: Document
Synthesis

Bonasa umbellus (ruffed grouse)

www.nrfirescience.org/resource/10793

This FEIS species review synthesizes information on the relationship of *Bonasa umbellus* (ruffed grouse) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Rachelle Meyer
Year Published: 2011
Type: Document
Synthesis

Oreamnos americanus (mountain goat)

www.nrfirescience.org/resource/10522

This FEIS species review synthesizes information on the relationship of *Oreamnos americanus* (mountain goat) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology,...

Author(s): Robin J. Innes
Year Published: 2011
Type: Document
Synthesis

Muhlenbergia racemosa (green muhly)

www.nrfirescience.org/resource/10939

This FEIS species review synthesizes information on the relationship of *Muhlenbergia racemosa* (green muhly) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology,...

Author(s): Kristin L. Zouhar

Year Published: 2011

Type: Document

Synthesis

Picoides arcticus (black-backed woodpecker)

www.nrfirescience.org/resource/10857

This FEIS species review synthesizes information on the relationship of *Picoides arcticus* (black-backed woodpecker) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Katharine R. Stone

Year Published: 2011

Type: Document

Synthesis

Amorpha canescens (leadplant)

www.nrfirescience.org/resource/10659

This FEIS species review synthesizes information on the relationship of *Amorpha canescens* (leadplant) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Janet L. Fryer

Year Published: 2011

Type: Document

Synthesis

Populus alba, Populus x canescens, Populus x heimburgeri, Populus x rouleauiana, Populus x tomentosa (white poplar, gray poplar, Heimbürger's poplar, Roulwau's poplar, Chinese white poplar)

www.nrfirescience.org/resource/10457

This FEIS species review synthesizes information on the relationship of *Populus alba*, *Populus x canescens*, *Populus x heimburgeri*, *Populus x rouleauiana*, *Populus x tomentosa* (white poplar, gray poplar, Heimbürger's poplar, Roulwau's poplar, Chinese white poplar) to fire--how fire affects the species and its habitat, invasiveness of...

Author(s): Corey L. Gucker

Year Published: 2010

Type: Document

Synthesis

Holodiscus dumosus (rockspirea)

www.nrfirescience.org/resource/10648

This FEIS species review synthesizes information on the relationship of *Holodiscus dumosus* (rockspirea) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy,

distribution, basic biology, and...

Author(s): Janet L. Fryer

Year Published: 2010

Type: Document

Synthesis

Polygonum aviculare (prostrate knotweed)

www.nrfirescience.org/resource/10471

This FEIS species review synthesizes information on the relationship of *Polygonum aviculare* (prostrate knotweed) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species'...

Author(s): Katharine R. Stone

Year Published: 2010

Type: Document

Synthesis

Current health issues and management strategies for white pines in the western United States and Canada

www.nrfirescience.org/resource/8233

The introduced pathogen *Cronartium ribicola*, cause of white pine blister rust, has spread across much of western North America and established known infestations within all but one species of white pine endemic to western Canada and the United States. Blister rust damage to severely diseased trees reduces reproduction and survival....

Author(s): John W. Schwandt, I. Blakley Lockman, John T. Kliejunas, J. A. Muir

Year Published: 2010

Type: Document

Book or Chapter or Journal Article, Synthesis

Fuel reduction management practices in riparian areas of the Western USA

www.nrfirescience.org/resource/12577

Two decades of uncharacteristically severe wildfires have caused government and private land managers to actively reduce hazardous fuels to lessen wildfire severity in western forests, including riparian areas. Because riparian fuel treatments are a fairly new management strategy, we set out to document their frequency and extent on...

Author(s): Katharine R. Stone, David S. Pilliod, Kathleen A. Dwire, Charles C. Rhoades, Sherry P.

Wollrab, Michael K. Young

Year Published: 2010

Type: Document

Book or Chapter or Journal Article, Synthesis

Melilotus alba, Melilotus officinalis (white sweetclover, yellow sweetclover)

www.nrfirescience.org/resource/10456

This FEIS species review synthesizes information on the relationship of *Melilotus alba*, *Melilotus officinalis* (white sweetclover, yellow sweetclover) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is...

Author(s): Corey L. Gucker

Year Published: 2010

Type: Document

Synthesis

Integrating fuel treatment into ecosystem management: a proposed project planning process

www.nrfirescience.org/resource/8206

Concern over increased wildland fire threats on public lands throughout the western United States makes fuel reduction activities the primary driver of many management projects. This single-issue focus recalls a management planning process practiced frequently in recent decades - a least-harm approach where the primary objective is...

Author(s): Keith Stockmann, Kevin D. Hyde, J. Greg Jones, Dan R. Loeffler, Robin P. Silverstein

Year Published: 2010

Type: Document

Book or Chapter or Journal Article, Management or Planning Document

Linanthus pungens (granite prickly-phlox)

www.nrfirescience.org/resource/10520

This FEIS species review synthesizes information on the relationship of *Linanthus pungens* (granite prickly-phlox) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Robin J. Innes

Year Published: 2010

Type: Document

Synthesis

Martes americana (American marten)

www.nrfirescience.org/resource/10856

This FEIS species review synthesizes information on the relationship of *Martes americana* (American marten) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology,...

Author(s): Katharine R. Stone

Year Published: 2010

Type: Document

Synthesis

Alces americanus (moose)

www.nrfirescience.org/resource/10524

This FEIS species review synthesizes information on the relationship of *Alces americanus* (moose) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general...

Author(s): Robin J. Innes

Year Published: 2010

Type: Document

Synthesis

Falco peregrinus (peregrine falcon)

www.nrfirescience.org/resource/10748

This FEIS species review synthesizes information on the relationship of *Falco peregrinus* (peregrine falcon) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy,

distribution, basic biology, ...
Author(s): Peggy Luensmann
Year Published: 2010
Type: Document
Synthesis

Holodiscus discolor (oceanspray)

www.nrfirescience.org/resource/10653

This FEIS species review synthesizes information on the relationship of *Holodiscus discolor* (oceanspray) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Janet L. Fryer
Year Published: 2010
Type: Document
Synthesis

Euphorbia cyparissias (cypress spruce)

www.nrfirescience.org/resource/10455

This FEIS species review synthesizes information on the relationship of *Euphorbia cyparissias* (cypress spruce) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy...

Author(s): Corey L. Gucker
Year Published: 2010
Type: Document
Synthesis

Ailanthus altissima (tree-of-heaven)

www.nrfirescience.org/resource/10450

This FEIS species review synthesizes information on the relationship of *Ailanthus altissima* (tree-of-heaven) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy,...

Author(s): Janet L. Fryer
Year Published: 2010
Type: Document
Synthesis

Blister rust and western forest biodiversity: ecology, values and outlook for white pines

www.nrfirescience.org/resource/8234

Eight white pine species are widely distributed among the forests of western Canada and the United States. The different forest communities with these species contribute biodiversity to the western landscape. The trees themselves provide various ecosystem services, including wildlife habitat and watershed protection. White pine...

Author(s): Diana F. Tomback, Peter Achuff
Year Published: 2010
Type: Document
Book or Chapter or Journal Article, Synthesis

Schedonorus pratensis (meadow fescue)

www.nrfirescience.org/resource/10472

This FEIS species review synthesizes information on the relationship of *Schedonorus pratensis* (meadow fescue) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy...

Author(s): Katharine R. Stone

Year Published: 2010

Type: Document

Synthesis

Fire and mice: seed predation moderates fire's influence on conifer recruitment

www.nrfirescience.org/resource/8207

In fire-adapted ecosystems, fire is presumed to be the dominant ecological force, and little is known about how consumer interactions influence forest regeneration. Here, we investigated seed predation by deer mice (*Peromyscus maniculatus*) and its effects on recruitment of ponderosa pine (*Pinus ponderosa*) and Douglas-fir (...)

Author(s): Rafal Zwolak, Dean E. Pearson, Yvette K. Ortega, Elizabeth E. Crone

Year Published: 2010

Type: Document

Book or Chapter or Journal Article

Prunus americana (American plum)

www.nrfirescience.org/resource/10661

This FEIS species review synthesizes information on the relationship of *Prunus americana* (American plum) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Janet L. Fryer

Year Published: 2010

Type: Document

Synthesis

The forgotten stage of forest succession: early-successional ecosystems on forest sites

www.nrfirescience.org/resource/14597

Early-successional forest ecosystems that develop after stand-replacing or partial disturbances are diverse in species, processes, and structure. Post-disturbance ecosystems are also often rich in biological legacies, including surviving organisms and organically derived structures, such as woody debris. These legacies and...

Author(s): Mark E. Swanson, Jerry F. Franklin, Robert L. Beschta, Charles M. Crisafulli, Dominick A. DellaSala, Richard L. Hutto, David B. Lindenmayer, Frederick J. Swanson

Year Published: 2010

Type: Document

Book or Chapter or Journal Article, Synthesis

Hieracium aurantiacum (orange hawkweed)

www.nrfirescience.org/resource/10474

This FEIS species review synthesizes information on the relationship of *Hieracium aurantiacum* (orange hawkweed) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species'...

Author(s): Katharine R. Stone
Year Published: 2010
Type: Document
Synthesis

Coronilla varia (crownvetch)

www.nrfirescience.org/resource/10452

This FEIS species review synthesizes information on the relationship of *Coronilla varia* (crownvetch) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy,...

Author(s): Corey L. Gucker
Year Published: 2010
Type: Document
Synthesis

Thermal characteristics of amphibian microhabitats in a fire-disturbed landscape

www.nrfirescience.org/resource/8402

Disturbance has long been a central issue in amphibian conservation, often regarding negative effects of logging or other forest management activities, but some amphibians seem to prefer disturbed habitats. After documenting increased use of recently burned forests by boreal toads (*Bufo boreas*), we hypothesized that burned habitats...

Author(s): Blake R. Hossack, Lisa A. Eby, C. Gregory Guscio, Paul S. Corn
Year Published: 2009
Type: Document
Book or Chapter or Journal Article

Carex inops subsp. heliophila, Carex inops subsp. inops (sun sedge, long-stolon sedge)

www.nrfirescience.org/resource/10649

This FEIS species review synthesizes information on the relationship of *Carex inops* subsp. *heliophila*, *Carex inops* subsp. *inops* (sun sedge, long-stolon sedge) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on...

Author(s): Janet L. Fryer
Year Published: 2009
Type: Document
Synthesis

Artemisia papposa (Owyhee sagebrush)

www.nrfirescience.org/resource/10799

This FEIS species review synthesizes information on the relationship of *Artemisia papposa* (Owyhee sagebrush) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology,...

Author(s): Rachelle Meyer
Year Published: 2009
Type: Document
Synthesis

Tanacetum vulgare (common tansy)

www.nrfirescience.org/resource/10453

This FEIS species review synthesizes information on the relationship of *Tanacetum vulgare* (common tansy) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy,...

Author(s): Corey L. Gucker

Year Published: 2009

Type: Document

Synthesis

Effects of timber harvest following wildfire in western North America

www.nrfirescience.org/resource/11122

Timber harvest following wildfire leads to different outcomes depending on the biophysical setting of the forest, pattern of burn severity, operational aspects of tree removal, and other management activities. Fire effects range from relatively minor, in which fire burns through the understory and may kill a few trees, to severe, in...

Author(s): David L. Peterson, James K. Agee, Gregory H. Aplet, Dennis P. Dykstra, Russell T. Graham, John F. Lehmkühl, David S. Pilliod, Donald F. Potts, Robert F. Powers, John D. Stuart

Year Published: 2009

Type: Document

Technical Report or White Paper

Berberis vulgaris (common barberry)

www.nrfirescience.org/resource/10454

This FEIS species review synthesizes information on the relationship of *Berberis vulgaris* (common barberry) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy,...

Author(s): Corey L. Gucker

Year Published: 2009

Type: Document

Synthesis

The effects of fire on avian communities: spatio-temporal attributes of the literature 1912-2003

www.nrfirescience.org/resource/12608

We reviewed the temporal, geographic, and biogeographic distribution, as well as relevant research and publication attributes, of 512 documents addressing the effects of fire on avian communities, to provide an assessment of the scope of this literature and recommendations for future research. We summarized relevant attributes of...

Author(s): Andreas Leidolf, John A. Bissonette

Year Published: 2009

Type: Document

Book or Chapter or Journal Article, Synthesis

Guide for quantifying fuels in the sagebrush steppe and juniper woodlands of the Great Basin

www.nrfirescience.org/resource/11107

Prescribed fire is increasingly used for fuels management and ecosystem restoration. Managers and fuels specialists of the Great Basin are often required to estimate fuel loadings to predict fire behavior, recommend fuel treatments, or restore an area to its natural fire regime. Because of invasive species and woodland encroachment...

Author(s): Andrea Stebleton, Stephen C. Bunting

Year Published: 2009
Type: Document
Research Brief or Fact Sheet

Listening to the message of the Black-backed Woodpecker, a hot fire specialist

www.nrfirescience.org/resource/11083

The Black-backed Woodpecker is an uncommon bird of the northern coniferous forests of North America. It is one of several species of fauna that are considered fire specialists. This woodpecker nests in cavities it creates in dead standing trees and feeds on wood-boring beetles and their larvae, which are also attracted to stressed...

Author(s): Elise LeQuire
Year Published: 2009
Type: Document
Research Brief or Fact Sheet

Muhlenbergia cuspidata (stonyhills muhly)

www.nrfirescience.org/resource/10652

This FEIS species review synthesizes information on the relationship of *Muhlenbergia cuspidata* (stonyhills muhly) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Janet L. Fryer
Year Published: 2009
Type: Document
Synthesis

Mapping tradeoffs in values at risk at the interface between wilderness and non-wilderness lands

www.nrfirescience.org/resource/11063

On the Flathead Indian Reservation in Montana, U.S., the Mission Mountains Tribal Wilderness is bordered by a buffer zone. To successfully improve forest health within that buffer zone and restore fire in the wilderness, the managing agency and the public need to work together to find solutions to increasingly threatening fuel...

Author(s): Alan E. Watson, Roian Matt, Tim Waters, Kari Gunderson, Stephen J. Carver, Brett Davis
Year Published: 2009
Type: Document
Conference Proceedings

Nest-site selection by cavity-nesting birds in relation to postfire salvage logging

www.nrfirescience.org/resource/8383

Large wildfire events in coniferous forests of the western United States are often followed by postfire timber harvest. The long-term impacts of postfire timber harvest on fire-associated cavity-nesting bird species are not well documented. We studied nest-site selection by cavity-nesting birds over a 10-year period (1994-2003),...

Author(s): Victoria A. Saab, Robin E. Russell, Jonathan G. Dudley
Year Published: 2009
Type: Document
Book or Chapter or Journal Article

Festuca thurberi (Thurber fescue)

www.nrfirescience.org/resource/10797

This FEIS species review synthesizes information on the relationship of *Festuca thurberi* (Thurber fescue) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Rachelle Meyer

Year Published: 2009

Type: Document

Synthesis

Grus canadensis, Grus canadensis canadensis, Grus canadensis nesiototes, Grus canadensis pratensis, Grus canadensis pulla, Grus canadensis rowani, Grus canadensis tabida (sandhill crane species)

www.nrfirescience.org/resource/10855

[Full Title: *Grus canadensis*, *Grus canadensis canadensis*, *Grus canadensis nesiototes*, *Grus canadensis pratensis*, *Grus canadensis pulla*, *Grus canadensis rowani*, *Grus canadensis tabida* (sandhill crane, lesser sandhill crane, Cuban sandhill crane, Florida sandhill crane, Mississippi sandhill crane, Canadian sandhill crane, greater...

Author(s): Katharine R. Stone

Year Published: 2009

Type: Document

Synthesis

Isatis tinctoria (dyer's woad)

www.nrfirescience.org/resource/10498

This FEIS species review synthesizes information on the relationship of *Isatis tinctoria* (dyer's woad) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy,...

Author(s): Kristin L. Zouhar

Year Published: 2009

Type: Document

Synthesis

Recovery of greater sage-grouse habitat features in Wyoming big sagebrush following prescribed fire

www.nrfirescience.org/resource/12127

The ability of prescribed fire to enhance habitat features for Greater Sage-Grouse (*Centrocercus urophasianus*) in Wyoming big sagebrush (*Artemisia tridentata wyomingensis*) in western North America is poorly understood. We evaluated recovery of habitat features important to wintering, nesting, and early brood-rearing Sage-Grouse in...

Author(s): Jeffrey L. Beck, John W. Connelly, Kerry P. Reese

Year Published: 2009

Type: Document

Book or Chapter or Journal Article

Synthesis of knowledge on the effects of fire and fire surrogates on wildlife in U.S. dry forests

www.nrfirescience.org/resource/12617

Dry forests throughout the United States are fire-dependent ecosystems, and much attention has been given to restoring their ecological function. As such, land managers often are tasked with reintroducing fire via prescribed fire, wildland fire use, and fire-surrogate treatments such as thinning and mastication.

During planning,...

Author(s): Patricia L. Kennedy, Joseph B. Fontaine

Year Published: 2009

Type: Document

Synthesis, Technical Report or White Paper

Potentilla hippiana (woolly cinquefoil)

www.nrfirescience.org/resource/10792

This FEIS species review synthesizes information on the relationship of *Potentilla hippiana* (woolly cinquefoil) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Rachelle Meyer

Year Published: 2009

Type: Document

Synthesis

Artemisia nova (black sagebrush)

www.nrfirescience.org/resource/10650

This FEIS species review synthesizes information on the relationship of *Artemisia nova* (black sagebrush) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Janet L. Fryer

Year Published: 2009

Type: Document

Synthesis

Fire is for the birds in northern mixed-grass prairie

www.nrfirescience.org/resource/11082

Roughly 25,000 acres of grassland in the National Wildlife Refuges of North Dakota and eastern Montana are treated every year with prescribed fire, mostly on northern mixed-grass prairie. Although this shrinking ecosystem is fire-adapted, there have been very few studies of the effects of prescribed fire on wildlife, introduced and...

Author(s): Marjie Brown

Year Published: 2008

Type: Document

Research Brief or Fact Sheet

Recoupling fire and aspen recruitment after wolf reintroduction in Yellowstone National Park, USA

www.nrfirescience.org/resource/8232

We report on the recent growth of upland aspen (*Populus tremuloides* Michx.) thickets in northwestern Yellowstone National Park, USA following wolf (*Canis lupus* L.) reintroduction in 1995. We compared aspen growth patterns in an area burned by the 1988 fires to aspen growth patterns in an adjacent unburned area. Elk (*Cervus elaphus* L...

Author(s): Joshua S. Halofsky, William J. Ripple, Robert L. Beschta

Year Published: 2008

Type: Document

Book or Chapter or Journal Article

Sanguisorba minor (small burnet)

www.nrfirescience.org/resource/10656

This FEIS species review synthesizes information on the relationship of *Sanguisorba minor* (small burnet) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Janet L. Fryer

Year Published: 2008

Type: Document

Synthesis

Potentilla glandulosa (sticky cinquefoil)

www.nrfirescience.org/resource/10822

This FEIS species review synthesizes information on the relationship of *Potentilla glandulosa* (sticky cinquefoil) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Sonja L. Reeves

Year Published: 2008

Type: Document

Synthesis

Restoration of northern Rocky Mountain moist forests: integrating fuel treatments from the site to the landscape

www.nrfirescience.org/resource/11991

Restoration and fuel treatments in the moist forests of the northern Rocky Mountains are complex and far different from those applicable to the dry ponderosa pine forests. In the moist forests, clearcuts are the favored method to use for growing early-seral western white pine and western larch. Nevertheless, clearcuts and their...

Author(s): Theresa B. Jain, Russell T. Graham, Robert Denner, Jonathan Sandquist, Jeffrey S. Evans, Matthew Butler, Karen Brockus, David Cobb, Daniel Frigard, Han-Sup Han, Jeff Halbrook

Year Published: 2008

Type: Document

Conference Proceedings, Technical Report or White Paper

Carex rossii (Ross's sedge)

www.nrfirescience.org/resource/10594

This FEIS species review synthesizes information on the relationship of *Carex rossii* (Ross's sedge) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Michelle B. Anderson

Year Published: 2008

Type: Document

Synthesis

Postfire recovery of sagebrush communities: assessment using spot-5 and very large-scale aerial imagery

www.nrfirescience.org/resource/8278

Much interest lies in long-term recovery rates of sagebrush communities after fire in the western United

States, as sagebrush communities comprise millions of hectares of rangelands and are an important wildlife habitat. Little is known about postfire changes in sagebrush canopy cover over time, especially at a landscape scale. We...

Author(s): Temuulen T. Sankey, Corey A. Moffet, Keith T. Weber

Year Published: 2008

Type: Document

Book or Chapter or Journal Article

Arctostaphylos rubra (red fruit bearberry)

www.nrfirescience.org/resource/10655

This FEIS species review synthesizes information on the relationship of *Arctostaphylos rubra* (red fruit bearberry) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Janet L. Fryer

Year Published: 2008

Type: Document

Synthesis

Gulo gulo (wolverine)

www.nrfirescience.org/resource/10747

This FEIS species review synthesizes information on the relationship of *Gulo gulo* (wolverine) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general...

Author(s): Peggy Luensmann

Year Published: 2008

Type: Document

Synthesis

Aulacomnium palustre (ribbed bog moss)

www.nrfirescience.org/resource/10646

This FEIS species review synthesizes information on the relationship of *Aulacomnium palustre* (ribbed bog moss) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology...

Author(s): Janet L. Fryer

Year Published: 2008

Type: Document

Synthesis

Cladonia arbuscula, Cladonia mitis, Cladonia rangiferia, Cladonia stellaris (shrubby reindeer lichen, green reindeer lichen, gray reindeer lichen, alpine reindeer lichen)

www.nrfirescience.org/resource/10800

This FEIS species review synthesizes information on the relationship of *Cladonia arbuscula*, *Cladonia mitis*, *Cladonia rangiferia*, *Cladonia stellaris* (shrubby reindeer lichen, green reindeer lichen, gray reindeer lichen, alpine reindeer lichen) to fire--how fire affects the species and its habitat, effects of the species on fuels and...

Author(s): Gregory T. Munger

Year Published: 2008

Type: Document

Synthesis

Sambucus racemosa (red elderberry)

www.nrfirescience.org/resource/10654

This FEIS species review synthesizes information on the relationship of *Sambucus racemosa* (red elderberry) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology,...

Author(s): Janet L. Fryer

Year Published: 2008

Type: Document

Synthesis

Carex rostrata, Carex utriculata (swollen beaked sedge, Northwest Territory sedge)

www.nrfirescience.org/resource/10595

This FEIS species review synthesizes information on the relationship of *Carex rostrata*, *Carex utriculata* (swollen beaked sedge, Northwest Territory sedge) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the...

Author(s): Michelle B. Anderson

Year Published: 2008

Type: Document

Synthesis

Nucifraga columbiana (Clark's nutcracker)

www.nrfirescience.org/resource/10782

This FEIS species review synthesizes information on the relationship of *Nucifraga columbiana* (Clark's nutcracker) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Nancy E. McMurray

Year Published: 2008

Type: Document

Synthesis

Indirect effects of fire severity on avian communities in ponderosa pine and aspen forests in western North America: a review

www.nrfirescience.org/resource/8365

description

Author(s): Kerri T. Vierling, Leigh B. Lentile

Year Published: 2008

Type: Document

Book or Chapter or Journal Article

Zuckia brandegeei (siltbush)

www.nrfirescience.org/resource/10667

This FEIS species review synthesizes information on the relationship of *Zuckia brandegeei* (siltbush) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Corey L. Gucker
Year Published: 2008
Type: Document
Synthesis

Burn and they will come! The western regional birds and burns study examines bird responses to prescribed fire

www.nrfirescience.org/resource/11088

Although prescribed fire is increasingly being used in ponderosa pine forests as a management tool to reduce the risk of future high-severity wildfire, its effects on wildlife habitat have rarely been examined. The Birds and Burns Network was created to assist managers in planning prescribed fire projects that will reduce fuels and...

Author(s): Jonathan Thompson
Year Published: 2008
Type: Document
Research Brief or Fact Sheet

The ecological importance of severe wildfires: some like it hot

www.nrfirescience.org/resource/8229

Many scientists and forest land managers concur that past fire suppression, grazing, and timber harvesting practices have created unnatural and unhealthy conditions in the dry, ponderosa pine forests of the western United States. Specifically, such forests are said to carry higher fuel loads and experience fires that are more severe...

Author(s): Richard L. Hutto
Year Published: 2008
Type: Document
Book or Chapter or Journal Article

Paying our way: thinking strategically to offset the cost of reducing fire hazard in western forests

www.nrfirescience.org/resource/11087

The fire hazard in many western forests is unacceptably high, posing risks to human health and property, wildlife habitat, and air and water quality. Cost is an inhibiting factor for reducing hazardous fuel, given the amount of acreage needing treatment. Thinning overly dense forests is one way to reduce fuel loads. Much of the...

Author(s): Rhonda L. Mazza
Year Published: 2008
Type: Document
Research Brief or Fact Sheet

Polytrichum juniperinum (juniper haircap moss)

www.nrfirescience.org/resource/10647

This FEIS species review synthesizes information on the relationship of *Polytrichum juniperinum* (juniper haircap moss) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Janet L. Fryer
Year Published: 2008
Type: Document
Synthesis

Dryopteris campyloptera, Dryopteris carthusiana, Dryopteris expansa, Dryopteris intermedia (mountain woodfern, spinulose woodfern, spreading woodfern, fancy fern)

www.nrfirescience.org/resource/10803

This FEIS species review synthesizes information on the relationship of *Dryopteris campyloptera*, *Dryopteris carthusiana*, *Dryopteris expansa*, *Dryopteris intermedia* (mountain woodfern, spinulose woodfern, spreading woodfern, fancy fern) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire...

Author(s): Gregory T. Munger

Year Published: 2008

Type: Document

Synthesis

Managing fire risk in the forests of the U.S. inland Northwest: a classic "wicked problem" in public land policy

www.nrfirescience.org/resource/11066

In their classic article published in the *Journal of Forestry* in 1986, Gerald Allen and Ernest Gould stated that the most daunting problems associated with public forest management have a "wicked" element: "Wicked problems share characteristics. Each can be considered as simply a symptom of some higher order problem-The definition..."

Author(s): Matthew S. Carroll, Keith A. Blatner, Patricia J. Cohn, Charles E. Keegan, Todd A. Morgan

Year Published: 2008

Type: Document

Conference Proceedings, Synthesis, Technical Report or White Paper

The response of Thurber's needlegrass to fall prescribed burning

www.nrfirescience.org/resource/11454

Thurber's needlegrass (*Achnatherum thurberianum* [Piper] Barkworth) is an important component of many sagebrush communities in the Intermountain West. Prescribed fall burning is often implemented in sagebrush plant communities to mimic historic wildfires, improve wildlife habitat, and increase livestock forage production. Burning is...

Author(s): Kirk W. Davies, Jonathan D. Bates

Year Published: 2008

Type: Document

Book or Chapter or Journal Article

Sphaeralcea grossulariifolia (gooseberryleaf globemallow)

www.nrfirescience.org/resource/10894

This FEIS species review synthesizes information on the relationship of *Sphaeralcea grossulariifolia* (gooseberryleaf globemallow) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy,...

Author(s): Jennifer E. Tollefson

Year Published: 2007

Type: Document

Synthesis

Home range size of Black-backed Woodpeckers in burned forests of southwestern Idaho

www.nrfirescience.org/resource/11416

We examined home range size of Black-backed Woodpeckers (*Picoides arcticus*) in burned ponderosa pine (*Pinus ponderosa*) / Douglas-fir (*Pseudotsuga menziesii*) forests of southwestern Idaho during

2000 and 2002 (6 and 8 years following fire). Home range size for 4 adult males during the post-fledging period was 115.6-420.9 ha using the...

Author(s): Jonathan G. Dudley, Victoria A. Saab

Year Published: 2007

Type: Document

Book or Chapter or Journal Article

Fragaria vesca (woodland strawberry)

www.nrfirescience.org/resource/10802

This FEIS species review synthesizes information on the relationship of *Fragaria vesca* (woodland strawberry) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology,...

Author(s): Gregory T. Munger

Year Published: 2007

Type: Document

Synthesis

Salix discolor (pussy willow)

www.nrfirescience.org/resource/10679

This FEIS species review synthesizes information on the relationship of *Salix discolor* (pussy willow) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Corey L. Gucker

Year Published: 2007

Type: Document

Synthesis

Strix nebulosa (great gray owl)

www.nrfirescience.org/resource/10900

This FEIS species review synthesizes information on the relationship of *Strix nebulosa* (great gray owl) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Elena D. Ulev

Year Published: 2007

Type: Document

Synthesis

Lynx canadensis (Canada lynx)

www.nrfirescience.org/resource/10897

This FEIS species review synthesizes information on the relationship of *Lynx canadensis* (Canada lynx) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Elena D. Ulev

Year Published: 2007

Type: Document

Synthesis

Arctostaphylos patula (greenleaf manzanita)

www.nrfirescience.org/resource/10705

This FEIS species review synthesizes information on the relationship of *Arctostaphylos patula* (greenleaf manzanita) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Alan S. Hauser

Year Published: 2007

Type: Document

Synthesis

Do high-density patches of coarse wood and regenerating saplings create browsing refugia for aspen (*Populus tremuloides*) in Yellowstone National Park (USA)?

www.nrfirescience.org/resource/13546

Following the extensive 1988 fires in Yellowstone, a mosaic of high-density patches of fallen logs and regenerating lodgepole pine (*Pinus contorta* var. *latifolia* Engelm. ex Wats.) saplings developed in the landscape. Such patches could potentially provide browsing refugia for post-fire aspen (*Populus tremuloides* Michx.)...

Author(s): James D. Forester, Dean P. Anderson, Monica G. Turner

Year Published: 2007

Type: Document

Book or Chapter or Journal Article

Nest densities of cavity-nesting birds in relation to postfire salvage logging and time since wildfire

www.nrfirescience.org/resource/8145

We monitored the nest densities and nest survival of seven cavity-nesting bird species, including four open-space foragers (American Kestrel [*Falco sparverius*], Lewis's Woodpecker [*Melanerpes lewis*], Western Bluebird [*Sialia mexicana*], and Mountain Bluebird [*S. currucoides*]) and three wood-foragers (Hairy Woodpecker [*Picoides*...

Author(s): Victoria A. Saab, Robin E. Russell, Jonathan G. Dudley

Year Published: 2007

Type: Document

Book or Chapter or Journal Article

Hieracium albiflorum (white hawkweed)

www.nrfirescience.org/resource/10816

This FEIS species review synthesizes information on the relationship of *Hieracium albiflorum* (white hawkweed) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology...

Author(s): Sonja L. Reeves

Year Published: 2007

Type: Document

Synthesis

Cynomys ludovicianus (black-tailed prairie dog)

www.nrfirescience.org/resource/10898

This FEIS species review synthesizes information on the relationship of *Cynomys ludovicianus* (black-tailed prairie dog) to fire--how fire affects the species and its habitat, effects of the species on fuels and

fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution,...

Author(s): Elena D. Ulev

Year Published: 2007

Type: Document

Synthesis

Neotoma cinerea (bushy-tailed woodrat)

www.nrfirescience.org/resource/10902

This FEIS species review synthesizes information on the relationship of *Neotoma cinerea* (bushy-tailed woodrat) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology...

Author(s): Elena D. Ulev

Year Published: 2007

Type: Document

Synthesis

Habitat suitability models for cavity-nesting birds in a postfire landscape

www.nrfirescience.org/resource/11411

Models of habitat suitability in postfire landscapes are needed by land managers to make timely decisions regarding postfire timber harvest and other management activities. Many species of cavity-nesting birds are dependent on postfire landscapes for breeding and other aspects of their life history and are responsive to postfire...

Author(s): Robin E. Russell, Victoria A. Saab, Jonathan G. Dudley

Year Published: 2007

Type: Document

Book or Chapter or Journal Article

Understanding the influence of local and landscape conditions on the occurrence and abundance of Black-backed Woodpeckers in burned forest patches

www.nrfirescience.org/resource/15635

Wildfire is the predominant disturbance agent in the Northern Rockies. The nearly annual occurrence of wildfire at some point in a larger landscape has served as the environmental backdrop against which our native wildlife species have evolved. A number of native species have, in fact, become dependent on wildfires or wildfire-...

Author(s): Richard L. Hutto, Deborah Austin, Sallie Hejl

Year Published: 2007

Type: Document

Technical Report or White Paper

Artemisia campestris (field sagewort)

www.nrfirescience.org/resource/10675

This FEIS species review synthesizes information on the relationship of *Artemisia campestris* (field sagewort) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology...

Author(s): Corey L. Gucker

Year Published: 2007

Type: Document

Synthesis

Symphoricarpos occidentalis (western snowberry)

www.nrfirescience.org/resource/10698

This FEIS species review synthesizes information on the relationship of *Symphoricarpos occidentalis* (western snowberry) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution,...

Author(s): Alan S. Hauser

Year Published: 2007

Type: Document

Synthesis

Hedysarum alpinum (alpine sweetvetch)

www.nrfirescience.org/resource/10672

This FEIS species review synthesizes information on the relationship of *Hedysarum alpinum* (alpine sweetvetch) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology...

Author(s): Corey L. Gucker

Year Published: 2007

Type: Document

Synthesis

Poa bulbosa (bulbous bluegrass)

www.nrfirescience.org/resource/10682

This FEIS species review synthesizes information on the relationship of *Poa bulbosa* (bulbous bluegrass) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Corey L. Gucker

Year Published: 2007

Type: Document

Synthesis

Linum lewisii (Lewis flax)

www.nrfirescience.org/resource/10815

This FEIS species review synthesizes information on the relationship of *Linum lewisii* (Lewis flax) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Sonja L. Reeves

Year Published: 2007

Type: Document

Synthesis

Mustela nigripes (black-footed ferret)

www.nrfirescience.org/resource/10903

This FEIS species review synthesizes information on the relationship of *Mustela nigripes* (black-footed ferret) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy,

distribution, basic biology...

Author(s): Elena D. Ulev

Year Published: 2007

Type: Document

Synthesis

Betula glandulosa (bog birch)

www.nrfirescience.org/resource/10740

This FEIS species review synthesizes information on the relationship of *Betula glandulosa* (bog birch) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Jennifer E. Tollefson

Year Published: 2007

Type: Document

Synthesis

Responses of pond-breeding amphibians to wildfire: short-term patterns in occupancy and colonization

www.nrfirescience.org/resource/8249

Wildland fires are expected to become more frequent and severe in many ecosystems, potentially posing a threat to many sensitive species. We evaluated the effects of a large, stand-replacement wildfire on three species of pond-breeding amphibians by estimating changes in occupancy of breeding sites during the three years before and...

Author(s): Blake R. Hossack, Paul S. Corn

Year Published: 2007

Type: Document

Book or Chapter or Journal Article

Free selection: a silvicultural option

www.nrfirescience.org/resource/12133

Forest management objectives continue to evolve as the desires and needs of society change. The practice of silviculture has risen to the challenge by supplying silvicultural methods and systems to produce desired stand and forest structures and compositions to meet these changing objectives. For the most part, the practice of...

Author(s): Russell T. Graham, Theresa B. Jain, Jonathan Sandquist

Year Published: 2007

Type: Document

Conference Proceedings, Technical Report or White Paper

Rangifer tarandus (caribou)

www.nrfirescience.org/resource/10746

This FEIS species review synthesizes information on the relationship of *Rangifer tarandus* (caribou) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Peggy Luensmann

Year Published: 2007

Type: Document

Synthesis

Martes pennanti (fisher)

www.nrfirescience.org/resource/10796

This FEIS species review synthesizes information on the relationship of *Martes pennanti* (fisher) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general...

Author(s): Rachelle Meyer

Year Published: 2007

Type: Document

Synthesis

Pyrola asarifolia (pink wintergreen)

www.nrfirescience.org/resource/10668

This FEIS species review synthesizes information on the relationship of *Pyrola asarifolia* (pink wintergreen) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology,...

Author(s): Corey L. Gucker

Year Published: 2007

Type: Document

Synthesis

Geranium bicknellii (Bicknell's geranium)

www.nrfirescience.org/resource/10817

This FEIS species review synthesizes information on the relationship of *Geranium bicknellii* (Bicknell's geranium) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Sonja L. Reeves

Year Published: 2007

Type: Document

Synthesis

Mertensia paniculata (tall bluebells)

www.nrfirescience.org/resource/10821

This FEIS species review synthesizes information on the relationship of *Mertensia paniculata* (tall bluebells) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology...

Author(s): Sonja L. Reeves

Year Published: 2007

Type: Document

Synthesis

Birds and burns of the Interior West: descriptions, habitats, and management in western forests

www.nrfirescience.org/resource/11123

This publication provides information about prescribed fire effects on habitats and populations of birds of the interior West and a synthesis of existing information on bird responses to fire across North America. Our literature synthesis indicated that aerial, ground, and bark insectivores favored recently burned habitats, whereas...

Author(s): Victoria A. Saab, William M. Block, Robin E. Russell, John F. Lehmkuhl, Lisa Bate, Rachel White
Year Published: 2007
Type: Document
Synthesis, Technical Report or White Paper

Development of initial Wildland Fire Use documentation for Charles M. Russell National Wildlife Refuge

www.nrfirescience.org/resource/11077

The Charles M. Russell National Wildlife Refuge manages ecosystems that depend on fire for their maintenance. Fire is abundant in and adjacent to the refuge where lightning and human ignitions can rapidly spread in grass and shrub fuels. Farm and ranch land which would be adversely impacted by fire, pose a significant logistical...

Author(s): Bill Clark, Doug Stephen, Pat Stephen, Laurie L. Kurth, Ken Kerr
Year Published: 2006
Type: Document
Management or Planning Document

Calypso bulbosa (fairy slipper)

www.nrfirescience.org/resource/10818

This FEIS species review synthesizes information on the relationship of *Calypso bulbosa* (fairy slipper) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Sonja L. Reeves
Year Published: 2006
Type: Document
Synthesis

Gymnorhinus cyanocephalus (pinyon jay)

www.nrfirescience.org/resource/10904

This FEIS species review synthesizes information on the relationship of *Gymnorhinus cyanocephalus* (pinyon jay) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology...

Author(s): Elena D. Ulev
Year Published: 2006
Type: Document
Synthesis

Opuntia humifusa (eastern pricklypear)

www.nrfirescience.org/resource/10863

This FEIS species review synthesizes information on the relationship of *Opuntia humifusa* (eastern pricklypear) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology...

Author(s): Jane E. Taylor
Year Published: 2006
Type: Document
Synthesis

Berberis repens (Oregon grape)

www.nrfirescience.org/resource/10905

This FEIS species review synthesizes information on the relationship of *Berberis repens* (Oregon grape) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Elena D. Ulev

Year Published: 2006

Type: Document

Synthesis

Ledum groenlandicum (bog Labrador tea)

www.nrfirescience.org/resource/10670

This FEIS species review synthesizes information on the relationship of *Ledum groenlandicum* (bog Labrador tea) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology...

Author(s): Corey L. Gucker

Year Published: 2006

Type: Document

Synthesis

Goodyera oblongifolia (western rattlesnake plantain)

www.nrfirescience.org/resource/10820

This FEIS species review synthesizes information on the relationship of *Goodyera oblongifolia* (western rattlesnake plantain) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution...

Author(s): Sonja L. Reeves

Year Published: 2006

Type: Document

Synthesis

Cercocarpus montanus (true mountain-mahogany)

www.nrfirescience.org/resource/10673

This FEIS species review synthesizes information on the relationship of *Cercocarpus montanus* (true mountain-mahogany) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Corey L. Gucker

Year Published: 2006

Type: Document

Synthesis

Apocynum cannabinum (Indianhemp)

www.nrfirescience.org/resource/10819

This FEIS species review synthesizes information on the relationship of *Apocynum cannabinum* (Indianhemp) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Sonja L. Reeves
Year Published: 2006
Type: Document
Synthesis

Changes in downed wood and forest structure after prescribed fire in ponderosa pine forests

www.nrfirescience.org/resource/11002

Most prescribed fire plans focus on reducing wildfire hazards with little consideration given to effects on wildlife populations and their habitats. To evaluate effectiveness of prescribed burning in reducing fuels and to assess effects of fuels reduction on wildlife, we began a large-scale study known as the Birds and Burns Network...

Author(s): Victoria A. Saab, Lisa Bate, John F. Lehmkuhl, Brett G. Dickson, Scott Story, Stephanie Jentsch, William M. Block
Year Published: 2006
Type: Document
Conference Proceedings

Geum triflorum (prairie smoke)

www.nrfirescience.org/resource/10801

This FEIS species review synthesizes information on the relationship of *Geum triflorum* (prairie smoke) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Gregory T. Munger
Year Published: 2006
Type: Document
Synthesis

Two-aged silvicultural treatments in lodgepole pine stands can be economically viable

www.nrfirescience.org/resource/11103

Economically viable silvicultural options are critical for management activities that provide wood products, reduce forest fuels, improve forest health, and enhance wildlife habitat. The Tenderfoot Research Project was developed in the late 1990s to evaluate and quantify ecological and biological effects of two-aged silvicultural...

Author(s): Ward W. McCaughey, Steven J. Martin, Dean A. Blomquist
Year Published: 2006
Type: Document
Research Brief or Fact Sheet

Integrating fuel treatments into comprehensive ecosystem management

www.nrfirescience.org/resource/10973

To plan fuel treatments in the context of comprehensive ecosystem management, forest managers must meet multiple-use and environmental objectives, address administrative and budget constraints, and reconcile performance measures from multiple policy directives. We demonstrate a multiple criteria approach to measuring success of fuel...

Author(s): Kevin D. Hyde, J. Greg Jones, Robin P. Silverstein, Keith Stockmann, Dan R. Loeffler
Year Published: 2006
Type: Document
Conference Proceedings

Rosa woodsii (Wood's rose)

www.nrfirescience.org/resource/10700

This FEIS species review synthesizes information on the relationship of *Rosa woodsii* (Wood's rose) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Alan S. Hauser

Year Published: 2006

Type: Document

Synthesis

Balsamorhiza hookeri (Hooker balsamroot)

www.nrfirescience.org/resource/10804

This FEIS species review synthesizes information on the relationship of *Balsamorhiza hookeri* (Hooker balsamroot) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Gregory T. Munger

Year Published: 2006

Type: Document

Synthesis

Calamagrostis montanensis (plains reedgrass)

www.nrfirescience.org/resource/10702

This FEIS species review synthesizes information on the relationship of *Calamagrostis montanensis* (plains reedgrass) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Alan S. Hauser

Year Published: 2006

Type: Document

Synthesis

Bromus carinatus var. carinatus, Bromus carinatus var. marginatus (California brome, mountain brome)

www.nrfirescience.org/resource/10893

This FEIS species review synthesizes information on the relationship of *Bromus carinatus* var. *carinatus*, *Bromus carinatus* var. *marginatus* (California brome, mountain brome) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also...

Author(s): Jennifer E. Tollefson

Year Published: 2006

Type: Document

Synthesis

Distichlis spicata (saltgrass)

www.nrfirescience.org/resource/10695

This FEIS species review synthesizes information on the relationship of *Distichlis spicata* (saltgrass) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Alan S. Hauser
Year Published: 2006
Type: Document
Synthesis

Artemisia norvegica (boreal sagebrush)

www.nrfirescience.org/resource/10865

This FEIS species review synthesizes information on the relationship of *Artemisia norvegica* (boreal sagebrush) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology...

Author(s): Jane E. Taylor
Year Published: 2006
Type: Document
Synthesis

Rosa arkansana (prairie rose)

www.nrfirescience.org/resource/10699

This FEIS species review synthesizes information on the relationship of *Rosa arkansana* (prairie rose) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Alan S. Hauser
Year Published: 2006
Type: Document
Synthesis

Artemisia pedatifida (birdfoot sagebrush)

www.nrfirescience.org/resource/10864

This FEIS species review synthesizes information on the relationship of *Artemisia pedatifida* (birdfoot sagebrush) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Jane E. Taylor
Year Published: 2006
Type: Document
Synthesis

Eleocharis palustris (common spikerush)

www.nrfirescience.org/resource/10694

This FEIS species review synthesizes information on the relationship of *Eleocharis palustris* (common spikerush) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Alan S. Hauser
Year Published: 2006
Type: Document
Synthesis

Acer grandidentatum (bigtooth maple)

www.nrfirescience.org/resource/10895

This FEIS species review synthesizes information on the relationship of *Acer grandidentatum* (bigtooth maple) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology,...

Author(s): Jennifer E. Tollefson

Year Published: 2006

Type: Document

Synthesis

Biomass consumption during prescribed fires in big sagebrush ecosystems

www.nrfirescience.org/resource/11419

Big sagebrush (*Artemisia tridentata*) ecosystems typically experience stand replacing fires during which some or all of the ignited biomass is consumed. Biomass consumption is directly related to the energy released during a fire, and is an important factor that determines smoke production and the effects of fire on other resources....

Author(s): Clinton S. Wright, Susan J. Prichard

Year Published: 2006

Type: Document

Conference Proceedings

***Juniperus horizontalis* (creeping juniper)**

www.nrfirescience.org/resource/10671

This FEIS species review synthesizes information on the relationship of *Juniperus horizontalis* (creeping juniper) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Corey L. Gucker

Year Published: 2006

Type: Document

Synthesis

***Perisoreus canadensis* (gray jay)**

www.nrfirescience.org/resource/10901

This FEIS species review synthesizes information on the relationship of *Perisoreus canadensis* (gray jay) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Elena D. Ulev

Year Published: 2006

Type: Document

Synthesis

Developing statistical wildlife habitat relationships for assessing cumulative effects of fuels treatments - Final Report to the Joint Fire Science Program

www.nrfirescience.org/resource/11160

The primary weakness in our current ability to evaluate future landscapes in terms of wildlife lies in the lack of quantitative models linking wildlife to forest stand conditions, including fuels treatments. This project focuses on 1) developing statistical wildlife habitat relationships models (WHR) utilizing Forest Inventory and...

Author(s): Samuel A. Cushman, Kevin S. McKelvey

Year Published: 2006
Type: Document
Technical Report or White Paper

Vulpia myuros (rattail sixweeks grass)

www.nrfirescience.org/resource/10460

This FEIS species review synthesizes information on the relationship of *Vulpia myuros* (rattail sixweeks grass) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy...

Author(s): Janet L. Howard
Year Published: 2006
Type: Document
Synthesis

Carex aquatilis (leafy tussock sedge)

www.nrfirescience.org/resource/10693

This FEIS species review synthesizes information on the relationship of *Carex aquatilis* (leafy tussock sedge) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology...

Author(s): Alan S. Hauser
Year Published: 2006
Type: Document
Synthesis

The effects of postfire salvage logging on cavity-nesting birds

www.nrfirescience.org/resource/12933

We investigated the effects of postfire salvage logging on cavity-nesting birds by comparing nest densities and patterns of nest reuse over a three-year period in seven logged and eight unlogged patches of mixed-conifer forest in the Blackfoot-Clearwater Wildlife Management Area, Montana. We found 563 active nests of 18 cavity-...

Author(s): Richard L. Hutto, Susan M. Gallo
Year Published: 2006
Type: Document
Book or Chapter or Journal Article

Cercocarpus ledifolius (curlleaf mountain-mahogany)

www.nrfirescience.org/resource/10678

This FEIS species review synthesizes information on the relationship of *Cercocarpus ledifolius* (curlleaf mountain-mahogany) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution,...

Author(s): Corey L. Gucker
Year Published: 2006
Type: Document
Synthesis

Patagioenas fasciata (band-tailed pigeon)

www.nrfirescience.org/resource/10896

This FEIS species review synthesizes information on the relationship of *Patagioenas fasciata* (band-tailed pigeon) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Elena D. Ulev

Year Published: 2006

Type: Document

Synthesis

Piranga ludoviciana (western tanager)

www.nrfirescience.org/resource/10795

This FEIS species review synthesizes information on the relationship of *Piranga ludoviciana* (western tanager) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology...

Author(s): Rachelle Meyer

Year Published: 2006

Type: Document

Synthesis

Vulpia octoflora (sixweeks grass)

www.nrfirescience.org/resource/10710

This FEIS species review synthesizes information on the relationship of *Vulpia octoflora* (sixweeks grass) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Janet L. Howard

Year Published: 2006

Type: Document

Synthesis

Prunus pumila (sand cherry)

www.nrfirescience.org/resource/10868

This FEIS species review synthesizes information on the relationship of *Prunus pumila* (sand cherry) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Jane E. Taylor

Year Published: 2006

Type: Document

Synthesis

Fire and restoration of sagebrush ecosystems

www.nrfirescience.org/resource/15377

Wildlife managers often resort to prescribed fire to restore sagebrush (*Artemisia* spp.) ecosystems thought to have been affected by fire exclusion. However, a fire mosaic of burned and unburned areas may be tolerated by certain wildlife but can be detrimental to sagebrush obligates. This article assesses evidence about the...

Author(s): William L. Baker

Year Published: 2006

Type: Document

Book or Chapter or Journal Article

Snag longevity in relation to wildfire and postfire salvage logging

www.nrfirescience.org/resource/8142

Snags create nesting, foraging, and roosting habitat for a variety of wildlife species. Removal of snags through postfire salvage logging reduces the densities and size classes of snags remaining after wildfire. We determined important variables associated with annual persistence rates (the probability a snag remains standing from 1...

Author(s): Robin E. Russell, Victoria A. Saab, Jonathan G. Dudley, Jay J. Rotella

Year Published: 2006

Type: Document

Book or Chapter or Journal Article

Zigadenus venenosus (meadow deathcamas)

www.nrfirescience.org/resource/10704

This FEIS species review synthesizes information on the relationship of *Zigadenus venenosus* (meadow deathcamas) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Alan S. Hauser

Year Published: 2006

Type: Document

Synthesis

Wildlife and invertebrate response to fuel reduction treatments in dry coniferous forests of the Western United States: a synthesis

www.nrfirescience.org/resource/11192

This paper synthesizes available information on the effects of hazardous fuel reduction treatments on terrestrial wildlife and invertebrates in dry coniferous forest types in the West. We focused on thinning and/or prescribed fire studies in ponderosa pine (*Pinus ponderosa*) and dry-type Douglas-fir (*Pseudotsuga menziesii*), lodgepole...

Author(s): David S. Pilliod, Evelyn L. Bull, Jane L. Hayes, Barbara C. Wales

Year Published: 2006

Type: Document

Synthesis, Technical Report or White Paper

Sphaeralcea coccinea (scarlet globemallow)

www.nrfirescience.org/resource/10892

This FEIS species review synthesizes information on the relationship of *Sphaeralcea coccinea* (scarlet globemallow) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Jennifer E. Tollefson

Year Published: 2006

Type: Document

Synthesis

Vulpia microstachys (small sixweeks grass)

www.nrfirescience.org/resource/10709

This FEIS species review synthesizes information on the relationship of *Vulpia microstachys* (small

sixweeks grass) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Janet L. Howard

Year Published: 2006

Type: Document

Synthesis

Carex filifolia (threadleaf sedge)

www.nrfirescience.org/resource/10696

This FEIS species review synthesizes information on the relationship of *Carex filifolia* (threadleaf sedge) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology,...

Author(s): Alan S. Hauser

Year Published: 2006

Type: Document

Synthesis

Calamovilfa longifolia (prairie sandreed)

www.nrfirescience.org/resource/10697

This FEIS species review synthesizes information on the relationship of *Calamovilfa longifolia* (prairie sandreed) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Alan S. Hauser

Year Published: 2005

Type: Document

Synthesis

Asclepias speciosa (showy milkweed)

www.nrfirescience.org/resource/10899

This FEIS species review synthesizes information on the relationship of *Asclepias speciosa* (showy milkweed) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology,...

Author(s): Elena D. Ulev

Year Published: 2005

Type: Document

Synthesis

Bouteloua barbata (sixweeks grama)

www.nrfirescience.org/resource/10703

This FEIS species review synthesizes information on the relationship of *Bouteloua barbata* (sixweeks grama) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology,...

Author(s): Alan S. Hauser

Year Published: 2005

Type: Document

Synthesis

Prescribed fire strategies to restore wildlife habitat in ponderosa pine forests of the intermountain west (birds and burns network) - Final Report to the Joint Fire Science Program

www.nrfirescience.org/resource/11400

The goal of this project was to help evaluate the effectiveness of prescribed fire in reducing fuels, and to assess the effects of fuel reduction on habitats and populations of birds in ponderosa pine forests throughout the Interior West. Known as the Birds and Burns Network, we have study areas located on National Forest and The...

Author(s): Victoria A. Saab, William M. Block

Year Published: 2005

Type: Document

Technical Report or White Paper

Effective management strategies for sage-grouse and sagebrush: a question of triage?

www.nrfirescience.org/resource/8367

The sagebrush (*Artemisia* spp.) ecosystem once occupied over 150 million acres of western North America (Barbour and Billings 1988). The ecosystem still occupies over 100 million acres (Connelly et al. 2004, Wisdom et al. 2005), but the abundance and condition of sagebrush communities is declining rapidly in response to a variety of...

Author(s): Michael J. Wisdom, Mary M. Rowland, Robin J. Tausch

Year Published: 2005

Type: Document

Book or Chapter or Journal Article

Home range size and foraging habitat of Black-backed Woodpeckers

www.nrfirescience.org/resource/11417

We examined home range size of Black-backed Woodpeckers (*Picoides arcticus*) in burned ponderosa pine (*Pinus ponderosa*) / Douglas-fir (*Pseudotsuga menziesii*) forests of southwestern Idaho during 2000 and 2002 (6 and 8 years following fire). Home range size for 4 adult males during the post-fledging period was 115.6-420.9 ha using the...

Author(s): Jonathan G. Dudley

Year Published: 2005

Type: Document

Dissertation or Thesis

Prescribed fire for fuel reduction in northern mixed-grass prairie: influence on habitat and population dynamics of indigenous wildlife - Final Report to the Joint Fire Science Program

www.nrfirescience.org/resource/11171

Prescribed fire is used increasingly to reduce accumulated fuels on National Wildlife Refuges (NWRs) and other reserves in the mixed-grass prairie region of the northern Great Plains. There is sparse documentation, however, on effects of prescribed fire on habitat and population dynamics of wildlife in the region. This multi-...

Author(s): Robert K. Murphy, Todd A. Grant, Elizabeth M. Madden

Year Published: 2005

Type: Document

Technical Report or White Paper

Sage-grouse habitat restoration symposium proceedings

www.nrfirescience.org/resource/11007

Declines in habitat of greater sage-grouse and Gunnison sage-grouse across the western United States

are related to degradation, loss, and fragmentation of sagebrush ecosystems resulting from development of agricultural lands, grazing practices, changes in wildfire regimes, increased spread of invasive species, gas and oil...

Author(s): Nancy L. Shaw, Michael L. Pellant, Stephen B. Monsen

Year Published: 2005

Type: Document

Conference Proceedings

Symphoricarpos longiflorus (longflower snowberry)

www.nrfirescience.org/resource/10790

This FEIS species review synthesizes information on the relationship of *Symphoricarpos longiflorus* (longflower snowberry) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution,...

Author(s): Jack McWilliams

Year Published: 2005

Type: Document

Synthesis

When to prescribe

www.nrfirescience.org/resource/11500

Prescribed fire can be the most practical and affordable way to reduce dangerous accumulations of combustible fuels. At the same time, prescribed fire can help restore the ecological process of fire to fire-adapted ecosystems through its influence on soil nutrients, growth and mortality of plants, seedling establishment and...

Author(s): Carol Miller

Year Published: 2005

Type: Document

Book or Chapter or Journal Article

Effects of prescribed and wildland fire on aquatic ecosystems in western forests - Final Report to the Joint Fire Science Program

www.nrfirescience.org/resource/11161

The goal of the project is to understand how fire in upland and riparian forests influence stream communities and whether prescription burning mimics the ecological function of fire in a watershed. The project has two components: wildland fire and prescribed fire. To document the range of biotic and abiotic responses to wildland...

Author(s): David S. Pilliod, R. Bruce Bury, Paul S. Corn

Year Published: 2005

Type: Document

Technical Report or White Paper

Elaeagnus angustifolia (Russian-olive)

www.nrfirescience.org/resource/10486

This FEIS species review synthesizes information on the relationship of *Elaeagnus angustifolia* (Russian-olive) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy...

Author(s): Kristin L. Zouhar

Year Published: 2005

Type: Document

Synthesis

Leucopoa kingii (spike fescue)

www.nrfirescience.org/resource/10599

This FEIS species review synthesizes information on the relationship of *Leucopoa kingii* (spike fescue) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Michelle B. Anderson

Year Published: 2005

Type: Document

Synthesis

Yucca glauca (soapweed yucca)

www.nrfirescience.org/resource/10664

This FEIS species review synthesizes information on the relationship of *Yucca glauca* (soapweed yucca) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Amy H. Groen

Year Published: 2005

Type: Document

Synthesis

Cytisus scoparius, Cytisus striatus (Scotch broom, Portuguese broom)

www.nrfirescience.org/resource/10488

This FEIS species review synthesizes information on the relationship of *Cytisus scoparius*, *Cytisus striatus* (Scotch broom, Portuguese broom) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also...

Author(s): Kristin L. Zouhar

Year Published: 2005

Type: Document

Synthesis

Changes in bird abundance after wildfire: importance of fire severity and time since fire

www.nrfirescience.org/resource/8256

Fire can cause profound changes in the composition and abundance of plant and animal species, but logistics, unpredictability of weather, and inherent danger make it nearly impossible to study high-severity fire effects experimentally. We took advantage of a unique opportunity to use a before-after/control-impact (BACI) approach to...

Author(s): Kristina M. Smucker, Richard L. Hutto, Brian M. Steele

Year Published: 2005

Type: Document

Book or Chapter or Journal Article

Lonicera fragrantissima, Lonicera maackii, Lonicera morrowii, Lonicera tatarica, Lonicera x bella, Lonicera xylosteum (winter honeysuckle, Amur honeysuckle, Morrow's honeysuckle, Tatarian honeysuckle, Bell's honeysuckle, European fly honeysuckle)

www.nrfirescience.org/resource/10465

This FEIS species review synthesizes information on the relationship of *Lonicera fragrantissima*, *Lonicera maackii*, *Lonicera morrowii*, *Lonicera tatarica*, *Lonicera x bella*, *Lonicera xylosteum* (winter honeysuckle, Amur honeysuckle, Morrow's honeysuckle, Tatarian honeysuckle, Bell's honeysuckle, European fly honeysuckle) to fire--how...

Author(s): Gregory T. Munger

Year Published: 2005

Type: Document

Synthesis

Seeding considerations in restoring big sagebrush habitat

www.nrfirescience.org/resource/8421

This paper describes methods of managing or seeding to restore big sagebrush communities for wildlife habitat. The focus is on three big sagebrush subspecies, Wyoming big sagebrush (*Artemisia tridentata* ssp. *wyomingensis*), basin big sagebrush (*Artemisia tridentata* ssp. *tridentata*), and mountain big sagebrush (*Artemisia tridentata*...

Author(s): Scott M. Lambert

Year Published: 2005

Type: Document

Conference Proceedings, Synthesis

Galium aparine (stickywilly)

www.nrfirescience.org/resource/10677

This FEIS species review synthesizes information on the relationship of *Galium aparine* (stickywilly) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Corey L. Gucker

Year Published: 2005

Type: Document

Synthesis

Forest fuel management: a spatial decision-support system developed by RMRS provides forest managers with the tools to effectively remove a build-up of fuels while adhering to principles of ecological multiple-use...

www.nrfirescience.org/resource/8240

Forest fuel management: a spatial decision-support system developed by Rocky Mountain Research Station provides forest managers with the tools to effectively remove a build-up of fuels while adhering to principles of ecological multiple-use forest management and responding to public interests. Twentieth-century forest management...

Author(s): Judy M. Troutwine

Year Published: 2005

Type: Document

Book or Chapter or Journal Article

Cornus nuttallii (Pacific dogwood)

www.nrfirescience.org/resource/10681

This FEIS species review synthesizes information on the relationship of *Cornus nuttallii* (Pacific dogwood) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology,...

Author(s): Corey L. Gucker

Year Published: 2005

Type: Document

Synthesis

Juncus balticus (Baltic rush)

www.nrfirescience.org/resource/10701

This FEIS species review synthesizes information on the relationship of *Juncus balticus* (Baltic rush) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Alan S. Hauser

Year Published: 2005

Type: Document

Synthesis

Clintonia uniflora (queencup beadlily)

www.nrfirescience.org/resource/10798

This FEIS species review synthesizes information on the relationship of *Clintonia uniflora* (queencup beadlily) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology...

Author(s): Rachelle Meyer

Year Published: 2005

Type: Document

Synthesis

Hypericum perforatum (common St Johnswort)

www.nrfirescience.org/resource/10499

This FEIS species review synthesizes information on the relationship of *Hypericum perforatum* (common St Johnswort) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species'...

Author(s): Kristin L. Zouhar

Year Published: 2005

Type: Document

Synthesis

Effects of prescribed fire on the invasion of northern mixed-grass prairie by non-native plant species - Final Report to the Joint Fire Science Program

www.nrfirescience.org/resource/11162

We seek to measure the effects of fire and grazing on weeds of the northern mixed grass prairie. To accomplish this we are interpreting measurements from two management experiments, one at Lostwood National Wildlife Refuge (NWR) and one at Des Lacs NWR. At Lostwood we found a nearly balanced 2x7 treatment experiment with seven...

Author(s): Jennifer S. Hartz-Rubin, Tad Weaver, Cory S. Rubin, Jack Plaggemeyer

Year Published: 2005

Type: Document

Technical Report or White Paper

New technology for fuel breaks and green strips in urban interface and wildland areas

www.nrfirescience.org/resource/11039

Threat from wildfire can be greatly minimized through proactive efforts that reduce and slow spread through use of green strips or fuel breaks, and decrease fire volatility by reducing fuel load. This results in greater safety to fire fighters and protection to key urban interface areas or wildlife habitat. The fight against western...

Author(s): Jennifer L. Vollmer

Year Published: 2005

Type: Document

Conference Proceedings

Dalea purpurea (purple prairie clover)

www.nrfirescience.org/resource/10745

This FEIS species review synthesizes information on the relationship of Dalea purpurea (purple prairie clover) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology...

Author(s): Kevin R. League

Year Published: 2005

Type: Document

Synthesis

Apocynum androsaemifolium (spreading dogbane)

www.nrfirescience.org/resource/10666

This FEIS species review synthesizes information on the relationship of Apocynum androsaemifolium (spreading dogbane) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Amy H. Groen

Year Published: 2005

Type: Document

Synthesis

Artemisia ludoviciana (prairie sage)

www.nrfirescience.org/resource/10605

This FEIS species review synthesizes information on the relationship of Artemisia ludoviciana (prairie sage) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology,...

Author(s): Michelle B. Anderson

Year Published: 2005

Type: Document

Synthesis

Cumulative effects of fuel management on landscape-scale fire behavior and effects - Final Report to the Joint Fire Science Program

www.nrfirescience.org/resource/11157

The project is concerned with modeling the long-term effects of landscape fuel treatment patterns on wildfire sizes and severity. The work was initiated based on theoretical fuel treatment patterns that appeared effective at changing fire growth across large landscapes, thus reducing the acreage burned and the chances that large...

Author(s): Mark A. Finney

Year Published: 2005
Type: Document
Technical Report or White Paper

Psathyrostachys juncea (Russian wildrye)

www.nrfirescience.org/resource/10476

This FEIS species review synthesizes information on the relationship of *Psathyrostachys juncea* (Russian wildrye) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species'...

Author(s): Jane E. Taylor
Year Published: 2005
Type: Document
Synthesis

Artemisia dracunculus (tarragon)

www.nrfirescience.org/resource/10665

This FEIS species review synthesizes information on the relationship of *Artemisia dracunculus* (tarragon) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Amy H. Groen
Year Published: 2005
Type: Document
Synthesis

Variation in fire regimes of the Rocky Mountains: implications for avian communities and fire management

www.nrfirescience.org/resource/8144

Information about avian responses to fire in the U.S. Rocky Mountains is based solely on studies of crown fires. However, fire management in this region is based primarily on studies of low-elevation ponderosa pine (*Pinus ponderosa*) forests maintained largely by frequent understory fires. In contrast to both of these trends, most...

Author(s): Victoria A. Saab, Hugh D. W. Powell, Natasha B. Kotliar, Karen R. Newlon
Year Published: 2005
Type: Document
Book or Chapter or Journal Article, Synthesis

Wildfire, channel disturbance, and stream temperature: spatio-temporal patterns and associations with the distribution of fish and amphibians in central Idaho

www.nrfirescience.org/resource/8407

Temperature is a critical factor in stream ecosystems, and one that is very likely to be altered by wildfire and associated channel disturbance. In central Idaho streams, temperatures after wildfires may increase following loss of shade from riparian vegetation, and changes in channel structure that increase exposure to solar...

Author(s): Jason B. Dunham, Charles H. Luce, Amanda E. Rosenberger, B. Gutierrez-Teira, David E. Nagel, Bruce E. Rieman
Year Published: 2005
Type: Document
Conference Proceedings

Application of free selection in mixed forests of the inland northwestern United States

www.nrfirescience.org/resource/7933

Forest management objectives continue to evolve as the desires and needs of society change. The practice of silviculture has risen to the challenge by supplying silvicultural methods and systems to produce desired stand and forest structures and compositions to meet these changing objectives. For the most part, the practice of...

Author(s): Russell T. Graham, Theresa B. Jain

Year Published: 2005

Type: Document

Book or Chapter or Journal Article

Restoring Wyoming big sagebrush

www.nrfirescience.org/resource/8420

The widespread occurrence of big sagebrush can be attributed to many adaptive features. Big sagebrush plays an essential role in its communities by providing wildlife habitat, modifying local environmental conditions, and facilitating the reestablishment of native herbs. Currently, however, many sagebrush steppe communities are...

Author(s): Cindy R. Lysne

Year Published: 2005

Type: Document

Conference Proceedings, Synthesis

Opuntia fragilis (brittle pricklypear)

www.nrfirescience.org/resource/10867

This FEIS species review synthesizes information on the relationship of *Opuntia fragilis* (brittle pricklypear) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology...

Author(s): Jane E. Taylor

Year Published: 2005

Type: Document

Synthesis

Fire on the mountain: birds and burns in the Rocky Mountains

www.nrfirescience.org/resource/14591

Here we review the current state of knowledge about past fire regimes and how they have been altered by human activities. We also highlight the limited information on how avian communities respond to fire. We conclude with implications for fire management programs in the Rocky Mountains. See Kotliar et al. (...)

Author(s): Natasha B. Kotliar, Victoria A. Saab, Richard L. Hutto

Year Published: 2005

Type: Document

Technical Report or White Paper

Sorghum halepense (Johnson grass)

www.nrfirescience.org/resource/10459

This FEIS species review synthesizes information on the relationship of *Sorghum halepense* (Johnson grass) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy,...

Author(s): Janet L. Howard
Year Published: 2004
Type: Document
Synthesis

Sarcobatus vermiculatus (black greasewood)

www.nrfirescience.org/resource/10592

This FEIS species review synthesizes information on the relationship of *Sarcobatus vermiculatus* (black greasewood) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Michelle B. Anderson
Year Published: 2004
Type: Document
Synthesis

Basic considerations for range and wildlife revegetation and restoration

www.nrfirescience.org/resource/11118

Plummer and others (1968) proposed 10 principles to follow when planning and implementing rangeland revegetation programs. These principles - or basic considerations for rangeland managers - are applicable to most sites in the Western United States (Jordan 1981; Merkel and Herbal 1973), and many projects in the Intermountain area...

Author(s): Richard Stevens
Year Published: 2004
Type: Document
Technical Report or White Paper

Fuels planning: science synthesis and integration; environmental consequences fact sheet 4: wildlife responses to fuels treatments: key considerations

www.nrfirescience.org/resource/14942

Managers face a difficult task in predicting the effects of fuels treatments on wildlife populations, mostly because information on how animals respond to fuels treatments is scarce or does not exist. This paper discusses key considerations-aspects of an animal's ecology and available information-that, despite the scarcity of...

Author(s): David S. Pilliod
Year Published: 2004
Type: Document
Research Brief or Fact Sheet

Asarum caudatum (wild ginger)

www.nrfirescience.org/resource/10674

This FEIS species review synthesizes information on the relationship of *Asarum caudatum* (wild ginger) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Corey L. Gucker
Year Published: 2004
Type: Document
Synthesis

Sonchus arvensis (perennial sowthistle)

www.nrfirescience.org/resource/10464

This FEIS species review synthesizes information on the relationship of *Sonchus arvensis* (perennial sowthistle) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species'...

Author(s): Jack McWilliams

Year Published: 2004

Type: Document

Synthesis

Convolvulus arvensis (field bindweed)

www.nrfirescience.org/resource/10487

This FEIS species review synthesizes information on the relationship of *Convolvulus arvensis* (field bindweed) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy...

Author(s): Kristin L. Zouhar

Year Published: 2004

Type: Document

Synthesis

Rhus trilobata (skunkbush sumac)

www.nrfirescience.org/resource/10596

This FEIS species review synthesizes information on the relationship of *Rhus trilobata* (skunkbush sumac) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Michelle B. Anderson

Year Published: 2004

Type: Document

Synthesis

Cardaria chalapensis, Cardaria draba, Cardaria pubescens (lens-podded hoary cress, heart-podded hoary cress, globe-podded hoary cress)

www.nrfirescience.org/resource/10490

This FEIS species review synthesizes information on the relationship of *Cardaria chalapensis*, *Cardaria draba*, *Cardaria pubescens* (lens-podded hoary cress, heart-podded hoary cress, globe-podded hoary cress) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire...

Author(s): Kristin L. Zouhar

Year Published: 2004

Type: Document

Synthesis

Forbs for seeding range and wildlife habitats

www.nrfirescience.org/resource/11120

Description not entered

Author(s): Richard Stevens, Stephen B. Monsen

Year Published: 2004

Type: Document

Fuels planning: science synthesis and integration; environmental consequences fact sheet 5: prescriptions and fire effects

www.nrfirescience.org/resource/14943

While our understanding of the causes for variation in postfire effects is increasing, burn prescriptions may not always include parameters that control the long-term heat pulse from fire. This paper discusses (1) fuel consumption and fire effects, (2) prescription design considerations, and (3) planning a prescribed fire.

Author(s): Melanie Miller

Year Published: 2004

Type: Document

Research Brief or Fact Sheet

Lewis's Woodpecker (*Melanerpes lewis*): a technical conservation assessment

www.nrfirescience.org/resource/11498

Lewis's woodpecker (*Melanerpes lewis*) is a locally common but patchily distributed woodpecker species usually seen in open forests of western North America. The combination of its sporadic distribution, its diet of adult-stage free-living insects (primarily aerial), its preference to nest in burned landscapes, and its variable...

Author(s): Stephen C. Abele, Victoria A. Saab, Edward O. Garton

Year Published: 2004

Type: Document

Technical Report or White Paper

Factors influencing occupancy of nest cavities in recently burned forests

www.nrfirescience.org/resource/8143

Recently burned forests in western North America provide nesting habitat for many species of cavity-nesting birds. However, little is understood about the time frame and the variables affecting occupancy of postfire habitats by these birds. We studied factors influencing the occupancy and reuse of nest cavities from 1-7 years after...

Author(s): Victoria A. Saab, Jonathan G. Dudley, William L. Thompson

Year Published: 2004

Type: Document

Book or Chapter or Journal Article

Leymus ambiguus (Colorado wildrye)

www.nrfirescience.org/resource/10600

This FEIS species review synthesizes information on the relationship of *Leymus ambiguus* (Colorado wildrye) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology,...

Author(s): Michelle B. Anderson

Year Published: 2004

Type: Document

Synthesis

Lepidium latifolium (perennial pepperweed)

www.nrfirescience.org/resource/10491

This FEIS species review synthesizes information on the relationship of *Lepidium latifolium* (perennial

pepperweed) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species'...

Author(s): Kristin L. Zouhar

Year Published: 2004

Type: Document

Synthesis

Chondrilla juncea (rush skeletonweed)

www.nrfirescience.org/resource/10483

This FEIS species review synthesizes information on the relationship of *Chondrilla juncea* (rush skeletonweed) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy...

Author(s): Kristin L. Zouhar

Year Published: 2004

Type: Document

Synthesis

Leymus salinus (Salina wildrye)

www.nrfirescience.org/resource/10602

This FEIS species review synthesizes information on the relationship of *Leymus salinus* (Salina wildrye) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Michelle B. Anderson

Year Published: 2004

Type: Document

Synthesis

Incorporating wildlife habitat needs into restoration and rehabilitation projects

www.nrfirescience.org/resource/11119

Description not entered

Author(s): Richard Stevens

Year Published: 2004

Type: Document

Technical Report or White Paper

Prunus pensylvanica (pin cherry)

www.nrfirescience.org/resource/10607

This FEIS species review synthesizes information on the relationship of *Prunus pensylvanica* (pin cherry) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Michelle B. Anderson

Year Published: 2004

Type: Document

Synthesis

Artemisia frigida (fringed sagebrush)

www.nrfirescience.org/resource/10788

This FEIS species review synthesizes information on the relationship of *Artemisia frigida* (fringed sagebrush) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology...

Author(s): Jack McWilliams

Year Published: 2003

Type: Document

Synthesis

***Pinus ponderosa* var. *scopulorum* (interior ponderosa pine)**

www.nrfirescience.org/resource/10718

This FEIS species review synthesizes information on the relationship of *Pinus ponderosa* var. *scopulorum* (interior ponderosa pine) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy,...

Author(s): Janet L. Howard

Year Published: 2003

Type: Document

Synthesis

***Atriplex canescens* (fourwing saltbush)**

www.nrfirescience.org/resource/10727

This FEIS species review synthesizes information on the relationship of *Atriplex canescens* (fourwing saltbush) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology...

Author(s): Janet L. Howard

Year Published: 2003

Type: Document

Synthesis

***Sisymbrium altissimum* (tumble mustard)**

www.nrfirescience.org/resource/10458

This FEIS species review synthesizes information on the relationship of *Sisymbrium altissimum* (tumble mustard) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy...

Author(s): Janet L. Howard

Year Published: 2003

Type: Document

Synthesis

***Artemisia rigida* (stiff sagebrush)**

www.nrfirescience.org/resource/10785

This FEIS species review synthesizes information on the relationship of *Artemisia rigida* (stiff sagebrush) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology,...

Author(s): Jack McWilliams

Year Published: 2003

Type: Document
Synthesis

Potentilla recta (sulfur cinquefoil)

www.nrfirescience.org/resource/10497

This FEIS species review synthesizes information on the relationship of *Potentilla recta* (sulfur cinquefoil) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy,...

Author(s): Kristin L. Zouhar

Year Published: 2003

Type: Document

Synthesis

Pinus contorta var. latifolia (Rocky Mountain lodgepole pine)

www.nrfirescience.org/resource/10597

This FEIS species review synthesizes information on the relationship of *Pinus contorta* var. *latifolia* (Rocky Mountain lodgepole pine) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy,...

Author(s): Michelle B. Anderson

Year Published: 2003

Type: Document

Synthesis

Schoenocrambe linifolia (flaxleaf plainsmustard)

www.nrfirescience.org/resource/10712

This FEIS species review synthesizes information on the relationship of *Schoenocrambe linifolia* (flaxleaf plainsmustard) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution,...

Author(s): Janet L. Howard

Year Published: 2003

Type: Document

Synthesis

Descurainia sophia (flixweed tansymustard)

www.nrfirescience.org/resource/10463

This FEIS species review synthesizes information on the relationship of *Descurainia sophia* (flixweed tansymustard) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species'...

Author(s): Janet L. Howard

Year Published: 2003

Type: Document

Synthesis

Research on stand management options for reducing fuels and restoring two-aged lodgepole pine communities on the Tenderfoot Creek Experimental Forest

www.nrfirescience.org/resource/11028

Fire-dependent lodgepole pine stands comprise significant acreages of mid and upper-elevation forests in the Northern Rockies, providing wood products, wildlife habitat, livestock forage, water, recreational opportunities, and expansive viewsheds. Many lodgepole pine stands are in late-successional stages and at risk to pests and...

Author(s): Ward W. McCaughey

Year Published: 2003

Type: Document

Conference Proceedings

Bouteloua gracilis (blue grama)

www.nrfirescience.org/resource/10604

This FEIS species review synthesizes information on the relationship of *Bouteloua gracilis* (blue grama) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Michelle B. Anderson

Year Published: 2003

Type: Document

Synthesis

Descurainia pinnata (pinnate tansymustard)

www.nrfirescience.org/resource/10723

This FEIS species review synthesizes information on the relationship of *Descurainia pinnata* (pinnate tansymustard) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Janet L. Howard

Year Published: 2003

Type: Document

Synthesis

A collaborative fire hazard reduction/ecosystem restoration stewardship project in a Montana mixed ponderosa pine/Douglas-fir/western larch wildland-urban interface

www.nrfirescience.org/resource/11009

Forest Service managers and researchers designed and evaluated alternative disturbance-based fire hazard reduction/ecosystem restoration treatments in a greatly altered low-elevation ponderosa pine/Douglas-fir/western larch wildland urban interface. Collaboratively planned improvement cutting and prescribed fire treatment...

Author(s): Steve Slaughter, Laura Ward, Michael Hillis, Jimmie D. Chew, Becky McFarlan

Year Published: 2003

Type: Document

Conference Proceedings

Effects of thinning and prescribed burning on birds and small mammals

www.nrfirescience.org/resource/11504

Land management agencies are restoring ponderosa pine forests and reducing fuel loads by thinning followed by prescribed burning. However, little is known about how this combination of treatments will affect local wildlife. In this study, I focus on the following short-term wildlife responses: 1) differences in avian and small...

Author(s): Jennifer Woolf

Year Published: 2003

Type: Document
Dissertation or Thesis

Acer platanoides (Norway maple)

www.nrfirescience.org/resource/10466

This FEIS species review synthesizes information on the relationship of *Acer platanoides* (Norway maple) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy,...

Author(s): Gregory T. Munger

Year Published: 2003

Type: Document

Synthesis

Artemisia filifolia (sand sagebrush)

www.nrfirescience.org/resource/10787

This FEIS species review synthesizes information on the relationship of *Artemisia filifolia* (sand sagebrush) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology,...

Author(s): Jack McWilliams

Year Published: 2003

Type: Document

Synthesis

Bromus tectorum (cheatgrass)

www.nrfirescience.org/resource/10495

This FEIS species review synthesizes information on the relationship of *Bromus tectorum* (cheatgrass) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy,...

Author(s): Kristin L. Zouhar

Year Published: 2003

Type: Document

Synthesis

Tamarix chinensis, Tamarix gallica, Tamarix parviflora, Tamarix ramosissima (tamarisk, French tamarisk, small-flowered tamarisk, saltcedar)

www.nrfirescience.org/resource/10485

This FEIS species review synthesizes information on the relationship of *Tamarix chinensis*, *Tamarix gallica*, *Tamarix parviflora*, *Tamarix ramosissima* (tamarisk, French tamarisk, small-flowered tamarisk, saltcedar) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and...

Author(s): Kristin L. Zouhar

Year Published: 2003

Type: Document

Synthesis

Picrothamnus desertorum (budsage)

www.nrfirescience.org/resource/10791

This FEIS species review synthesizes information on the relationship of *Picrothamnus desertorum* (budsage) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Jack McWilliams

Year Published: 2003

Type: Document

Synthesis

***Linaria dalmatica*, *Linaria vulgaris* (Dalmatian toadflax, yellow toadflax)**

www.nrfirescience.org/resource/10489

This FEIS species review synthesizes information on the relationship of *Linaria dalmatica*, *Linaria vulgaris* (Dalmatian toadflax, yellow toadflax) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is...

Author(s): Kristin L. Zouhar

Year Published: 2003

Type: Document

Synthesis

Effects of wildfire and post-fire salvage logging on avian communities in conifer-dominated forests of the western United States

www.nrfirescience.org/resource/7956

Description not entered

Author(s): Natasha B. Kotliar, Sallie Hejl, Richard L. Hutton, Victoria A. Saab, C. P. Melcher, Mary E. McFadzen

Year Published: 2002

Type: Document

Book or Chapter or Journal Article

***Artemisia arbuscula* (low sagebrush)**

www.nrfirescience.org/resource/10854

This FEIS species review synthesizes information on the relationship of *Artemisia arbuscula* (low sagebrush) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology,...

Author(s): Peter D. Steinberg

Year Published: 2002

Type: Document

Synthesis

***Lythrum salicaria* (purple loosestrife)**

www.nrfirescience.org/resource/10467

This FEIS species review synthesizes information on the relationship of *Lythrum salicaria* (purple loosestrife) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy...

Author(s): Gregory T. Munger

Year Published: 2002

Type: Document

Synthesis

Selection of fire-created snags at two spatial scales by cavity-nesting birds

www.nrfirescience.org/resource/11198

We examined the use of snag stands by seven species of cavity-nesting birds from 1994-1998. Selection of snags was studied in logged and unlogged burned forests at two spatial scales: microhabitat (local vegetation characteristics) and landscape (composition and patterning of surrounding vegetation types). We modeled nest occurrence...

Author(s): Victoria A. Saab, Ree Brannon, Jonathan G. Dudley, Larry Donohoo, Dave Vanderzanden, Vicky Johnson, Henry Lachowski

Year Published: 2002

Type: Document

Technical Report or White Paper

Cynoglossum officinale (houndstongue)

www.nrfirescience.org/resource/10500

This FEIS species review synthesizes information on the relationship of *Cynoglossum officinale* (houndstongue) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy...

Author(s): Kristin L. Zouhar

Year Published: 2002

Type: Document

Synthesis

Tetradymia glabrata (littleleaf horsebrush)

www.nrfirescience.org/resource/10735

This FEIS species review synthesizes information on the relationship of *Tetradymia glabrata* (littleleaf horsebrush) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Janet L. Howard

Year Published: 2002

Type: Document

Synthesis

Juniperus scopulorum (Rocky Mountain juniper)

www.nrfirescience.org/resource/10827

This FEIS species review synthesizes information on the relationship of *Juniperus scopulorum* (Rocky Mountain juniper) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Janette S. Scher

Year Published: 2002

Type: Document

Synthesis

Artemisia cana, Artemisia cana subsp. Bolanderi, Artemisia cana subsp. cana, Artemisia cana subsp. viscidula (silver sagebrush, Bolander silver sagebrush, plains silver sagebrush, mountain silver sagebrush)

www.nrfirescience.org/resource/10729

This FEIS species review synthesizes information on the relationship of *Artemisia cana*, *Artemisia cana* subsp. *Bolanderi*, *Artemisia cana* subsp. *cana*, *Artemisia cana* subsp. *viscidula* (silver sagebrush, Bolander silver sagebrush, plains silver sagebrush, mountain silver sagebrush) to fire--how fire affects the species and its habitat,...

Author(s): Janet L. Howard

Year Published: 2002

Type: Document

Synthesis

Conservation of greater sage-grouse on public lands in the Western U.S.: implications of recovery and management policies

www.nrfirescience.org/resource/11076

The role of the Policy Analysis Center for Western Public Lands is to provide integrated social, economic and ecological analyses of public land policies that affect communities in the West. Its mission is to help rural communities, policy makers, resource managers, resource users and others understand, analyze and engage...

Author(s): Carl L. Wambolt, Aaron J. Harp, Bruce L. Welch, Nancy L. Shaw, John W. Connelly, Kerry P. Reese, Clait E. Braun, Donald A. Klebenow, E. Durant McArthur, James G. Thompson, L. Allen Torell, John A. Tanaka

Year Published: 2002

Type: Document

Management or Planning Document

***Larix occidentalis* (western larch)**

www.nrfirescience.org/resource/10826

This FEIS species review synthesizes information on the relationship of *Larix occidentalis* (western larch) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology,...

Author(s): Janette S. Scher

Year Published: 2002

Type: Document

Synthesis

The role of fire in riparian zones of the northern Rocky Mountains

www.nrfirescience.org/resource/11137

While the importance of riparian systems in the northern Rocky Mountains as sources of productivity and diversity is recognized, there is little information about the interaction between pattern and process. To sustain these areas, we need to understand the characteristics of disturbance processes and how they result in patterns in...

Author(s): Elaine Kennedy Sutherland, Kevin S. McKelvey

Year Published: 2002

Type: Document

Conference Proceedings, Technical Report or White Paper

***Carduus nutans* (musk thistle)**

www.nrfirescience.org/resource/10494

This FEIS species review synthesizes information on the relationship of *Carduus nutans* (musk thistle) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy,...

Author(s): Kristin L. Zouhar
Year Published: 2002
Type: Document
Synthesis

Carex geyeri (elk sedge)

www.nrfirescience.org/resource/10615

This FEIS species review synthesizes information on the relationship of *Carex geyeri* (elk sedge) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general...

Author(s): Amy C. Chadwick
Year Published: 2002
Type: Document
Synthesis

Effects of fire and post-fire salvage logging on avian communities in conifer-dominated forests of the western United States

www.nrfirescience.org/resource/14594

A one-day symposium organized by the editors was held the following year in Portland, Oregon, at the annual meeting of the Cooper Ornithological Society. The central focus of the symposium was to contrast patterns in the western versus eastern United States, and to differentiate and contrast natural...

Author(s): Natasha B. Kotliar, Sallie Hejl, Richard L. Hutto, Victoria A. Saab, C. P. Melcher, Mary E. McFadzen
Year Published: 2002
Type: Document
Conference Proceedings

Pseudotsuga menziesii var. glauca (Rocky Mountain Douglas-fir)

www.nrfirescience.org/resource/10853

This FEIS species review synthesizes information on the relationship of *Pseudotsuga menziesii* var. *glauca* (Rocky Mountain Douglas-fir) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy,...

Author(s): Peter D. Steinberg
Year Published: 2002
Type: Document
Synthesis

Cirsium vulgare (bull thistle)

www.nrfirescience.org/resource/10492

This FEIS species review synthesizes information on the relationship of *Cirsium vulgare* (bull thistle) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy,...

Author(s): Kristin L. Zouhar
Year Published: 2002
Type: Document
Synthesis

Balsamorhiza sagittata (arrowleaf balsamroot)

www.nrfirescience.org/resource/10789

This FEIS species review synthesizes information on the relationship of *Balsamorhiza sagittata* (arrowleaf balsamroot) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Jack McWilliams

Year Published: 2002

Type: Document

Synthesis

Centaurea solstitialis (yellow starthistle)

www.nrfirescience.org/resource/10484

This FEIS species review synthesizes information on the relationship of *Centaurea solstitialis* (yellow starthistle) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species'...

Author(s): Kristin L. Zouhar

Year Published: 2002

Type: Document

Synthesis

Schizachyrium scoparium (little bluestem)

www.nrfirescience.org/resource/10852

This FEIS species review synthesizes information on the relationship of *Schizachyrium scoparium* (little bluestem) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Peter D. Steinberg

Year Published: 2002

Type: Document

Synthesis

Tetradymia nuttallii (Nuttall's horsebrush)

www.nrfirescience.org/resource/10734

This FEIS species review synthesizes information on the relationship of *Tetradymia nuttallii* (Nuttall's horsebrush) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Janet L. Howard

Year Published: 2002

Type: Document

Synthesis

Tetradymia spinosa (spiny horsebrush)

www.nrfirescience.org/resource/10733

This FEIS species review synthesizes information on the relationship of *Tetradymia spinosa* (spiny horsebrush) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology...

Author(s): Janet L. Howard

Year Published: 2002

Type: Document

Synthesis

Elymus lanceolatus (thickspike wheatgrass)

www.nrfirescience.org/resource/10825

This FEIS species review synthesizes information on the relationship of Elymus lanceolatus (thickspike wheatgrass) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Janette S. Scher

Year Published: 2002

Type: Document

Synthesis

Bird counts of burned versus unburned big sagebrush sites

www.nrfirescience.org/resource/11090

Burned-over big sagebrush sites dominated by perennial grasses supported fewer species of birds and fewer total number of birds than sites of unburned big sagebrush sites.

Author(s): Bruce L. Welch

Year Published: 2002

Type: Document

Research Brief or Fact Sheet

Pinus edulis (Colorado pinyon)

www.nrfirescience.org/resource/10598

This FEIS species review synthesizes information on the relationship of Pinus edulis (Colorado pinyon) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Michelle B. Anderson

Year Published: 2002

Type: Document

Synthesis

Pinus albicaulis (whitebark pine)

www.nrfirescience.org/resource/10651

This FEIS species review synthesizes information on the relationship of Pinus albicaulis (whitebark pine) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Janet L. Fryer

Year Published: 2002

Type: Document

Synthesis

Leymus cinereus (basin wildrye)

www.nrfirescience.org/resource/10601

This FEIS species review synthesizes information on the relationship of Leymus cinereus (basin wildrye) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire

regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Michelle B. Anderson

Year Published: 2002

Type: Document

Synthesis

Dasiphora floribunda (shrubby cinquefoil)

www.nrfirescience.org/resource/10608

This FEIS species review synthesizes information on the relationship of *Dasiphora floribunda* (shrubby cinquefoil) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Michelle B. Anderson

Year Published: 2001

Type: Document

Synthesis

Bromus madritensis, Bromus rubens (foxtail chess, red brome)

www.nrfirescience.org/resource/10469

This FEIS species review synthesizes information on the relationship of *Bromus madritensis*, *Bromus rubens* (foxtail chess, red brome) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations.

Information is also provided on...

Author(s): Kevin A. Simonin

Year Published: 2001

Type: Document

Synthesis

Nassella viridula (green needlegrass)

www.nrfirescience.org/resource/10869

This FEIS species review synthesizes information on the relationship of *Nassella viridula* (green needlegrass) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology...

Author(s): Jennifer L. Taylor

Year Published: 2001

Type: Document

Synthesis

Taeniatherum caput-medusae (medusahead)

www.nrfirescience.org/resource/10447

This FEIS species review synthesizes information on the relationship of *Taeniatherum caput-medusae* (medusahead) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species'...

Author(s): Amy Archer

Year Published: 2001

Type: Document

Synthesis

Salix scouleriana (Scouler willow)

www.nrfirescience.org/resource/10606

This FEIS species review synthesizes information on the relationship of *Salix scouleriana* (Scouler willow) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology,...

Author(s): Michelle B. Anderson

Year Published: 2001

Type: Document

Synthesis

Cirsium arvense (Canada thistle)

www.nrfirescience.org/resource/10482

This FEIS species review synthesizes information on the relationship of *Cirsium arvense* (Canada thistle) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy,...

Author(s): Kristin L. Zouhar

Year Published: 2001

Type: Document

Synthesis

Delayed seed germination in whitebark pine and regeneration patterns following the Yellowstone fires

www.nrfirescience.org/resource/8185

Whitebark pine (*Pinus albicaulis*) seeds are dispersed by Clark's Nutcracker (*Nucifraga columbiana*), a bird that makes caches under 2-3 cm of soil. Cached seeds may delay germination for one or more years in part because of underdeveloped embryos at the time of seed dispersal. Consequently, whitebark pine may show a soil seed bank...

Author(s): Diana F. Tomback, Angela J. Anderies, Katherine S. Carsey, Mary L. Powell, Sabine Mellmann-Brown

Year Published: 2001

Type: Document

Book or Chapter or Journal Article

Aspen response to prescribed fire and wild ungulate herbivory

www.nrfirescience.org/resource/12104

Land management agencies in northwest Wyoming have implemented an active prescribed fire program to address historically altered fire regimes, regenerate aspen, and improve overall watershed functions. Treated clones are susceptible to extensive browsing from elk concentrated on supplemental feedgrounds and from wintering moose....

Author(s): Steve Kilpatrick, Diane Abendroth

Year Published: 2001

Type: Document

Conference Proceedings

Populus angustifolia (narrowleaf cottonwood)

www.nrfirescience.org/resource/10829

This FEIS species review synthesizes information on the relationship of *Populus angustifolia* (narrowleaf cottonwood) to fire--how fire affects the species and its habitat, effects of the species on

fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Kevin A. Simonin

Year Published: 2001

Type: Document

Synthesis

Alternative ponderosa pine restoration treatments in the western United States

www.nrfirescience.org/resource/8409

Compared to presettlement times, many ponderosa pine forest of the United States are now more dense and have greater quantities of fuels. Widespread treatments are needed in these forests to restore ecological integrity and to reduce the risk of uncharacteristically severe fires. Among possible restorative treatments, however, the...

Author(s): James D. Mclver, Charles P. Weatherspoon, Carleton B. Edminster

Year Published: 2001

Type: Document

Conference Proceedings

Tetradymia canescens (gray horsebrush)

www.nrfirescience.org/resource/10824

This FEIS species review synthesizes information on the relationship of *Tetradymia canescens* (gray horsebrush) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology...

Author(s): Janette S. Scher

Year Published: 2001

Type: Document

Synthesis

Ephedra viridis (green ephedra)

www.nrfirescience.org/resource/10603

This FEIS species review synthesizes information on the relationship of *Ephedra viridis* (green ephedra) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Michelle B. Anderson

Year Published: 2001

Type: Document

Synthesis

Reproductive success of Lewis's woodpecker in burned pine and cottonwood riparian forests

www.nrfirescience.org/resource/11418

Lewis's Woodpecker (*Melanerpes lewis*) has been characterized as a "burn specialist" because of its preference for nesting within burned pine forests. No prior study, however, has demonstrated the relative importance of crown-burned forests to this woodpecker species by examining its reproductive success in different forest types. We...

Author(s): Victoria A. Saab, Kerri T. Vierling

Year Published: 2001

Type: Document

Book or Chapter or Journal Article

Acer glabrum (Rocky Mountain maple)

www.nrfirescience.org/resource/10609

This FEIS species review synthesizes information on the relationship of *Acer glabrum* (Rocky Mountain maple) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology,...

Author(s): Michelle B. Anderson

Year Published: 2001

Type: Document

Synthesis

Centaurea maculosa (spotted knapweed)

www.nrfirescience.org/resource/10493

This FEIS species review synthesizes information on the relationship of *Centaurea maculosa* (spotted knapweed) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy...

Author(s): Kristin L. Zouhar

Year Published: 2001

Type: Document

Synthesis

Populus balsamifera subsp. trichocarpa (black cottonwood)

www.nrfirescience.org/resource/10851

This FEIS species review synthesizes information on the relationship of *Populus balsamifera* subsp. *trichocarpa* (black cottonwood) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy,...

Author(s): Peter D. Steinberg

Year Published: 2001

Type: Document

Synthesis

Sporobolus airoides (alkali sacaton)

www.nrfirescience.org/resource/10744

This FEIS species review synthesizes information on the relationship of *Sporobolus airoides* (alkali sacaton) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology,...

Author(s): Kathleen A. Johnson

Year Published: 2001

Type: Document

Synthesis

Populus deltoides, Populus deltoides var. deltoides, Populus deltoides var. mislizeni, Populus deltoides var. monilifera (eastern cottonwood, eastern cottonwood, Rio Grande cottonwood, plains cottonwood)

www.nrfirescience.org/resource/10862

This FEIS species review synthesizes information on the relationship of *Populus deltoides*, *Populus deltoides* var. *deltoides*, *Populus deltoides* var. *mislizeni*, *Populus deltoides* var. *monilifera* (eastern

cottonwood, eastern cottonwood, Rio Grande cottonwood, plains cottonwood) to fire--how fire affects the species and its habitat,...

Author(s): Jane E. Taylor

Year Published: 2001

Type: Document

Synthesis

Centaurea diffusa (diffuse knapweed)

www.nrfirescience.org/resource/10481

This FEIS species review synthesizes information on the relationship of *Centaurea diffusa* (diffuse knapweed) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy,...

Author(s): Kristin L. Zouhar

Year Published: 2001

Type: Document

Synthesis

Pinus monophylla (singleleaf pinyon)

www.nrfirescience.org/resource/10935

This FEIS species review synthesizes information on the relationship of *Pinus monophylla* (singleleaf pinyon) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology,...

Author(s): Kristin L. Zouhar

Year Published: 2001

Type: Document

Synthesis

Ceanothus velutinus (snowbrush ceanothus)

www.nrfirescience.org/resource/10593

This FEIS species review synthesizes information on the relationship of *Ceanothus velutinus* (snowbrush ceanothus) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Michelle B. Anderson

Year Published: 2001

Type: Document

Synthesis

Vaccinium scoparium (grouse whortleberry)

www.nrfirescience.org/resource/10501

This FEIS species review synthesizes information on the relationship of *Vaccinium scoparium* (grouse whortleberry) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Kathleen A. Johnson

Year Published: 2001

Type: Document

Synthesis

Elymus elymoides (bottlebrush squirreltail)

www.nrfirescience.org/resource/10834

This FEIS species review synthesizes information on the relationship of *Elymus elymoides* (bottlebrush squirreltail) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic...

Author(s): Kevin A. Simonin

Year Published: 2001

Type: Document

Synthesis

Pinus flexilis (limber pine)

www.nrfirescience.org/resource/10741

This FEIS species review synthesizes information on the relationship of *Pinus flexilis* (limber pine) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Kathleen A. Johnson

Year Published: 2001

Type: Document

Synthesis

The role of fire in juniper and pinyon woodlands: a descriptive analysis

www.nrfirescience.org/resource/10994

Among the most pronounced vegetation changes in past 130 years has been the increase in both distribution and density of juniper (*Juniperus* spp.) and pinyon (*Pinus* spp.) across the Intermountain West. Juniper and pinyon species between the Canadian and Mexican borders occupy over 30 million ha throughout this region. Prior to...

Author(s): Richard F. Miller, Robin J. Tausch

Year Published: 2001

Type: Document

Conference Proceedings

Atriplex confertifolia (shadscale)

www.nrfirescience.org/resource/10832

This FEIS species review synthesizes information on the relationship of *Atriplex confertifolia* (shadscale) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology,...

Author(s): Kevin A. Simonin

Year Published: 2001

Type: Document

Synthesis

Abies concolor (white fir)

www.nrfirescience.org/resource/10936

This FEIS species review synthesizes information on the relationship of *Abies concolor* (white fir) to fire--how fire affects the species and its habitat, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and...

Author(s): Kristin L. Zouhar
Year Published: 2001
Type: Document
Synthesis

Acroptilon repens (Russian knapweed)

www.nrfirescience.org/resource/10496

This FEIS species review synthesizes information on the relationship of *Acroptilon repens* (Russian knapweed) to fire--how fire affects the species and its habitat, invasiveness of the species, effects of the species on fuels and fire regimes, and fire management considerations. Information is also provided on the species' taxonomy,...

Author(s): Kristin L. Zouhar
Year Published: 2001
Type: Document
Synthesis

Wildland fire in ecosystems: effects of fire on fauna

www.nrfirescience.org/resource/12584

Fires affect animals mainly through effects on their habitat. Fires often cause short-term increases in wildlife foods that contribute to increases in populations of some animals. These increases are moderated by the animals' ability to thrive in the altered, often simplified, structure of the postfire environment. The extent of...

Year Published: 2000
Type: Document
Technical Report or White Paper

Wildlife habitat considerations

www.nrfirescience.org/resource/11034

Fire, insects, disease, harvesting, and precommercial thinning all create mosaics on Northern Rocky Mountain landscapes. These mosaics are important for faunal habitat. Consequently, changes such as created openings or an increase in heavily stocked areas affect the water, cover, and food of forest habitats. The 'no action'...

Author(s): Helen Y. Smith
Year Published: 2000
Type: Document
Conference Proceedings

Achnatherum nelsonii (Columbia needlegrass)

www.nrfirescience.org/resource/10938

This FEIS species review synthesizes information on the relationship of *Achnatherum nelsonii* (Columbia needlegrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Kristin L. Zouhar
Year Published: 2000
Type: Document
Synthesis

Abies grandis (grand fir)

www.nrfirescience.org/resource/10739

This FEIS species review synthesizes information on the relationship of *Abies grandis* (grand fir) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used for...

Author(s): Janet L. Howard, Keith Aleksoff

Year Published: 2000

Type: Document

Synthesis

Fallugia paradoxa (Apache plume)

www.nrfirescience.org/resource/10786

This FEIS species review synthesizes information on the relationship of *Fallugia paradoxa* (Apache plume) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Jack McWilliams

Year Published: 2000

Type: Document

Synthesis

Achnatherum lettermanii (Letterman's needlegrass)

www.nrfirescience.org/resource/10866

This FEIS species review synthesizes information on the relationship of *Achnatherum lettermanii* (Letterman's needlegrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): Jane E. Taylor

Year Published: 2000

Type: Document

Synthesis

Danthonia unispicata (onespike oatgrass)

www.nrfirescience.org/resource/10754

This FEIS species review synthesizes information on the relationship of *Danthonia unispicata* (onespike oatgrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Robin F. Matthews

Year Published: 2000

Type: Document

Synthesis

Festuca idahoensis (Idaho fescue)

www.nrfirescience.org/resource/10937

This FEIS species review synthesizes information on the relationship of *Festuca idahoensis* (Idaho fescue) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Kristin L. Zouhar

Year Published: 2000

Type: Document

Synthesis

Pleuraphis jamesii (galleta)

www.nrfirescience.org/resource/10833

This FEIS species review synthesizes information on the relationship of *Pleuraphis jamesii* (galleta) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Kevin A. Simonin

Year Published: 2000

Type: Document

Synthesis

Ceanothus sanguineus (redstem ceanothus)

www.nrfirescience.org/resource/10742

This FEIS species review synthesizes information on the relationship of *Ceanothus sanguineus* (redstem ceanothus) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Kathleen A. Johnson

Year Published: 2000

Type: Document

Synthesis

Danthonia spicata (poverty oatgrass)

www.nrfirescience.org/resource/10620

This FEIS species review synthesizes information on the relationship of *Danthonia spicata* (poverty oatgrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Daniel Covington

Year Published: 2000

Type: Document

Synthesis

Guidelines to manage sage grouse populations and their habitats

www.nrfirescience.org/resource/15385

The status of sage grouse populations and habitats has been a concern to sportsmen and biologists for >80 years. Despite management and research efforts that date to the 1930s, breeding populations of this species have declined throughout much of its range. In May 1999, the western sage grouse (*C. urophasianus phaios*) in...

Author(s): John W. Connelly, Michael A. Schroeder, Alan R. Sands, Clait E. Braun

Year Published: 2000

Type: Document

Management or Planning Document

Long-term effects of fire on sage grouse habitat

www.nrfirescience.org/resource/11456

This study documented the long-term (>10 years) impact of fire on sage grouse (*Centrocercus urophasianus* Bonaparte) nesting and brood-rearing habitats on the Upper Snake River Plain in

southeastern Idaho.

Author(s): Pamela J. Nelle, Kerry P. Reese, John W. Connelly

Year Published: 2000

Type: Document

Book or Chapter or Journal Article

Stevensville West Central Study

www.nrfirescience.org/resource/10981

This paper reports on an application of two modeling systems in the assessment and planning effort for a 58,038-acre area on the Bitterroot National Forest: SIMulating Vegetative Patterns and Processes at Landscape ScaLEs (SIMPPLLE), and Multi-resource Analysis and Geographic Information System (MAGIS). SIMPPLLE was a useful model...

Author(s): J. Greg Jones, Jimmie D. Chew, Nan K. Christianson, D. J. Silvieux, Catherine A. Stewart

Year Published: 2000

Type: Document

Conference Proceedings

Ecosystem-based management at lower elevations

www.nrfirescience.org/resource/8423

Our experience testing ecosystem-based management (EM) treatments in ponderosa pine (*Pinus ponderosa*)/fir (*Abies* spp.) is summarized here. Topics covered include silvicultural treatments, fire application, soils and nutrient considerations, wildlife habitat considerations, associated riparian communities, and treatment of invasive...

Author(s): Stephen F. Arno

Year Published: 2000

Type: Document

Conference Proceedings

Koeleria macrantha (prairie Junegrass)

www.nrfirescience.org/resource/10830

This FEIS species review synthesizes information on the relationship of *Koeleria macrantha* (prairie Junegrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Kevin A. Simonin

Year Published: 2000

Type: Document

Synthesis

Vaccinium membranaceum (big huckleberry)

www.nrfirescience.org/resource/10828

This FEIS species review synthesizes information on the relationship of *Vaccinium membranaceum* (big huckleberry) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Kevin A. Simonin

Year Published: 2000

Type: Document

Synthesis

Prunus virginiana (chokecherry)

www.nrfirescience.org/resource/10503

This FEIS species review synthesizes information on the relationship of *Prunus virginiana* (chokecherry) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Kathleen A. Johnson

Year Published: 2000

Type: Document

Synthesis

Symphoricarpos albus (common snowberry)

www.nrfirescience.org/resource/10783

This FEIS species review synthesizes information on the relationship of *Symphoricarpos albus* (common snowberry) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Jack McWilliams

Year Published: 2000

Type: Document

Synthesis

Quercus gambelii (Gambel oak)

www.nrfirescience.org/resource/10835

This FEIS species review synthesizes information on the relationship of *Quercus gambelii* (Gambel oak) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Kevin A. Simonin

Year Published: 2000

Type: Document

Synthesis

Calamagrostis rubescens (pinegrass)

www.nrfirescience.org/resource/10755

This FEIS species review synthesizes information on the relationship of *Calamagrostis rubescens* (pinegrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Robin F. Matthews

Year Published: 2000

Type: Document

Synthesis

Festuca altaica, Festuca campestris, Festuca hallii (northern rough fescue, alpine rough fescue, plains rough fescue)

www.nrfirescience.org/resource/10881

This FEIS species review synthesizes information on the relationship of *Festuca altaica*, *Festuca campestris*, *Festuca hallii* (northern rough fescue, alpine rough fescue, plains rough fescue) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy...

Author(s): D. A. Tirmenstein
Year Published: 2000
Type: Document
Synthesis

Elymus canadensis (Canada wildrye)

www.nrfirescience.org/resource/10831

This FEIS species review synthesizes information on the relationship of *Elymus canadensis* (Canada wildrye) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Kevin A. Simonin
Year Published: 2000
Type: Document
Synthesis

The Fire and Fire Surrogates Study: providing guidelines for fire in future forest watershed management decisions

www.nrfirescience.org/resource/8434

As part of the 1998 Joint USDA/USDI Fire Science Program, the Fire and Fire Surrogates Study was proposed to establish and evaluate cross-comparisons of fuels treatment practices and techniques to reduce wildfire risk. This study evaluates prescribed fire, thinning, and various mechanical treatment methods for treating, removing, or...

Author(s): Carleton B. Edminster, Charles P. Weatherspoon, Daniel G. Neary
Year Published: 2000
Type: Document
Conference Proceedings

Achnatherum thurberiana (Thurber needlegrass)

www.nrfirescience.org/resource/10610

This FEIS species review synthesizes information on the relationship of *Achnatherum thurberiana* (Thurber needlegrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): Amy Archer
Year Published: 2000
Type: Document
Synthesis

Sporobolus cryptandrus (sand dropseed)

www.nrfirescience.org/resource/10836

This FEIS species review synthesizes information on the relationship of *Sporobolus cryptandrus* (sand dropseed) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Kevin A. Simonin
Year Published: 2000
Type: Document
Synthesis

Chapter 1: Introduction to wildland fire in ecosystems: effects of fire on fauna

www.nrfirescience.org/resource/12603

Fires affect animals mainly through effects on their habitat. Fires often cause short-term increases in wildlife foods that contribute to increases in populations of some animals. These increases are moderated by the animals' ability to thrive in the altered, often simplified, structure of the postfire environment. The extent of...

Author(s): Jack L. Lyon, James K. Brown, Mark H. Huff, Jane Kapler Smith

Year Published: 2000

Type: Document

Technical Report or White Paper

Pascopyrum smithii (western wheatgrass)

www.nrfirescience.org/resource/10877

This FEIS species review synthesizes information on the relationship of *Pascopyrum smithii* (western wheatgrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): D. A. Tirmenstein

Year Published: 1999

Type: Document

Synthesis

Western national forests: a cohesive strategy is needed to address catastrophic wildfire threats

www.nrfirescience.org/resource/11224

National forests of the dry, interior portion of the western United States that are managed by the Department of Agriculture's Forest Service have undergone significant changes over the last century and a half, becoming much denser, with fewer large trees and many more small, tightly spaced trees and underbrush. These changes have...

Author(s): United States General Accounting Office

Year Published: 1999

Type: Document

Technical Report or White Paper

Danthonia intermedia (timber oatgrass)

www.nrfirescience.org/resource/10882

This FEIS species review synthesizes information on the relationship of *Danthonia intermedia* (timber oatgrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): D. A. Tirmenstein

Year Published: 1999

Type: Document

Synthesis

Gutierrezia sarothrae (broom snakeweed)

www.nrfirescience.org/resource/10880

This FEIS species review synthesizes information on the relationship of *Gutierrezia sarothrae* (broom snakeweed) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): D. A. Tirmenstein

Year Published: 1999

Type: Document

Synthesis

Bouteloua hirsuta (hairy grama)

www.nrfirescience.org/resource/10583

This FEIS species review synthesizes information on the relationship of *Bouteloua hirsuta* (hairy grama) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Elena Zlatnik

Year Published: 1999

Type: Document

Synthesis

Purshia tridentata (antelope bitterbrush)

www.nrfirescience.org/resource/10584

This FEIS species review synthesizes information on the relationship of *Purshia tridentata* (antelope bitterbrush) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Elena Zlatnik

Year Published: 1999

Type: Document

Synthesis

Chrysothamnus viscidiflorus (green rabbitbrush)

www.nrfirescience.org/resource/10884

This FEIS species review synthesizes information on the relationship of *Chrysothamnus viscidiflorus* (green rabbitbrush) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): D. A. Tirmenstein

Year Published: 1999

Type: Document

Synthesis

Artemisia tridentata subsp. wyomingensis (Wyoming big sagebrush)

www.nrfirescience.org/resource/10738

This FEIS species review synthesizes information on the relationship of *Artemisia tridentata* subsp. *wyomingensis* (Wyoming big sagebrush) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management...

Author(s): Janet L. Howard

Year Published: 1999

Type: Document

Synthesis

Pseudoroegneria spicata (bluebunch wheatgrass)

www.nrfirescience.org/resource/10585

This FEIS species review synthesizes information on the relationship of *Pseudoroegneria spicata* (bluebunch wheatgrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): Elena Zlatnik

Year Published: 1999

Type: Document

Synthesis

Birds in a sagebrush sea: Managing sagebrush habitat for bird communities

www.nrfirescience.org/resource/15329

This booklet presents land management recommendations to help bird communities in sagebrush habitats. It was prepared for the Western Working Group of Partners in Flight, a partnership of private citizens, industry groups, government agencies, universities, nongovernment organizations, and others interested in bird conservation. Why...

Author(s): Christine Paige, Sharon Ritter

Year Published: 1999

Type: Document

Management or Planning Document

Artemisia tridentata subsp. tridentata (basin big sagebrush)

www.nrfirescience.org/resource/10886

This FEIS species review synthesizes information on the relationship of *Artemisia tridentata* subsp. *tridentata* (basin big sagebrush) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management....

Author(s): D. A. Tirmenstein

Year Published: 1999

Type: Document

Synthesis

Amelanchier utahensis (Utah serviceberry)

www.nrfirescience.org/resource/10588

This FEIS species review synthesizes information on the relationship of *Amelanchier utahensis* (Utah serviceberry) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Elena Zlatnik

Year Published: 1999

Type: Document

Synthesis

Grayia spinosa (spiny hopsage)

www.nrfirescience.org/resource/10879

This FEIS species review synthesizes information on the relationship of *Grayia spinosa* (spiny hopsage) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): D. A. Tirmenstein

Year Published: 1999

Type: Document

Synthesis

Muhlenbergia richardsonis (mat muhly)

www.nrfirescience.org/resource/10589

This FEIS species review synthesizes information on the relationship of *Muhlenbergia richardsonis* (mat muhly) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Keith Aleksoff

Year Published: 1999

Type: Document

Synthesis

The effects of thinning and similar stand treatments on fire behavior in western forests

www.nrfirescience.org/resource/11183

In the West, thinning and partial cuttings are being considered for treating millions of forested acres that are overstocked and prone to wildfire. The objectives of these treatments include tree growth redistribution, tree species regulation, timber harvest, wildlife habitat improvement, and wildfire-hazard reduction. Depending on...

Author(s): Russell T. Graham, Alan E. Harvey, Theresa B. Jain, Jonalea R. Tonn

Year Published: 1999

Type: Document

Technical Report or White Paper

Artemisia tripartita subsp. rupicola, Artemisia tripartita subsp. tripartita (Wyoming threetip sagebrush, tall threetip sagebrush)

www.nrfirescience.org/resource/10887

This FEIS species review synthesizes information on the relationship of *Artemisia tripartita* subsp. *rupicola*, *Artemisia tripartita* subsp. *tripartita* (Wyoming threetip sagebrush, tall threetip sagebrush) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the...

Author(s): D. A. Tirmenstein

Year Published: 1999

Type: Document

Synthesis

Juniperus osteosperma (Utah juniper)

www.nrfirescience.org/resource/10586

This FEIS species review synthesizes information on the relationship of *Juniperus osteosperma* (Utah juniper) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Elena Zlatnik

Year Published: 1999

Type: Document

Synthesis

Achnatherum hymenoides (Indian ricegrass)

www.nrfirescience.org/resource/10870

This FEIS species review synthesizes information on the relationship of *Achnatherum hymenoides*

(Indian ricegrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): D. A. Tirmenstein

Year Published: 1999

Type: Document

Synthesis

Juniperus occidentalis (western juniper)

www.nrfirescience.org/resource/10878

This FEIS species review synthesizes information on the relationship of *Juniperus occidentalis* (western juniper) to fire--how fire affects the species and its habitat, and fire management considerations.

Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): D. A. Tirmenstein

Year Published: 1999

Type: Document

Synthesis

Prescribed fire effects on biological control of leafy spurge

www.nrfirescience.org/resource/8282

The flea beetle, *Aphthona nigriscutis* Foudras, is a potentially useful agent for biological control of leafy spurge (*Euphorbia esula* L.) in grasslands devoted to wildlife conservation. However, effects of other grassland management practices on the persistence and dynamics of flea beetle populations are not well understood. We...

Author(s): David P. Fellows, Wesley E. Newton

Year Published: 1999

Type: Document

Book or Chapter or Journal Article

Hesperostipa comata (needle-and-thread grass)

www.nrfirescience.org/resource/10587

This FEIS species review synthesizes information on the relationship of *Hesperostipa comata* (needle-and-thread grass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): Elena Zlatnik

Year Published: 1999

Type: Document

Synthesis

Elymus glaucus (blue wildrye)

www.nrfirescience.org/resource/10502

This FEIS species review synthesizes information on the relationship of *Elymus glaucus* (blue wildrye) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Kathleen A. Johnson

Year Published: 1999

Type: Document

Synthesis

Proceedings: ecology and management of pinyon-juniper communities within the Interior West; September 15-18, 1997; Provo, UT

www.nrfirescience.org/resource/11884

A symposium held September 15-18, 1997, in Provo, UT, and Sanpete County, UT, provided information on the ecology, management, resource values, and restoration of pinyon-juniper communities in the Interior Western United States. The conference was hosted by the USDA Forest Service, Rocky Mountain Research Station and the Utah...

Author(s): Stephen B. Monsen, Richard Stevens

Year Published: 1999

Type: Document

Conference Proceedings

Symphoricarpos oreophilus (mountain snowberry)

www.nrfirescience.org/resource/10590

This FEIS species review synthesizes information on the relationship of *Symphoricarpos oreophilus* (mountain snowberry) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): Keith Aleksoff

Year Published: 1999

Type: Document

Synthesis

Chrysothamnus nauseosus (rubber rabbitbrush)

www.nrfirescience.org/resource/10883

This FEIS species review synthesizes information on the relationship of *Chrysothamnus nauseosus* (rubber rabbitbrush) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): D. A. Tirmenstein

Year Published: 1999

Type: Document

Synthesis

Achillea millefolium (western yarrow)

www.nrfirescience.org/resource/10591

This FEIS species review synthesizes information on the relationship of *Achillea millefolium* (western yarrow) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Keith Aleksoff

Year Published: 1999

Type: Document

Synthesis

Modeling effects of prescribed fire on wildlife habitat: stand structure, snag recruitment and coarse woody debris

www.nrfirescience.org/resource/11027

Tenderfoot Creek Experimental Forest is used as a case study to model the effects of prescribed fire

and silvicultural treatments on stand structure, snag recruitment, and coarse woody debris. The Forest Vegetation Simulator (FVS) and the Fire and Fuels Extension simulate the effects of the following treatment prescriptions:...

Author(s): Colin C. Hardy, Elizabeth D. Reinhardt

Year Published: 1998

Type: Document

Conference Proceedings

Appendix A - Biological assessment, TCEF research project for Lewis and Clark National Forest

www.nrfirescience.org/resource/11505

An environmental analysis has been prepared which describes and evaluates the management alternatives for the timber harvest and burning within the Tenderfoot Creek Experimental Forest (TCEF) project area. The project area lies within the headwaters of the Tenderfoot drainage of the Lewis and Clark National Forest. The purpose of...

Author(s): Donald Godtel

Year Published: 1998

Type: Document

Management or Planning Document

Bromus hordeaceus (soft chess)

www.nrfirescience.org/resource/10461

This FEIS species review synthesizes information on the relationship of Bromus hordeaceus (soft chess) to fire--how fire affects the species and its habitat, invasiveness of the species, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management....

Author(s): Janet L. Howard

Year Published: 1998

Type: Document

Synthesis

Responses of cavity-nesting birds to stand-replacement fire and salvage logging in ponderosa pine/douglas-fir forests of southwestern Idaho

www.nrfirescience.org/resource/11413

From 1994 to 1996, researchers monitored 695 nests of nine cavity-nesting bird species and measured vegetation at nest sites and at 90 randomly located sites in burned ponderosa pine forests of southwestern Idaho. Site treatments included two types of salvage logging, and unlogged controls. All bird species selected nest sites with...

Author(s): Victoria A. Saab, Jonathan G. Dudley

Year Published: 1998

Type: Document

Technical Report or White Paper

Poa arida (plains bluegrass)

www.nrfirescience.org/resource/10715

This FEIS species review synthesizes information on the relationship of Poa arida (plains bluegrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Janet L. Howard

Year Published: 1998

Type: Document

Synthesis

Amelanchier alnifolia (Saskatoon serviceberry)

www.nrfirescience.org/resource/10730

This FEIS species review synthesizes information on the relationship of *Amelanchier alnifolia* (Saskatoon serviceberry) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): Janet L. Howard

Year Published: 1997

Type: Document

Synthesis

Poa fendleriana (Fendler bluegrass)

www.nrfirescience.org/resource/10708

This FEIS species review synthesizes information on the relationship of *Poa fendleriana* (Fendler bluegrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Janet L. Howard

Year Published: 1997

Type: Document

Synthesis

Poa secunda (Sandberg bluegrass)

www.nrfirescience.org/resource/10716

This FEIS species review synthesizes information on the relationship of *Poa secunda* (Sandberg bluegrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Janet L. Howard

Year Published: 1997

Type: Document

Synthesis

Ambystoma macrodactylum (long-toed salamander)

www.nrfirescience.org/resource/10732

This FEIS species review synthesizes information on the relationship of *Ambystoma macrodactylum* (long-toed salamander) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): Janet L. Howard

Year Published: 1997

Type: Document

Synthesis

Aristida purpurea (purple threeawn)

www.nrfirescience.org/resource/10728

This FEIS species review synthesizes information on the relationship of *Aristida purpurea* (purple threeawn) to fire--how fire affects the species and its habitat, and fire management considerations.

Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Janet L. Howard

Year Published: 1997

Type: Document

Synthesis

Poa cusickii (Cusick's bluegrass)

www.nrfirescience.org/resource/10706

This FEIS species review synthesizes information on the relationship of *Poa cusickii* (Cusick's bluegrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Janet L. Howard

Year Published: 1997

Type: Document

Synthesis

Fire ecology of the forest habitat types of northern Idaho

www.nrfirescience.org/resource/11234

Provides information on fire ecology in forest habitat and community types occurring in northern Idaho. Identifies fire groups based on presettlement fire regimes and patterns of succession and stand development after fire. Describes forest fuels and suggests considerations for fire management.

Author(s): Jane Kapler Smith, William C. Fischer

Year Published: 1997

Type: Document

Synthesis, Technical Report or White Paper

Athene cunicularia (burrowing owl)

www.nrfirescience.org/resource/10726

This FEIS species review synthesizes information on the relationship of *Athene cunicularia* (burrowing owl) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Janet L. Howard

Year Published: 1996

Type: Document

Synthesis

Taxidea taxus (American badger)

www.nrfirescience.org/resource/10507

This FEIS species review synthesizes information on the relationship of *Taxidea taxus* (American badger) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Janet Sullivan

Year Published: 1996

Type: Document

Synthesis

Spermophilus townsendii (Townsend's ground squirrel)

www.nrfirescience.org/resource/10711

This FEIS species review synthesizes information on the relationship of *Spermophilus townsendii* (Townsend's ground squirrel) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This...

Author(s): Janet L. Howard

Year Published: 1996

Type: Document

Synthesis

Wildland firefighter safety awareness study: Phase 2 - setting new goals for the organizational culture, leadership, human factors, and other areas impacting firefighter safety

www.nrfirescience.org/resource/15477

This report summarizes the results of Phase II of a four phase study to examine the Federal wildland firefighting community and to improve firefighter safety. The first phase described the strengths and problem areas of the current organizational culture, and considered leadership and accountability issues, human factors, and...

Year Published: 1996

Type: Document

Technical Report or White Paper

Whitebark pine ecosystem restoration in western Montana

www.nrfirescience.org/resource/11251

Whitebark pine (*Pinus albicaulis*) is a major tree species of upper subalpine forests of the northern Rocky Mountains (Schmidt and McDonald 1990). It is an important nutritional and structural component of wildlife habitat (Arno and Hoff 1990; Schmidt and McDonald 1990). Its large, nutlike seeds are a major food source for many birds...

Author(s): Robert E. Keane, Stephen F. Arno

Year Published: 1996

Type: Document

Technical Report or White Paper

Examples of fire restoration in Glacier National Park

www.nrfirescience.org/resource/11252

Covering just over 1 million acres, Glacier National Park straddles the Continental Divide in northwestern Montana. Diverse vegetation communities include moist western cedar- western hemlock (*Thuja plicata* - *Tsuga heterophylla*) old growth forests similar to those of the Pacific Coast, dry western grasslands and prairies, dense...

Author(s): Laurie L. Kurth

Year Published: 1996

Type: Document

Technical Report or White Paper

Mustela vison (American mink)

www.nrfirescience.org/resource/10513

This FEIS species review synthesizes information on the relationship of *Mustela vison* (American mink) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Janet Sullivan

Year Published: 1996

Type: Document

Synthesis

Populus tremuloides (quaking aspen)

www.nrfirescience.org/resource/10717

This FEIS species review synthesizes information on the relationship of *Populus tremuloides* (quaking aspen) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Janet L. Howard

Year Published: 1996

Type: Document

Synthesis

Scophiopus intermontanus (Great Basin spadefoot)

www.nrfirescience.org/resource/10713

This FEIS species review synthesizes information on the relationship of *Scophiopus intermontanus* (Great Basin spadefoot) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): Janet L. Howard

Year Published: 1996

Type: Document

Synthesis

Wildland firefighter safety awareness study: Phase 1 - identifying the organizational culture, leadership, human factors, and other issues impacting firefighter safety

www.nrfirescience.org/resource/15475

There are many characterizations of wildland firefighters and their work culture. These characterizations vary across all levels of organizations, jurisdictions and types of jobs. As closely held as these perceptions are, as confident as each of us is with our own perceptions--it begs the question of what a systematic look at...

Year Published: 1996

Type: Document

Technical Report or White Paper

Microtus pennsylvanicus (meadow vole)

www.nrfirescience.org/resource/10514

This FEIS species review synthesizes information on the relationship of *Microtus pennsylvanicus* (meadow vole) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Janet Sullivan

Year Published: 1996

Type: Document

Synthesis

Perognathus parvus (Great Basin pocket mouse)

www.nrfirescience.org/resource/10719

This FEIS species review synthesizes information on the relationship of *Perognathus parvus* (Great Basin pocket mouse) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): Janet L. Howard

Year Published: 1996

Type: Document

Synthesis

An investigation on fire effects within xeric sage grouse brood habitat

www.nrfirescience.org/resource/11457

We investigated the short-term influence of fire on xeric sage grouse (*Centrocercus urophasianus* Bonaparte) brood habitat in southeastern Idaho from 1990-92.

Author(s): Richard A. Fischer, Kerry P. Reese, John W. Connelly

Year Published: 1996

Type: Document

Book or Chapter or Journal Article

Comparative effects of elk herbivory and 1988 fires on northern Yellowstone National Park grasslands

www.nrfirescience.org/resource/8265

The drought, frequent lightning strikes, and resultant large fires of 1988 in Yellowstone National Park were considered a several-century event for the area. They presented an unparalleled opportunity to document the effects of large fires on forage production, forage quality, and herbivory for the largest elk (*Cervus elaphus*)...

Author(s): Francis J. Singer, M. K. Harter

Year Published: 1996

Type: Document

Book or Chapter or Journal Article

***Urocyon cinereoargenteus* (common gray fox)**

www.nrfirescience.org/resource/10506

This FEIS species review synthesizes information on the relationship of *Urocyon cinereoargenteus* (common gray fox) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Janet Sullivan

Year Published: 1996

Type: Document

Synthesis

***Heracleum lanatum* (cow parsnip)**

www.nrfirescience.org/resource/10630

This FEIS species review synthesizes information on the relationship of *Heracleum lanatum* (cow parsnip) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Lora L. Esser

Year Published: 1995

Type: Document

Synthesis

Dichanthelium acuminatum (woolly panicum)

www.nrfirescience.org/resource/10914

This FEIS species review synthesizes information on the relationship of *Dichanthelium acuminatum* (woolly panicum) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Roberta A. Walsh

Year Published: 1995

Type: Document

Synthesis

Lepus americanus (snowshoe hare)

www.nrfirescience.org/resource/10515

This FEIS species review synthesizes information on the relationship of *Lepus americanus* (snowshoe hare) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Janet Sullivan

Year Published: 1995

Type: Document

Synthesis

Ribes lacustre (bristly black currant)

www.nrfirescience.org/resource/10752

This FEIS species review synthesizes information on the relationship of *Ribes lacustre* (bristly black currant) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Anna Marshall

Year Published: 1995

Type: Document

Synthesis

Ribes montigenum (gooseberry currant)

www.nrfirescience.org/resource/10751

This FEIS species review synthesizes information on the relationship of *Ribes montigenum* (gooseberry currant) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Anna Marshall

Year Published: 1995

Type: Document

Synthesis

Bos bison (American bison)

www.nrfirescience.org/resource/10549

This FEIS species review synthesizes information on the relationship of *Bos bison* (American bison) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This

species review can be used for...

Author(s): Julie L. Tesky

Year Published: 1995

Type: Document

Synthesis

The composition of bird communities following stand-replacement fires in northern Rocky Mountain (U.S.A.) conifer forests

www.nrfirescience.org/resource/12934

During the two breeding seasons immediately following the numerous and widespread fires of 1988, I estimated bird community composition in each of 34 burned-forest sites in western Montana and northern Wyoming. I detected an average of 45 species per site and a total of 87 species in the sites combined. A compilation of these data...

Author(s): Richard L. Hutto

Year Published: 1995

Type: Document

Book or Chapter or Journal Article

Dipodomys ordii (Ord's kangaroo rat)

www.nrfirescience.org/resource/10504

This FEIS species review synthesizes information on the relationship of *Dipodomys ordii* (Ord's kangaroo rat) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Janet Sullivan

Year Published: 1995

Type: Document

Synthesis

Peromyscus maniculatus (deer mouse)

www.nrfirescience.org/resource/10512

This FEIS species review synthesizes information on the relationship of *Peromyscus maniculatus* (deer mouse) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Janet Sullivan

Year Published: 1995

Type: Document

Synthesis

Ecological implications of sagebrush manipulation: A literature review

www.nrfirescience.org/resource/15427

The Montana Department of Fish, Wildlife & Parks (FWP) has long recognized the importance of sagebrush/grassland vegetative communities as wildlife habitat. Efforts to manipulate these communities concern FWP because of the potential implications to wildlife. Some groups believe sagebrush control generally will have beneficial...

Author(s): Joel G. Peterson

Year Published: 1995

Type: Document

Management or Planning Document

Trophic generalists vs. trophic specialists: implications for food web dynamics in post-fire streams

www.nrfirescience.org/resource/8260

The trophic ecology of 11 benthic macroinvertebrate taxa found in Cache Creek, Yellowstone National Park (YNP) was studied to determine if burned organic matter is an important resource and how resource utilization patterns may be altered in post-fire streams. Laboratory food quality experiments were conducted to determine the...

Author(s): Timothy B. Mihuc, G. Wayne Minshall

Year Published: 1995

Type: Document

Book or Chapter or Journal Article

Ribes oxycanthoides (northern gooseberry)

www.nrfirescience.org/resource/10611

This FEIS species review synthesizes information on the relationship of *Ribes oxycanthoides* (northern gooseberry) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Jennifer H. Carey

Year Published: 1995

Type: Document

Synthesis

Canis latrans (coyote)

www.nrfirescience.org/resource/10548

This FEIS species review synthesizes information on the relationship of *Canis latrans* (coyote) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used for fire...

Author(s): Julie L. Tesky

Year Published: 1995

Type: Document

Synthesis

Sialia mexicana (western bluebird)

www.nrfirescience.org/resource/10505

This FEIS species review synthesizes information on the relationship of *Sialia mexicana* (western bluebird) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Janet Sullivan

Year Published: 1995

Type: Document

Synthesis

Sylvilagus floridanus (eastern cottontail)

www.nrfirescience.org/resource/10508

This FEIS species review synthesizes information on the relationship of *Sylvilagus floridanus* (eastern cottontail) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general

management. This species review...

Author(s): Janet Sullivan

Year Published: 1995

Type: Document

Synthesis

Puma concolor (mountain lion)

www.nrfirescience.org/resource/10534

This FEIS species review synthesizes information on the relationship of *Puma concolor* (mountain lion) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Julie L. Tesky

Year Published: 1995

Type: Document

Synthesis

Shepherdia argentea (silver buffaloberry)

www.nrfirescience.org/resource/10634

This FEIS species review synthesizes information on the relationship of *Shepherdia argentea* (silver buffaloberry) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Lora L. Esser

Year Published: 1995

Type: Document

Synthesis

Ribes velutinum (desert gooseberry)

www.nrfirescience.org/resource/10750

This FEIS species review synthesizes information on the relationship of *Ribes velutinum* (desert gooseberry) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Anna Marshall

Year Published: 1995

Type: Document

Synthesis

Poecile atricapillus (black-capped chickadee)

www.nrfirescience.org/resource/10511

This FEIS species review synthesizes information on the relationship of *Poecile atricapillus* (black-capped chickadee) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): Janet Sullivan

Year Published: 1995

Type: Document

Synthesis

Antilocapra americana (pronghorn)

www.nrfirescience.org/resource/10731

This FEIS species review synthesizes information on the relationship of *Antilocapra americana* (pronghorn) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Janet L. Howard

Year Published: 1995

Type: Document

Synthesis

Winter habitat use by large ungulates following fire in northern Yellowstone National Park

www.nrfirescience.org/resource/8266

The effect of fire and habitat heterogeneity on winter foraging by ungulates was studied in northern Yellowstone National Park (YNP). Grazing was monitored at 15 study sites for 14 wk during the winters of 1991 and 1992. The location and intensity of grazing activity within each site were recorded on topographic maps and digitized...

Author(s): Scott M. Pearson, Monica G. Turner, Linda L. Wallace, William H. Romme

Year Published: 1995

Type: Document

Book or Chapter or Journal Article

Festuca rubra (red fescue)

www.nrfirescience.org/resource/10923

This FEIS species review synthesizes information on the relationship of *Festuca rubra* (red fescue) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used for...

Author(s): Roberta A. Walsh

Year Published: 1995

Type: Document

Synthesis

Bubo virginianus (great horned owl)

www.nrfirescience.org/resource/10518

This FEIS species review synthesizes information on the relationship of *Bubo virginianus* (great horned owl) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Janet Sullivan

Year Published: 1995

Type: Document

Synthesis

Prunus emarginata (bitter cherry)

www.nrfirescience.org/resource/10635

This FEIS species review synthesizes information on the relationship of *Prunus emarginata* (bitter cherry) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Lora L. Esser

Year Published: 1995

Type: Document

Synthesis

Krascheninnikovia lanata (winterfat)

www.nrfirescience.org/resource/10614

This FEIS species review synthesizes information on the relationship of *Krascheninnikovia lanata* (winterfat) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Jennifer H. Carey

Year Published: 1995

Type: Document

Synthesis

Deschampsia cespitosa (tufted hairgrass)

www.nrfirescience.org/resource/10913

This FEIS species review synthesizes information on the relationship of *Deschampsia cespitosa* (tufted hairgrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Roberta A. Walsh

Year Published: 1995

Type: Document

Synthesis

Ribes aureum (golden currant)

www.nrfirescience.org/resource/10749

This FEIS species review synthesizes information on the relationship of *Ribes aureum* (golden currant) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Anna Marshall

Year Published: 1995

Type: Document

Synthesis

Molothrus ater (brown-headed cowbird)

www.nrfirescience.org/resource/10444

This FEIS species review synthesizes information on the relationship of *Molothrus ater* (brown-headed cowbird) to fire--how fire affects the species and its habitat, invasiveness of the species, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general...

Author(s): Janet Sullivan

Year Published: 1995

Type: Document

Synthesis

Muhlenbergia montana (mountain muhly)

www.nrfirescience.org/resource/10919

This FEIS species review synthesizes information on the relationship of *Muhlenbergia montana* (mountain muhly) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Roberta A. Walsh

Year Published: 1995

Type: Document

Synthesis

Spiraea douglasii (Douglas' spirea)

www.nrfirescience.org/resource/10633

This FEIS species review synthesizes information on the relationship of *Spiraea douglasii* (Douglas' spirea) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Lora L. Esser

Year Published: 1995

Type: Document

Synthesis

Lynx rufus (bobcat)

www.nrfirescience.org/resource/10526

This FEIS species review synthesizes information on the relationship of *Lynx rufus* (bobcat) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used for fire...

Author(s): Julie L. Tesky

Year Published: 1995

Type: Document

Synthesis

Phasianus colchicus (ring-necked pheasant)

www.nrfirescience.org/resource/10535

This FEIS species review synthesizes information on the relationship of *Phasianus colchicus* (ring-necked pheasant) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Julie L. Tesky

Year Published: 1995

Type: Document

Synthesis

Urtica dioica (stinging nettle)

www.nrfirescience.org/resource/10612

This FEIS species review synthesizes information on the relationship of *Urtica dioica* (stinging nettle) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Jennifer H. Carey

Year Published: 1995

Type: Document

Synthesis

Ribes cereum (wax currant)

www.nrfirescience.org/resource/10753

This FEIS species review synthesizes information on the relationship of *Ribes cereum* (wax currant) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used for...

Author(s): Anna Marshall

Year Published: 1995

Type: Document

Synthesis

Procyon lotor (northern raccoon)

www.nrfirescience.org/resource/10533

This FEIS species review synthesizes information on the relationship of *Procyon lotor* (northern raccoon) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Julie L. Tesky

Year Published: 1995

Type: Document

Synthesis

Buteo lagopus (rough-legged hawk)

www.nrfirescience.org/resource/10517

This FEIS species review synthesizes information on the relationship of *Buteo lagopus* (rough-legged hawk) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Janet Sullivan

Year Published: 1995

Type: Document

Synthesis

Philadelphus lewisii (Lewis' mockorange)

www.nrfirescience.org/resource/10613

This FEIS species review synthesizes information on the relationship of *Philadelphus lewisii* (Lewis' mockorange) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Jennifer H. Carey

Year Published: 1995

Type: Document

Synthesis

Aspen, elk, and fire in northern Yellowstone Park

www.nrfirescience.org/resource/8261

Most stands of trembling aspen (*Populus tremuloides*) in northern Yellowstone National Park appear to have become established between 1870 and 1890, with little regeneration since 1900. There has been

controversy throughout this century regarding the relative roles of browsing by elk (*Cervus elaphus*) and fire suppression in...

Author(s): William H. Romme, Monica G. Turner, Linda L. Wallace, Jennifer S. Walker

Year Published: 1995

Type: Document

Book or Chapter or Journal Article

Schedonorus arundinaceus (tall fescue)

www.nrfirescience.org/resource/10479

This FEIS species review synthesizes information on the relationship of *Schedonorus arundinaceus* (tall fescue) to fire--how fire affects the species and its habitat, invasiveness of the species, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general...

Author(s): Roberta A. Walsh

Year Published: 1995

Type: Document

Synthesis

Sialia currucoides (mountain bluebird)

www.nrfirescience.org/resource/10510

This FEIS species review synthesizes information on the relationship of *Sialia currucoides* (mountain bluebird) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Janet Sullivan

Year Published: 1995

Type: Document

Synthesis

Lepus californicus (black-tailed jackrabbit)

www.nrfirescience.org/resource/10721

This FEIS species review synthesizes information on the relationship of *Lepus californicus* (black-tailed jackrabbit) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): Janet L. Howard

Year Published: 1995

Type: Document

Synthesis

Tamiasciurus hudsonicus (red squirrel)

www.nrfirescience.org/resource/10509

This FEIS species review synthesizes information on the relationship of *Tamiasciurus hudsonicus* (red squirrel) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Janet Sullivan

Year Published: 1995

Type: Document

Synthesis

Proceedings-ecology and management of annual rangelands; 1992 May 18-21; Boise, ID

www.nrfirescience.org/resource/12046

Annual weeds continue to expand throughout the West eliminating many desirable species and plant communities. Wildfires are now common on lands infested with annual weeds, causing a loss of wildlife habitat and other natural resources. Measures can be used to reduce burning and restore native plant communities, but restoration is...

Author(s): Stephen B. Monsen, Stanley G. Kitchen

Year Published: 1994

Type: Document

Conference Proceedings, Technical Report or White Paper

Simulating winter interactions among ungulates, vegetation, and fire in northern Yellowstone Park

www.nrfirescience.org/resource/8267

The interaction of large-scale fire, vegetation, and ungulates is an important management issue in Yellowstone National Park. A spatially explicit individual-based simulation model was developed to explore the effects of fire scale and pattern on the winter foraging dynamics and survival of free-ranging elk (*Cervus elaphus*) and...

Author(s): Monica G. Turner, Yegang Wu, Linda L. Wallace, William H. Romme, Antoinette Brenkert

Year Published: 1994

Type: Document

Book or Chapter or Journal Article

Geranium richardsonii (Richardson's geranium)

www.nrfirescience.org/resource/10636

This FEIS species review synthesizes information on the relationship of *Geranium richardsonii* (Richardson's geranium) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): Lora L. Esser

Year Published: 1994

Type: Document

Synthesis

Chimaphila umbellata (prince's-pine)

www.nrfirescience.org/resource/10772

This FEIS species review synthesizes information on the relationship of *Chimaphila umbellata* (prince's-pine) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Robin F. Matthews

Year Published: 1994

Type: Document

Synthesis

Festuca subulata (bearded fescue)

www.nrfirescience.org/resource/10644

This FEIS species review synthesizes information on the relationship of *Festuca subulata* (bearded fescue) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general

management. This species review can be...

Author(s): Lora L. Esser

Year Published: 1994

Type: Document

Synthesis

Dumetella carolinensis (gray catbird)

www.nrfirescience.org/resource/10516

This FEIS species review synthesizes information on the relationship of *Dumetella carolinensis* (gray catbird) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Janet Sullivan

Year Published: 1994

Type: Document

Synthesis

Agrostis stolonifera (creeping bentgrass)

www.nrfirescience.org/resource/10642

This FEIS species review synthesizes information on the relationship of *Agrostis stolonifera* (creeping bentgrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Lora L. Esser

Year Published: 1994

Type: Document

Synthesis

Rudbeckia hirta (black-eyed Susan)

www.nrfirescience.org/resource/10918

This FEIS species review synthesizes information on the relationship of *Rudbeckia hirta* (black-eyed Susan) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Roberta A. Walsh

Year Published: 1994

Type: Document

Synthesis

Elaeagnus commutata (silverberry)

www.nrfirescience.org/resource/10632

This FEIS species review synthesizes information on the relationship of *Elaeagnus commutata* (silverberry) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Lora L. Esser

Year Published: 1994

Type: Document

Synthesis

Buteo jamaicensis (red-tailed hawk)

www.nrfirescience.org/resource/10551

This FEIS species review synthesizes information on the relationship of *Buteo jamaicensis* (red-tailed hawk) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Julie L. Tesky

Year Published: 1994

Type: Document

Synthesis

Falco mexicanus (prairie falcon)

www.nrfirescience.org/resource/10541

This FEIS species review synthesizes information on the relationship of *Falco mexicanus* (prairie falcon) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Julie L. Tesky

Year Published: 1994

Type: Document

Synthesis

Bromus pumpellianus (Pumpelly brome)

www.nrfirescience.org/resource/10915

This FEIS species review synthesizes information on the relationship of *Bromus pumpellianus* (Pumpelly brome) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Roberta A. Walsh

Year Published: 1994

Type: Document

Synthesis

Brachylagus idahoensis (pygmy rabbit)

www.nrfirescience.org/resource/10550

This FEIS species review synthesizes information on the relationship of *Brachylagus idahoensis* (pygmy rabbit) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Julie L. Tesky

Year Published: 1994

Type: Document

Synthesis

Bromus ciliatus (fringed brome)

www.nrfirescience.org/resource/10640

This FEIS species review synthesizes information on the relationship of *Bromus ciliatus* (fringed brome) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Lora L. Esser

Year Published: 1994

Type: Document

Synthesis

Agrostis exarata (spike bentgrass)

www.nrfirescience.org/resource/10641

This FEIS species review synthesizes information on the relationship of *Agrostis exarata* (spike bentgrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Lora L. Esser

Year Published: 1994

Type: Document

Synthesis

Bromus vulgaris (Columbia brome)

www.nrfirescience.org/resource/10916

This FEIS species review synthesizes information on the relationship of *Bromus vulgaris* (Columbia brome) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Roberta A. Walsh

Year Published: 1994

Type: Document

Synthesis

Alectoris chukar (chukar)

www.nrfirescience.org/resource/10860

This FEIS species review synthesizes information on the relationship of *Alectoris chukar* (chukar) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used for...

Author(s): Janet Sullivan

Year Published: 1994

Type: Document

Synthesis

Deschampsia elongata (slender hairgrass)

www.nrfirescience.org/resource/10645

This FEIS species review synthesizes information on the relationship of *Deschampsia elongata* (slender hairgrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Lora L. Esser

Year Published: 1994

Type: Document

Synthesis

Asio flammeus (short-eared owl)

www.nrfirescience.org/resource/10725

This FEIS species review synthesizes information on the relationship of *Asio flammeus* (short-eared owl) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Janet L. Howard

Year Published: 1994

Type: Document

Synthesis

Ratibida columnifera (upright prairie coneflower)

www.nrfirescience.org/resource/10911

This FEIS species review synthesizes information on the relationship of *Ratibida columnifera* (upright prairie coneflower) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): Roberta A. Walsh

Year Published: 1994

Type: Document

Synthesis

Chimaphila menziesii (little prince's-pine)

www.nrfirescience.org/resource/10780

This FEIS species review synthesizes information on the relationship of *Chimaphila menziesii* (little prince's-pine) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Robin F. Matthews

Year Published: 1994

Type: Document

Synthesis

Carex capitata (capitate sedge)

www.nrfirescience.org/resource/10926

This FEIS species review synthesizes information on the relationship of *Carex capitata* (capitate sedge) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Roberta A. Walsh

Year Published: 1994

Type: Document

Synthesis

Chamaebatiaria millefolium (desert sweet)

www.nrfirescience.org/resource/10765

This FEIS species review synthesizes information on the relationship of *Chamaebatiaria millefolium* (desert sweet) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Robin F. Matthews

Year Published: 1994

Type: Document

Synthesis

Hierochloe odorata (sweet grass)

www.nrfirescience.org/resource/10921

This FEIS species review synthesizes information on the relationship of Hierochloe odorata (sweet grass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Roberta A. Walsh

Year Published: 1994

Type: Document

Synthesis

Carex concinna (low northern sedge)

www.nrfirescience.org/resource/10925

This FEIS species review synthesizes information on the relationship of Carex concinna (low northern sedge) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Roberta A. Walsh

Year Published: 1994

Type: Document

Synthesis

Aquila chrysaetos (golden eagle)

www.nrfirescience.org/resource/10554

This FEIS species review synthesizes information on the relationship of Aquila chrysaetos (golden eagle) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Julie L. Tesky

Year Published: 1994

Type: Document

Synthesis

Accipiter striatus (sharp-shinned hawk)

www.nrfirescience.org/resource/10519

This FEIS species review synthesizes information on the relationship of Accipiter striatus (sharp-shinned hawk) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Janet Sullivan

Year Published: 1994

Type: Document

Synthesis

Buteo swainsoni (Swainson's hawk)

www.nrfirescience.org/resource/10546

This FEIS species review synthesizes information on the relationship of Buteo swainsoni (Swainson's hawk) to fire--how fire affects the species and its habitat, and fire management considerations.

Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Julie L. Tesky

Year Published: 1994

Type: Document

Synthesis

Tympanuchus phasianellus (sharp-tailed grouse)

www.nrfirescience.org/resource/10532

This FEIS species review synthesizes information on the relationship of Tympanuchus phasianellus (sharp-tailed grouse) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): Julie L. Tesky

Year Published: 1994

Type: Document

Synthesis

Falco sparverius (American kestrel)

www.nrfirescience.org/resource/10542

This FEIS species review synthesizes information on the relationship of Falco sparverius (American kestrel) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Julie L. Tesky

Year Published: 1994

Type: Document

Synthesis

Buteo regalis (ferruginous hawk)

www.nrfirescience.org/resource/10545

This FEIS species review synthesizes information on the relationship of Buteo regalis (ferruginous hawk) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Julie L. Tesky

Year Published: 1994

Type: Document

Synthesis

Glycyrrhiza lepidota (wild licorice)

www.nrfirescience.org/resource/10631

This FEIS species review synthesizes information on the relationship of Glycyrrhiza lepidota (wild licorice) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Lora L. Esser

Year Published: 1994

Type: Document

Synthesis

Bufo boreas (western toad)

www.nrfirescience.org/resource/10859

This FEIS species review synthesizes information on the relationship of *Bufo boreas* (western toad) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used for...

Author(s): Janet Sullivan

Year Published: 1994

Type: Document

Synthesis

Solidago missouriensis (prairie goldenrod)

www.nrfirescience.org/resource/10917

This FEIS species review synthesizes information on the relationship of *Solidago missouriensis* (prairie goldenrod) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Roberta A. Walsh

Year Published: 1994

Type: Document

Synthesis

Oplopanax horridus (devil's club)

www.nrfirescience.org/resource/10720

This FEIS species review synthesizes information on the relationship of *Oplopanax horridus* (devil's club) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Janet L. Howard

Year Published: 1993

Type: Document

Synthesis

Panicum virgatum (switchgrass)

www.nrfirescience.org/resource/10580

This FEIS species review synthesizes information on the relationship of *Panicum virgatum* (switchgrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Ronald Uchytel

Year Published: 1993

Type: Document

Synthesis

Claytonia perfoliata (miner's-lettuce)

www.nrfirescience.org/resource/10763

This FEIS species review synthesizes information on the relationship of *Claytonia perfoliata* (miner's-lettuce) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Robin F. Matthews
Year Published: 1993
Type: Document
Synthesis

Eurybia conspicua (showy aster)

www.nrfirescience.org/resource/10812

This FEIS species review synthesizes information on the relationship of *Eurybia conspicua* (showy aster) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): William R. Reed
Year Published: 1993
Type: Document
Synthesis

Anas crecca (green-winged teal)

www.nrfirescience.org/resource/10556

This FEIS species review synthesizes information on the relationship of *Anas crecca* (green-winged teal) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Julie L. Tesky
Year Published: 1993
Type: Document
Synthesis

Anas acuta (northern pintail)

www.nrfirescience.org/resource/10527

This FEIS species review synthesizes information on the relationship of *Anas acuta* (northern pintail) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Julie L. Tesky
Year Published: 1993
Type: Document
Synthesis

Vicia americana (American vetch)

www.nrfirescience.org/resource/10616

This FEIS species review synthesizes information on the relationship of *Vicia americana* (American vetch) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Milo Coladonato
Year Published: 1993
Type: Document
Synthesis

Pandion haliaetus (osprey)

www.nrfirescience.org/resource/10537

This FEIS species review synthesizes information on the relationship of *Pandion haliaetus* (osprey) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used for...

Author(s): Julie L. Tesky

Year Published: 1993

Type: Document

Synthesis

Arnica cordifolia (heartleaf arnica)

www.nrfirescience.org/resource/10811

This FEIS species review synthesizes information on the relationship of *Arnica cordifolia* (heartleaf arnica) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): William R. Reed

Year Published: 1993

Type: Document

Synthesis

Anas discors (blue-winged teal)

www.nrfirescience.org/resource/10557

This FEIS species review synthesizes information on the relationship of *Anas discors* (blue-winged teal) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Julie L. Tesky

Year Published: 1993

Type: Document

Synthesis

Gymnocarpium dryopteris (oak fern)

www.nrfirescience.org/resource/10842

This FEIS species review synthesizes information on the relationship of *Gymnocarpium dryopteris* (oak fern) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): S. A. Snyder

Year Published: 1993

Type: Document

Synthesis

Grindelia squarrosa (curlycup gumweed)

www.nrfirescience.org/resource/10922

This FEIS species review synthesizes information on the relationship of *Grindelia squarrosa* (curlycup gumweed) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Roberta A. Walsh

Year Published: 1993

Type: Document
Synthesis

Peltigera aphthosa (green dog lichen)

www.nrfirescience.org/resource/10773

This FEIS species review synthesizes information on the relationship of Peltigera aphthosa (green dog lichen) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Robin F. Matthews

Year Published: 1993

Type: Document

Synthesis

Trifolium repens (white clover)

www.nrfirescience.org/resource/10617

This FEIS species review synthesizes information on the relationship of Trifolium repens (white clover) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Milo Coladonato

Year Published: 1993

Type: Document

Synthesis

Antennaria microphylla (rosy pussytoes)

www.nrfirescience.org/resource/10768

This FEIS species review synthesizes information on the relationship of Antennaria microphylla (rosy pussytoes) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Robin F. Matthews

Year Published: 1993

Type: Document

Synthesis

Anser albifrons (greater white-fronted goose)

www.nrfirescience.org/resource/10555

This FEIS species review synthesizes information on the relationship of Anser albifrons (greater white-fronted goose) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): Julie L. Tesky

Year Published: 1993

Type: Document

Synthesis

Grus americana (whooping crane)

www.nrfirescience.org/resource/10540

This FEIS species review synthesizes information on the relationship of Grus americana (whooping

crane) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Julie L. Tesky

Year Published: 1993

Type: Document

Synthesis

Branta canadensis (Canada goose)

www.nrfirescience.org/resource/10847

This FEIS species review synthesizes information on the relationship of *Branta canadensis* (Canada goose) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): S. A. Snyder

Year Published: 1993

Type: Document

Synthesis

Corydalis aurea (golden corydalis)

www.nrfirescience.org/resource/10762

This FEIS species review synthesizes information on the relationship of *Corydalis aurea* (golden corydalis) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Robin F. Matthews

Year Published: 1993

Type: Document

Synthesis

Phleum pratense (timothy)

www.nrfirescience.org/resource/10449

This FEIS species review synthesizes information on the relationship of *Phleum pratense* (timothy) to fire--how fire affects the species and its habitat, invasiveness of the species, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This...

Author(s): Lora L. Esser

Year Published: 1993

Type: Document

Synthesis

Rosa nutkana (Nootka rose)

www.nrfirescience.org/resource/10813

This FEIS species review synthesizes information on the relationship of *Rosa nutkana* (Nootka rose) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used for...

Author(s): William R. Reed

Year Published: 1993

Type: Document

Synthesis

Delphinium bicolor (low larkspur)

www.nrfirescience.org/resource/10778

This FEIS species review synthesizes information on the relationship of *Delphinium bicolor* (low larkspur) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Robin F. Matthews

Year Published: 1993

Type: Document

Synthesis

Castor canadensis (American beaver)

www.nrfirescience.org/resource/10547

This FEIS species review synthesizes information on the relationship of *Castor canadensis* (American beaver) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Julie L. Tesky

Year Published: 1993

Type: Document

Synthesis

Poa pratensis (Kentucky bluegrass)

www.nrfirescience.org/resource/10446

This FEIS species review synthesizes information on the relationship of *Poa pratensis* (Kentucky bluegrass) to fire--how fire affects the species and its habitat, invasiveness of the species, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management...

Author(s): Ronald Uchytel

Year Published: 1993

Type: Document

Synthesis

Equisetum sylvaticum (wood horsetail)

www.nrfirescience.org/resource/10776

This FEIS species review synthesizes information on the relationship of *Equisetum sylvaticum* (wood horsetail) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Robin F. Matthews

Year Published: 1993

Type: Document

Synthesis

Liatris punctata (blazing star)

www.nrfirescience.org/resource/10920

This FEIS species review synthesizes information on the relationship of *Liatris punctata* (blazing star) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This

species review can be used...

Author(s): Roberta A. Walsh

Year Published: 1993

Type: Document

Synthesis

Dracocephalum parviflorum (American dragonhead)

www.nrfirescience.org/resource/10761

This FEIS species review synthesizes information on the relationship of *Dracocephalum parviflorum* (American dragonhead) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): Robin F. Matthews

Year Published: 1993

Type: Document

Synthesis

Salix brachycarpa (barren-ground willow)

www.nrfirescience.org/resource/10619

This FEIS species review synthesizes information on the relationship of *Salix brachycarpa* (barren-ground willow) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Milo Coladonato

Year Published: 1993

Type: Document

Synthesis

Blechnum spicant (deer fern)

www.nrfirescience.org/resource/10767

This FEIS species review synthesizes information on the relationship of *Blechnum spicant* (deer fern) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Robin F. Matthews

Year Published: 1993

Type: Document

Synthesis

Delphinium occidentale (duncecap larkspur)

www.nrfirescience.org/resource/10777

This FEIS species review synthesizes information on the relationship of *Delphinium occidentale* (duncecap larkspur) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Robin F. Matthews

Year Published: 1993

Type: Document

Synthesis

Chen caerulescens (snow goose)

www.nrfirescience.org/resource/10844

This FEIS species review synthesizes information on the relationship of *Chen caerulescens* (snow goose) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): S. A. Snyder

Year Published: 1993

Type: Document

Synthesis

Lonicera utahensis (Utah honeysuckle)

www.nrfirescience.org/resource/10806

This FEIS species review synthesizes information on the relationship of *Lonicera utahensis* (Utah honeysuckle) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Diane S. Pavek

Year Published: 1993

Type: Document

Synthesis

Cygnus buccinator (trumpeter swan)

www.nrfirescience.org/resource/10543

This FEIS species review synthesizes information on the relationship of *Cygnus buccinator* (trumpeter swan) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Julie L. Tesky

Year Published: 1993

Type: Document

Synthesis

Pediomelum hypogaeum (subterranean Indian breadroot)

www.nrfirescience.org/resource/10714

This FEIS species review synthesizes information on the relationship of *Pediomelum hypogaeum* (subterranean Indian breadroot) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This...

Author(s): Janet L. Howard

Year Published: 1993

Type: Document

Synthesis

Zenaida macroura (mourning dove)

www.nrfirescience.org/resource/10531

This FEIS species review synthesizes information on the relationship of *Zenaida macroura* (mourning dove) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Julie L. Tesky

Year Published: 1993

Type: Document

Synthesis

Equisetum arvense (field horsetail)

www.nrfirescience.org/resource/10858

This FEIS species review synthesizes information on the relationship of *Equisetum arvense* (field horsetail) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Janet Sullivan

Year Published: 1993

Type: Document

Synthesis

Lycopodium annotinum (stiff clubmoss)

www.nrfirescience.org/resource/10759

This FEIS species review synthesizes information on the relationship of *Lycopodium annotinum* (stiff clubmoss) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Robin F. Matthews

Year Published: 1993

Type: Document

Synthesis

Lutra canadensis (northern river otter)

www.nrfirescience.org/resource/10538

This FEIS species review synthesizes information on the relationship of *Lutra canadensis* (northern river otter) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Julie L. Tesky

Year Published: 1993

Type: Document

Synthesis

Atriplex gardneri (Gardner's saltbush)

www.nrfirescience.org/resource/10810

This FEIS species review synthesizes information on the relationship of *Atriplex gardneri* (Gardner's saltbush) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): William R. Reed

Year Published: 1993

Type: Document

Synthesis

Anas strepera (gadwall)

www.nrfirescience.org/resource/10553

This FEIS species review synthesizes information on the relationship of *Anas strepera* (gadwall) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used for...

Author(s): Julie L. Tesky

Year Published: 1993

Type: Document

Synthesis

Ovis canadensis (bighorn sheep)

www.nrfirescience.org/resource/10536

This FEIS species review synthesizes information on the relationship of *Ovis canadensis* (bighorn sheep) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Julie L. Tesky

Year Published: 1993

Type: Document

Synthesis

Cetraria islandica (Iceland moss)

www.nrfirescience.org/resource/10779

This FEIS species review synthesizes information on the relationship of *Cetraria islandica* (Iceland moss) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Robin F. Matthews

Year Published: 1993

Type: Document

Synthesis

Anas platyrhynchos (mallard)

www.nrfirescience.org/resource/10848

This FEIS species review synthesizes information on the relationship of *Anas platyrhynchos* (mallard) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): S. A. Snyder

Year Published: 1993

Type: Document

Synthesis

Camassia quamash (common camas)

www.nrfirescience.org/resource/10724

This FEIS species review synthesizes information on the relationship of *Camassia quamash* (common camas) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Janet L. Howard

Year Published: 1993

Type: Document

Synthesis

Poa compressa (Canada bluegrass)

www.nrfirescience.org/resource/10578

This FEIS species review synthesizes information on the relationship of *Poa compressa* (Canada bluegrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Ronald Uchytel

Year Published: 1993

Type: Document

Synthesis

Oxytropis sericea (whitepoint locoweed)

www.nrfirescience.org/resource/10643

This FEIS species review synthesizes information on the relationship of *Oxytropis sericea* (whitepoint locoweed) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Lora L. Esser

Year Published: 1993

Type: Document

Synthesis

Amaranthus retroflexus (rough pigweed)

www.nrfirescience.org/resource/10480

This FEIS species review synthesizes information on the relationship of *Amaranthus retroflexus* (rough pigweed) to fire--how fire affects the species and its habitat, invasiveness of the species, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general...

Author(s): Roberta A. Walsh

Year Published: 1993

Type: Document

Synthesis

Rosa gymnocarpa (baldhip rose)

www.nrfirescience.org/resource/10814

This FEIS species review synthesizes information on the relationship of *Rosa gymnocarpa* (baldhip rose) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): William R. Reed

Year Published: 1993

Type: Document

Synthesis

Aix sponsa (wood duck)

www.nrfirescience.org/resource/10849

This FEIS species review synthesizes information on the relationship of *Aix sponsa* (wood duck) to fire--how fire affects the species and its habitat, and fire management considerations. Information is

also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used for fire...

Author(s): S. A. Snyder

Year Published: 1993

Type: Document

Synthesis

Wyethia amplexicaulis (mules-ears)

www.nrfirescience.org/resource/10771

This FEIS species review synthesizes information on the relationship of *Wyethia amplexicaulis* (mules-ears) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Robin F. Matthews

Year Published: 1993

Type: Document

Synthesis

Iliamna rivularis (wild hollyhock)

www.nrfirescience.org/resource/10760

This FEIS species review synthesizes information on the relationship of *Iliamna rivularis* (wild hollyhock) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Robin F. Matthews

Year Published: 1993

Type: Document

Synthesis

Solidago canadensis (Canada goldenrod)

www.nrfirescience.org/resource/10618

This FEIS species review synthesizes information on the relationship of *Solidago canadensis* (Canada goldenrod) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Milo Coladonato

Year Published: 1993

Type: Document

Synthesis

Linnaea borealis (twinflower)

www.nrfirescience.org/resource/10737

This FEIS species review synthesizes information on the relationship of *Linnaea borealis* (twinflower) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Janet L. Howard

Year Published: 1993

Type: Document

Synthesis

Rapid decline of whitebark pine in western Montana: evidence from 20-year re-measurements

www.nrfirescience.org/resource/12916

Whitebark pine (*Pinus albicaulis*), an important producer of food for wildlife, is decreasing in abundance in western Montana due to attacks by the white pine blister rust fungus (*Cronartium ribicola*), epidemics of mountain pine beetle (*Dendroctonus ponderosae*) and successional replacement mainly by subalpine fir (*Abies lasiocarpa*)....

Author(s): Robert E. Keane, Stephen F. Arno

Year Published: 1993

Type: Document

Book or Chapter or Journal Article

Tortula ruralis (twisted moss)

www.nrfirescience.org/resource/10756

This FEIS species review synthesizes information on the relationship of *Tortula ruralis* (twisted moss) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Robin F. Matthews

Year Published: 1993

Type: Document

Synthesis

Aythya valisineria (canvasback)

www.nrfirescience.org/resource/10552

This FEIS species review synthesizes information on the relationship of *Aythya valisineria* (canvasback) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Julie L. Tesky

Year Published: 1993

Type: Document

Synthesis

Circus cyaneus (northern harrier)

www.nrfirescience.org/resource/10845

This FEIS species review synthesizes information on the relationship of *Circus cyaneus* (northern harrier) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): S. A. Snyder

Year Published: 1993

Type: Document

Synthesis

Collema tenax (black lichen)

www.nrfirescience.org/resource/10764

This FEIS species review synthesizes information on the relationship of *Collema tenax* (black lichen) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Robin F. Matthews
Year Published: 1993
Type: Document
Synthesis

Taraxacum officinale (common dandelion)

www.nrfirescience.org/resource/10448

This FEIS species review synthesizes information on the relationship of *Taraxacum officinale* (common dandelion) to fire--how fire affects the species and its habitat, invasiveness of the species, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general...

Author(s): Lora L. Esser
Year Published: 1993
Type: Document
Synthesis

Haliaeetus leucocephalus (bald eagle)

www.nrfirescience.org/resource/10843

This FEIS species review synthesizes information on the relationship of *Haliaeetus leucocephalus* (bald eagle) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): S. A. Snyder
Year Published: 1993
Type: Document
Synthesis

Schoenoplectus tabernaemontani (soft-stem bulrush)

www.nrfirescience.org/resource/10839

This FEIS species review synthesizes information on the relationship of *Schoenoplectus tabernaemontani* (soft-stem bulrush) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): S. A. Snyder
Year Published: 1993
Type: Document
Synthesis

Lupinus caudatus (tailcup lupine)

www.nrfirescience.org/resource/10775

This FEIS species review synthesizes information on the relationship of *Lupinus caudatus* (tailcup lupine) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Robin F. Matthews
Year Published: 1993
Type: Document
Synthesis

Lewisia rediviva (bitterroot)

www.nrfirescience.org/resource/10736

This FEIS species review synthesizes information on the relationship of *Lewisia rediviva* (bitterroot) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Janet L. Howard

Year Published: 1993

Type: Document

Synthesis

Antennaria racemosa (raceme pussytoes)

www.nrfirescience.org/resource/10770

This FEIS species review synthesizes information on the relationship of *Antennaria racemosa* (raceme pussytoes) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Robin F. Matthews

Year Published: 1993

Type: Document

Synthesis

Helianthus maximiliani (Maximilian sunflower)

www.nrfirescience.org/resource/10912

This FEIS species review synthesizes information on the relationship of *Helianthus maximiliani* (Maximilian sunflower) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): Roberta A. Walsh

Year Published: 1993

Type: Document

Synthesis

Marchantia polymorpha (liverwort)

www.nrfirescience.org/resource/10757

This FEIS species review synthesizes information on the relationship of *Marchantia polymorpha* (liverwort) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Robin F. Matthews

Year Published: 1993

Type: Document

Synthesis

Sorbus sitchensis (Sitka mountain-ash)

www.nrfirescience.org/resource/10781

This FEIS species review synthesizes information on the relationship of *Sorbus sitchensis* (Sitka mountain-ash) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Robin F. Matthews

Year Published: 1993

Type: Document
Synthesis

Picea pungens (blue spruce)

www.nrfirescience.org/resource/10805

This FEIS species review synthesizes information on the relationship of *Picea pungens* (blue spruce) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used for...

Author(s): Diane S. Pavsek

Year Published: 1993

Type: Document

Synthesis

Aralia nudicaulis (wild sarsaparilla)

www.nrfirescience.org/resource/10808

This FEIS species review synthesizes information on the relationship of *Aralia nudicaulis* (wild sarsaparilla) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Diane S. Pavsek

Year Published: 1993

Type: Document

Synthesis

Lupinus sericeus (silky lupine)

www.nrfirescience.org/resource/10774

This FEIS species review synthesizes information on the relationship of *Lupinus sericeus* (silky lupine) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Robin F. Matthews

Year Published: 1993

Type: Document

Synthesis

Cygnus columbianus (tundra swan)

www.nrfirescience.org/resource/10544

This FEIS species review synthesizes information on the relationship of *Cygnus columbianus* (tundra swan) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Julie L. Tesky

Year Published: 1993

Type: Document

Synthesis

Zigadenus paniculatus (foothill deathcamas)

www.nrfirescience.org/resource/10707

This FEIS species review synthesizes information on the relationship of *Zigadenus paniculatus* (foothill

deathcamas) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Janet L. Howard

Year Published: 1993

Type: Document

Synthesis

Hordeum jubatum (foxtail barley)

www.nrfirescience.org/resource/10539

This FEIS species review synthesizes information on the relationship of *Hordeum jubatum* (foxtail barley) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Julie L. Tesky

Year Published: 1992

Type: Document

Synthesis

Physocarpus malvaceus (ninebark)

www.nrfirescience.org/resource/10688

This FEIS species review synthesizes information on the relationship of *Physocarpus malvaceus* (ninebark) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): James R. Habeck

Year Published: 1992

Type: Document

Synthesis

Maianthemum stellatum (starry Solomon's-seal)

www.nrfirescience.org/resource/10686

This FEIS species review synthesizes information on the relationship of *Maianthemum stellatum* (starry Solomon's-seal) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): James R. Habeck

Year Published: 1992

Type: Document

Synthesis

Salix boothii (Booth willow)

www.nrfirescience.org/resource/10637

This FEIS species review synthesizes information on the relationship of *Salix boothii* (Booth willow) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Lora L. Esser

Year Published: 1992

Type: Document

Synthesis

Salix monticola (mountain willow)

www.nrfirescience.org/resource/10639

This FEIS species review synthesizes information on the relationship of *Salix monticola* (mountain willow) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Lora L. Esser

Year Published: 1992

Type: Document

Synthesis

Tsuga mertensiana (mountain hemlock)

www.nrfirescience.org/resource/10559

This FEIS species review synthesizes information on the relationship of *Tsuga mertensiana* (mountain hemlock) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Julie L. Tesky

Year Published: 1992

Type: Document

Synthesis

Xanthium strumarium (common cocklebur)

www.nrfirescience.org/resource/10445

This FEIS species review synthesizes information on the relationship of *Xanthium strumarium* (common cocklebur) to fire--how fire affects the species and its habitat, invasiveness of the species, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general...

Author(s): Ronald Uchytel

Year Published: 1992

Type: Document

Synthesis

Pleurozium schreberi (Schreber's moss)

www.nrfirescience.org/resource/10528

This FEIS species review synthesizes information on the relationship of *Pleurozium schreberi* (Schreber's moss) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Julie L. Tesky

Year Published: 1992

Type: Document

Synthesis

Pinus monticola (western white pine)

www.nrfirescience.org/resource/10663

This FEIS species review synthesizes information on the relationship of *Pinus monticola* (western white pine) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general

management. This species review can be...

Author(s): Randy Scott Griffith

Year Published: 1992

Type: Document

Synthesis

Agrostis scabra (ticklegrass)

www.nrfirescience.org/resource/10769

This FEIS species review synthesizes information on the relationship of *Agrostis scabra* (ticklegrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Robin F. Matthews

Year Published: 1992

Type: Document

Synthesis

Viburnum edule (highbush cranberry)

www.nrfirescience.org/resource/10758

This FEIS species review synthesizes information on the relationship of *Viburnum edule* (highbush cranberry) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Robin F. Matthews

Year Published: 1992

Type: Document

Synthesis

Achnatherum richardsonii (Richardson needlegrass)

www.nrfirescience.org/resource/10638

This FEIS species review synthesizes information on the relationship of *Achnatherum richardsonii* (Richardson needlegrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): Lora L. Esser

Year Published: 1992

Type: Document

Synthesis

Erodium cicutarium (cutleaf filaree)

www.nrfirescience.org/resource/10462

This FEIS species review synthesizes information on the relationship of *Erodium cicutarium* (cutleaf filaree) to fire--how fire affects the species and its habitat, invasiveness of the species, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general...

Author(s): Janet L. Howard

Year Published: 1992

Type: Document

Synthesis

Chamerion angustifolium (fireweed)

www.nrfirescience.org/resource/10809

This FEIS species review synthesizes information on the relationship of *Chamerion angustifolium* (fireweed) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Diane S. Pavek

Year Published: 1992

Type: Document

Synthesis

Luzula hitchcockii (smooth woodrush)

www.nrfirescience.org/resource/10685

This FEIS species review synthesizes information on the relationship of *Luzula hitchcockii* (smooth woodrush) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): James R. Habeck

Year Published: 1992

Type: Document

Synthesis

Meleagris gallopavo (wild turkey)

www.nrfirescience.org/resource/10841

This FEIS species review synthesizes information on the relationship of *Meleagris gallopavo* (wild turkey) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): S. A. Snyder

Year Published: 1992

Type: Document

Synthesis

Elymus trachycaulus (slender wheatgrass)

www.nrfirescience.org/resource/10722

This FEIS species review synthesizes information on the relationship of *Elymus trachycaulus* (slender wheatgrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Janet L. Howard

Year Published: 1992

Type: Document

Synthesis

Ambrosia psilostachya (western ragweed)

www.nrfirescience.org/resource/10807

This FEIS species review synthesizes information on the relationship of *Ambrosia psilostachya* (western ragweed) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Diane S. Pavek

Year Published: 1992

Type: Document

Synthesis

Thuja plicata (western redcedar)

www.nrfirescience.org/resource/10561

This FEIS species review synthesizes information on the relationship of Thuja plicata (western redcedar) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Julie L. Tesky

Year Published: 1992

Type: Document

Synthesis

Salix bebbiana (Bebb willow)

www.nrfirescience.org/resource/10563

This FEIS species review synthesizes information on the relationship of Salix bebbiana (Bebb willow) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Julie L. Tesky

Year Published: 1992

Type: Document

Synthesis

Ceratodon purpureus (fire moss)

www.nrfirescience.org/resource/10529

This FEIS species review synthesizes information on the relationship of Ceratodon purpureus (fire moss) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Julie L. Tesky

Year Published: 1992

Type: Document

Synthesis

Salix glauca (grayleaf willow)

www.nrfirescience.org/resource/10581

This FEIS species review synthesizes information on the relationship of Salix glauca (grayleaf willow) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Ronald Uchytel

Year Published: 1992

Type: Document

Synthesis

Pinus ponderosa var. ponderosa (Pacific ponderosa pine)

www.nrfirescience.org/resource/10687

This FEIS species review synthesizes information on the relationship of *Pinus ponderosa* var. *ponderosa* (Pacific ponderosa pine) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This...

Author(s): James R. Habeck

Year Published: 1992

Type: Document

Synthesis

Schoenoplectus americanus (Olney's threesquare bulrush)

www.nrfirescience.org/resource/10565

This FEIS species review synthesizes information on the relationship of *Schoenoplectus americanus* (Olney's threesquare bulrush) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This...

Author(s): Ronald Uchytel

Year Published: 1992

Type: Document

Synthesis

Tsuga heterophylla (western hemlock)

www.nrfirescience.org/resource/10560

This FEIS species review synthesizes information on the relationship of *Tsuga heterophylla* (western hemlock) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Julie L. Tesky

Year Published: 1992

Type: Document

Synthesis

Rhamnus purshiana (cascara)

www.nrfirescience.org/resource/10691

This FEIS species review synthesizes information on the relationship of *Rhamnus purshiana* (cascara) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used for...

Author(s): James R. Habeck

Year Published: 1992

Type: Document

Synthesis

Hylocomium splendens (splendid feather moss)

www.nrfirescience.org/resource/10530

This FEIS species review synthesizes information on the relationship of *Hylocomium splendens* (splendid feather moss) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): Julie L. Tesky

Year Published: 1992

Type: Document

Synthesis

Halogeton glomeratus (halogeton)

www.nrfirescience.org/resource/10468

This FEIS species review synthesizes information on the relationship of Halogeton glomeratus (halogeton) to fire--how fire affects the species and its habitat, invasiveness of the species, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management....

Author(s): Diane S. Pavek

Year Published: 1992

Type: Document

Synthesis

Carex bigelowii (Bigelow sedge)

www.nrfirescience.org/resource/10766

This FEIS species review synthesizes information on the relationship of Carex bigelowii (Bigelow sedge) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Robin F. Matthews

Year Published: 1992

Type: Document

Synthesis

Elymus repens (quackgrass)

www.nrfirescience.org/resource/10470

This FEIS species review synthesizes information on the relationship of Elymus repens (quackgrass) to fire--how fire affects the species and its habitat, invasiveness of the species, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This...

Author(s): S. A. Snyder

Year Published: 1992

Type: Document

Synthesis

Symphiotrichum leave (smooth blue American-aster)

www.nrfirescience.org/resource/10861

This FEIS species review synthesizes information on the relationship of Symphiotrichum leave (smooth blue American-aster) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): Janet Sullivan

Year Published: 1992

Type: Document

Synthesis

Medicago sativa (alfalfa)

www.nrfirescience.org/resource/10475

This FEIS species review synthesizes information on the relationship of Medicago sativa (alfalfa) to fire--how fire affects the species and its habitat, invasiveness of the species, and fire management

considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This...

Author(s): Janet Sullivan

Year Published: 1992

Type: Document

Synthesis

Menziesia ferruginea (menziesia)

www.nrfirescience.org/resource/10684

This FEIS species review synthesizes information on the relationship of *Menziesia ferruginea* (menziesia) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): James R. Habeck

Year Published: 1992

Type: Document

Synthesis

Calamagrostis purpurascens (purple pinegrass)

www.nrfirescience.org/resource/10562

This FEIS species review synthesizes information on the relationship of *Calamagrostis purpurascens* (purple pinegrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): Julie L. Tesky

Year Published: 1992

Type: Document

Synthesis

Calamagrostis canadensis (bluejoint reedgrass)

www.nrfirescience.org/resource/10558

This FEIS species review synthesizes information on the relationship of *Calamagrostis canadensis* (bluejoint reedgrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): Julie L. Tesky

Year Published: 1992

Type: Document

Synthesis

Canis lupus (gray wolf)

www.nrfirescience.org/resource/10846

This FEIS species review synthesizes information on the relationship of *Canis lupus* (gray wolf) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used for...

Author(s): S. A. Snyder

Year Published: 1991

Type: Document

Synthesis

Paxistima myrsinites (Oregon boxwood)

www.nrfirescience.org/resource/10850

This FEIS species review synthesizes information on the relationship of Paxistima myrsinites (Oregon boxwood) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): S. A. Snyder

Year Published: 1991

Type: Document

Synthesis

Shepherdia canadensis (russet buffaloberry)

www.nrfirescience.org/resource/10909

This FEIS species review synthesizes information on the relationship of Shepherdia canadensis (russet buffaloberry) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Crystal J. Walkup

Year Published: 1991

Type: Document

Synthesis

Larix lyallii (alpine larch)

www.nrfirescience.org/resource/10689

This FEIS species review synthesizes information on the relationship of Larix lyallii (alpine larch) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): James R. Habeck

Year Published: 1991

Type: Document

Synthesis

Salix planifolia (planeleaf willow)

www.nrfirescience.org/resource/10568

This FEIS species review synthesizes information on the relationship of Salix planifolia (planeleaf willow) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Ronald Uchytel

Year Published: 1991

Type: Document

Synthesis

Hesperostipa spartea (porcupine grass)

www.nrfirescience.org/resource/10910

This FEIS species review synthesizes information on the relationship of Hesperostipa spartea (porcupine grass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Crystal J. Walkup
Year Published: 1991
Type: Document
Synthesis

Crataegus douglasii (Douglas hawthorn)

www.nrfirescience.org/resource/10690

This FEIS species review synthesizes information on the relationship of *Crataegus douglasii* (Douglas hawthorn) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): James R. Habeck
Year Published: 1991
Type: Document
Synthesis

Salix geyeriana (Geyer willow)

www.nrfirescience.org/resource/10564

This FEIS species review synthesizes information on the relationship of *Salix geyeriana* (Geyer willow) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Ronald Uchytel
Year Published: 1991
Type: Document
Synthesis

Symphoricarpos mollis (creeping snowberry)

www.nrfirescience.org/resource/10838

This FEIS species review synthesizes information on the relationship of *Symphoricarpos mollis* (creeping snowberry) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): S. A. Snyder
Year Published: 1991
Type: Document
Synthesis

Betula papyrifera (paper birch)

www.nrfirescience.org/resource/10570

This FEIS species review synthesizes information on the relationship of *Betula papyrifera* (paper birch) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Ronald Uchytel
Year Published: 1991
Type: Document
Synthesis

Athyrium filix-femina (lady fern)

www.nrfirescience.org/resource/10908

This FEIS species review synthesizes information on the relationship of *Athyrium filix-femina* (lady fern) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Crystal J. Walkup

Year Published: 1991

Type: Document

Synthesis

Odocoileus virginianus (white-tailed deer)

www.nrfirescience.org/resource/10840

This FEIS species review synthesizes information on the relationship of *Odocoileus virginianus* (white-tailed deer) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): S. A. Snyder

Year Published: 1991

Type: Document

Synthesis

Arctostaphylos uva-ursi (kinnikinnick)

www.nrfirescience.org/resource/10626

This FEIS species review synthesizes information on the relationship of *Arctostaphylos uva-ursi* (kinnikinnick) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Marilyn F. Crane

Year Published: 1991

Type: Document

Synthesis

Abies lasiocarpa, Abies lasiocarpa var. arizonica, Abies lasiocarpa var. lasiocarpa (subalpine fir, corkbark fir, subalpine fir)

www.nrfirescience.org/resource/10574

This FEIS species review synthesizes information on the relationship of *Abies lasiocarpa*, *Abies lasiocarpa* var. *arizonica*, *Abies lasiocarpa* var. *lasiocarpa* (subalpine fir, corkbark fir, subalpine fir) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the...

Author(s): Ronald Uchytel

Year Published: 1991

Type: Document

Synthesis

Ursus arctos horribilis (grizzly bear)

www.nrfirescience.org/resource/10837

This FEIS species review synthesizes information on the relationship of *Ursus arctos horribilis* (grizzly bear) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): S. A. Snyder

Year Published: 1991

Type: Document

Synthesis

Picea glauca (white spruce)

www.nrfirescience.org/resource/10579

This FEIS species review synthesizes information on the relationship of *Picea glauca* (white spruce) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used for...

Author(s): Ronald Uchytel

Year Published: 1991

Type: Document

Synthesis

Spartina pectinata (prairie cordgrass)

www.nrfirescience.org/resource/10906

This FEIS species review synthesizes information on the relationship of *Spartina pectinata* (prairie cordgrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Crystal J. Walkup

Year Published: 1991

Type: Document

Synthesis

Salix drummondiana (Drummond willow)

www.nrfirescience.org/resource/10566

This FEIS species review synthesizes information on the relationship of *Salix drummondiana* (Drummond willow) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Ronald Uchytel

Year Published: 1991

Type: Document

Synthesis

Sorghastrum nutans (Indiangrass)

www.nrfirescience.org/resource/10907

This FEIS species review synthesizes information on the relationship of *Sorghastrum nutans* (Indiangrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Crystal J. Walkup

Year Published: 1991

Type: Document

Synthesis

Spiraea betulifolia (white spirea)

www.nrfirescience.org/resource/10683

This FEIS species review synthesizes information on the relationship of *Spiraea betulifolia* (white spirea) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): James R. Habeck

Year Published: 1991

Type: Document

Synthesis

Rubus idaeus (red raspberry)

www.nrfirescience.org/resource/10875

This FEIS species review synthesizes information on the relationship of *Rubus idaeus* (red raspberry) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): D. A. Tirmenstein

Year Published: 1990

Type: Document

Synthesis

Pteridium aquilinum (western bracken fern)

www.nrfirescience.org/resource/10624

This FEIS species review synthesizes information on the relationship of *Pteridium aquilinum* (western bracken fern) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Marilyn F. Crane

Year Published: 1990

Type: Document

Synthesis

Vaccinium myrtillus (dwarf bilberry)

www.nrfirescience.org/resource/10872

This FEIS species review synthesizes information on the relationship of *Vaccinium myrtillus* (dwarf bilberry) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): D. A. Tirmenstein

Year Published: 1990

Type: Document

Synthesis

Celtis reticulata (netleaf hackberry)

www.nrfirescience.org/resource/10891

This FEIS species review synthesizes information on the relationship of *Celtis reticulata* (netleaf hackberry) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): D. A. Tirmenstein

Year Published: 1990

Type: Document

Synthesis

Vaccinium ovalifolium (ovalleaf huckleberry)

www.nrfirescience.org/resource/10874

This FEIS species review synthesizes information on the relationship of *Vaccinium ovalifolium* (ovalleaf huckleberry) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): D. A. Tirmenstein

Year Published: 1990

Type: Document

Synthesis

Berberis nervosa (dwarf Oregon-grape)

www.nrfirescience.org/resource/10885

This FEIS species review synthesizes information on the relationship of *Berberis nervosa* (dwarf Oregon-grape) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): D. A. Tirmenstein

Year Published: 1990

Type: Document

Synthesis

Lathyrus bijugatus (pinewoods sweetpea)

www.nrfirescience.org/resource/10931

This FEIS species review synthesizes information on the relationship of *Lathyrus bijugatus* (pinewoods sweetpea) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Tara Y. Williams

Year Published: 1990

Type: Document

Synthesis

Populus balsamifera subsp. balsamifera (balsam poplar)

www.nrfirescience.org/resource/10692

This FEIS species review synthesizes information on the relationship of *Populus balsamifera* subsp. *balsamifera* (balsam poplar) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This...

Author(s): Holly T. Harris

Year Published: 1990

Type: Document

Synthesis

Selaginella densa (little spikemoss)

www.nrfirescience.org/resource/10622

This FEIS species review synthesizes information on the relationship of *Selaginella densa* (little spikemoss) to fire--how fire affects the species and its habitat, and fire management considerations.

Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Marilyn F. Crane

Year Published: 1990

Type: Document

Synthesis

Rosa acicularis (prickly rose)

www.nrfirescience.org/resource/10623

This FEIS species review synthesizes information on the relationship of *Rosa acicularis* (prickly rose) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Marilyn F. Crane

Year Published: 1990

Type: Document

Synthesis

Taxus brevifolia (Pacific yew)

www.nrfirescience.org/resource/10890

This FEIS species review synthesizes information on the relationship of *Taxus brevifolia* (Pacific yew) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): D. A. Tirmenstein

Year Published: 1990

Type: Document

Synthesis

Vaccinium caespitosum (dwarf bilberry)

www.nrfirescience.org/resource/10871

This FEIS species review synthesizes information on the relationship of *Vaccinium caespitosum* (dwarf bilberry) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): D. A. Tirmenstein

Year Published: 1990

Type: Document

Synthesis

Erythronium grandiflorum (glacier lily)

www.nrfirescience.org/resource/10932

This FEIS species review synthesizes information on the relationship of *Erythronium grandiflorum* (glacier lily) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): Tara Y. Williams

Year Published: 1990

Type: Document

Synthesis

Vaccinium myrtilloides (velvetleaf blueberry)

www.nrfirescience.org/resource/10873

This FEIS species review synthesizes information on the relationship of *Vaccinium myrtilloides* (velvetleaf blueberry) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): D. A. Tirmenstein

Year Published: 1990

Type: Document

Synthesis

Actaea rubra (red baneberry)

www.nrfirescience.org/resource/10625

This FEIS species review synthesizes information on the relationship of *Actaea rubra* (red baneberry) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Marilyn F. Crane

Year Published: 1990

Type: Document

Synthesis

Vaccinium parvifolium (red huckleberry)

www.nrfirescience.org/resource/10888

This FEIS species review synthesizes information on the relationship of *Vaccinium parvifolium* (red huckleberry) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can...

Author(s): D. A. Tirmenstein

Year Published: 1990

Type: Document

Synthesis

Botrychium paradoxum (peculiar moonwort)

www.nrfirescience.org/resource/10930

This FEIS species review synthesizes information on the relationship of *Botrychium paradoxum* (peculiar moonwort) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Tara Y. Williams

Year Published: 1990

Type: Document

Synthesis

Xerophyllum tenax (beargrass)

www.nrfirescience.org/resource/10621

This FEIS species review synthesizes information on the relationship of *Xerophyllum tenax* (beargrass) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Marilyn F. Crane
Year Published: 1990
Type: Document
Synthesis

Oxytropis campestris var. columbiana (Columbia River crazyweed)

www.nrfirescience.org/resource/10927

This FEIS species review synthesizes information on the relationship of *Oxytropis campestris* var. *columbiana* (Columbia River crazyweed) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management...

Author(s): Tara Y. Williams
Year Published: 1990
Type: Document
Synthesis

Alnus viridis subsp. sinuata (Sitka alder)

www.nrfirescience.org/resource/10572

This FEIS species review synthesizes information on the relationship of *Alnus viridis* subsp. *sinuata* (Sitka alder) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Ronald Uchytel
Year Published: 1989
Type: Document
Synthesis

Rubus spectabilis (salmonberry)

www.nrfirescience.org/resource/10889

This FEIS species review synthesizes information on the relationship of *Rubus spectabilis* (salmonberry) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): D. A. Tirmenstein
Year Published: 1989
Type: Document
Synthesis

Rubus discolor (Himalayan blackberry)

www.nrfirescience.org/resource/10477

This FEIS species review synthesizes information on the relationship of *Rubus discolor* (Himalayan blackberry) to fire--how fire affects the species and its habitat, invasiveness of the species, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general...

Author(s): D. A. Tirmenstein
Year Published: 1989
Type: Document
Synthesis

Sambucus nigra subsp. cerulea (blue elderberry)

www.nrfirescience.org/resource/10628

This FEIS species review synthesizes information on the relationship of *Sambucus nigra* subsp. *cerulea* (blue elderberry) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): Marilyn F. Crane

Year Published: 1989

Type: Document

Synthesis

Salix lutea (yellow willow)

www.nrfirescience.org/resource/10567

This FEIS species review synthesizes information on the relationship of *Salix lutea* (yellow willow) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used for...

Author(s): Ronald Uchytel

Year Published: 1989

Type: Document

Synthesis

Forage quality in burned and unburned aspen communities

www.nrfirescience.org/resource/11483

Selected forage species were sampled during the first and second summers after autumn prescribed burning of three sites in southeastern Idaho. They were analyzed for in vitro dry matter digestibility, protein, calcium, and phosphorus. This aspen type has a highly nutritious understory. Burning further improved the quality of the...

Author(s): Norbert V. DeByle, Philip J. Urness, Deborah L. Blank

Year Published: 1989

Type: Document

Technical Report or White Paper

Effects of fire in the northern Great Plains

www.nrfirescience.org/resource/11184

Fire has been used inconsistently to manage native and tame grasslands in the Northern Great Plains (NGP) of the north-central U.S. and south-central Canada, particularly the grasslands found in prairies, plains, agricultural land retirement programs, and moist soil sites. This has happened for three primary reasons: (1) the...

Author(s): Kenneth F. Higgins, Arnold D. Kruse, James L. Piehl

Year Published: 1989

Type: Document

Synthesis, Technical Report or White Paper

Polystichum munitum (western sword fern)

www.nrfirescience.org/resource/10627

This FEIS species review synthesizes information on the relationship of *Polystichum munitum* (western sword fern) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review...

Author(s): Marilyn F. Crane

Year Published: 1989

Type: Document
Synthesis

Alnus rubra (red alder)

www.nrfirescience.org/resource/10571

This FEIS species review synthesizes information on the relationship of *Alnus rubra* (red alder) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used for...

Author(s): Ronald Uchytel
Year Published: 1989
Type: Document
Synthesis

Alnus rhombifolia (white alder)

www.nrfirescience.org/resource/10576

This FEIS species review synthesizes information on the relationship of *Alnus rhombifolia* (white alder) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Ronald Uchytel
Year Published: 1989
Type: Document
Synthesis

Rubus laciniatus (evergreen blackberry)

www.nrfirescience.org/resource/10478

This FEIS species review synthesizes information on the relationship of *Rubus laciniatus* (evergreen blackberry) to fire--how fire affects the species and its habitat, invasiveness of the species, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general...

Author(s): D. A. Tirmenstein
Year Published: 1989
Type: Document
Synthesis

Salix lemmonii (Lemmons willow)

www.nrfirescience.org/resource/10575

This FEIS species review synthesizes information on the relationship of *Salix lemmonii* (Lemmons willow) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used...

Author(s): Ronald Uchytel
Year Published: 1989
Type: Document
Synthesis

Salix lucida subsp. lasiandra (Pacific willow)

www.nrfirescience.org/resource/10577

This FEIS species review synthesizes information on the relationship of *Salix lucida* subsp. *lasiandra*

(Pacific willow) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species...

Author(s): Ronald Uchytel

Year Published: 1989

Type: Document

Synthesis

Rubus ursinus (trailing blackberry)

www.nrfirescience.org/resource/10876

This FEIS species review synthesizes information on the relationship of Rubus ursinus (trailing blackberry) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): D. A. Tirmenstein

Year Published: 1989

Type: Document

Synthesis

Acer negundo (boxelder)

www.nrfirescience.org/resource/10823

This FEIS species review synthesizes information on the relationship of Acer negundo (boxelder) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be used for...

Author(s): Lynn Rosario

Year Published: 1988

Type: Document

Synthesis

Andropogon gerardii (big bluestem)

www.nrfirescience.org/resource/10573

This FEIS species review synthesizes information on the relationship of Andropogon gerardii (big bluestem) to fire--how fire affects the species and its habitat, and fire management considerations. Information is also provided on the species' taxonomy, distribution, basic biology, and general management. This species review can be...

Author(s): Ronald Uchytel

Year Published: 1988

Type: Document

Synthesis

Fire ecology of western Montana forest habitat types

www.nrfirescience.org/resource/11257

Provides information on fire as an ecological factor for forest habitat types in western Montana. Identifies Fire Groups of habitat types based on fire's role in forest succession. Describes forest fuels and suggests considerations for fire management.

Author(s): William C. Fischer, Anne F. Bradley

Year Published: 1987

Type: Document

Technical Report or White Paper

Fire response of shrubs of dry forest habitat types in Montana and Idaho

www.nrfirescience.org/resource/11916

This paper contains information from diverse sources on the regeneration capabilities, response to fire, and utilization of shrub species important or common to dry forest habitat types in Montana and Idaho. Response to fire is classified by reproductive strategies and how the species persists in the stand.

Utility of the species...

Author(s): Nonan V. Noste, Charles L. Bushey

Year Published: 1987

Type: Document

Technical Report or White Paper

Fire ecology of the forest habitat types of central Idaho

www.nrfirescience.org/resource/11258

Discusses fire as an ecological factor for forest habitat types occurring in central Idaho. Identifies "Fire Groups" of habitat types based on fire's role in forest succession. Considerations for fire management are suggested.

Author(s): Marilyn F. Crane, William C. Fischer

Year Published: 1986

Type: Document

Technical Report or White Paper

Data base for early postfire succession on the Sundance Burn, northern Idaho

www.nrfirescience.org/resource/11914

Provides baseline data on secondary plant succession and the development of plant species and life forms for the initial 6 to 15 years following a stand-replacing forest fire in the western redcedar-western hemlock type in northern Idaho. Information pertaining to plant cover (m²/0.01 ha) and volume of space occupied (m³/0.01 ha) is...

Author(s): Peter F. Stickney

Year Published: 1985

Type: Document

Technical Report or White Paper

Influence of fire on curlleaf mountain-mahogany in the Intermountain West

www.nrfirescience.org/resource/11059

Comprehensive sampling of curlleaf mountain-mahogany (*Cercocarpus ledifolius*) on 41 sites in five States allowed an assessment of postfire population dynamics, differences in regeneration patterns, and critical events in stand regeneration. Historical accounts of fire, fire history studies, and early photographs provided historical...

Author(s): George E. Gruell, Stephen C. Bunting, Leon F. Neuenschwander

Year Published: 1985

Type: Document

Conference Proceedings, Technical Report or White Paper

Fire, logging, and white-tailed deer interrelationships in the Swan Valley, northwestern Montana

www.nrfirescience.org/resource/11056

The historical importance of fire was investigated on the upper Swan Valley winter white-tailed deer range in northwestern Montana. The relatively recent impacts of logging on winter range quality were also included in these studies. Fire exclusion has led to successional development of once open-canopied mature seral forests, and...

Author(s): June D. Freedman, James R. Habeck

Year Published: 1985
Type: Document
Conference Proceedings, Technical Report or White Paper

Bighorn sheep and fire: seven case histories

www.nrfirescience.org/resource/11057

Responses of seven bighorn sheep populations and habitats to prescribed fire and wildfire in southern British Columbia, Idaho, and Glacier National Park ranged from no influence to increase; interacting factors such as lungworm infection, livestock grazing, and reduction in forage overrode potential benefits of subsequent increases...

Author(s): James M. Peek, Raymond A. Demarchi, Dennis A. Demarchi

Year Published: 1985

Type: Document

Conference Proceedings, Technical Report or White Paper

Fire ecology of antelope bitterbrush in the Northern Rocky Mountains

www.nrfirescience.org/resource/11058

Frequency of resprouting and number of newly established seedlings of antelope bitterbrush were sampled on sites burned by prescribed burns and wildfires 3 to 10 years previously to determine the effect of habitat type, growth form, and season of the burn on bitterbrush. Significant differences in resprouting response occurred among...

Author(s): Stephen C. Bunting, Leon F. Neuenschwander, George E. Gruell

Year Published: 1985

Type: Document

Conference Proceedings, Technical Report or White Paper

Fire's effects on a small bird population

www.nrfirescience.org/resource/11188

Changes in bird populations as a result of a 122 ha forest fire are evaluated. There is little evidence of any drastic effect on numbers of birds, species, or species diversity in the year of the fire or 2 years later.

Author(s): L. Jack Lyon, John M. Marzluff

Year Published: 1985

Type: Document

Technical Report or White Paper

Modeling shrub succession following clearcutting and broadcast burning

www.nrfirescience.org/resource/11060

This conceptual model of early seral shrub succession following clearcutting and broadcast burning synthesizes ideas from previous research and modeling approaches into a simple diagrammatic model of the critical successional influences and processes. Illustrative examples are drawn from observations...

Author(s): Penelope Morgan, Leon F. Neuenschwander

Year Published: 1985

Type: Document

Conference Proceedings, Technical Report or White Paper

Rangeland fire effects

www.nrfirescience.org/resource/11003

Description not entered

Author(s): Ken Sanders, Jack Durham
Year Published: 1985
Type: Document
Conference Proceedings

Managing wildlife habitat with fire in the Aspen ecosystem

www.nrfirescience.org/resource/11482

Much of the nearly 7 million acres (2.86 million ha) of aspen in the western United States is seral to conifers. Also, most aspen stands are old, in excess of 60 years. Proper treatment of these aspen forests will retain the aspen and can produce optimum wildlife habitat. Optimally, all age and size classes of aspen should be...

Author(s): Norbert V. DeByle
Year Published: 1985
Type: Document
Conference Proceedings

Influence of fire severity on response of evergreen ceanothus

www.nrfirescience.org/resource/11061

Fire plays an important role in Ceanothus velutinus habitat. Its impact varies with season and severity of fire. Knowledge of the interaction between fire severity and evergreen ceanothus habitat can assist managers in estimating the effect of fire on evergreen ceanothus and in developing burning prescriptions.

Author(s): Nonan V. Noste
Year Published: 1985
Type: Document
Conference Proceedings, Technical Report or White Paper

Fire and vegetative trends in the Northern Rockies: interpretations from 1871-1982 photographs

www.nrfirescience.org/resource/11260

Interprets changes in forest and range vegetation resulting from the absence of fire. Eighty-six matched photographs covering the period 1871-1982 provide the basis for describing how vegetation has changed in various plant communities. These scenes show that woody vegetation has increased markedly as a result of reduced wildfire....

Author(s): George E. Gruell
Year Published: 1983
Type: Document
Technical Report or White Paper

The sagebrush-grass region: A review of the ecological literature

www.nrfirescience.org/resource/15435

The objective of this paper is to provide a comprehensive review of literature on the vegetation of the sage brush region of North America. Despite its prime importance as a grazing resource, and the problems produced by its use and misuse, research on this large and varied ecosystem was quite limited during the first half of this...

Author(s): E.W. Tisdale, M. Hironaka
Year Published: 1981
Type: Document
Synthesis

Clearcutting and fire in the larch/Douglas-fir forests of western Montana: a multifaceted

research summary

www.nrfirescience.org/resource/11180

Logging slash on 73 clearcuts was broadcast burned over a wide range of conditions, achieving a broad array of fire intensities and effects. An intense wildfire was also evaluated. Fire effectiveness was measured and related to preburn conditions and fire intensity. Treatment effects on air quality, forest regeneration, vegetation...

Author(s): Norbert V. DeByle

Year Published: 1981

Type: Document

Technical Report or White Paper

Fire's influence on wildlife habitat on the Bridger-Teton National Forest, Wyoming - Volume I: photographic record and analysis

www.nrfirescience.org/resource/12151

The Bridger-Teton National Forest in the Jackson Hole Region of Wyoming has long been recognized for its wildlife resource. Management efforts have emphasized the measurement of forage utilization by elk (*Cervus canadensis nelsoni*) and their effect on summer and winter ranges. Less consideration has been given to other biotic and...

Author(s): George E. Gruell

Year Published: 1980

Type: Document

Technical Report or White Paper

Fire's influence on wildlife habitat on the Bridger-Teton National Forest, Wyoming - Volume II: changes and causes, management implications

www.nrfirescience.org/resource/12126

Provides information on wildlife habitat condition and trend on the Bridger-Teton National Forest in the Jackson Hole Region of Wyoming by analysis of broad plant communities. Visual evidence of condition and trend are provided in Volume I, The Photo Record. Management implications are included.

Author(s): George E. Gruell

Year Published: 1980

Type: Document

Technical Report or White Paper

Fire ecology and prescribed burning in the Great Plains: a research review

www.nrfirescience.org/resource/11912

Historical evidence indicates that fires were prevalent in grasslands. In the past, big prairie fires usually occurred during drought years that followed 1 to 3 years of above-average precipitation, which provided abundant and continuous fuel. Fire frequency probably varied from 5 to 10 years in level-to-rolling topography and from...

Author(s): Henry A. Wright, Arthur W. Bailey

Year Published: 1980

Type: Document

Technical Report or White Paper

Light burning and the nutrient value of forage

www.nrfirescience.org/resource/11112

Slash burning in a clearcut under conditions producing very light to light burn intensities (

Author(s): Nellie M. Stark

Year Published: 1980

Type: Document

Fuel management opportunities on the Lolo National Forest: an economic analysis

www.nrfirescience.org/resource/11925

Examines economic feasibility of managing nonslash fuels in mature timber to reduce the costs and damages of wildfire. A 1.2-million-acre (496,000 hectare) study area is stratified by timber value, fire occurrence rate, and fuel hazard. Maximum potential fuel management benefits-based on the elimination of expected class E+ fires-...

Author(s): Donald Brent Wood

Year Published: 1979

Type: Document

Research Brief or Fact Sheet

Elk-aspen relationships on a prescribed burn

www.nrfirescience.org/resource/11924

Elk use of aspen alones was deterred only one winter following prescribed fire. Numbers of aspen suckers on the nine burned clones increased 178 percent in 3 years, but the response varied greatly among clones. Elk browsing the third winter after burning averaged 44 percent of current annual growth, and eliminated incremental height...

Author(s): Joseph V. Basile

Year Published: 1979

Type: Document

Research Brief or Fact Sheet

Nutrient content of forest shrubs following burning

www.nrfirescience.org/resource/8151

Prescribed burning under mature Larch/Douglas-fir forests produced changes in elemental uptake. Elemental analyses of individual species and existing biomass three years post-burn from hot, medium, and lightly burned sites and unburned controls showed a significant shift in species composition with burn intensity. Few species from...

Author(s): Nellie M. Stark, R. Steel

Year Published: 1977

Type: Document

Book or Chapter or Journal Article

Fire effects on marten habitat in the Selway-Bitterroot Wilderness

www.nrfirescience.org/resource/7955

In an area of 21 km² where fires have produced a mosaic of forest communities, including subalpine fir (*Abies lasiocarpa*), Engelman spruce (*Picea engelmannii*) and lodgepole pine, results from 255 track observations, 80 captures of 13 live-trapped martens, and scat analysis, over a 13 month period in 1973-1974, suggest that the...

Author(s): Gary M. Koehler, Maurice G. Hornocker

Year Published: 1977

Type: Document

Book or Chapter or Journal Article

Spring burning in an aspen-conifer stand for maintenance of moose habitat, West Boulder River, Montana

www.nrfirescience.org/resource/8441

Description not entered

Author(s): Floyd A. Gordon
Year Published: 1976
Type: Document
Conference Proceedings

Sprouting of northern Idaho shrubs after prescribed burning

www.nrfirescience.org/resource/7959

Description not entered

Author(s): Thomas A. Leege, W. O. Hickey

Year Published: 1971

Type: Document

Book or Chapter or Journal Article

Prescribed fire planning in the Intermountain West

www.nrfirescience.org/resource/11936

Prescribed fire has been used in the forests of the Intermountain West since 1910. It is employed for site preparation for planting or seeding, hazard reduction, livestock range and wildlife habitat improvement, cover type conversion, and insect or disease control. The major advantage of fire for all these objectives is its low cost...

Author(s): William R. Beaufait

Year Published: 1966

Type: Document

Technical Report or White Paper

A Three-Step Decision Support Framework for Taking Climate Adaptation Actions

www.nrfirescience.org/resource/15933

We will present a framework for using available climate science to set forward-looking conservation goals and select among a menu of climate adaptation strategies. This decision support framework is designed to catalyze adaptation actions by bridging recent advances in climate science and adaptation planning, while also helping...

Type: Media

Webinar

Positive effects of fire on birds may appear only under narrow combinations of fire severity and time-since-fire

www.nrfirescience.org/resource/14589

We conducted bird surveys in 10 of the first 11 years following a mixed-severity fire in a dry, low-elevation mixed-conifer forest in western Montana, United States. By defining fire in terms of fire severity and time-since-fire, and then comparing detection rates for species inside 15 combinations of fire severity and time-since-...

Author(s): Richard L. Hutto, David A. Patterson

Type: Document

Book or Chapter or Journal Article