

SAGE GROUSE

QUARTERLY REPORT

Contract No. 146311

June 2019



Stag Consulting

SAGE GROUSE

———— QUARTERLY REPORT ————

Contract No. 146311

June 2019

Stag Consulting

CONTENTS

1 STAG CONSULTING EFFORTS

2 Introduction

7 Legal Strategies

8 Background

10 Progress & Results

11 Utah's Plan

16 Potential Threat Overview

17 Utah Conservation Strategies

90 Educating Members of Congress

91 Progress & Results

98 Federal Government Agrees that Sage-grouse
are not Threatened or Endangered

101 New BLM & Forest Service Land-Use Plans

110 Broad-Based Congressional Support

119 Committee on Natural Resources
Oversight Hearing

133 Consolidated Appropriations Act of 2018

137 Sage Grouse and NDAA

143 Sage Grouse Language Removed from NDAA

145 Sage-Grouse and Mule Deer Conservation
and Restoration Act

155 Administrative Strategies

156 Secretarial Order 3353

157 BLM Instruction Memorandums

160 BLM Plan Amendments

182 USFS Sage-grouse Plan Amendments

184 USFS Draft EIS and Public Comment Period

186 BLM Publishes Final EIS For Plan Amendments



192	BLM Publishes Records of Decision on Plan Amendments
196	Lawsuit Filed Against the BLM's Sage-grouse Amendments
199	Engaging the Public in the Process
200	Coordinated Consulting Team Outreach
206	Why Activists Use the ESA to push Greater Federal Unilateralism
213	Federal Agencies Increase Restrictions
218	Could Federal Plans be used to Decrease Mule Deer Populations?
220	Could Federal Plans be Used to Undermine the Rights of Sportsmen?
223	Progress and Results
227	Conclusion

APPENDIX

EXHIBIT A

US Bureau of Land Management Instruction Memorandum NO. 2016-143

EXHIBIT B

S.C.R. 3 Concurrent resolution urging congress to support implementation of Utah's Sage-grouse Conservation Plan

EXHIBIT C

Conifer Removal Boosts SageGrouse Success
Sage Grouse Initiative, www.sagegrouseinitiative.com

EXHIBIT D

Section 2862 of National Defense Authorization Act

EXHIBIT E

Sage-grouse Dear Colleague Letter

EXHIBIT F

Sportsman letter sporting state management of Sage-grouse

EXHIBIT G

Legal Memo: Impact of Federal Sage-grouse management on big game populations

EXHIBIT H

Secretarial Order 3533 June 16, 2017

EXHIBIT I

Secretarial Memo August 4, 2017

EXHIBIT J

Contract Budget Expenditures



STAG CONSULTING EFFORTS

INTRODUCTION

This report is provided in compliance with state of Utah Contract 146311. The contract requires Stag Consulting to provide “written progress reports to the Department of Natural Resources and to the Natural Resources, Agriculture, and Environment Interim Committee.” This report provides an overview of the progress and results for the contract period that covers October 1, 2018 to December 31, 2018 and of progress during the 2017-2018 contract year. This report is provided in addition to quarterly progress reports previously submitted that relate to the Sage-grouse Coordinated Consulting Team’s efforts, which are incorporated herein.

Over the past 10 years there has been significant progress in the state of Utah addressing the needs of Greater Sage-grouse. Utah’s Watershed Restoration Initiative is significantly reducing the severity and acreage impacted by wildfire within Utah’s SGMAs. From 1999-2007, wildfires within the state of Utah burned 628,663 acres within Utah’s SGMAs. This amounts to 8.7% of the acreage within Utah’s SGMAs during the 9-year period. From 2008-2016 significant expenditures through Utah’s Watershed Restoration Initiative have resulted in on-the-ground conservation expenditures on behalf of Sage-grouse.

The impact on wildfire from these conservation efforts has been immediate and dramatic, from 2008-2016, wildfires burned 114,111 acres within Utah’s SGMAs. This is an improvement of 82% since 2008 and amounts to 1.5% of the acreage within Utah’s SGMAs impacted by wildfire from 2008-2016. Just as importantly, this means that 514,552 fewer acres were impacted by wildfire in the last 9 years compared to the previous 9-year period (1999-2007). These efforts have resulted in fewer acres impacted by wildfire, less fragmentation from pinyon/juniper encroachment, and hundreds of thousands of fewer acres of cheat grass dominance. This is one more way that Utah’s plan is addressing the most important needs of Sage-grouse in the state of Utah.

As a result of Utah’s conservation efforts, in September 2015 the Obama Administration agreed Sage-grouse were “not warranted” for listing under the Endangered Species Act. The announcement represented major progress. As recently as 2010, the Obama Administration had announced Sage-grouse were warranted for listing, despite being precluded by higher listing priorities. Secretary Jewel indicated that the decision would “...give states, businesses and communities the certainty they need to plan for sustainable economic development.”





Avoiding a listing of Sage-grouse was an important first step in the Greater Sage-grouse Coordinated Consulting Team's efforts. However, significant challenges remained. As part of this process, substantial pressure was brought by the U.S. Fish and Wildlife Service and Bureau of Land Management to implement new land use plans through the amendment process. These plans comprise 2,000 pages of new restrictions. Many federal officials issued direct warnings about the impact of these new plans on economic activity and the ability of Utahns to use working landscapes and public lands in the state.

A detailed analysis of these plans shows they will have significant impact on the state of Utah. Analysis of the federal Sage-grouse record demonstrate the plans have a significant likelihood of reducing mule deer populations, hunter access, and undermining state management of over 100,000,000 acres of prime big game and upland game hunting across the West. The federal management plans also contemplated extreme criteria for livestock grazing, mining, and other productive uses of public lands. They included significant restrictions which impacted oil and gas development on "priority" Sage-grouse habitat, but also provided federal regulators significant flexibility to restrict responsible use of "general" habitat.

On June 8, 2017, Interior Secretary Ryan Zinke signed Secretarial Order 3353 to address serious concerns of Bureau of Land Management and Forest Service records of decision in the name of Sage-grouse. The secretarial order specifically ordered a review of federal plans to ensure conservation plans are implemented in ways that do not impede local economic opportunities and established an internal review team to evaluate federal and state Sage-grouse plans to ensure they are complementary and consistent with local economic growth and job creation.

On August 4, 2017 Secretary Zinke released a memo that detailed the Sage Grouse Plan Review Team's initial findings and recommendations and ordered the Department of the Interior and its agencies to look for ways to implement the recommendations. The team's recommendations were a step in the right direction in reducing the onerous requirements of the BLM and US Forest Service's plans and will lead to better coordination between the Federal and State Sage-grouse Management Plans.

On October 25, 2017 the U.S. House of Representatives Committee on Natural Resources held an Oversight Hearing to hear from representatives of Utah, Idaho, Nevada and Montana on the adverse effects of the 2015 GRSG management plans. The hearing signaled another step toward a legislative action to protect state management plans.

On December 27, 2017 the BLM issued six Instruction Memorandums (IMs) in direct response to Order 3353 and the resulting Sage Grouse Plan Review Team's recommendations. These memorandums addressed key concerns identified in the August 4th memo, including: revisions for oil and gas leasing, review and processing of grazing authorizations, evaluating greater sage-grouse land use plans and hard and soft triggers, and incorporating thresholds into grazing permits and leases and expediting habitat assessments and associated land-use.

On January 30, 2018 six senators from Western states affected by the Federal Sage-grouse management plans sent a letter to Senator Thad Cochran, Chairman of the Appropriations Committee asking for Section 273 (which became Section 120) which prohibited the use of funds appropriated for the remainder of the 2018 fiscal year on Sage-grouse listing efforts to be included in the bill.

On March 22, 2018 the Consolidated Appropriations Act of 2018 was passed and signed into law by President Trump which included the section restricting use of funds for Sage-grouse listing efforts, despite fierce opposition from Democrats. This is representative of the considerable progress that was made in efforts to return control of Sage-grouse management to the state level.

On May 4, 2018, amendments to the 2015 BLM plans and the corresponding Draft Environmental Impact Statements (EISs) were published to further address the issues identified in the review resulting from Secretarial Order 3353. These amendments continue to bring the Department of Interior's Sage-grouse Management in line with state management plans.

On May 24, 2018 the National Defense Authorization Act was passed by a vote of 351 to 66. Included in the bill is section 314, entitled State Management and Conservation of Species which includes language protecting state management of Sage grouse for a period of 10 years. The language offered by Congressman Rob Bishop (R-Utah) was approved and incorporated in the bill during the House Armed Services Committee Hearing.



On August 18, 2018 the National Defense Authorization Act became law. However Congressman Bishop's Sage-grouse language was not included in the final bill. Despite opposition to the inclusion of the language in the conference bill, the Administration, the Department of Interior, and the Department of Defense all recognized the effects Sage-grouse restrictions could have on military readiness and remained supportive of the Bishop language.

In October 2018, the U.S. Forest Service (the second largest public land holder in Utah, after the BLM), announced its intent to amend its Sage-grouse Management Plan to fall in line with the recent amendments the BLM has made to its plans as a result of Secretarial Order 3353. The announced amendments will bring the USFS plans in closer alignment with State management plans. The USFS held a public comment period as part of the amendment process. The comments were summarized in a document released in September. The majority of the comments from Utahns were in favor of the efforts the State and the DOI have made to remove onerous restrictions from the Obama era GRSG Management Plans.

On October 5, 2018 the US Forest Service published its Draft Greater Sage-grouse Proposed Land Management Plan Amendments and Draft Environmental Impact Statement for the Intermountain and Rocky Mountain Regions. Amongst other changes, the DEIS calls for removing Sage brush Focal Areas and focusing conservation on Priority Sage-grouse Habitat. Utah's priority sage grouse habitat is protected by the state Sage Grouse Management Areas (SGMAs), which cover 7.4 million acres and protect 94% of the state's Sage-grouse. This will provide protections for Utah's best Sage grouse habitats, the vast majority of birds, while also allowing economic activity in areas outside of SGMAs which were previously unnecessarily restricted by the 2015 Management plans.

On December 6, 2018 The Bureau of Land Management published final Environmental Impact Statements for updated Sage-grouse management plans. These plans ensure responsible management of Sage-grouse and their habitats, while also protecting access for sportsmen to tens of millions of acres of public lands across 11 western states.

On December 12, 2018 Congress passed the 2019 Farm Bill, which included legislation sponsored by Representative Chris Stewart, R-Utah, HR 3543 The Sage-grouse and Mule Deer Conservation and Restoration Act. The legislation removes bureaucratic red tape and provides the tools that allow land managers and conservation organizations to work together more easily and quickly on vegetation management projects in sensitive Sage-grouse habitat areas.





The public comment period for the US Forest Service Draft Sage-grouse Land Management Plan Amendments and the DEIS closed on January 3, 2019. About 28,000 comments were received, with the majority of them being duplicates. There were about 600 unique letters. A summary of the comments was published in February 2019. U.S. Forest Service Sage-Grouse Bulletin #10 states that final ROD(s) will be signed as early as July or as late as September 2019.

On March 15, 2019 the BLM issued signed Records of Decision (RODs) for the Final Environmental Impact Statements (FEISs)/Proposed Resource Management Plan Amendments (PRMPAs) that were published in December 2018. The BLM was able to resolve protests and responded to governors consistency reviews prior to issuing the RODs.

With the amended plans in place, the State of Utah has the ability to work closely with the BLM to implement the state Sage-grouse Management Plan along side the BLM and the federal management plans. At this point the Greater Sage-grouse Coordinated Consulting Team considers this a successful outcome of the years of efforts. The State has the ability to manage and protect its Sage-grouse population, while also balancing the need for economic development and outdoor activities in and around Sage-grouse habitat.

Once the final plans were put in place, a lawsuit was filed in U.S. District Court in Boise, Idaho to block the amended plans by environmental activists on March 27, 2019. The same groups had previously sued in 2015 when the Obama Administration's initial plans were approved because they felt the plans didn't provide enough protection for the Sage-grouse. On April 29, 2019, both the State of Utah and the State of Idaho sought to intervene on the side of the federal government. It is imperative that both the states and the federal government continue to address these lawsuits to protect the state and federal Sage-grouse management plans and ensure they can be implemented.

Greater Sage-grouse Coordinated Consulting Team's Work

The Sage-grouse Coordinated Consulting Team has expended significant efforts during the past 10 years toward the following contractual purposes:

Legal Strategies

Educating Members of Congress

Administrative Strategies

Engaging the Public in the Process

LEGAL STRATEGIES



As with many species, the legal and administrative history of Greater Sage-grouse and efforts to force an Endangered Species Act listing is long, convoluted, and full of controversy. The push to list Sage-grouse as an endangered species began over 31 years ago. Understanding the reasons for which an ESA listing has been proposed is helpful to understand the legal strategies the Sage-grouse Coordinated Consulting Team utilized to protect the interests of the State of Utah.

BACKGROUND

Greater Sage-grouse as a Candidate Species

Greater Sage-grouse were first proposed as a potential candidate for study pursuant to the Endangered Species Act on September 18, 1985. At that time, it was suggested that a potential western subspecies of Greater Sage-grouse should be included as a “category 2” research candidate for listing consideration on the Endangered Species List (50 FR37958). Subsequently, it was questioned whether western and eastern variations of the Greater Sage-grouse justified a subspecies separation. In 1996, use of the “category 2” designation of species for listing consideration under the Act was discontinued (61 FR 7596), effectively removing Greater Sage-grouse as a candidate species for listing consideration.

Repeated Petitions to List Greater Sage-grouse

However, this was just the beginning of efforts to force the U.S. Fish and Wildlife Service to list the Greater Sage-grouse. From 1999 to 2003, eight petitions to list the Greater Sage-grouse as an endangered or threatened species were filed. Three of these petitions to list pertained to Greater Sage-grouse in Utah, as these petitions requested listing of the Greater Sage-grouse range-wide. On January 12, 2005 the Service announced a 12-month finding that listing of Greater Sage-grouse was not warranted, consolidating its findings on the three range-wide petitions (70 FR 2243).

Lawsuit Challenging the “Not Warranted” Decision

On July 14, 2005, plaintiff Western Watersheds Project filed a complaint in a federal district court challenging the Service’s 2005, 12-month finding as “arbitrary and capricious.” On December 4, 2007, the U.S. District Court of Idaho ruled in favor of the plaintiff and remanded the listing decision to the Service for reconsideration. On January 30, 2008, the court approved a stipulated agreement between the Department of Justice and the plaintiff, Western Watershed Project.

New Decisions “Warranted but Precluded”

The U.S. Fish and Wildlife Service published a new listing decision for Greater Sage-grouse on March 23, 2010. The Service’s new findings concluded that a listing of Greater Sage-grouse was “warranted but precluded,” designating the bird as a candidate species under the Endangered Species Act. As a candidate species, the bird remained under state management authority while listing determinations for species of higher conservation priority were conducted. The published finding identified primary threats to Sage-grouse as habitat destruction and/or modification. A significant focus of the “warranted but precluded” decision was whether regulatory mechanisms were adequate to protect Sage-grouse and their habitats.



Mega-Petitions to List 1,230 Species Filed

From 2007 to 2011 petitions to list hundreds of species on the Endangered Species List were filed. In fact, these “mega-petitions” proposed listing 1,230 species nationwide. These petitions included 207 species in the Mountain-Prairie Region and 475 species in the Southwest Region. Considering that U.S. Fish and Wildlife Service averaged only twenty petitions per year from 1994 to 2006, the filing of petitions to list 1,230 species during this period was truly unprecedented. In fact, a single special interest group filed petitions to list over 700 species in a four-year period.

Lawsuits filed to Challenge the “Warranted but Precluded”

Petitioners pushing these “mega-petitions” also filed dozens of lawsuits in an attempt to force endangered species listing of many of these species. Among these lawsuits were challenges to the “warranted but precluded” determination on Greater Sage-grouse. “Warranted but precluded” findings must demonstrate: (1) there are higher priority proposed rules that preclude the Service from issuing a proposed rule at the time of the finding; and (2) expeditious progress is being made to add qualified species to the list.

Multi-District Litigation Settlement and September 2015 Deadline for New Decision

On May 10, 2011 a Multi-District Litigation (MDL) Settlement was announced between the Obama

Administration and the private plaintiff organizations. The settlement resulted in legally mandated deadline for 251 candidate species. The specific deadline for a decision on Greater Sage-grouse under this agreement was September 2015. Several third parties attempted, unsuccessfully, to challenge the MDL settlement in court.

Causative Factors in “Warranted but Precluded” Listing

It is important to point out that the 2010 finding of “warranted but precluded” was based on two factors: (1) the present or threatened destruction, modification, or curtailment of habitat or range of Greater Sage-grouse; and (2) the inadequacy of existing regulatory mechanisms.

Threats to Greater Sage-grouse and Sage-grouse habitats identified in the 2010 “warranted but precluded” decision include:

1. *Direct conversion (to agriculture or urbanized land)*
2. *Infrastructure (road and power lines)*
3. *Wildfire and change in wildfire frequency*
4. *Incursion of invasive plants*
5. *Grazing*
6. *Nonrenewable and renewable energy development*

Four of these perceived “threats” pertain to Sage-grouse and their habitats in the state of Utah: (1) Pinyon/juniper encroachment; (2) Wildfire and change in wildfire frequency; (3) Direct conversion through ex-urban development; and (4) Non-renewable energy development.

PROGRESS & RESULTS

Quantified Spatial Legal and Scientific Analysis of Potential “Threats”

The Sage-grouse Coordinated Consulting Team worked closely with the State of Utah and agencies within the state to provide a more complete and transparent understanding of how Utah’s plan is working to ameliorate perceived threats to Greater Sage-grouse and address the needs of birds across the state. This is helpful to:

1. *Provide an enhanced level of understanding of the science and management efforts on behalf of Greater Sage-grouse;*
2. *Increase the reliability of information relative to these efforts and results;*
3. *Demonstrate a level of certainty that Utah’s conservation practices utilize science-based solutions that are proven to work for Greater Sage-grouse; and*
4. *Illustrate how Utah’s investment in conservation of Sage-grouse habitat is addressing other important values in the state of Utah, including watershed restoration, wildfire, invasive species concerns, balancing conservation needs with responsible energy development, and low-density rural development.*

We are grateful for the contributions and efforts of:

Utah Public Lands Coordinating Office
Utah Department of Natural Resources
Utah Division of Wildlife Resources
Utah Division of Forestry Fire and State Lands
Governor’s Office of Economic Development
Utah Division of Oil, Gas & Mining
Governor’s Office of Energy Development
Utah State University
The University of Utah

This was truly a coordinated and collaborative effort to process volumes of information, requiring countless hours and tireless efforts to meet the aggressive deadlines of this project. The years of data accumulation, science, research and extensive subject matter expertise were instrumental in synthesizing these Utah Conservation Strategies documents.

UTAH'S PLAN

On February 14, 2013, the State of Utah adopted an updated Conservation Plan for Greater Sage-grouse in Utah ("Utah's Plan"). Utah's Plan stated goal was "to protect high-quality habitat, enhance impaired habitat, and restored converted habitat to support, in Utah, a portion of the range-wide population of Greater Sage-grouse (*Centrocercus urophasianus*) necessary to eliminate threats to the species and negate the need for the listing of the species under the provisions of the federal Endangered Species Act (ESA)."

The 2013 Utah's Plan was not the first conservation plan for Greater Sage-grouse, but rather built upon previous statewide conservation plans and decades of experience managing Greater Sage-grouse in the state. Utah's Plan also adopts important conservation objectives and measures to ensure long-term conservation success of Greater Sage-grouse, including:

1. Protection of 90% of habitat and 94% of Sage-grouse in Sage-grouse Management Areas (SGMAs).
2. Maintaining an average of 4,100 male Sage-grouse on a minimum of 200 leks (breeding areas).
3. Increasing usable habitat by 50,000 acres per year and improving an average of 25,000 acres of habitat each year.

4. Protecting 10,000 acres of habitat on private and School and Trust Lands (SITLA) lands.

State management of Sage-grouse allows for implementation of common-sense conservation measures that not only protect balanced use of our working landscapes, but also long-term conservation of species like Greater Sage-grouse. These conservation measures are paying dividends for Utah's Sage-grouse populations.

Utah's Sage-grouse populations have been increasing over the last 15 years, with a 40% increase in 2014. Increased population counts were also documented in 2015 and 2016. This demonstrates that Utah's Sage-grouse populations remain resilient and can respond with strong population growth in years with favorable conditions. Additionally, 10-year population averages, which help control for annual population fluctuations, demonstrate that Sage-grouse population growth trend is one of positive long-term growth and stability. In fact, the 10-year rolling average number of males counted on leks shows increasing population trends since the mid-1990's. Utah's Sage-grouse are currently at 101% of its population objective.

Visit <http://wildlife.utah.gov/learn-more/greater-sage-grouse.html> to view a copy of Utah's Conservation Plan and learn about it's successful track record.

Total Sage-grouse Populations #'s Within State Sage-grouse Management Areas 1968-2014

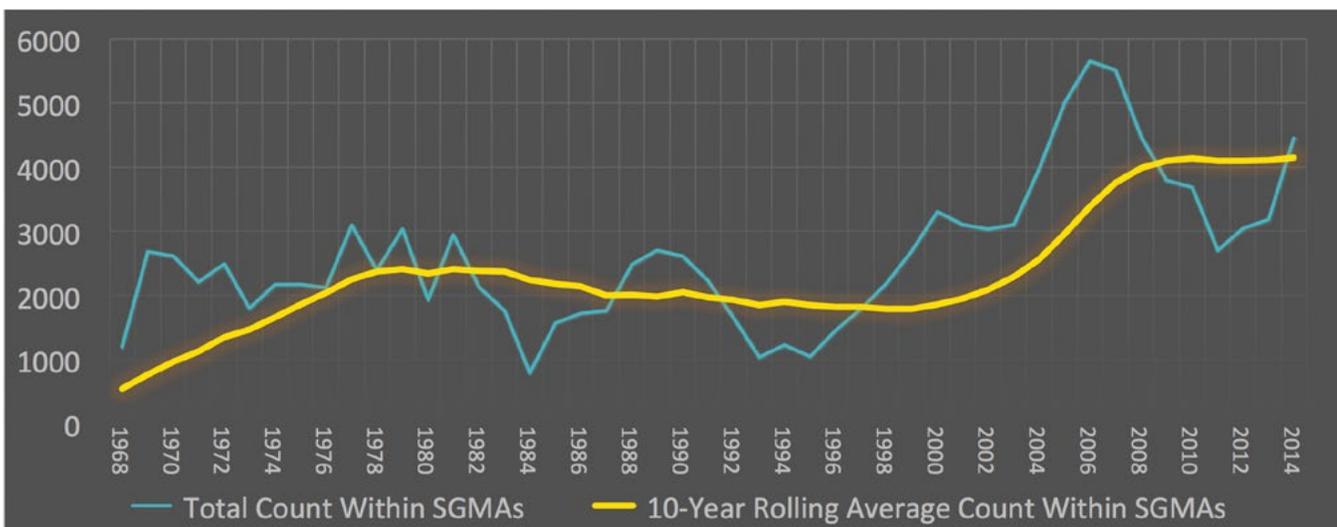


Figure 1. Population growth trends based on 10-year rolling average illustrates the growth of state Sage-grouse populations in Utah.

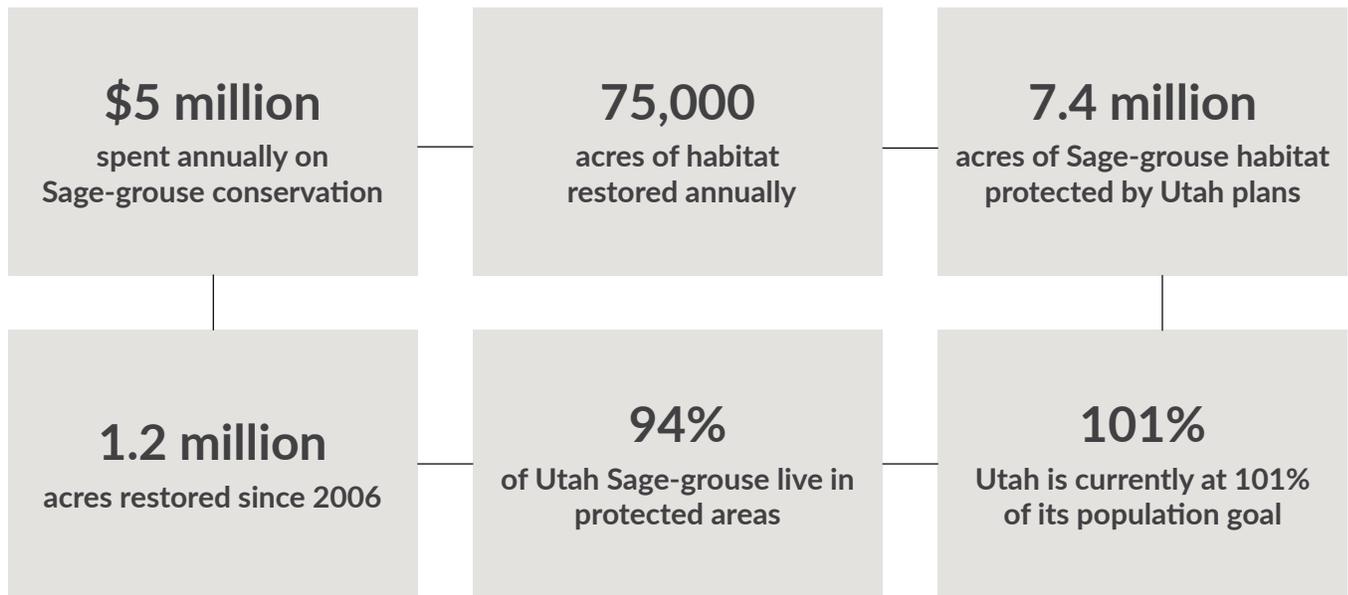


Figure 2. Utah's Plan is based on quantifiable objectives both in on-the ground conservation investment and overall Sage-grouse population numbers.

Reaffirming Utah's Commitment to Long-term Sage-grouse Conservation

During the 2015 Utah Legislative Session, the Utah Legislature passed Senate Concurrent Resolution 3 (SCR 3), reaffirming the state's commitment to long-term Sage-grouse conservation, funding for Utah's plan and requesting Congressional action to provide additional time for implementation of Utah's Plan. For a complete copy of SCR 3 please refer to Exhibit B.

Utah Demonstrating that State and Local Solutions Work

Implementation of Utah's Plan utilizes science-based strategies and proven conservation solutions for Greater Sage-grouse. Utah's adaptive management strategies are vitally important as additional science is developed on Greater Sage-grouse conservation. State management of Sage-grouse under the Utah model provides significant benefits not only to Sage-grouse, but also other critical issues facing Western Landscapes.

Sage-grouse experts acknowledge that Sage-grouse conservation should be possible given the current numbers and distribution of Sage-grouse. Perhaps this is the reason why efforts to force an

Endangered Species Act listing have focused on long-term "threats" to Sage-grouse populations and their habitats.

Utah's conservation strategies focus on the most important threats, mechanisms to augment Sage-grouse populations, and increase the redundancy and resilience of habitat in areas where Sage-grouse populations can grow and thrive. Just as important, these solutions protect the rights and needs of Utahns and bring together diverse stakeholders to invest in on-the-ground Sage-grouse conservation efforts in their own communities.

Utah Conservation Strategies

A complete analysis of Utah's detailed conservation strategies were developed to demonstrate that Utah's Plan works to address the needs to Sage-grouse in the state of Utah. These conservation strategies documents create spatially explicit and detailed quantification of issues identified as potential "threats" as identified in the "warranted but precluded" decision by U.S. Fish and Wildlife Service. These "Utah Sage-grouse Conservation Strategies" (or "Utah Conservation Strategies") provide a more complete understanding of the scope and nature of each threat and a meaningful level

of certainty for implementation of on-the-ground conservation measures.

This project challenged many of our assumptions about threats, where they occurred and the degree to which these threats could impact Greater Sage-grouse and their habitats. For example, we found that 77% of habitat within Utah’s SGMAs were not affected by these potential threats.

Just as surprising, we found that conifer encroachment, wildfire, and post wildfire effects were substantially more likely to create long-term impacts to Sage-grouse habitats and populations than oil and gas development and low density rural development within the 7.5 million acres comprising Utah’s SGMAs. Most striking was the fact that over 95% of these birds live in areas that are virtually free of any of these threats. This strongly suggests that populations of birds are not only stable and free from threats, but inherently select habitat areas not naturally affected by wildfire, conifer

encroachment, and invasive plant species. Utah’s conservation strategies are more than sufficient to not only protect these habitats, but also increase the total usable habitat in areas where the grouse populations can continue to grow and thrive.

The most important threats to Sage-grouse in Utah’s Sage-grouse Management Areas are wildfire, pinyon/juniper encroachment, and post-wildfire effects. In fact, these challenges account for 97% of impacts to Sage-grouse habitat in Utah’s SGMAs. Addressing these threats requires significant investment in on-the-ground conservation efforts. Utah’s Watershed Restoration Initiative has restored and enhanced 661,096 acres of Sage-grouse habitat from 2006-2016. When federal projects are added to this total, total habitat treatments should exceed 750,000 acres during this same period. Hundreds of thousands of acres of current and proposed projects have been completed in in Utah’s SGMAs.



Figure 3. Utah's Watershed Restoration Initiative progress tracking data.

These treatments are part of Utah's commitment to habitat improvement and enhancement for wildlife. In total, Utah's Watershed Restoration Initiative has treated 1,316,963 acres at a cost of \$161,600,906. An additional 258,166 acres of current projects and 162,359 acres of proposed projects brings the total investment in wildlife habitat enhancement and restoration to well over \$225,000,000 dollars in completed, proposed, and current projects. These projects are protecting and restoring watersheds, addressing the threat of catastrophic wildfire, addressing the threat of post-wildfire cheat-grass dominance, and restoring beneficial habitat for Sage-grouse.

On-the-Ground Projects Work for Sage-grouse

Recent studies published by Utah State University are demonstrating that Utah's conservation projects are doing more than protecting the integrity of existing habitat for grouse¹. The research demonstrates that Greater Sage-grouse that nest in sagebrush areas where conifers were removed had increased nest success and brood survival. This is important due to the fact that removal of conifers that have encroached into Sage-grouse habitat is a major conservation program in Utah's Greater Sage-grouse Conservation Strategies. An article by the Natural Resource Conservation Service highlights how pinyon/juniper removal is working to increase habitat and rearing of young chicks. The article explains two separate studies in independent Sage-grouse habitat, one in Oregon and one in Northern Utah, that demonstrate that conifer removal not only increases usable habitat, but that birds almost immediately benefit from and utilize these areas for nesting:

Despite conventional wisdom that female grouse are strongly tied to the same nesting sites every year, sage grouse hens were quick to consider restored habitat nearby, and nested both in and near sagebrush stands cleared of juniper. Within two to four years after juniper cutting, sage grouse moved in to cut areas, and the probability of nesting in and near treated sites increased 22% each year after cutting. After four years, the number of sage grouse nesting in and near the restored areas increased 29% (relative to the control area). Additionally, birds were much

more likely to nest in or near restored sites: for every 0.6 miles from a cut area, the probability of nesting decreased 43%. In short, removing junipers dramatically increased the availability of nesting habitat, and hens proved quite willing to take advantage of good habitat as it became available.

One quote from the article speaks volumes, "The speed at which space-starved birds colonize our sage-brush restorations is remarkable, and their increased performance is the ultimate outcome in science-based conservation," indicates Charles Sanford, former Graduate Student, Utah State University, and current SGI Partner Biologist, Tremonton Utah.

The article also praises Utah's leadership in restoring intact habitats for Sage-grouse:

Utah's Watershed Restoration Initiative has restored another half million acres, and the Bureau of Land Management is now investing heavily in sagebrush habitat restoration across the species' range.

Where conifers invade, grouse appear to be lacking enough quality nesting and brood-rearing habitat. These new studies demonstrate that sage grouse know good nesting habitat when they see it, and collaborative, large-scale sagebrush restoration can benefit sage grouse within a relatively short time.

Another quote from the article explains how the Utah Watershed Initiative has become the model for future of on-the-ground conservation planning across the West. "Most impressive to me is the foresight and planning across state and federal agencies that resulted in these watershed-scale restorations. BLM is now squarely focused on replicating this partner-based model in priority landscapes throughout the West," indicates Steve Small, Division Chief, Fish and Wildlife Conservation, Bureau of Land Management, Washington, D.C. For the full NRCS article on how Utah's Watershed Restoration Initiative and conifer removal efforts are working for Sage-grouse see Exhibit D.

Utah's Plan and Utah's Sage-grouse Conservation Strategies provide a comprehensive model that can work for Sage-grouse and other important conservation needs within the state of Utah. The following sections explain how Utah Conservation Strategies work for Greater Sage-grouse, Greater Sage-grouse habitats, and provide common sense solutions that work for Utah's economy, education funding, and protect the needs of hard working Utahns.

1 Sandford, C., D.K. Dahlgren, and T.A. Messmer. 2015. Sage-grouse nests in an active conifer mastication site. *Prairie Naturalist* 47:115-116.

Sandford, C. M.T. Kohl, T.A. Messmer, D.K. Dahlgren, A. Cook, and B.R. Wing. In Press. Greater Sage-grouse resource selection drives reproductive fitness in conifer removal system. *Rangeland Ecology and Management*.

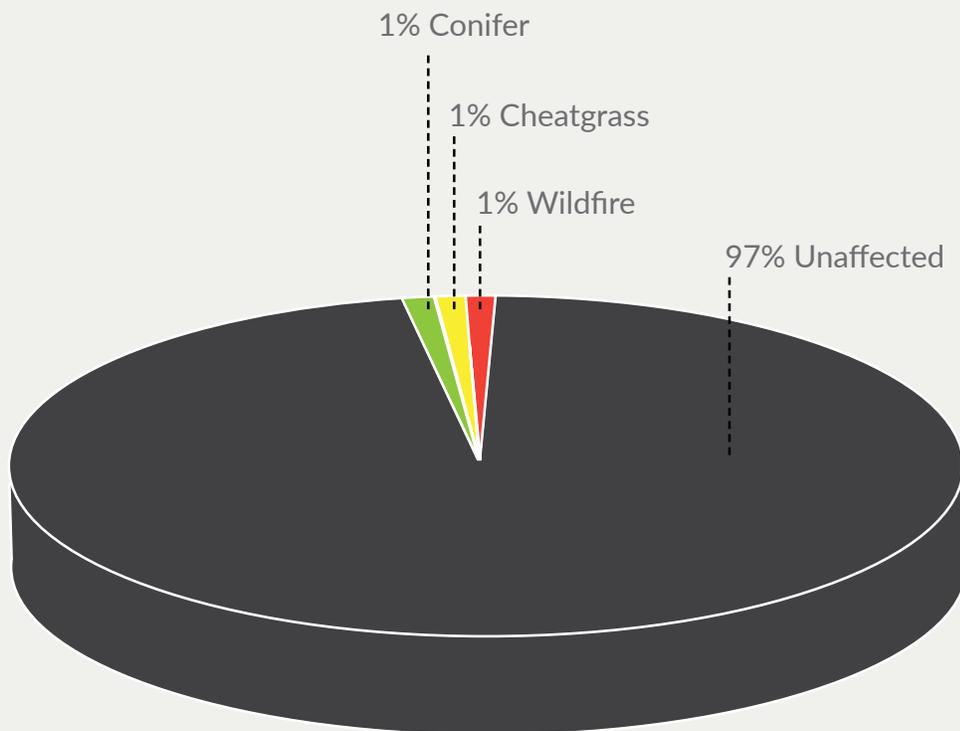
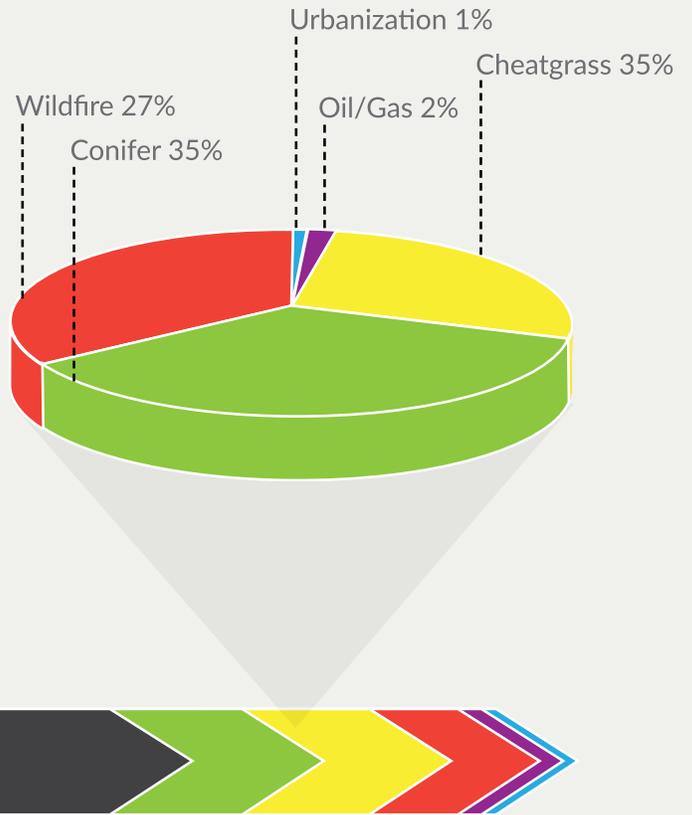


POTENTIAL THREAT OVERVIEW

Most of the Sage-grouse habitat in the state is not impacted by potential "threats." Of areas that are potentially impacted, over 97% are natural causes that are addressed through on the ground implementation of Utah's conservation programs.

1

Figure 4. Quantified Threat Analysis Based on SGMA acreage affected



2

Figure 5. Over 95% of Utah's Sage-grouse reside in areas of best available habitat. These areas correspond with areas which are largely not impacted by conifer encroachment, wildfire or invasive plant species due to the moisture and natural characteristics of the habitat in these areas.

UTAH CONSERVATION STRATEGIES

Pinyon/Juniper Encroachment & Watershed Restoration



Figure 6. Landscape scale conifer removal in the State of Utah is effectively addressing habitat fragmentation and addressing other important concerns in Sage-grouse habitat.

The state of Utah has invested and will continue to invest millions of dollars into enhancing and restoring habitat for Sage-grouse through targeted removal of encroaching pinyon/juniper trees in Sage-grouse habitats. Recent peer-reviewed scientific research demonstrates that removal of pinyon and juniper trees is an important practice for Sage-grouse habitat. The study found that even a small percentage of encroachment by pinyon and juniper trees can lead Greater Sage-grouse to abandon nesting and brood rearing habitats.

Since 2006, Utah has completed conservation projects on over 500,000 acres of Sage-grouse

habitat through Utah's Watershed Restoration Initiative and its partners. The program leads the country in addressing habitat loss from conifer encroachment into Sage-grouse habitats.

For a more complete explanation of the importance of addressing conifer encroachment into Sage-grouse nesting and brood rearing habitat, please refer to the National Sage-grouse Technical Team of the USDA Natural Resource Conservation Service's handout at <http://www.sagegrouseinitiative.com/conifer-removal-restores-Sage-grouse-habitat/>.



PINYON/JUNIPER REMOVAL FOR PROACTIVE HABITAT RESTORATION

Overview: *The State of Utah has invested, and continues to invest, millions of dollars into enhancing and restoring habitat for Sage-grouse through targeted removal of conifers. Recent peer-reviewed scientific research demonstrates that conifer removal is an important conservation practice for Sage-grouse. The study found that even a small percentage of encroachment by pinyon and juniper trees can lead Greater Sage-grouse to abandon a nesting/brood-rearing area. Since 2006, Utah and its partners have completed conservation projects on more than 560,000 acres of Sage-grouse habitat through Utah's Watershed Restoration Initiative. This program leads the country in addressing habitat loss from conifer encroachment.*



The Importance of Restoring Sage-Grouse Habitat

Conifer encroachment, primarily of pinyon and juniper species, is an area of emphasis in conservation planning within the state of Utah and other Western states. There is a good reason why this is so important. Pinyon and juniper trees have expanded into hundreds of thousands of acres of Utah Sage-grouse habitat in the last 150 years. One estimate suggests this may be an increase of 300-400% from pre-settlement landscapes (Tausch and Hood 2007).

Currently, there is sufficient habitat to support healthy Sage-grouse populations. However, the

U.S. Fish and Wildlife Service has identified habitat fragmentation and wildfire as two of the primary threats that may support a listing of Sage-grouse under the Endangered Species Act. Conifer encroachment accelerates habitat fragmentation and increases the likelihood of catastrophic wildfires. To address these challenges, the state of Utah has developed a comprehensive science-based strategy to remove pinyon and juniper trees that are beginning to encroach into existing Sage-grouse habitat. Utah's plans also have a more ambitious goal: to increase the amount of suitable habitat and the quality of that habitat within each of the state's Sage-Grouse Management Areas (SGMAs).



Figure 1 - Biologists work with landowners to implement conifer removal on private property. This program not only helps Sage-grouse populations, it can improve desirability of habitat for grazing.

How Conifer Woodlands Impact Greater Sage-Grouse

To develop comprehensive strategies and implement conifer removal projects in ways that ensure maximum benefit for Greater Sage-grouse, it is important to understand how conifers impact Sage-grouse populations. Pinyon/juniper encroachment hurts Sage-grouse and Sage-grouse habitats in four fundamental ways:

1. Creating an inhospitable environment for Sage-grouse populations;
2. Crowding out sagebrush, grasses and forbs;
3. Increasing the frequency and severity of wildfires; and
4. Altering landscapes in other ways that diminish the value of habitat for Sage-grouse.

A recent study conducted by The Nature Conservancy, University of Idaho and Natural Resources Conservation Service (NRCS) Sage-Grouse Initiative demonstrates that Sage-grouse may avoid areas of even low-density conifer encroachment.

The study found that Sage-grouse leks were not active in areas where conifers covered more than

4% of the land area (Figure 2). The study also demonstrated that Sage-grouse will avoid even small trees widely scattered across a landscape. While the early encroachment stands had less of an impact on understory vegetation than higher-density conifer stands, these areas still did not contain active Sage-grouse leks.

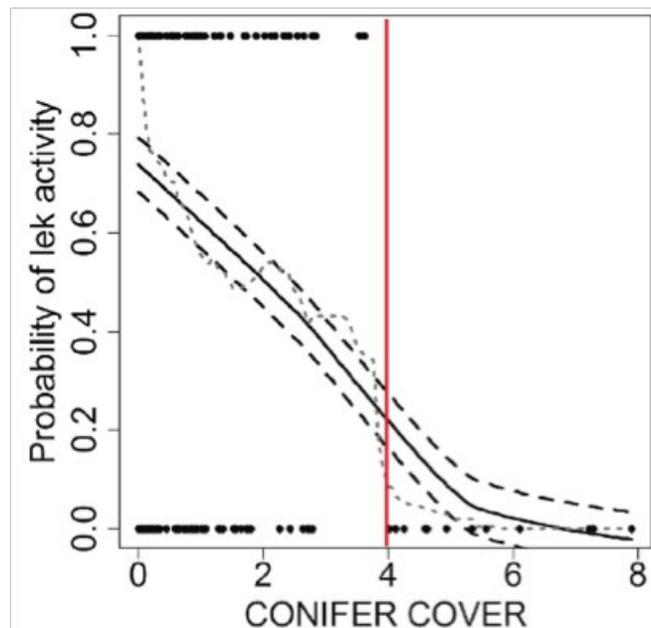


Figure 2 - Recent research underscores the importance of using science-based solutions and proven methodologies in planning and implementing conifer treatment programs.

UTAH SAGE-GROUSE CONSERVATION STRATEGIES

Conifers also affect Sage-grouse in other ways. Jeremy Maestas from the NRCS Sage-Grouse Initiative Technical Team explains how conifers directly impact Sage-grouse habitats, “They act like millions of tiny little straws sucking up what little moisture we get...it eventually dries up the springs and streams that are so critical to this desert environment.” Conifers can also affect soil acidity and compete with understory grasses, forbs and other plants that Sage-grouse rely on for food. Additionally, larger trees can serve as roosts for hawks, ravens, crows and other birds that prey on Sage-grouse eggs and nestlings. Just as important, conifer woodlands also increase fuel loads that can, in turn, dramatically increase the risk of catastrophic wildfire. These wildfires can alter the suitability of Sage-grouse habitat for years.

Not only do conifers increase the risk of wildfire, but the density of conifer stands can increase with the passage of time. Within the next 20 years, the low-density Phase I and Phase II conifer stands may progress toward higher-density Phase III conifer stands (Figure 3). This is a major concern because it is much more expensive and time-consuming to rehabilitate phase III conifer stands and areas burned by catastrophic wildfires than to

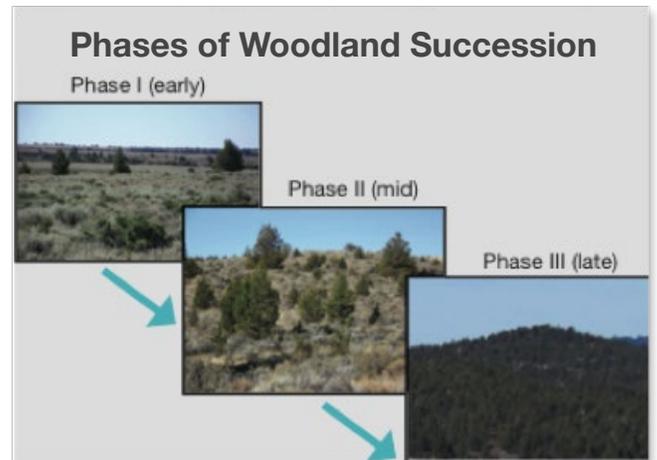


Figure 3 – Progression of conifer stands is an important focus of researchers and land managers.

treat Phase I and Phase II stands. Utah’s Conservation Plan for Greater Sage-Grouse (the Conservation Plan) directs the investment in solutions to address those challenges. In fact, the state of Utah invests millions of dollars to complete up to 75,000 acres of habitat work annually.

Proven Strategies for Conifer Removal

Scientists and other experts use specific criteria to prioritize the treatment of tens of thousands of acres of pinyon/juniper encroachment. These criteria not only ensure proper implementation of



Figure 4 - Lop and scatter projects provide cost-effective long-term treatment for Phase-I conifer encroachment.

UTAH SAGE-GROUSE CONSERVATION STRATEGIES

removal projects, but they also help improve occupation and use of treatment areas by Sage-grouse after projects are completed. Criteria for prioritization include, but are not limited to (1) wildfire frequency and intensity, (2) cheatgrass dominance, (3) Sage-grouse carrying capacity in the SGMA, (4) habitat-restoration capacity, (5) proximity of Sage-grouse populations, (6) seasonal importance of habitat to Sage-grouse, (7) proximity to mesic areas, (8) land ownership, (9) availability of funding for projects, and (10) regulatory obstacles to conservation projects.

State and federal agencies have identified several practical guidelines which dramatically improve the likely success of these treatments:

1. Targeting stands in early stages of encroachment with still intact sagebrush or areas which are important transition corridors;



Figure 5 - Higher-density encroachment areas can be managed by using a brush hog to remove conifers.

2. Removing all conifer trees in an area to reduce conifer cover to less than four percent; and
3. Using treatment methods that maintain sagebrush and understory cover.

This methodology is explained by the NRCS Sage-Grouse Initiative:

“Managers can get the most bang for their buck by focusing conifer removal treatments on early encroachment stands in and around landscapes that are already pretty good for grouse. Prioritizing Phase I stands (those with young scattered trees, <10% conifer canopy cover and intact sagebrush and understory vegetation) for complete removal of conifers will likely prove the most effective for restoring and sustaining habitat. Treating early Phase II stands can also prevent conversion to conifer woodlands and help functionally restore sagebrush habitat for several decades. (Baruch-Mordo et al. 2013).”

Utah’s Investment in Sage-Grouse Habitat

The state of Utah has a track record of investing in conifer removal and successful subsequent use of the treatment area by Sage-grouse. Since the year 2006, the Utah Watershed Restoration Initiative has completed projects on at least 560,000 acres of Sage-grouse habitat (Figure 6). A large percentage of these projects involved pinyon and juniper tree removal. With the scientific data and information gleaned from these efforts, experts in the state of Utah can better assess areas where pinyon and juniper removal will provide the greatest conservation lift.

Through this proactive planning effort the state of Utah systematically identifies areas in each of its SGMAs where conifer woodlands encroach into

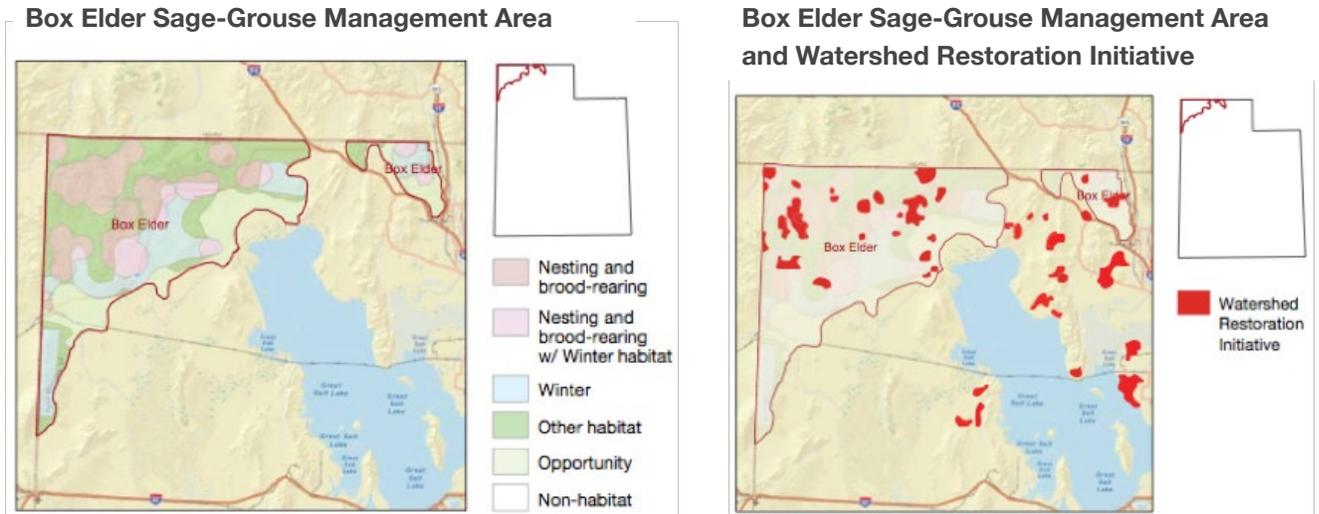


Figure 6 - Understanding Sage-grouse utilization of habitat is a fundamental part of habitat treatment projects within Sage-grouse Management Areas.

Sage-grouse habitat. In the summer of 2014, the state completed extensive fine-scale mapping (Figure 7) of pinyon pine and juniper coverage for all eleven SGMA. This data is used by the Sage-grouse biologists and ecologists who have a working knowledge of the habitats and Sage-grouse utilization patterns of Utah’s SGMA. Using this information, these experts have developed a comprehensive conifer-removal strategy to be completed during the next 15 years. Coordinating with local working groups, the state has completed detailed plans for implementing conifer removal projects for each SGMA.

Utilizing scientifically established benchmarks for successful implementation, ecologists and Sage-grouse experts are targeting removal in areas that will immediately benefit Sage-grouse. These programs identify areas of treatment according to the following criteria:

1. Encroachment Areas: stands of early-phase encroachment in habitats currently occupied and used by Sage-grouse.

2. Tier I Opportunity Areas: Phase I and Phase II conifer stands with healthy understory but with minimal or no use by Sage-grouse. Nearby bird populations are likely to use the post-treatment area.
3. Tier II Opportunity Areas: conifer stands with healthy understory that are adjacent to encroachment areas. These areas are less

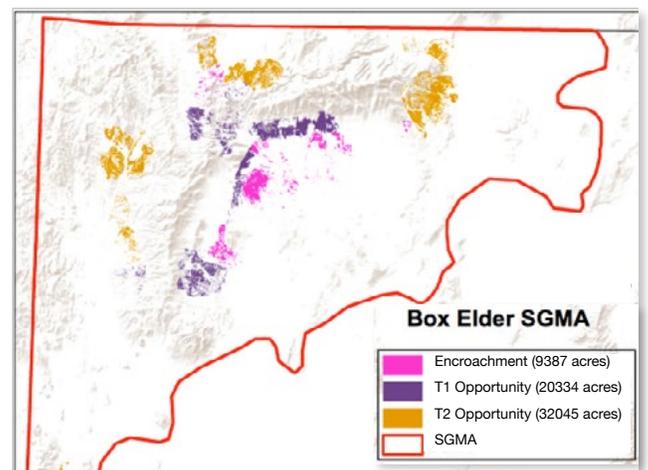


Figure 7 - Implementation of the Conservation Plan proactively protects existing habitat and restores habitats in T1 and T2 opportunity areas not adequately utilized by birds due to pinyon/juniper encroachment.



Figure 8 - Removal of encroaching pinyon/juniper ensures the health of watersheds in sage grouse habitats. This mesic area is an important source of food and moisture during summer brood rearing.

important to short-term strategies but provide longer-term opportunities for habitat restoration and enhancement.

By implementing proven conservation practices in these treatment areas, Utah is not only reducing the threat of fragmentation of Sage-grouse habitat, the state is increasing usable space by eliminating existing conifer stands and expanding and enhancing habitats in areas where sage grouse can thrive. These projects have increased the productivity of habitat for Greater Sage-grouse by improving stream flows, wet-meadows and the quality and quantity of food sources. Research in

the state of Utah demonstrates that pinyon/juniper removal improves utilization rates by Greater Sage-grouse. Conifer removal also helps accomplish other important objectives including improving watersheds, addressing the threat of wildfires and invasive plants, reducing the likelihood of future conifer encroachment, and enhancing the value of habitat for other species.

Detailed Conservation Strategy for Long-Term Success

The Conservation Plan, as part of its identified goals and objectives, calls for the enhancement and improvement of habitat. To accomplish these goals, the state has developed detailed plans to target pinyon/juniper removal in SGMAs. These finalized implementation plans clarify the general

Figure 9 - Projects that restore active corridors can help improve hatchlings survival success. These programs also provide valuable firebreaks and contribute to healthy watersheds.



UTAH SAGE-GROUSE CONSERVATION STRATEGIES

habitat definitions and expectations listed in the Conservation Plan. Habitat areas mapped for the Conservation Plan have been found to contain areas of conifer encroachment that are prime targets for treatment. Additional acreage has been identified for subsequent treatment, labeled Tier I and Tier II Opportunity Areas.

Over the course of the next two years, the state will treat Encroachment Areas totaling 60,139 acres. Tier I Opportunity Areas totaling 100,320 acres will be treated during the next 5 years. Tier II Opportunity Areas totaling 184,811 will be treated during the next 15 years. Cumulatively, these projects will treat nearly 350,000 acres of pinyon/juniper trees. Not only will these projects ameliorate the threats posed by pinyon/juniper encroachment, they will substantially reduce habitat fragmentation. Specifically, they will expand the overall acreage of contiguous suitable Sage-grouse habitat within Utah's SGMAs.

The key to these projects is consistency. "Pinyon and Juniper encroachment happens at a very slow rate over a period of decades. Steady implementation of targeted conifer removal in Sage-grouse habitat is the best mechanism to stop the loss of nesting and breeding acreage and restore habitat where sagebrush remains but

conifers have displaced the Sage-grouse," explains Alan Clark, who oversees key aspects of Utah's Watershed Restoration Initiative. "As a result, we are now removing more acres of conifers in our SGMAs than the encroachment that is occurring, resulting in a net gain in contiguous Greater Sage-grouse habitat." While pinyon/juniper encroachment is not considered a threat in all of the state's SGMAs, projects have been planned for each SGMA to increase usable space for Sage-grouse. The scale of this

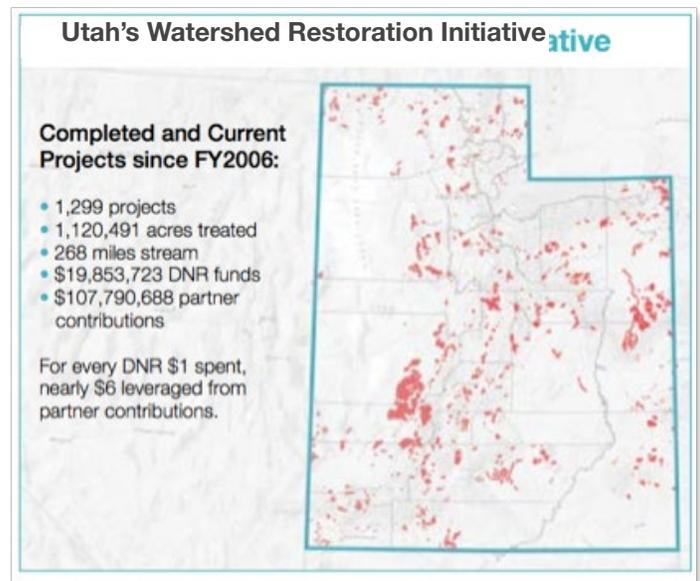


Figure 11 - Utah's Watershed Restoration Initiative is proactively implementing landscape scale habitat improvements for Greater Sage-grouse.

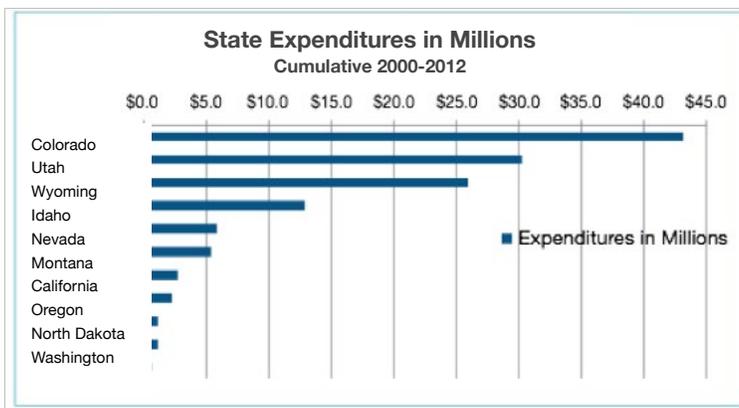


Figure 10 - Utah invests tens of millions of dollars on Sage-grouse conservation efforts.

statewide program is impressive.

Here's the breakdown of Utah's strategic plan for each SGMA:

1. Box Elder	
Past Treatments:	91,185 acres
Encroachment Treatments 0-2 years:	9,387 acres
Tier I Opportunity Treatments 0-5 years:	20,334 acres
Tier II Opportunity Treatments 0-15 years:	<u>32,045 acres</u>
Box Elder Total:	152,951 acres

UTAH SAGE-GROUSE CONSERVATION STRATEGIES

2. Parker Mountain	
Past Treatments:	30,474 acres
Encroachment Treatments 0-2 years:	10,795 acres
Tier I Opportunity Treatments 0-5 years:	8,923 acres
Tier II Opportunity Treatments 0-15 years:	<u>27,760 acres</u>
Parker Mountain Total:	77,952 acres

3. Panguitch	
Past Treatments:	53,086 acres
Encroachment Treatments 0-2 years:	11,995 acres
Tier I Opportunity Treatments 0-5 years:	10,315 acres
Tier II Opportunity Treatments 0-15 years:	<u>27,356 acres</u>
Panguitch Total:	102,752 acres

4. Rich/Morgan/Summit	
Past Treatments:	29,852 acres
Encroachment Treatments 0-2 years:	3,202 acres
Tier I Opportunity Treatments 0-5 years:	20,334 acres
Tier II Opportunity Treatments 0-15 years:	<u>32,045 acres</u>
Rich/Morgan/Summit Total:	85,433 acres

5. Hamlin Valley	
Past Treatments:	9,839 acres
Encroachment Treatments 0-2 years:	8,720 acres
Tier I Opportunity Treatments 0-5 years:	28,246 acres
Tier II Opportunity Treatments 0-15 years:	<u>36,219 acres</u>
Hamlin Valley Total:	83,024 acres

6. Sheep Rock Mountains	
Past Treatments:	22,515 acres
Encroachment Treatments 0-2 years:	7,981 acres
Tier I Opportunity Treatments 0-5 years:	4,341 acres
Tier II Opportunity Treatments 0-15 years:	<u>18,113 acres</u>
Sheep Rock Mountains Total:	52,950 acres

7. Carbon	
Past Treatments:	661 acres
Encroachment Treatments 0-2 years:	4,091 acres
Tier I Opportunity Treatments 0-5 years:	4,203 acres
Tier II Opportunity Treatments 0-15 years:	<u>221 acres</u>
Carbon Total:	9,176 acres

8. Bald Hills	
Past Treatments:	68,799 acres
Encroachment Treatments 0-2 years:	2,577 acres
Tier I Opportunity Treatments 0-5 years:	1,466 acres
Tier II Opportunity Treatments 0-15 years:	<u>4,841 acres</u>
Bald Hills Total:	77,683 acres

9. Uintah	
Past Treatments:	128,153 acres
Encroachment Treatments 0-2 years:	1,063 acres
Tier I Opportunity Treatments 0-5 years:	1,383 acres
Tier II Opportunity Treatments 0-15 years:	<u>2,718 acres</u>
Uintah Total:	133,317 acres

10. Ibapah	
Past Treatments:	7,413 acres
Encroachment Treatments 0-2 years:	139 acres
Tier I Opportunity Treatments 0-5 years:	476 acres
Tier II Opportunity Treatments 0-15 years:	<u>3,266 acres</u>
Ibapah Total:	11,294 acres

11. Strawberry	
Past Treatments:	8,473 acres
Encroachment Treatments 0-2 years:	189 acres
Tier I Opportunity Treatments 0-5 years:	299 acres
Tier II Opportunity Treatments 0-15 years:	<u>227 acres</u>
Strawberry Total:	9,188 acres

Conclusion

Research in Utah is demonstrating that when trees are removed from encroachment and opportunity areas, Sage-grouse can begin to immediately occupy those newly restored areas. “Our research has demonstrated that Sage-grouse may respond quickly to habitats improvements such as pinyon and juniper removal, and will occupy treated areas within one year after treatment. The Utah plan, with its bold objectives to create or enhance 75,000 acres of habitat annually, are designed to increase the state’s habitat base,” explains Terry

Figure 12 - Sage-grouse chick in restoration area.



Mesmer, PhD, a Sage-grouse range biologist who has been studying the birds for more than 20 years. “Our studies are also showing that where we have increased late brood-rearing habitats, both individual bird use and overall population production has increased because of increased chick survival.”

Conifer treatments will be critically important in the next 10-15 years. Approximately 80% of the identified pinyon/juniper occupied areas in the state are categorized as Phase I or II, which

“Our research has demonstrated that Sage-grouse may respond quickly to habitats improvements such as conifer removal, and will occupy treated areas within one year after treatment.”

—TERRY MESMER, PHD SAGE-GROUSE RANGE BIOLOGIST

means these areas still have a healthy understory. These will eventually evolve into Phase III conifer stands without treatment. Utah’s fine-scale mapping of pinyon-juniper encroachment into Sage-grouse core areas is informing a state-wide conservation strategy to address conifer encroachment. With 560,000 acres of Sage-grouse habitat treated since 2006 and an additional 340,000 acres planned in the next 10-15 years, the state of Utah is successfully reducing the threat posed by conifer encroachment into Greater Sage-grouse habitat. These programs also help restore healthy watersheds, address the threat of wildfire, improve working landscapes for multiple uses.

Sources and Additional Reading

Sage Grouse Initiative. 2014. Conifer removal restores sage grouse habitat. Science to Solutions Series Number 2. Sage Grouse Initiative. 4pp. <http://www.sagegrouseinitiative.com/wp-content/uploads/2014/09/Conifer-Encroachment-HIGH-RES-FINAL-091614.pdf>

Baruch-Mordo, S., J.S. Evans, J.P. Severson, D.E. Naugle, J.D. Maestas, J.M. Kiesecker, M.J. Falkowski, C.A. Hagan, and K.P. Reese. 2013. Saving Sage-grouse from the trees: a proactive solution to reducing a key threat to a candidate species. *Biological Conservation* 167:233-241.

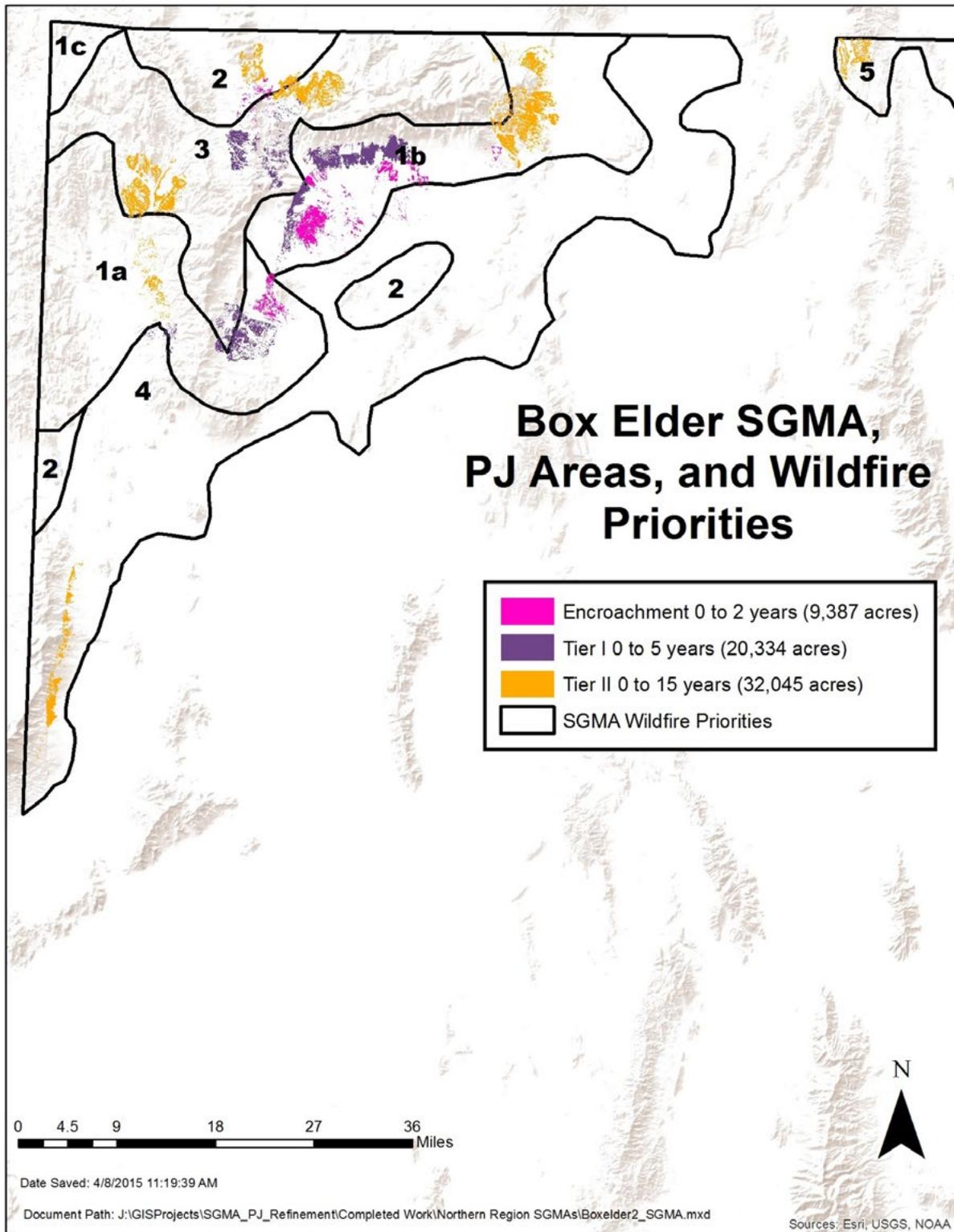
Knick, S., S.E. Hanser, and M. Leu. In press. Ecological scale of bird community response to pinyon-juniper removal. *Rangeland Ecology & Management*.

Miller, R.F., J.D. Bates, T.J. Svejcar, F.B. Pierson, and L.E. Eddleman. 2005. *Biology, Ecology, and Management of Western Juniper*. Oregon State University, Agricultural Experiment Station Technical Bulletin 152.

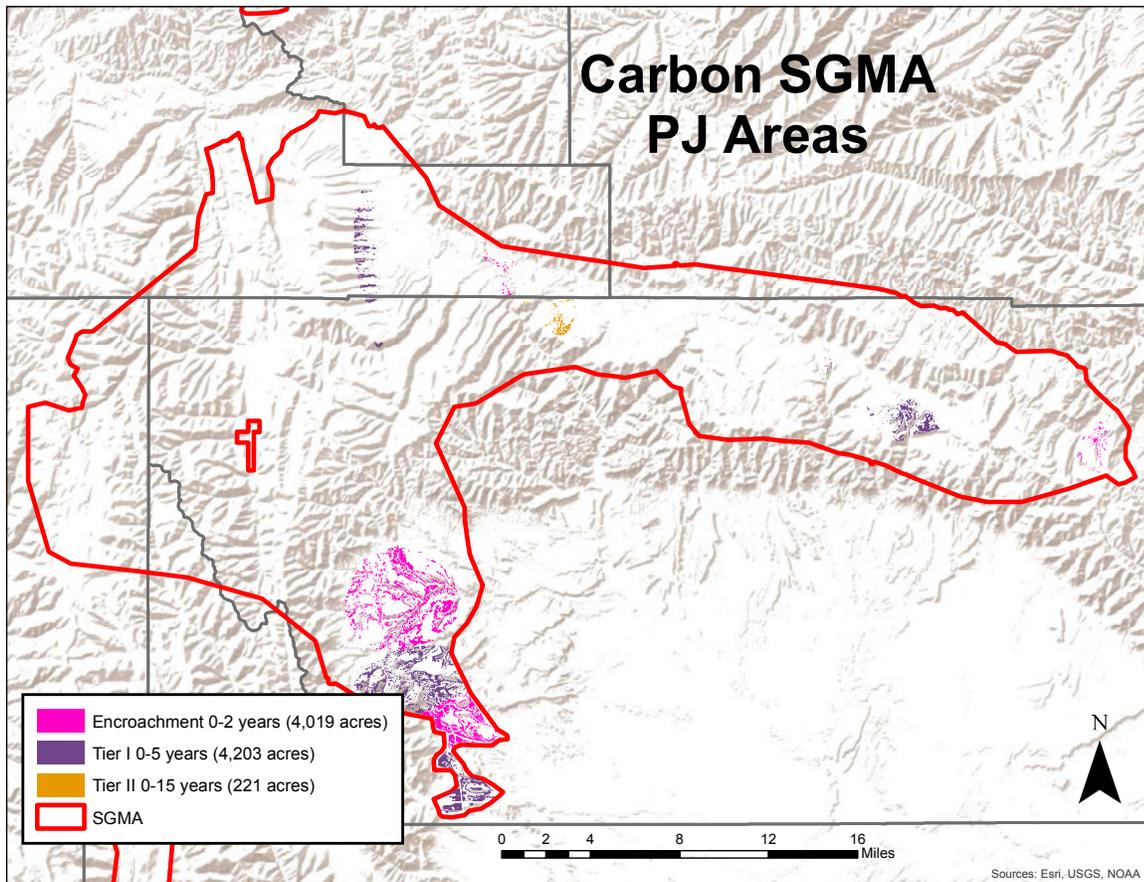
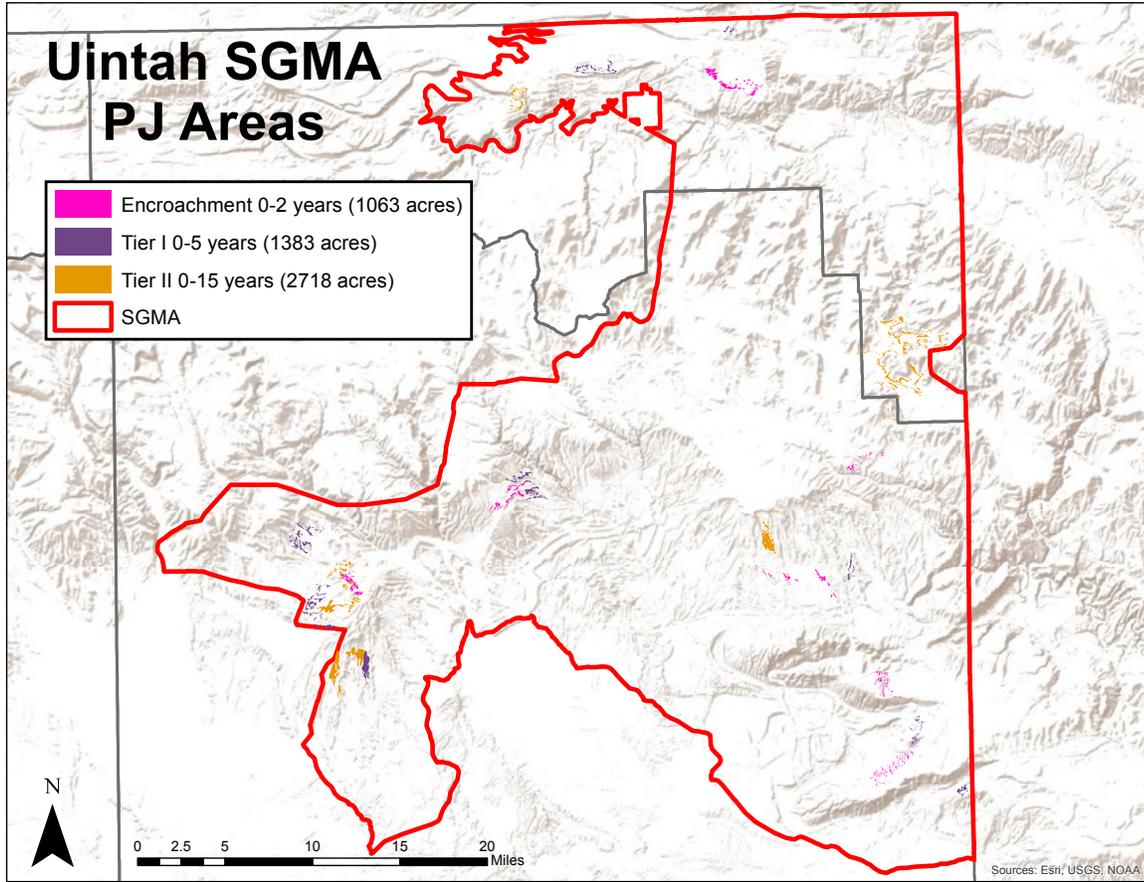
SGL. 2013. Tackling conifer encroachment. Produced by Conservation Media. Sage Grouse Initiative. Video available: <http://www.sagegrouseinitiative.com/news-media/photo-video-gallery/>. Miller, R. F., J. D. Bates, T. J. Svejcar, F. B. Pierson, L. E. Eddleman. 2007. *Western juniper field guide: asking the right questions to select appropriate management actions*. U.S. Geological Survey, Circular 1321.

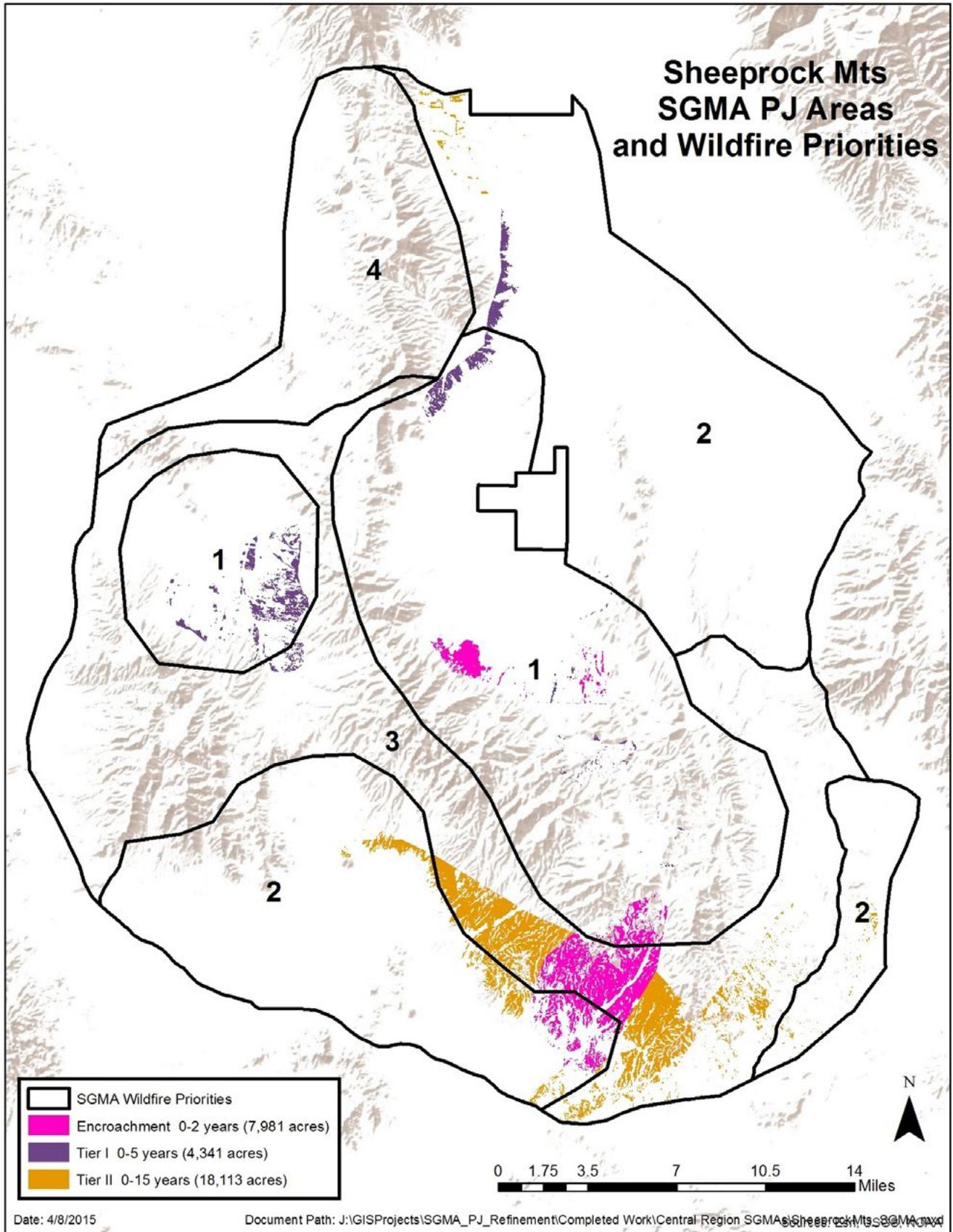
Tausch, Robin J.; Hood, Sharon 2007. Pinyon/juniper woodlands [Chapter 4]. In: Hood, Sharon M.; Miller, Melanie, editors. *Fire ecology and management of the major ecosystems of Southern Utah*. Gen. Tech. Rep. RMRS-GTR-202. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. p. 57-71.

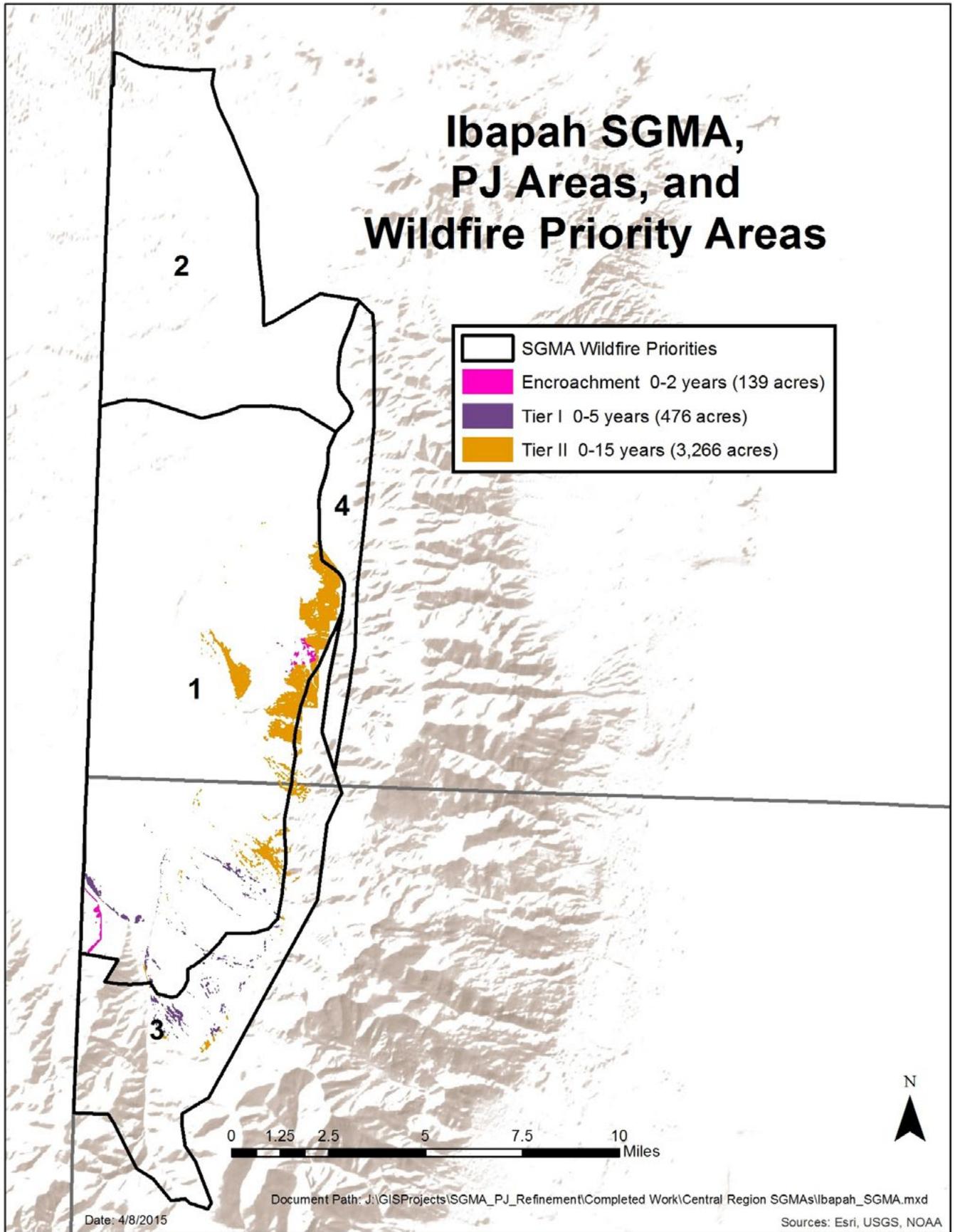
Pinyon Juniper Removal Maps¹

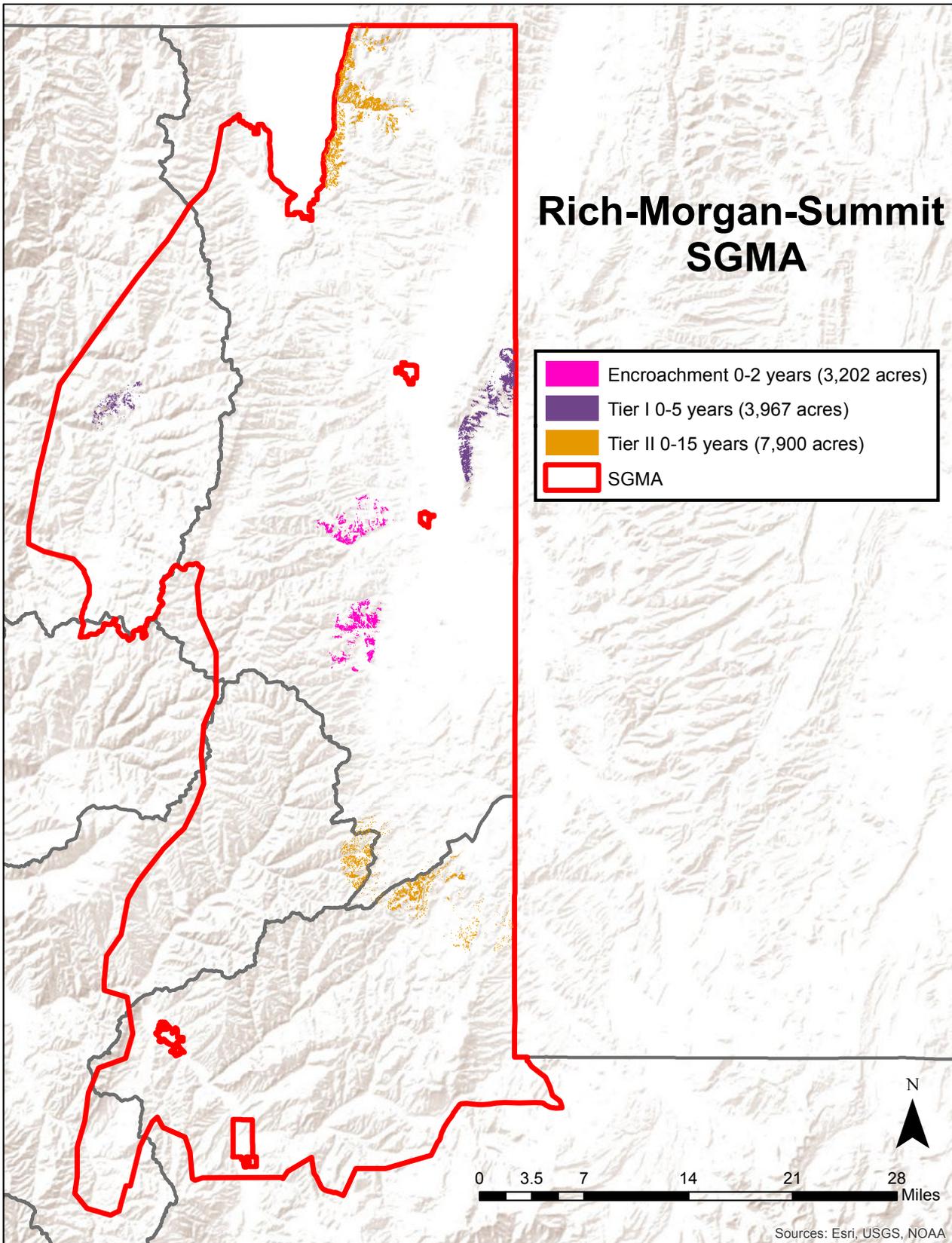


¹ Wildfire Priority Boundaries are provided in connection with maps for Box Elder SGMA, Bald Hills SGMA, Sheeprock Mountains SGMA, Iapah SGMA and Hamlin Valley SGMA. The remaining SGMA do not include priority areas due to the effectiveness of existing wildfire suppression efforts.

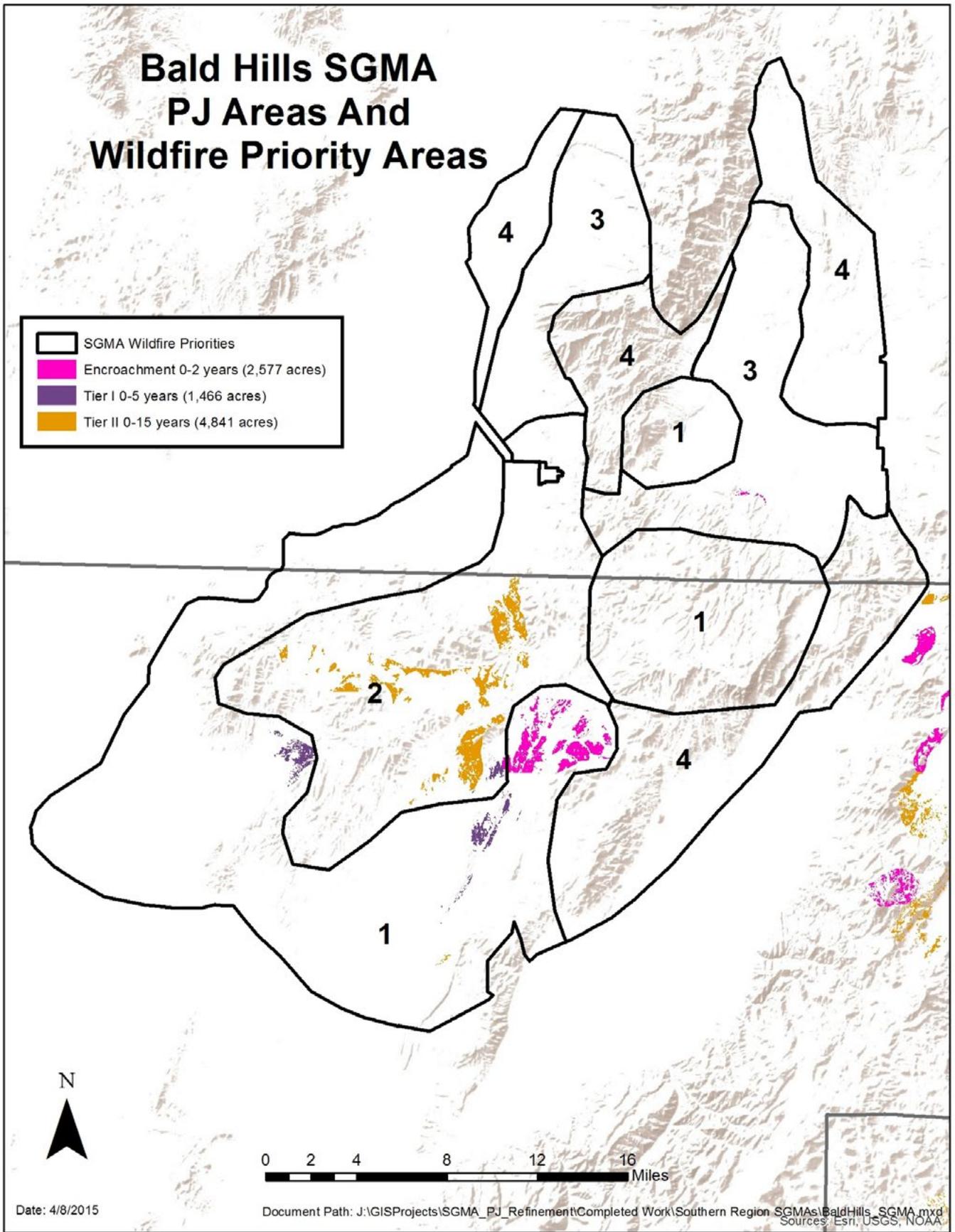


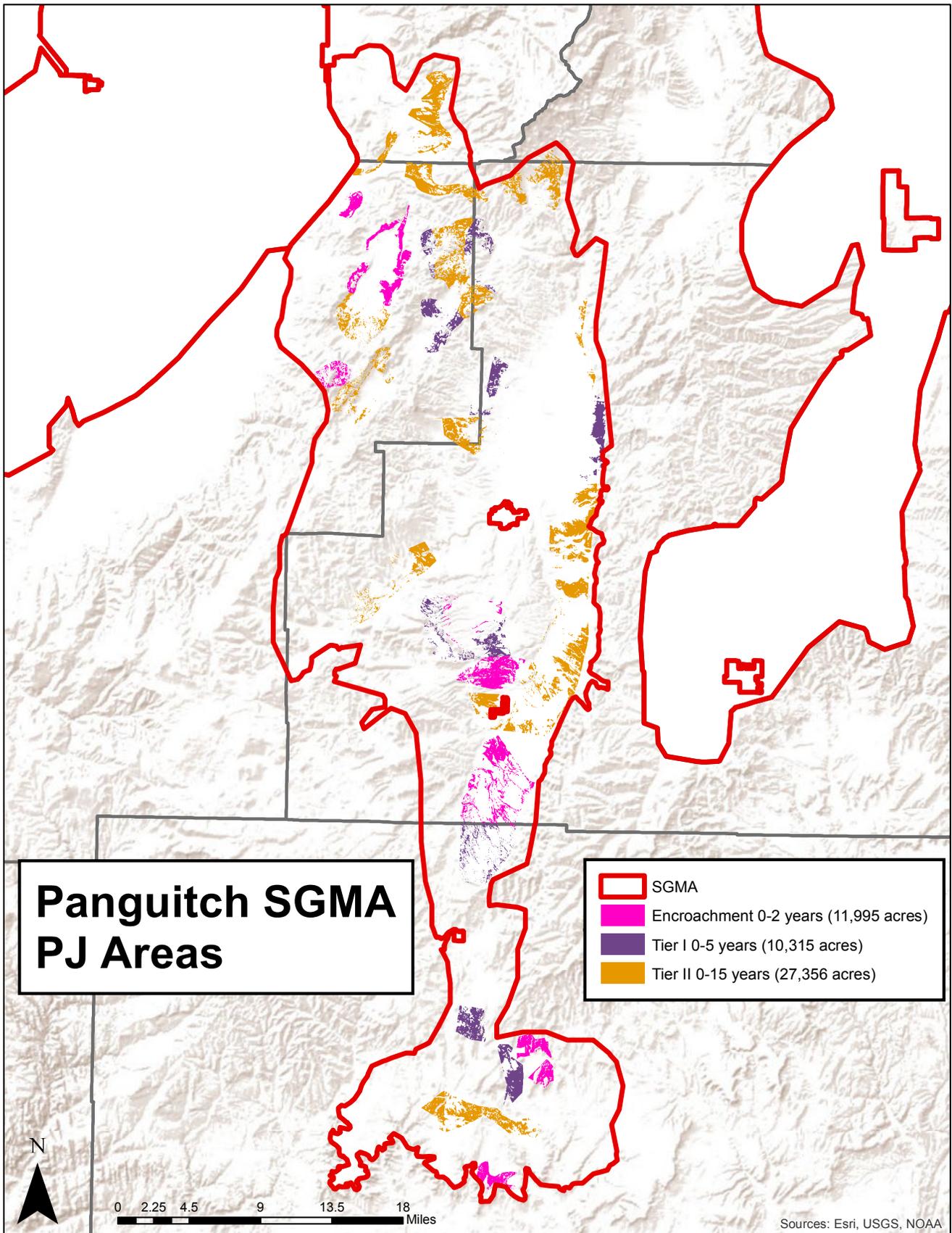


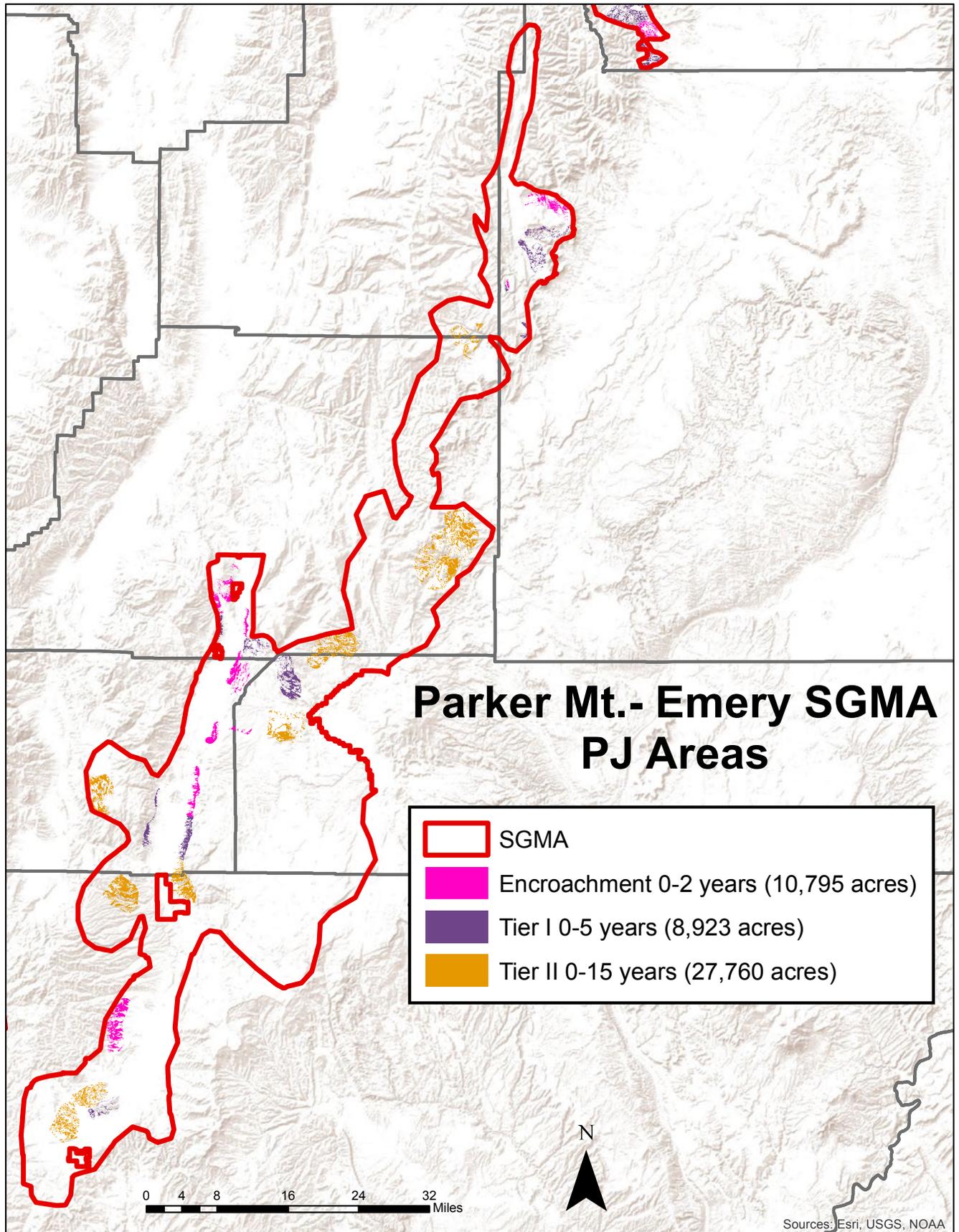


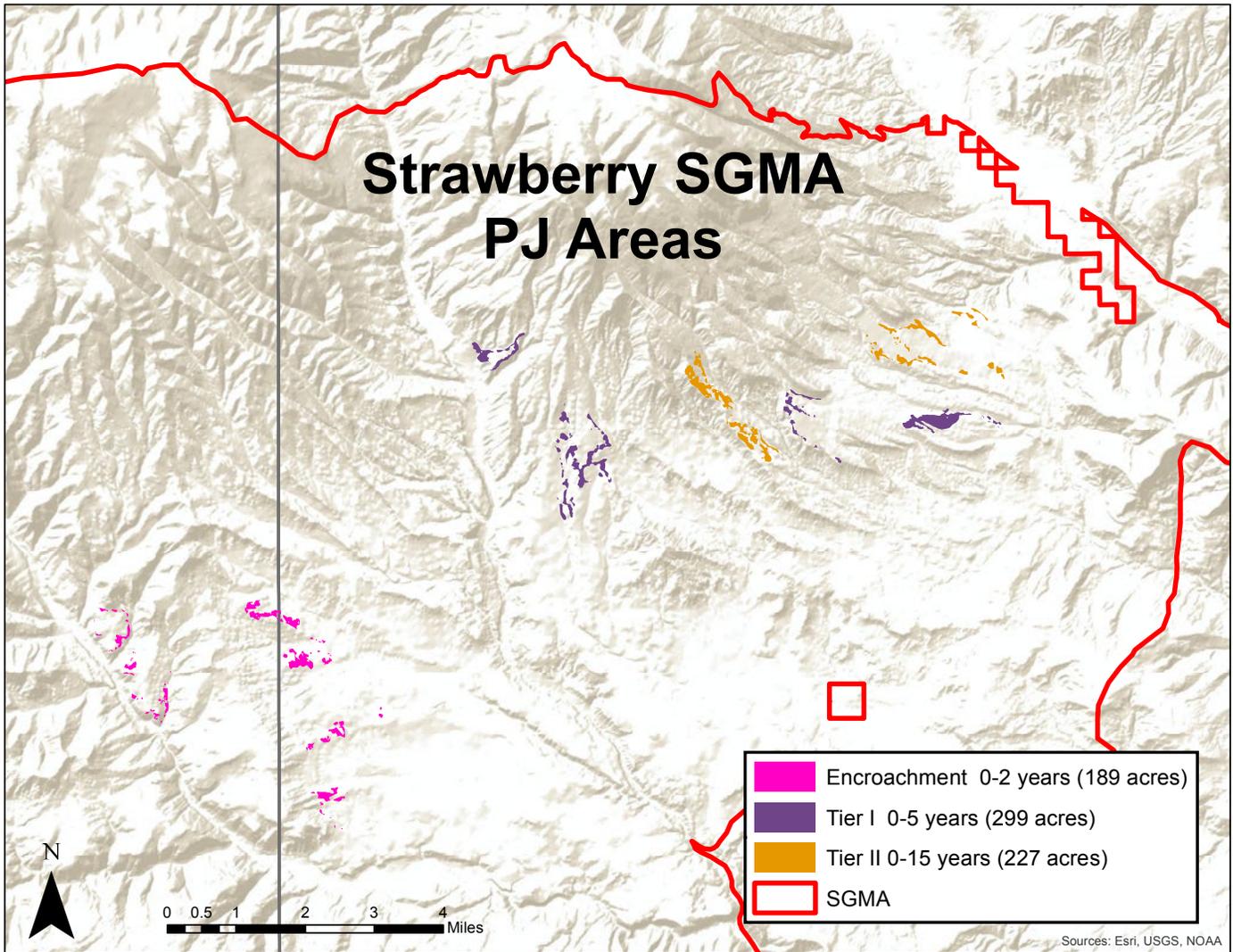


Bald Hills SGMA PJ Areas And Wildfire Priority Areas









UTAH CONSERVATION STRATEGIES *(CONT.)*

Wildfire Management & Restoration



Figure 7. Landscape scale conifer removal in the State of Utah is effectively addressing habitat fragmentation and addressing other important concerns in Sage-grouse habitat.

Overview

Wildfire is a natural occurrence on Utah's landscapes. Many plant and animal species, including Greater Sage-grouse, evolved in an environment having cycles punctuated by natural wildfire.

While Sage-grouse can adapt and even benefit from some fires, disruptions in the natural fire cycle, encroachment of conifers, and the presence of exotic annual grasses such as cheatgrass have presented new challenges. Changes in wildfire frequency and intensity are

raising concerns about the cumulative impact of fires within some of the state's Sage-grouse Management Areas (SGMAs).

The State of Utah invests millions of dollars into programs to proactively address wildfire concerns including:

1. prevention;
2. suppression (including rapid response to wildfire in SGMAs); and
3. rehabilitation/restoration to areas affected by wildfire.

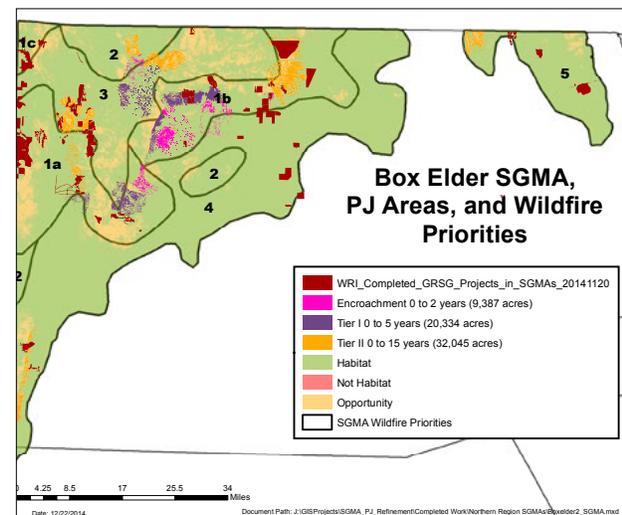


Figure 8. Implementation of Utah's Detailed Conservation Strategies for Wildfire can reduce the acreage burned by up to 85% within impacted SGMAs in the State of Utah.



Progress and Results on Wildfires with Utah's SGMAs

Utah's Watershed Restoration Initiative and Comprehensive Conservation Strategies for Wildfire are producing significant benefits for Sage-grouse habitat in the state of Utah.

In 2007, the Milford Flats fire burned over 350,000 acres in central Utah. While this was an unusually large wildfire, it served as a wake-up call to the state of Utah. In 2008, the Utah legislature provided significant funding for pinyon/juniper removal and post wildfire restoration activities. Since 2008, over 500,000 acres of habitat enhancement and restoration activities have been completed.

The Utah Coordinated Sage-grouse consulting team has conducted a comparative analysis wildfire to determine whether Utah's conservation strategies for wildfire are paying dividends to address wildfire within the state of Utah.

From 1999-2007, the 9 years before these conservation actions, wildfires within the state of Utah burned 628,663 acres within the 5 Utah SGMAs

with a heightened wildfire risk. This amounts to 8.7% of acreage within Utah's SGMAs in a 9-year period. As explained in Utah's Conservation Strategies, a handful of wildfires over 20,000 acres account for the vast majority of the acreage burned during this period.

From 2008-2016, the 9 years after these conservation actions were commenced, wildfires within the state of Utah burned 114,111 acres within the 5 Utah SGMAs with heightened wildfire risk. This amounts to 1.5% of acreage within Utah's SGMAs that were impacted by wildfire during the 9-year period. This is an improvement of 82% since 2008. Just as importantly, this means that 514,552 fewer acres were impacted by wildfire in the last 9 years when compared with the previous 9 years from 1999-2007.

The improvement within Utah's SGMAs is significant and promising. Utah's Conservation Strategies utilize the best available science and data regarding the causes of wildfire and mechanisms to reduce acreage impacted. Wildfire is a natural occurrence on Utah landscapes and many plant and animal species including Greater Sage-grouse evolved in areas where cyclical wildfire were routine events.

This has not changed. The dramatic improvement in wildfire acreage in recent years result from fewer wildfires (an improvement of 51%), fewer large wildfires, and substantially smaller acreage of large wildfires. More importantly, this demonstrates the importance of Utah's on-the-ground conservation approach which includes:

1. **Prevention, including:**
 - a. Fuels management/reduction strategies, and
 - b. Fire-zone buffers such as green stripping and firebreaks.
2. **Suppression Strategies, including;**
 - a. Prioritizing at-risk habitats,
 - b. Providing rapid response strategies, and
 - c. Fire control resource allocation.
3. **Post-fire habitat restoration and rehabilitation efforts to:**
 - a. Restore desirable vegetation; and
 - b. Control of undesirable species, such as cheatgrass.

A comparative analysis for the same periods was conducted in each of the 5 SGMA's affected by wildfire: Box Elder, Bald Hills, Sheep Rock, Hamlin Valley and Ibapah. The table in Figure 9 shows the total number of wildfires and the acreage impacted in each of these SGMA's from 1999-2007 and 2008-2016.

As can be seen by a review of the data in Figure 9, four of the 5 SGMA's showed significant improvement. However, Sheep Rock SGMA experienced an increase in acreage burned. In fact, 6,950 acres burned within the Sheep Rock SGMA from 1999-2007. While 19,390 acres burned from 2008-2016. This represents a 3-fold increase. The total numbers of wildfires also increase during the same periods from 149 wildfires to 176 wildfires. As with other areas, a handful of large fires accounted for most of the acreage burned. Just 7 fires in Sheep Rock SGMA accounted for 83% of the acreage burned. As we analyzed potential causative factors, one pattern emerged. From 2008-2016, 98% of total acres burned were wildfires which started on BLM and Forest Service land within Sheep Rock SGMA.

Further implementation of Utah's conservation strategies have the potential to further reduce wildfire risk in the state of Utah. Portions of Utah's SGMA's still contain areas which are prone to large wildfires. There also remain the possibility of large catastrophic wildfires during certain wildfire years. What is clear, is that Utah's conservation strategies are significantly reducing these risks. The best way to continue to protect Sage-grouse and their habitats from Utah wildfires, is implementation of these on-the-ground conservation efforts.

Figure 9. Wildfire Trends From 1999-2017

Zone	Box Elder	Bald Hills	Sheep Rock	Hamlin Valley	Ibapah
Average fires per year					
1999-2007	25	38	16.5	21	0.67
2008-2017	11.1	13	19.5	7	0.22
% Improvement	56%	66%	-18%	66%	68%
Average acres burned					
1999-2007	21,103	46,114	772	1,351	510
2008-2017	5,487	4,343	2,145	510	183
% Improvement	74%	91%	-179%	63%	64%

WILDFIRE MANAGEMENT AND RESTORATION

Overview: *Wildfire is a natural occurrence on Utah’s landscapes. Many plant and animal species, including Greater Sage-grouse, evolved in areas where cyclical wildfires were routine events. While Sage-grouse can adapt and even benefit from some fires, disruptions in the natural fire cycle, encroachment of conifers and the presence of exotic annual grasses such as cheatgrass have presented new challenges. Changes in wildfire frequency and intensity are raising concerns about the cumulative impact of these fires within some of the state’s Sage-Grouse Management Areas (SGMAs). The state of Utah invests millions of dollars into programs to proactively address wildfire concerns including: (1) prevention; (2) suppression (which includes rapid response to wildfire in SGMAs); and (3) rehabilitation/restoration in areas affected by wildfire. Utah’s Conservation Plan for Greater Sage-Grouse uses the best available science to reduce the threat of wildfire on Greater Sage-grouse habitats.*



Affected SGMAs: Box Elder, Bald Hills, Sheep Rock Mountains, Hamlin Valley and Ibapah.

Wildfire Management Strategies for Sage-Grouse

In Utah, wildfire is an important area of emphasis for Greater Sage-grouse conservation. Utah’s Conservation Plan for Greater Sage-Grouse (the Conservation Plan) indicates, “Habitat loss due to fire and replacement of (burned) native vegetation by invasive plants is the single greatest threat to Greater Sage-grouse in Utah. Immediate, proactive means to reduce or eliminate the spread of invasive species, particularly cheatgrass

(*Bromus tectorum*) after a wildfire, is a high priority.”

These concerns also appear in the U.S. Fish and Wildlife Service 2010 Rule, which found that Greater Sage-grouse was “warranted but precluded” from listing. The rule specifically addressed the threat of wildfire:

“Many of the native vegetative species of the sagebrush-steppe ecosystem are killed by wildfires, and recovery requires many years. As a



Figure 1 - An airtanker drops retardant in Utah pinyon/juniper wildfire.

result of this loss of habitat, fire has been identified as a primary factor associated with Greater Sage-grouse population declines (citations omitted)...In nesting and wintering sites, fire causes direct loss of habitat due to reduced cover and forage (citation omitted).”

Suppression costs in the western United States have exceeded one billion dollars in each year since 2000 and reached \$1.7 billion in 2013¹. Western wildfires are not only costly to suppress, but they also can degrade the value of vegetative communities and working landscapes. These impacts can substantially affect Greater Sage-grouse. Research suggests that changes in wildfire frequency are directly linked to conifer encroachment and the proliferation of exotic annual grasses such as cheatgrass (*Bromus Tectorum*) in sagebrush ecosystems. The U.S.

¹<http://www.usatoday.com/story/weather/2014/07/23/western-wildfires-climate-change/13054603/>

² “Using resistance and resilience concepts to reduce impacts of invasive annual grasses and altered fire regimes on the sagebrush ecosystem and Greater Sage-grouse: A strategic multi-scale approach”

Department of Agriculture’s Rocky Mountain Research Station explains how high-density conifer stands can lead to catastrophic wildfires:

“Extreme burning conditions (high winds, high temperatures, and relatively low humidity) in high density (Phase III) stands are resulting in large and severe fires that result in significant

losses of above- and below-ground organic matter (*Sensu Keeley* 2009) and have detrimental ecosystem effects (Miller et al. 2013). Strategic and targeted treatments to reduce these risks can help land managers protect key habitats and preserve underlying Sage-grouse population dynamics to reduce the risks of wildfire.”²

Invasive exotic annual grasses, like cheatgrass in the Great Basin, provide fine-scale fuels that increase the propensity for fires, even from natural sources such as lightning. The presence of these grasses not only shortens the intervals between fires, but also increases the overall acreage burned in a typical fire. When combined with increased fuel loads from encroaching conifer woodlands, the risk of catastrophic wildfire in Sage-brush ecosystems has increased substantially.

How Wildfire Affects Sage-Grouse

To effectively address the threat posed by wildfires, it is important to understand how they impact Greater Sage-grouse populations. Wildfire affects Sage-grouse in four fundamental ways:

- Destruction of sagebrush and other desirable food sources
- Proliferation of exotic annual grasses that compete with desirable food sources including forbs, native grasses and sagebrush
- Increased frequency and severity of wildfires fueled by cheatgrass or other exotic annual grasses.
- Fragmentation of habitat by creating areas which are less suitable for Sage-grouse populations.

In 2013, a team of representatives from the U.S. Fish and Wildlife Service and various Sage-grouse states met to develop recommendations for reducing threats to Greater Sage-grouse and their habitats. The Greater Sage-Grouse Conservation Objectives: Final Report, which resulted from those meetings in February 2013, addresses concerns related to wildfire and post-wildfire effects:

“Fire (both lightning-caused and human-caused) in sagebrush ecosystems is one of the primary risks to the Greater Sage-grouse, especially as part of the positive feedback loop between exotic annual grasses and fire frequency.”



Figure 2 – Sage-grouse chicks take advantage of a restoration area during summer brood-rearing period. Insects form an important part of the Sage-grouse diet during this important growth period.

In other words, these experts reiterate the nexus between exotic annual grasses and the increased frequency of wildfires.

Cheatgrass proliferation after a wildfire is a concern, particularly in lower elevation areas which correspond with warm and dry soil regimes (xeric areas.) Unlike higher elevation, cool and moist areas, areas with xeric soil regimes areas are: (1) more prone to repeated wildfire; and (2) less responsive to restoration of native forbs, grasses and brush species. These areas also tend to include some nesting, brood-rearing and winter habitat.

The Conservation Plan is investing in solutions to address these challenges. In fact, the Utah Watershed Restoration Initiative and its partners have spent tens of millions of dollars to restore hundreds of thousands of acres affected by

wildfires, both inside and outside of Utah's SGMAs.

Proven Strategies for Wildfire

Utah wildfire experts and Sage-grouse biologists are working together on strategies to address the threat of wildfire. The primary objective of these strategies is to protect sagebrush habitats from wildfire. It is much easier to increase the resiliency of Sage-grouse habitat by proactively managing sagebrush ecosystems before sagebrush is burned in a wildfire. After sagebrush is burned in a wildfire, restoring or rehabilitating areas post-wildfire can be difficult and expensive. This is particularly true of Sage-grouse breeding and winter range.

If sagebrush is destroyed by wildfire, the process of natural vegetative succession may take years before healthy native sagebrush plant communities are fully restored. The moisture and temperature conditions needed for successful reseedling of sagebrush restoration may not be available every year. This is why money spent on prevention and suppression strategies makes

good economic sense. Prevention not only protects sagebrush by reducing the number and frequency of new fires, but it can also help reduce the size of fires that do start. This saves millions of dollars that would otherwise be spent on controlling wildfires and restoring habitats after a wildfire.

Using specific criteria and the best-available science, Utah has developed a comprehensive strategy and detailed plan to address threats of wildfire and post-wildfire effects. Utah's approach focuses on reducing wildfire threats to habitats while ensuring that the habitat continues to work for Greater Sage-grouse.

This methodology is explained by the Sage-grouse National Technical Team (NTT) publication "A Report on National Greater Sage-grouse Conservation Measures," dated Dec. 21, 2011:

"These programs address the threats resulting from wildfires and post-wildfire effects along with a program (fuels management) designed to try to reduce these impacts. Together these programs provide a significant opportunity to influence

Figure 3 – When healthy landscapes are combined with fuels reduction and greenstripping (as shown below), sagebrush ecosystems are more resistant to wildfire.



UTAH SAGE-GROUSE CONSERVATION STRATEGIES

sagebrush habitats that benefit Sage-grouse...it is critical not only to conduct management actions that reduce the long-term loss of sagebrush but also to restore and recover burned areas to habitats that will be used by Sage-grouse (Pyke 2011).”

Utah’s Conservation Plan focuses on a three-pronged approach to address the threat of wildfire:

1. Prevention, including:
 - a. Fuels management/reduction strategies and
 - b. Fire-zone buffers such as greenstripping and firebreaks.
2. Suppression strategies, including:
 - a. Prioritizing at-risk habitats,
 - b. Providing rapid response strategies and
 - c. Fire control resource allocation.
3. Post-fire habitat restoration and rehabilitation efforts to:
 - a. Restore desirable vegetation and

- b. Control undesirable species such as cheatgrass.

Prevention

Money spent on prevention results in significant cost savings when compared with fire-suppression and rehabilitation efforts. Additionally, prevention is the best way to preserve sagebrush and keep habitats from fragmentation. Prevention is one of the most important parts of Utah’s Sage-grouse conservation strategy for wildfire. Prevention involves both the reduction of fuels and the creation of buffers to help control wildfires that occur. The use of fuels-reduction strategies and natural buffers are proven solutions that help increase the resiliency of sagebrush habitats.

Fuels reduction, has become increasingly important in light of pinyon/juniper encroachment and the proliferation of exotic annual grasses. Removing pinyon/juniper and exotic annual grasses can help control both the frequency and severity of wildfires. The state of Utah invests millions of dollars into pinyon/juniper removal projects every year. Utah’s Sage-grouse conservation strategy includes detailed plans for

Figure 4 - Conifer removal projects allows the sagebrush understory to flourish and strengthen the ecosystem’s resilience to wildfire.



removing encroaching pinyon/juniper from sagebrush habitats. Conifer removal plays an essential role in addressing the threat of catastrophic wildfires. For more information on Utah’s conifer-removal efforts, see the Utah Sage-grouse Conservation Strategies report on Pinyon/Juniper Removal for Proactive Habitat Restoration.

Most strategies for the direct removal of exotic annual grasses are either unproven or experimental in nature. However, grazing and post-fire reclamation efforts are proven methodologies to help control exotic annual grasses, particularly cheatgrass. Grazing can help immediately reduce the volume and contiguous nature of exotic annual grasses. Post-wildfire reclamation efforts are also vitally important to control the proliferation of cheatgrass. The treatments Utah uses to control the spread of cheatgrass will be discussed more detail on pages 7 and 8 of this report.

Suppression

Utah has a strong-track record of wildfire suppression. Ninety-eight percent of wildfires are stopped before they burn 1,000 acres. Small sporadic fires have minimal impacts on Sage-grouse habitats. Moreover, some research has found that when the cumulative impact of smaller fires is not excessive, they can actually be helpful to Greater Sage-grouse:

“Small fires may maintain suitable habitat mosaic by reducing shrub encroachment and encouraging understory growth...Sage-grouse using burned areas...may preferentially use the burned and unburned edge habitat.”³

³[U.S. Fish and Wildlife Service 2010 Rule]

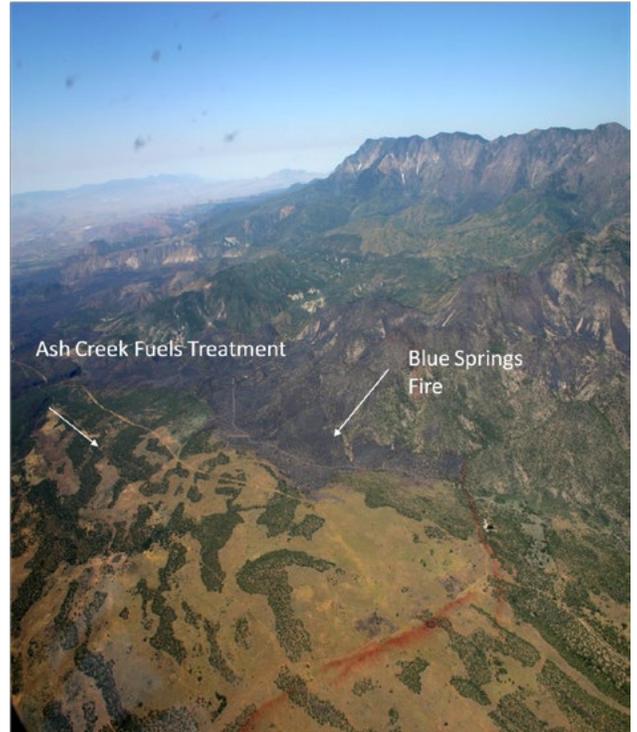


Figure 5 - Conifer removal projects provided important fire breaks which allowed crews to stop progression on blue Springs Fire saving thousands of acres of habitat.

Utah’s fire-suppression strategy objective is to suppress all wildfires within SGMAs, with the goal of restricting or containing wildfires in these areas to the normal range of fire activity. Suppression of wildfires within Sage-grouse habitat is prioritized in Utah’s fire plan immediately after human life and protecting communities. Utah’s wildfire response strategies are evolving as additional information is learned about wildfire within key Sage-grouse habitats.

Utah’s rapid response strategy involves ongoing cooperation between federal, state and county fire suppression entities. It also prioritizes resource allocation based on the threat potential inside and outside of at-risk SGMAs. Where resources are limited, Utah’s wildfire suppression strategy provides the following degrees of prioritization:

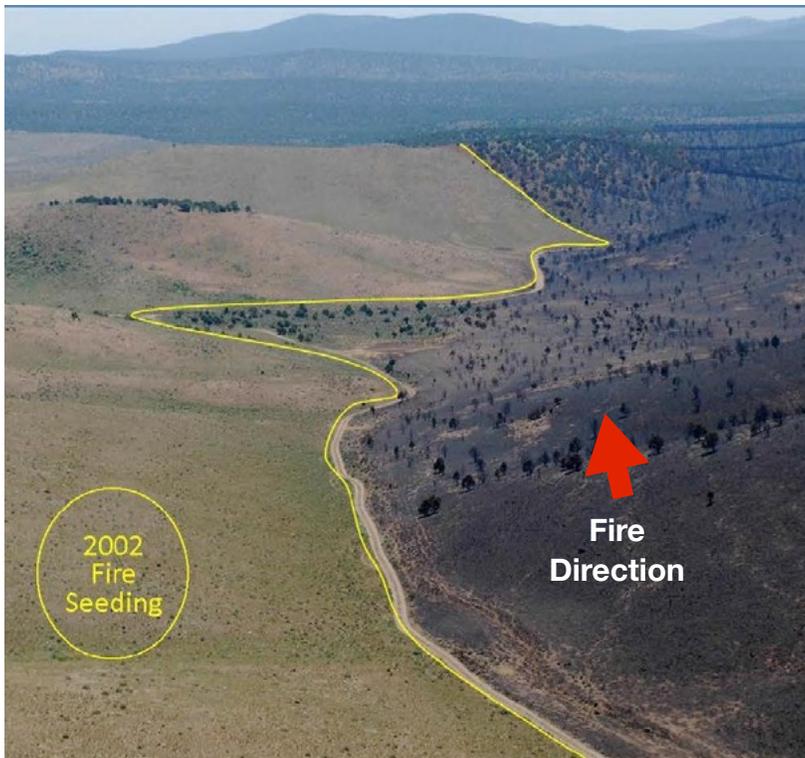


Figure 6- During critical drought conditions thousands of acres were saved from the fast moving Black Mountain Fire by a previous reseeded project of the Utah Watershed Restoration Initiative.

1. Highest priority areas within highest priority SGMA's
2. Prioritization among at-risk SGMA's
3. All SGMA's
4. Any identified connectivity corridors between SGMA's
5. All sagebrush habitats

Utah's conservation strategies stress the importance of using mechanical removal of pinyon and juniper trees within sagebrush ecosystems to eliminate the need for prescribed burns on Sage-grouse breeding and winter habitats. This not only protects sagebrush from unnecessary long-term removal, it ensures that treatment areas are suitable for utilization by Greater Sage-grouse after treatments are completed.

Restoration and Rehabilitation

There is a growing concern about the post-wildfire effects in Sage-grouse habitat. This is one of the reasons it is extremely important to prioritize prevention and suppression strategies for SGMA's which are most susceptible to wildfires and cheatgrass proliferation. It also means that restoration and rehabilitation after a wildfire is helpful. Post-fire strategies for cheatgrass may involve chemical or biological pre-emergents which actively suppress cheatgrass growth. Suppression of cheatgrass, when

combined with reseeded of desired grasses, forbs and shrubs is a key part of Utah's restoration strategies after wildfires. Not only can these efforts promote the restoration of desirable vegetation, but they can also help control cheatgrass proliferation after a wildfire.

“The return on investment from this one wildfire alone potentially saved millions of fire-suppression dollars and clearly shows how healthy ecosystems are likely to thrive when post fire rehabilitation efforts are implemented successfully.”

— PAUL BRIGGS, DISTRICT FUELS PROGRAM MANAGER

Before a wildfire, cheatgrass is approximately 1% of the understory vegetation in areas that have not previously burned. In the absence of wildfire, the presence of native grasses, forbs and brush help

UTAH SAGE-GROUSE CONSERVATION STRATEGIES

limit the infiltration of cheatgrass. When wildfire occurs, cheatgrass is often the first plant to emerge, often at much higher densities than before the fire. In this way, the biology of cheatgrass is designed to compete with other plant species in response to wildfire.

Utah's strategy is proving to be very effective in controlling the spread of cheatgrass. After a wildfire, a chemical pre-emergent, which is specific to cheatgrass, is applied to the burned area. The area is then reseeded with native (and in some situations non-native) forbs, grasses and brush. Additionally, multiple reseeding of these areas can be utilized to take advantage of intermittent years where soil temperatures and moisture are favorable for sagebrush restoration. The pre-emergent artificially suppresses cheatgrass growth, which gives the newly reseeded area's forbs, grasses and brush a head-start. In most cases, a second application of the cheatgrass specific pre-emergent is unnecessary. Although a temporary increase in cheatgrass density may occur in the second year, the early-establishment allows desirable plants to more effectively compete with cheatgrass. In many instances, by the third year cheatgrass will return to lower densities within the understory vegetation.

The data shows that this strategy not only helps control cheatgrass proliferation, but it also helps keep cheatgrass densities at levels that minimize the impact on Sage-grouse habitat use. Just as important, by re-establishing desired vegetative communities, the natural processes of plant succession can be restored. This helps ensure that desired forbs, grasses and sagebrush will be restored in ways that will support Greater Sage-grouse populations long-term.



Figure 7 – Sage-grouse actively use winter habitats that have healthy sagebrush populations.

The Report on National Greater Sage-grouse Conservation Measures is consistent with Utah's approach on these post-wildfire restoration strategies:

“Use of native plant seeds for [Emergency Stabilization and Rehabilitation] seedings is required based on availability, adaptation (site potential), and probability of success (Richards et al. 1998). Where probability of success or native seed availability is low, non-native seeds may be used as long as they meet Sage-grouse habitat conservation objectives (Pyke 2011). Re-establishment of appropriate sagebrush species/subspecies and important understory plants, relative to site potential, shall be the highest priority for rehabilitation efforts.”

By implementing proven prevention, suppression and rehabilitation strategies, the state of Utah is effectively addressing challenges presented by wildfire and post-wildfire effects, including cheatgrass proliferation and dominance.

Utah's Investment to Address Wildfire

The state of Utah has a track record of investing in prevention, suppression and rehabilitation projects, as well as ensuring that those treatment areas work for Greater Sage-grouse. Since 2006, approximately 560,000 acres of habitat has been treated through Utah's Watershed Restoration Initiative. Many of these projects directly address threats of wildfire to Sage-grouse habitats. Utah's methodology for assessing treatment areas relies on years of experience and application of the best available science. Factors considered includes:

1. Characteristics of sagebrush habitats
2. Sage-grouse utilization of those habitats
3. Soil temperature and moisture regimes
4. Likelihood of rehabilitation/restoration success

Using these and other criteria, experts in the state of Utah are able to assess areas where additional pre-suppression projects would provide the most benefit. This information also helps inform

prioritization of suppression and rehabilitation efforts.

Utah's systematic approach follows the suggested management practices of the Natural Resource Conservation Service (NRCS) Sage-grouse team, which encourages criteria-based methodology, "Natural Resource managers are seeking coordinated approaches that focus appropriate management actions in the right places to maximize conservation effectiveness (Wisdom and Chambers 2009; Murphy et al. 2013)."

The state of Utah has systematically identified the SGMAs where there is a heightened risk of wildfire and post-wildfire effects. Fortunately, many of Utah's SGMAs are not at a heightened risk. A comparatively small percentage of the acreage within these areas have been burned by wildfires during the last 20 years.

Other SGMAs are not only impacted by wildfire, but they are also at a heightened risk of post-wildfire effects. These areas have a higher overall percentage of land that has been burned by wildfire. Additionally, these SGMAs have large

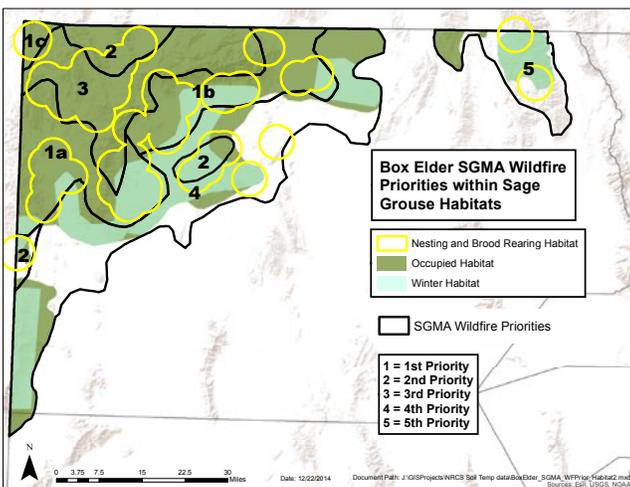


Figure 8 - Wildfire prioritization overlaid with Sage-grouse habitat utilization demonstrates importance of a multi-criteria approach in developing detailed wildfire strategies.

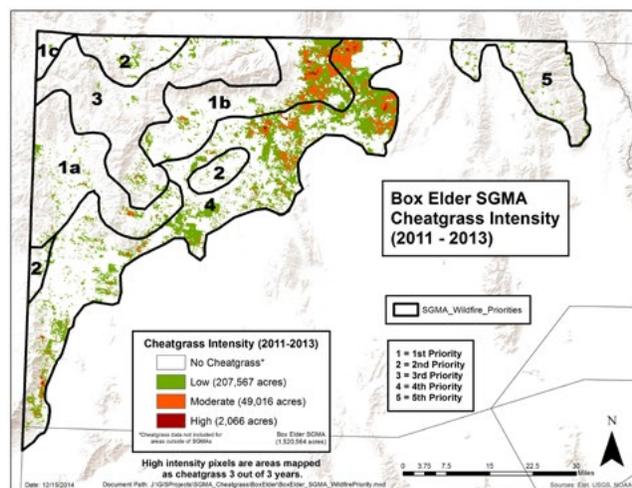
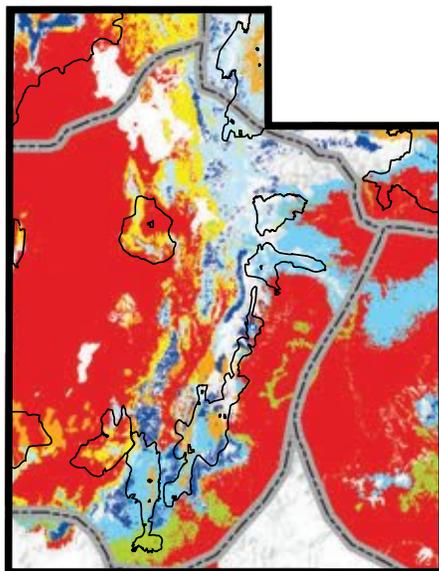


Figure 9 - Cheatgrass intensity is strongly considered when developing wildfire priority strategies within SGMAs.

UTAH SAGE-GROUSE CONSERVATION STRATEGIES

areas with soil temperature and moisture regimes that are more susceptible to cheatgrass proliferation. These areas may also contain habitats where it is more difficult to successfully reestablish native forbs, grasses and brush. This is particularly true of the five SGMA's that lie within Utah's Great Basin. Language in the U.S. Fish and Wildlife Service's 2010 "Warranted but Precluded" finding confirms that areas within the Great Basin are at the greatest risk of wildfire, "Although fire alters sagebrush habitats throughout the greater Sage-grouse range, fire disproportionately affects the Great Basin (Baker et al. in press, p. 20)...and will likely influence the persistence of Greater Sage-grouse populations in the area."

The five Utah SGMA's that lie within the Great Basin include Box Elder, Bald Hills, Sheeprock Mountains, Hamlin Valley and Ibapah. These five



Soil Moisture & Temperature Regime

- Cold (Cyric)
- Cool and Moist (Frigid/Ustic)
- Cool and Moist (Frigid/Xeric)
- Warm and Moist (Mesic/Ustic)
- Warm and Moist (Mesic/Xeric)
- Cool and Dry (Frigid/Aridic)
- Warm and Dry (Mesic/Aridic)
- Omitted or No Data
- Sage-Grouse Management Areas

Figure 10 - Five SGMA's within the Great Basin have a high correlation with warm and dry soil regimes. Soil moisture and temperature are a primary indicator of wildfire propensity and post-fire effects.

areas hold 26% of the Sage-grouse in the state of Utah. A comparison of these five SGMA's and the 6 SGMA's outside of the Great Basin is helpful. Accumulated acreage affected by wildfire in Utah's SGMA's was closely tracked from 1995-2012.

Utah's five SGMA's within the Great Basin have had an average of approximately 10% of the overall habitat burned by wildfire since 1995. In contrast, the average for Utah's six SGMA's outside the Great Basin is much lower. They have only had approximately 1.8% of their habitat burned by wildfire since 1995. By focusing pre-suppression treatment efforts within the Great Basin SGMA's that are more prone to large acreage wildfires, Utah is proactively working to protect suitable habitat in areas with soil types that are more prone to the infiltration and persistence of cheatgrass and other exotic annual grasses.

Utah's proactive strategies are protecting Greater Sage-grouse habitats. In particular, the state's strategy of prioritizing prevention, suppression and rehabilitation efforts are proactively addressing challenges presented by wildfire and post wildfire effects in areas that are at the greatest risk.

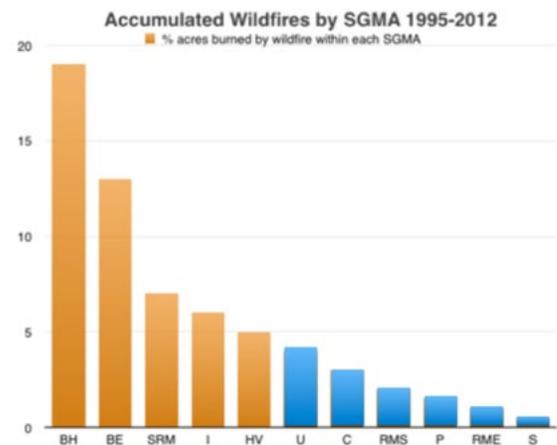


Figure 11- The contrast between acres burned by wildfires within Great Basin SGMA's and SGMA's in other parts of the state helps illustrate the benefits of prioritizing at risk SGMA's.

Detailed Conservation Strategy for SGMA Priorities



Box Elder

Overview

Detailed conservation strategies demonstrate that protecting Sage-grouse from the threat of wildfire in Box Elder SGMA is achievable. Spatial threat analysis illustrates that utilizing a priority system for prevention treatments and rapid-response strategies in difficult fire years can reduce the acreage burned by wildfire by up to 75% in the areas which are key to survival of 98% of the birds in the Box Elder SGMA. Considering that the Box Elder SGMA holds approximately twice as many sage-grouse as the combined populations of the Iapah, Sheeprock Mountains, Hamlin Valley and

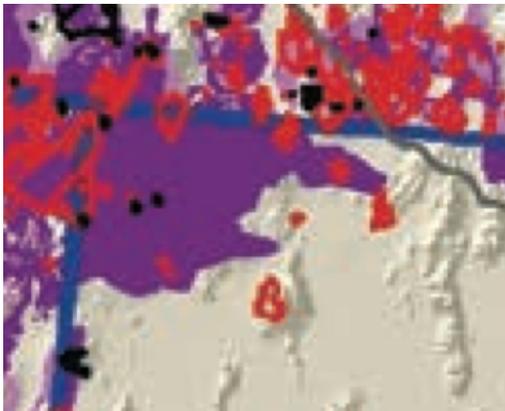


Figure 12 - Chambers et al wildfire map. Red and black polygons represent acreage burned by wildfire from 1995-2012 in Box Elder SGMA.

Bald Hills SGMAs, a detailed conservation strategy for the Box Elder SGMA is important for protecting Sage-grouse from the threat of wildfire in the state of Utah.

Detailed Analysis

Every Fire Every Year

In most years, every fire within the Box Elder SGMA can be suppressed before it grows too large. In fact, analysis of wildfires from 1995-2012 in Utah's SGMAs shows that 98 percent of wildfires are extinguished in less than 1,000 acres and 99.7 percent of wildfires are extinguished in less than 10,000 acres. In 16 out of 18 years, no wildfire exceeded 10,000 acres and relatively few overall acres burned in the Box Elder SGMA. However, in two years, 2005 and 2007 several large fires burned extensive acreage in the Box Elder SGMA. In 2008, the state of Utah responded with increased funding to enhance prevention and suppression efforts to address the threat of wildfire in Box Elder and other portions of the state.

Difficult Fire Years

Utah uses a three-pronged approach to address the challenge that wildfires pose to Sage-grouse in extreme conditions:

UTAH SAGE-GROUSE CONSERVATION STRATEGIES

- (1) Prevention: Improving the resiliency of the habitat through conifer removal and control of invasive annual grass before fires start.
- (2) Suppression: Rapid-response strategies that use a priority system for triage situations.
- (3) Rehabilitation: Restoring burned habitat through reseeding and cheat-grass suppression to ensure burned acreage is returned to productive Sage-grouse habitat.

types. Zones 1a and 1b have been designated the top priority areas to accelerate prevention and improve rapid response in the most severe wildfire conditions.

Protecting Key Habitat

While the Box Elder SGMA covers 1.5 million acres, population metrics indicate that nesting/brood-rearing habitat and priority winter range for 98% of the birds in this area occurs within zones 1a-c, 2 and 3. However, the majority of the acreage burned by wildfires in these areas occurs within zones 1a and 1b.

In the Box Elder SGMA, priority zones 1-5 were developed using historic fire data, soil/temperature regimes, sage-grouse distribution and key habitat

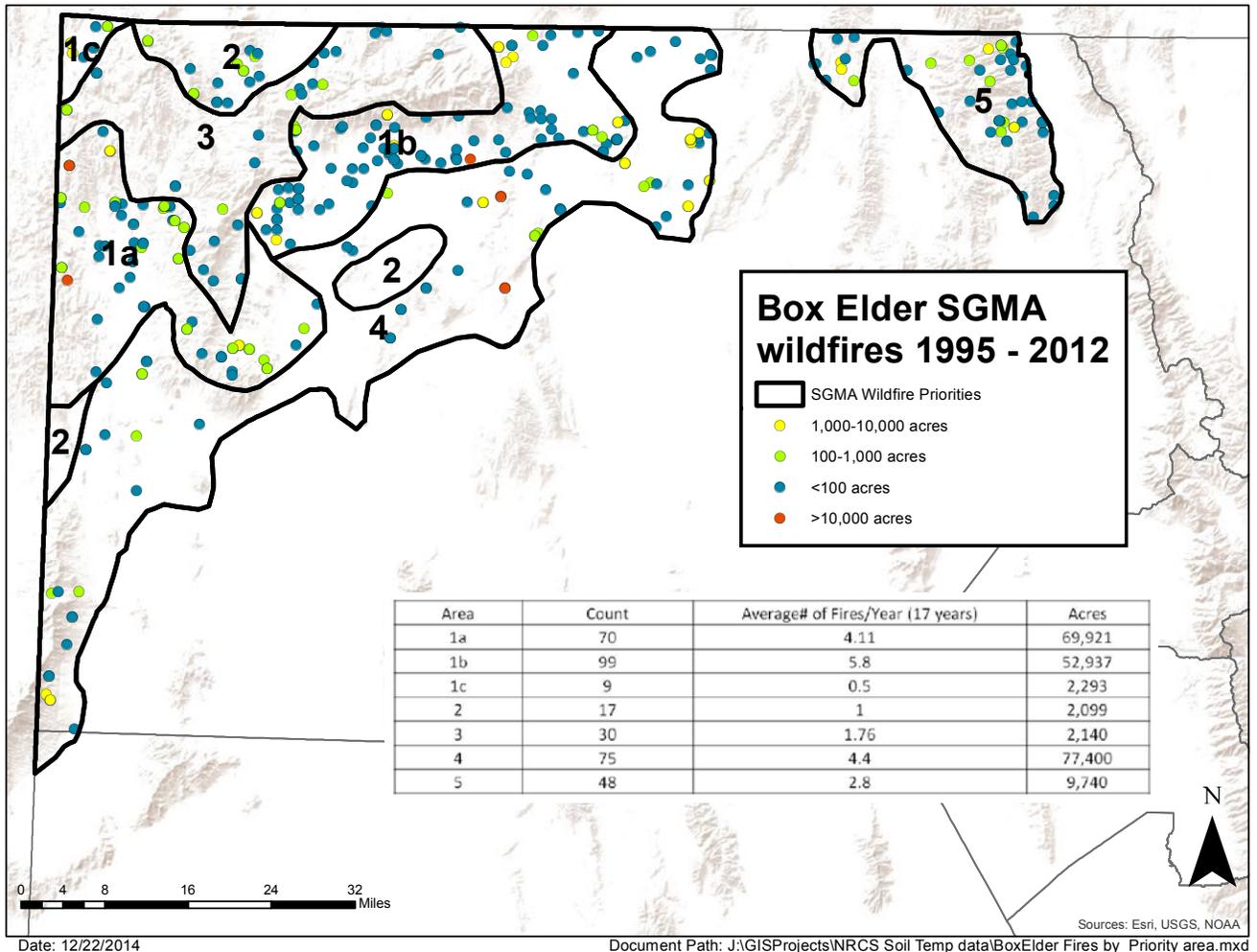


Figure 13 - Ensuring fire control in priority zones 1a and 1b during difficult fire years presents an opportunity to reduce acreage burned by up to 75% in critical habitat for 98% of sage-grouse.

Wildfire not a threat in zones 1c, 2 and 3

Wildfire is not a significant threat in zones 1c, 2 and 3. Soil temperature and moisture conditions combined with existing wildfire-prevention and control strategies are currently sufficient to control wildfires in these areas. Although zones 1c, 2 and 3 encompass more than 440,000 acres, on average only a collective 363 acres burn in these areas per year. This is likely equal to or less than historical totals. In other words, any threat of wildfire in areas 1c, 2 and 3 is already being controlled to acceptable thresholds. Because zones 1c, 2 and 3 provide nesting/brood rearing habitat for 55% of the Sage-grouse in the Box Elder SGMA it remains an important priority for wildfire prevention and suppression efforts.

Cheatgrass favors warm-dry soils (which are classified as xeric or aridic soils by soils experts.) However, most of the soils in zones 1c, 2 and 3 comprise cool and wet soil types (cryic, frigid-xeric and frigid-aridic soils). This means that cheatgrass and other annual grasses are much less likely to become problematic within these zones. Soil moisture and temperature conditions in zone 3 and portions of zones 1c and 2, also allow restoration of healthy vegetation. Using soil moisture, temperature, elevation and other quantified variables, restoration specialists determine whether reseeding or other restoration activities will be helpful. Restoration activities after wildfire in these areas are often highly successful, and revegetation of desirable forbs, grasses and brush occurs in just a few short years.

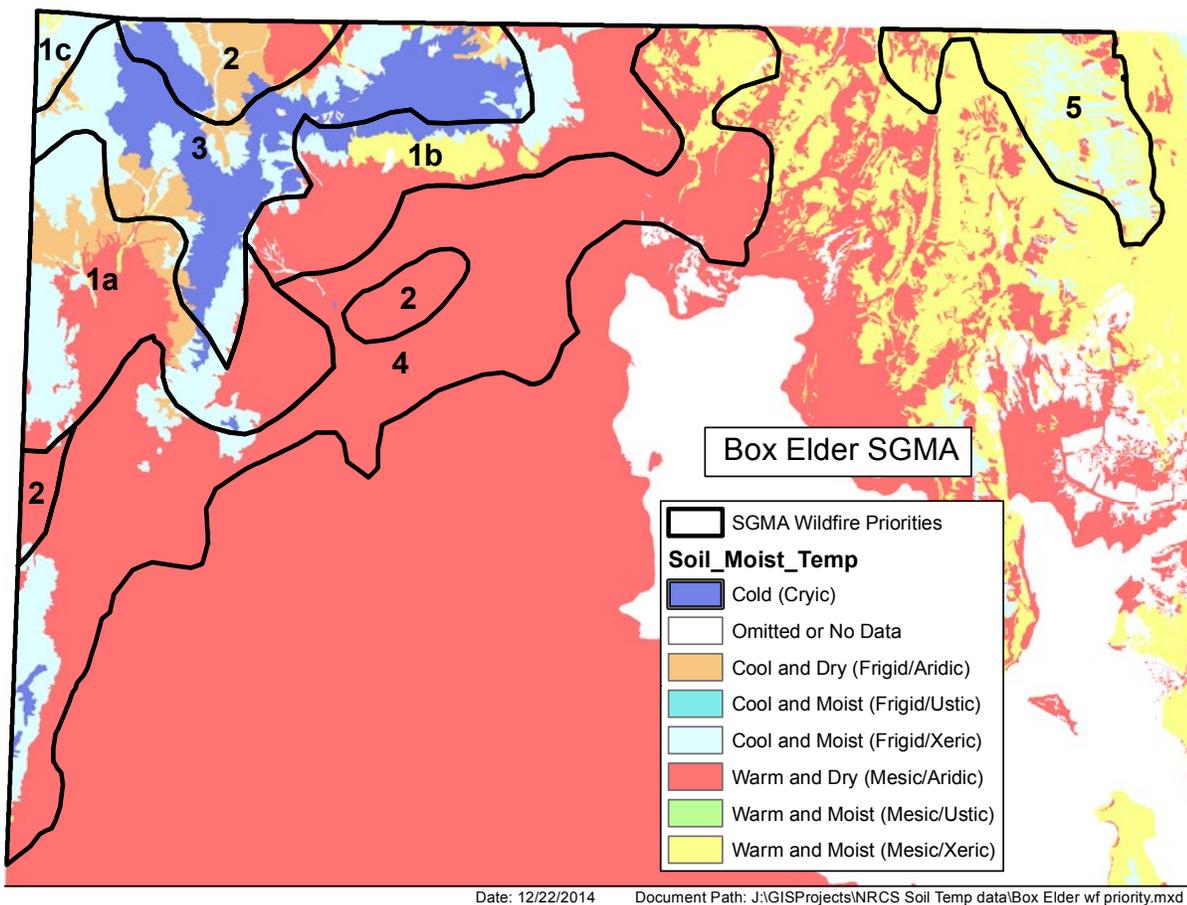


Figure 14 - Soil temperature and soil conditions and existing fire management efforts means wildfire is not a threat in zones 1c, 2 and 3. With less than 365 acres per year burning on average in these areas, sage-grouse populations are not at risk.

Few Birds in Zone 4

Zone 4 provides nesting/brood-rearing habitat for just 2% of Sage-grouse in the Box Elder SGMA. Nevertheless, because zone 4 includes general winter range, it is helpful for it to be included in the prioritization system. While there are less wildfires which start in zone 4 than zones 1a and 1b, the total acreage burned by wildfires from 1995-2012 in zone 4 was relatively high. Nevertheless, because of the large amount of winter habitat in the Box Elder SGMA, the amount of acreage impacted by wildfires in zone 4 is not considered limiting for sage-grouse populations. This does not mean that wildfire suppression is not important in zone 4. Instead, it reflects the reality that in triage situations, where multiple fires may be

burning, prioritizing wildfire control in nesting/ brood rearing areas and critical winter range in zones 1-3 is a higher priority than general winter range in zone 4. This is because winter range in zone 4 is in more abundant, and the impact of a large wildfire in zone 4 is less likely to directly impact sage-grouse populations than a large wildfire in zones 1-3. It is also important to point out that zones 1-3 contain important winter range for Sage-grouse in the Box Elder SGMA.

Analysis of historical wildfire trends suggests that controlling wildfires in zone 4 will not typically interfere with wildfire-control efforts in zones 1-3. For example, the two largest fires in zone 4 occurred in 2005 and 2006, while two largest fires

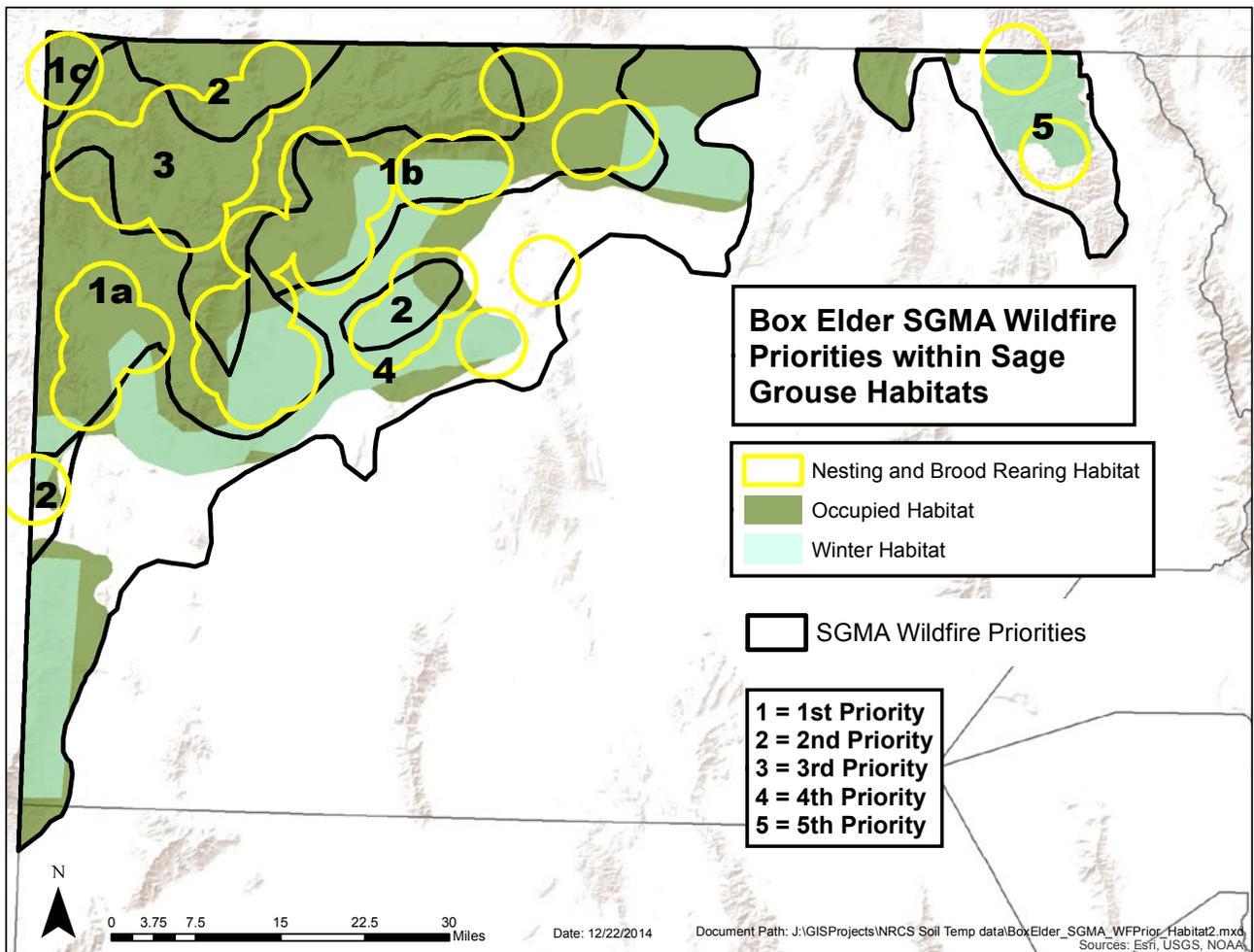


Figure 15 - shows that the majority of nesting brood rearing habitat occurs within zones 1-3. Zones 1-3 also contain winter habitat.

in zones 1a and 1b were in 2007. This demonstrates that the priority system can provide protection of general winter range, even in difficult fire years.

Detailed Wildfire Strategies for Zones 1a and 1b

Prioritization of zones 1a and 1b is important to inform improved rapid response and suppression strategies in the Box Elder SGMA. While there are few large wildfires in zones 1a and 1b, large wildfires account for most of the acreage burned in these areas. In some respects, this is a function of the soil temperature and moisture regimes, elevation and plant communities, but is also informed by historic wildfire trends. Prioritization reflects the fact that wildfires are not only more likely to occur in zones 1a and 1b, but they are also more likely to burn large amounts of acreage.

By prioritizing zones 1a and 1b, Utah can focus its enhanced prevention and suppression efforts on at-risk areas and habitats within the Box Elder SGMA that are important to Sage-grouse survival. There are multiple ways prioritization can be

helpful to suppression efforts in the Box Elder SGMA. For example, if multiple fires start in a single night and resources become limited, it is helpful to recognize that a wildfire in zone 1a is more likely to become large than a wildfire in zone 3. Similarly, it is helpful to recognize that a wildfire in zone 1b is more likely to detrimentally impact Sage-grouse populations than a wildfire in zone 4.

Most years, all wildfires within the Box Elder SGMA are extinguished before they become very large. In fact, from 1995 to 2012, there were no wildfires in zones 1a and 1b that exceeded 10,000 acres in 16 out of 18 years. During those 16 years, wildfires burned just a combined 1,434 acres annually on average within zones 1a and 1b. However, in 2005 and 2007, large wildfires far exceeded these annual averages. For example, in 2005 one fire burned 18,420 acres in zone 1a. In 2007 two fires burned 59,296 acres in zone 1b and four fires burned 12,484 acres in zone 1a. Controlling these fires can reduce acreage impacted by wildfire by up to 75%.

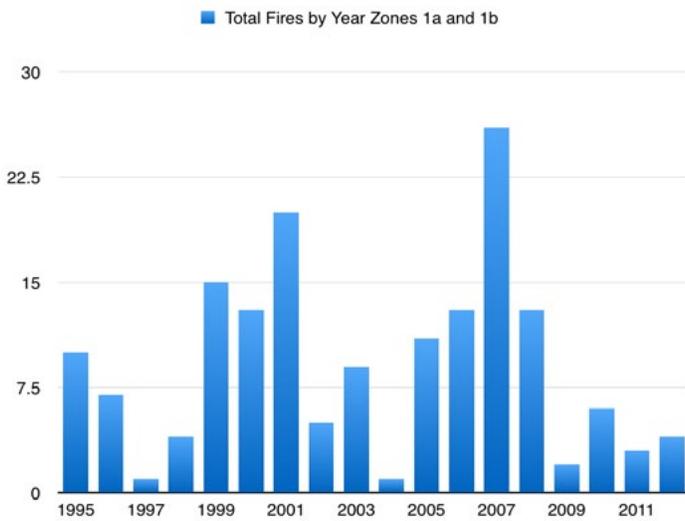


Figure 16 - The number of wildfires within zones 1a and 1b can vary considerably from year-to-year.

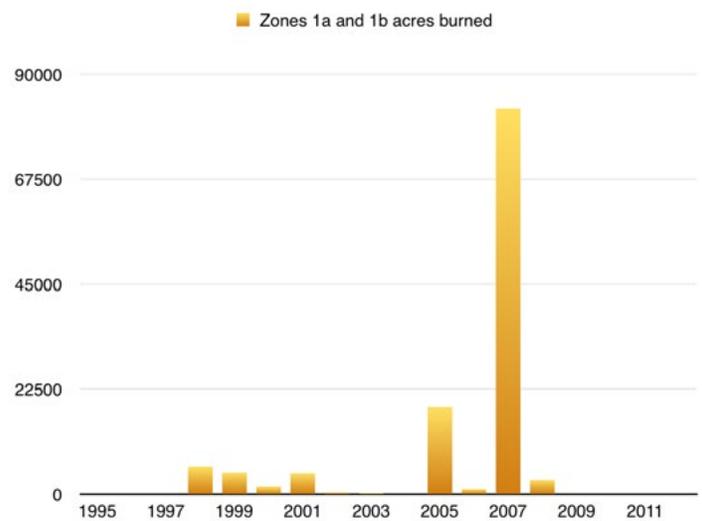


Figure 17 - Severe fire conditions in certain years (particularly 2005 and 2007) account for most of the acreage burned in key areas of the Box Elder SGMA.¹⁵

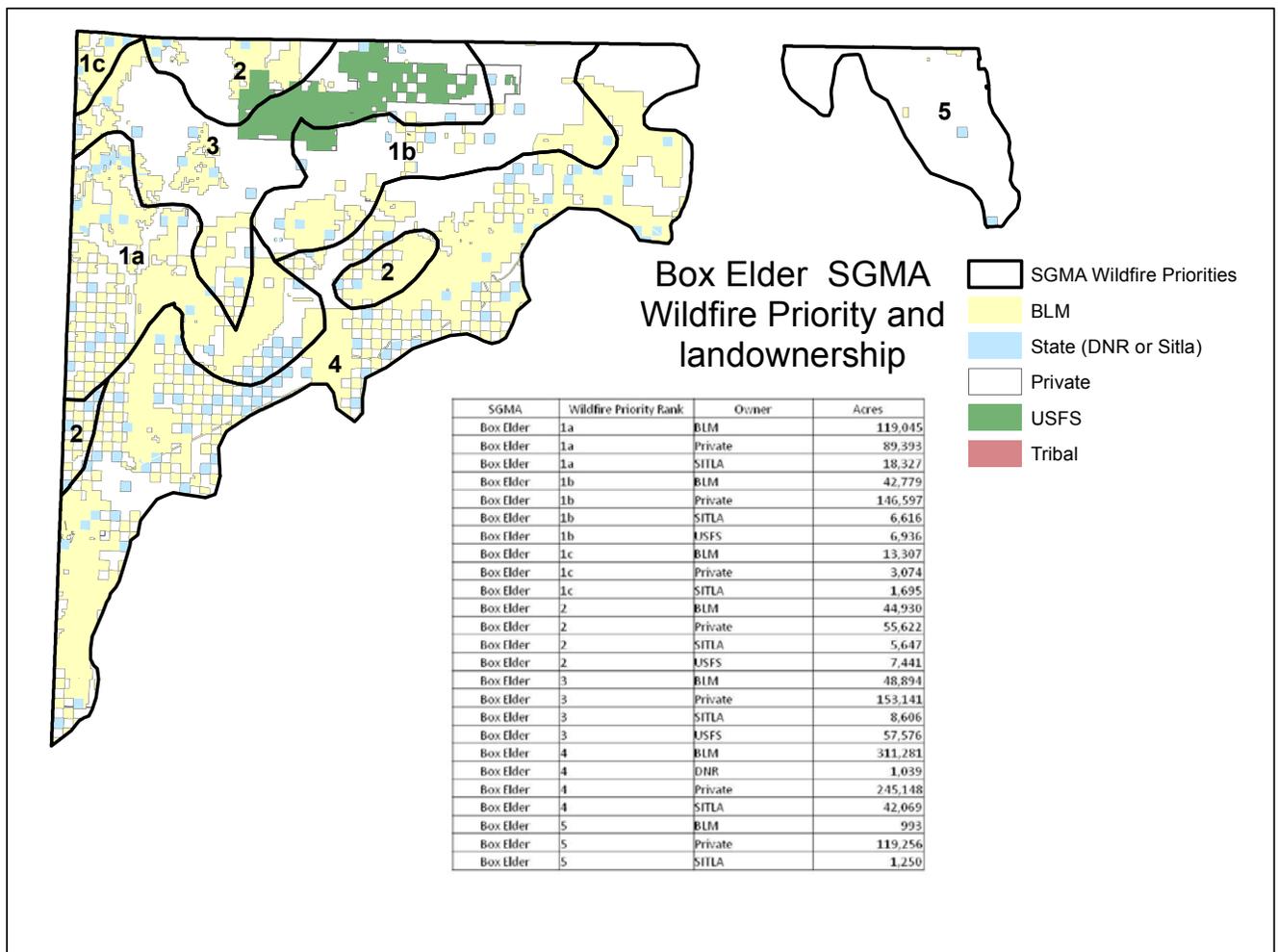
UTAH SAGE-GROUSE CONSERVATION STRATEGIES

Enhanced wildfire control in zones 1a and 1b protects nesting/brood-rearing areas and winter habitats for Greater Sage-grouse in the Box Elder SGMA. Zones 1a and 1b provide nesting/brood rearing habitat for 43% of the Sage-grouse in the Box Elder SGMA. Zones 1a and 1b are also important for protecting the habitat in areas 1c, 2 and 3 from catastrophic wildfire. In other words, controlling wildfires in zones 1a and 1b protects not only 43% of Sage-grouse in zones 1a and 1b, but also the 55% of Sage-grouse in zones 1c, 2 and 3. What this means is that protecting 98% of the birds can be achieved by reducing the number of large fires within the 226,765 acres designated as zone 1a and the 202,928 acres designated as zone 1b. Managing wildfires on the combined

429,693 acres of zones 1a and 1b is a much more manageable task than attempting to control every fire on 1.5 million acres in the most extreme fire conditions. Considering the fact that a small handful of fires in zones 1a and 1b in 2007 accounted for approximately half of the acreage burned in an 18-year period in the Box Elder SGMA, the priority system provides invaluable insight for improving rapid-response strategies and enhanced suppression efforts in future fire seasons.

Conifer Removal and Prevention Strategies for Zones 1a and 1b

Prevention is an important tool to reduce the incidence of large wildfires. Pre-suppression



Date: 12/29/2014 Document Path: j:\GISProjects\NRCS Soil Temp data\SGMA Wildfire Priorities\Landownership_WP\Box Elder.mxd

Figure 18 - Ownership of land can affect suppression efforts as well as the timing, funding and regulatory hurdles for conifer removal and other habitat restoration efforts.

UTAH SAGE-GROUSE CONSERVATION STRATEGIES

strategies can dramatically reduce the incidence of large wildfires and can enhance the ability to suppress fires that do start in severe conditions. In 2008, the state of Utah responded to the wildfires of 2007 with funding for an ongoing prevention and restoration program. Prevention is a critical part of the detailed wildfire-reduction strategy in zones 1a and 1b. Pinyon-juniper removal, restoration and other prevention work in zones 1a and 1b can also help address the threat of wildfire by:

- (1) Reducing the fuel loads which that can increase the likelihood of catastrophic wildfires.
- (2) Enhancing habitats to improve the success of suppression of wildfires in severe conditions.
- (3) Reducing the size and intensity of fires that do occur.

These programs have been extremely successful. Since 2007, almost 100,000 acres of conifer removal, invasive plant control and Sage-grouse

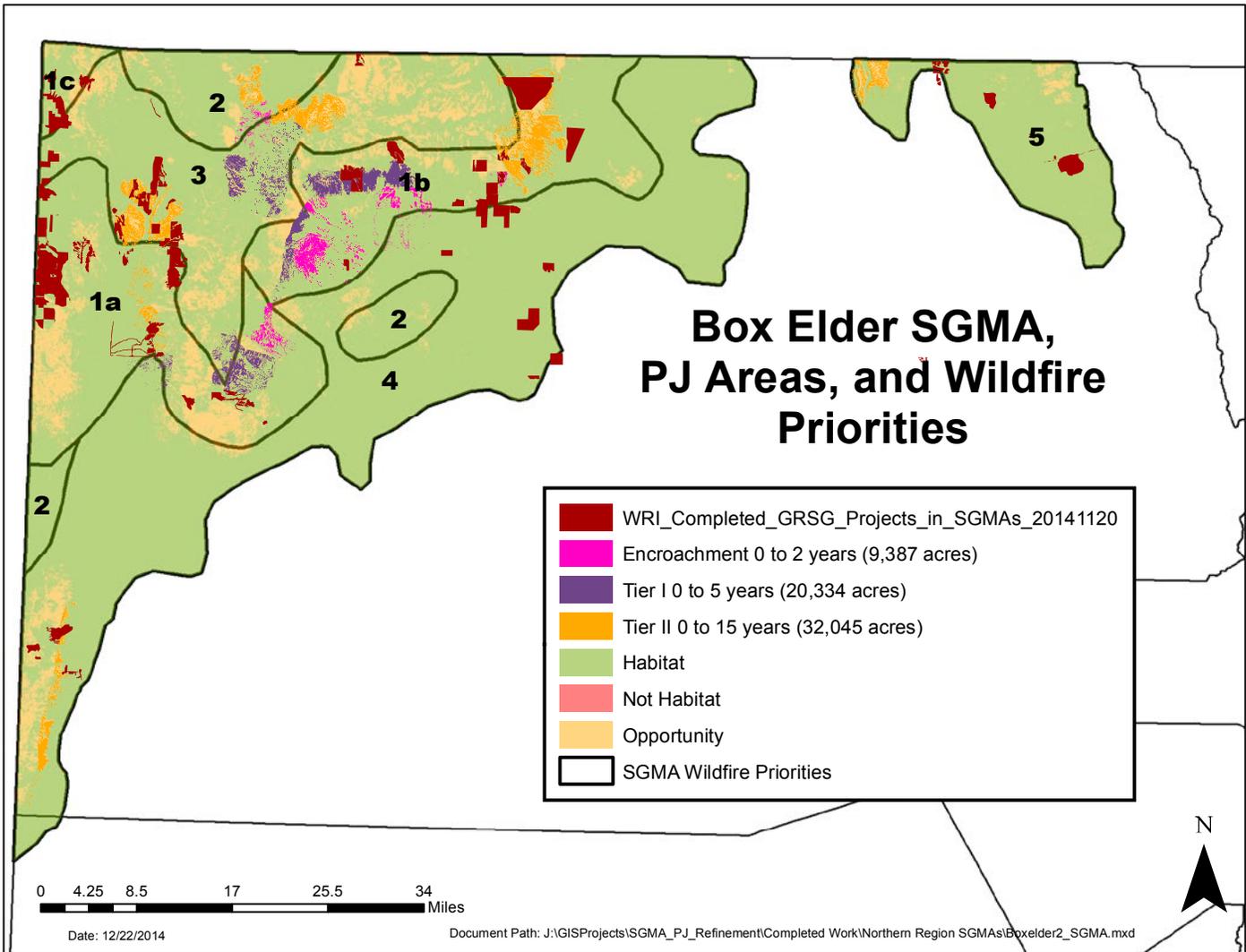


Figure 19-Watershed Restoration Initiative Projects totaling over 100,000 acres have been completed in Box Elder SGMA since 2006. Over 60,000 acres of conifer removal projects are planned in coming years to enhance grouse habitat and reduce the threat of catastrophic wildfire.

UTAH SAGE-GROUSE CONSERVATION STRATEGIES

habitat restoration efforts have been implemented in the Box Elder SGMA. An additional 60,000+ acres of conifer removal is planned in Box Elder SGMA in the next few years. These projects increase the resiliency and redundancy of sage-grouse habitats, improve watersheds and mesic areas, remove vertical plant structures and reduce the threat of catastrophic wildfires. Many of these projects are planned adjacent to existing Sage-grouse populations or in areas of important winter range. Since 2008, wildfire totals in Box Elder have dramatically improved. Between 2008 and 2014, no wildfire burned over 2,500 acres in the Box Elder SGMA. In that same period, just 4 fires were larger than 1,000 acres.

For more information on the science behind conifer removal and the benefits to Sage-grouse and their habitats, refer to the state of Utah's

Sage-Grouse Conservation Strategies document on pinyon/juniper removal.

Most of the habitat restoration efforts in the Box Elder SGMA occurs in zones 1a and 1b. Ownership of land in pinyon-juniper removal areas affects whether funding availability, regulatory restrictions and NEPA assessments may delay or restrict conifer removal projects. For example, the fact that a large percentage of zone 1b is private land makes it much more likely that pinyon/juniper removal will implemented in the next few years. In contrast, zone 1a includes large portions of public lands managed by the Bureau of Land Management (BLM). Though BLM is an important partner in Utah's Watershed Restoration Initiative, NEPA requirements and availability of funding can delay pinyon/juniper removal projects by several months or even years on BLM managed lands.



UTAH SAGE-GROUSE CONSERVATION STRATEGIES

Box Elder Conclusion

Existing wildfire prevention, suppression and rehabilitation strategies have successfully addressed the threat of wildfire in most years within the Box Elder SGMA. However, in extreme fire conditions, such as those experienced during the 2007 wildfire season, large fires can burn large amounts of acreage. These fires account for most of the acreage burned within important sage-grouse habitats within the Box Elder SGMA. To reduce the threat of wildfire in extreme fire conditions, the state of Utah has developed a priority system to inform prevention projects and rapid-response/suppression strategies. By utilizing a priority system, heightened protections are focused on key nesting/brood rearing and critical winter range. The priority system protects 98% of Sage-grouse in the Box Elder SGMA within the areas designated as priority zones 1-3.

Prioritization is helpful to focus wildfire prevention and suppression strategies in at-risk areas within the Box Elder SGMA. For example, while the Box Elder SGMA covers 1.5 Million acres, protecting 98% of the birds can be achieved by reducing the number of large fires within the 226,765 acres designated as zone 1a and 202,928 acres designated as zone 1b. Quantification and spatially explicit threat analyses illustrate that Utah's priority system for preventive treatments and rapid response strategies in Box Elder SGMA can reduce the acreage burned by wildfire by up to 75% in areas which are key to survival of 98% of the birds in the Box Elder SGMA. By utilizing priority areas, the science and data inform wildfire suppression strategies in a manner that not only reflects likely conditions on the ground, but also informs strategies for significantly reducing the threat of wildfire to greater sage-grouse populations.

Hamlin Valley

encompasses 158,065 acres. Between 0 and 22



Overview

Detailed conservation strategies for the Hamlin Valley SGMA are much more straightforward than for the Box Elder SGMA. Priority zone 1 contains 100% of the nesting/brood-rearing and key winter habitat in the Hamlin Valley SGMA. While Hamlin Valley covers 341,523 acres, priority zone 1

wildfires occur annually within priority area 1. However, most of these fires are quite small. In fact, less than 100 acres burns in zone 1 of Hamlin Valley in a typical year. However, in 2002, one fire burned 4,550 acres. In 2012, another fire

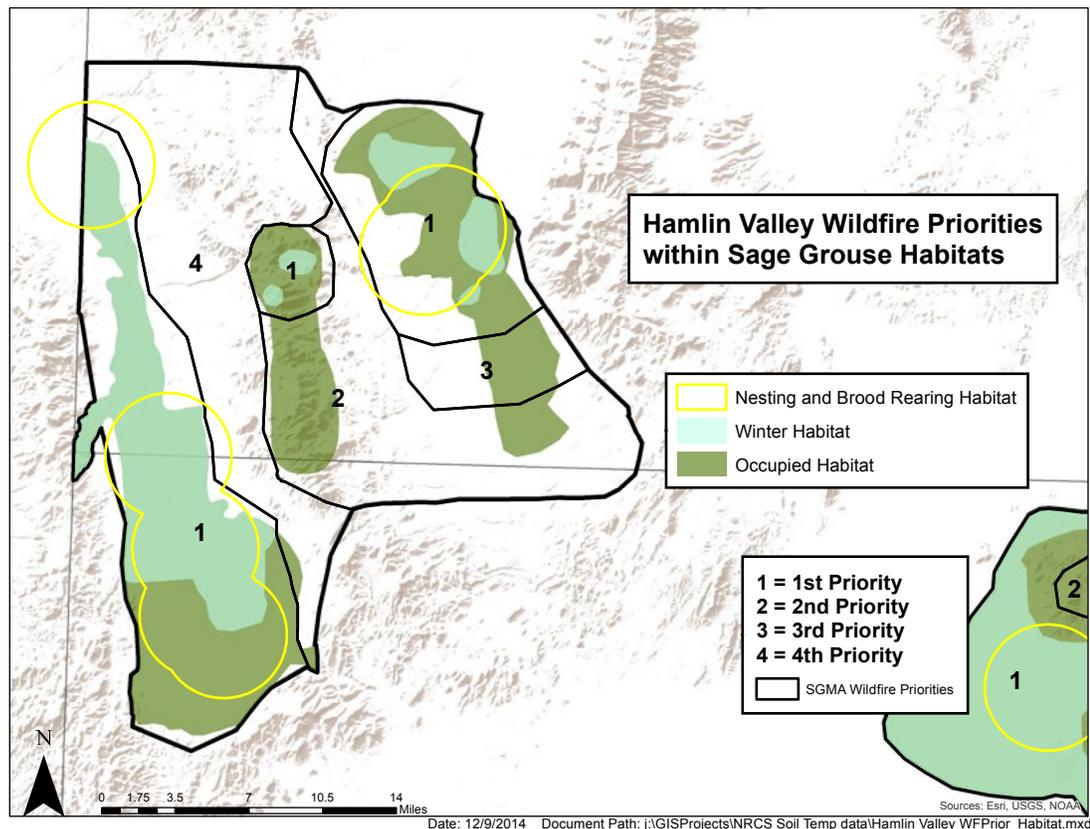


Figure 20 - One-hundred percent of leks, nesting/brood-rearing habitat and most key winter ranges are located in zone 1. Zones 2 and 3 contain some general habitat as well as opportunity areas. Zone 4 is primarily non-habitat.

UTAH SAGE-GROUSE CONSERVATION STRATEGIES

burned approximately 8,500 acres. These two fires account for over 96% of the acreage burned in priority area 1 of Hamlin Valley from 1995-2012. While wildfire is not a major concern within zone 1, prioritization of zone 1 protects key habitat areas and provides an opportunity to reduce the incidence of large fires and overall acreage-burned within Sage-grouse habitat in Hamlin Valley.

Zone 2 encompasses an area of general habitat between the populations on the eastern and

western portions of the Hamlin Valley SGMA. In an 18 year period (from 1995-2012), there were 131 fires in zone 2. However, soil temperature and moisture regimes and existing wildfire-suppression efforts resulted in just 340 acres burned during this 18-year period. While this area contains some seasonal habitat, it primarily consists of conifer stands that do not provide important habitat for Sage-grouse. It is important to control fires in zone 2 to prevent catastrophic wildfires which could burn into zone 1. Zone 2

also includes opportunity areas of possible habitat. Removal of conifers in these areas can increase the amount of available habitat for Sage-grouse as long as projects are conducted in areas adjacent to existing Sage-grouse populations, with adequate water and other habitat characteristics. Similar areas in other parts of Utah are being utilized by Sage-grouse within months of the completion of those restoration projects.

Zone 3 and zone 4 have very few wildfires. Zone 3 has had virtually no large fires in an 18-year period. Zone 4 represents non-habitat because of its geophysical characteristics.

Conifer removal strategies can provide additional protections for Sage-grouse habitat in Hamlin Valley. Areas planned for conifer removal are adjacent

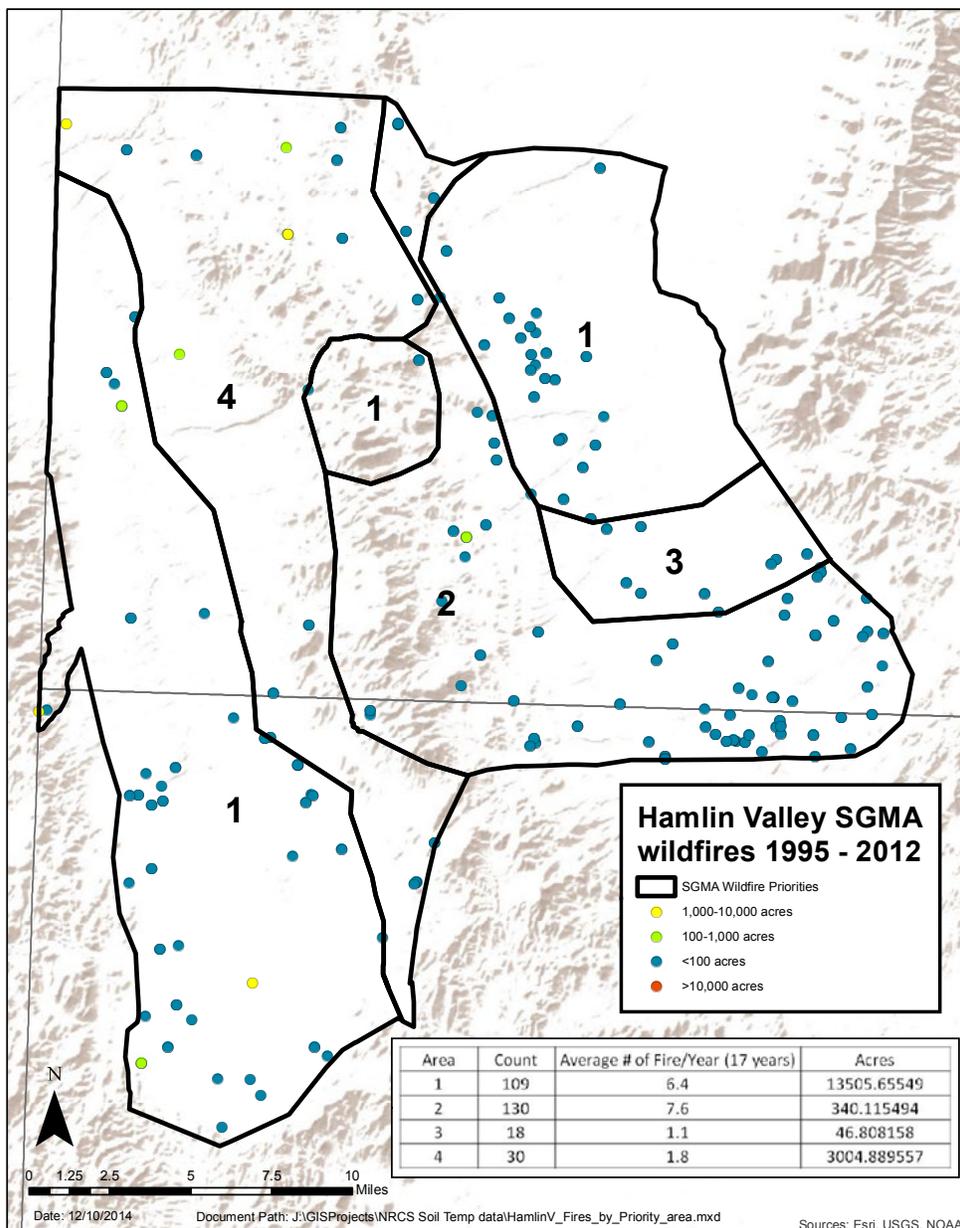


Figure 21 - By reducing the incidence of large fires in zones 1, acreage burned can be improved by more than 90% in areas that hold leks and the nesting/brood rearing habitat for 100% of Sage-grouse in the Hamlin Valley SGMA.

UTAH SAGE-GROUSE CONSERVATION STRATEGIES

to Sage-grouse leks, nesting/brood-rearing and important winter range. Typical of desert shrub habitats, the areas suitable for Sage-grouse tend to be fairly localized. Removing conifers from areas adjacent to these habitats helps provide

buffers that further insulate Sage-grouse populations from the threat of wildfire. Conifer removal and other habitat-restoration efforts can also improve the quality of the habitat for Sage-grouse and its resiliency to wildfire. A total of

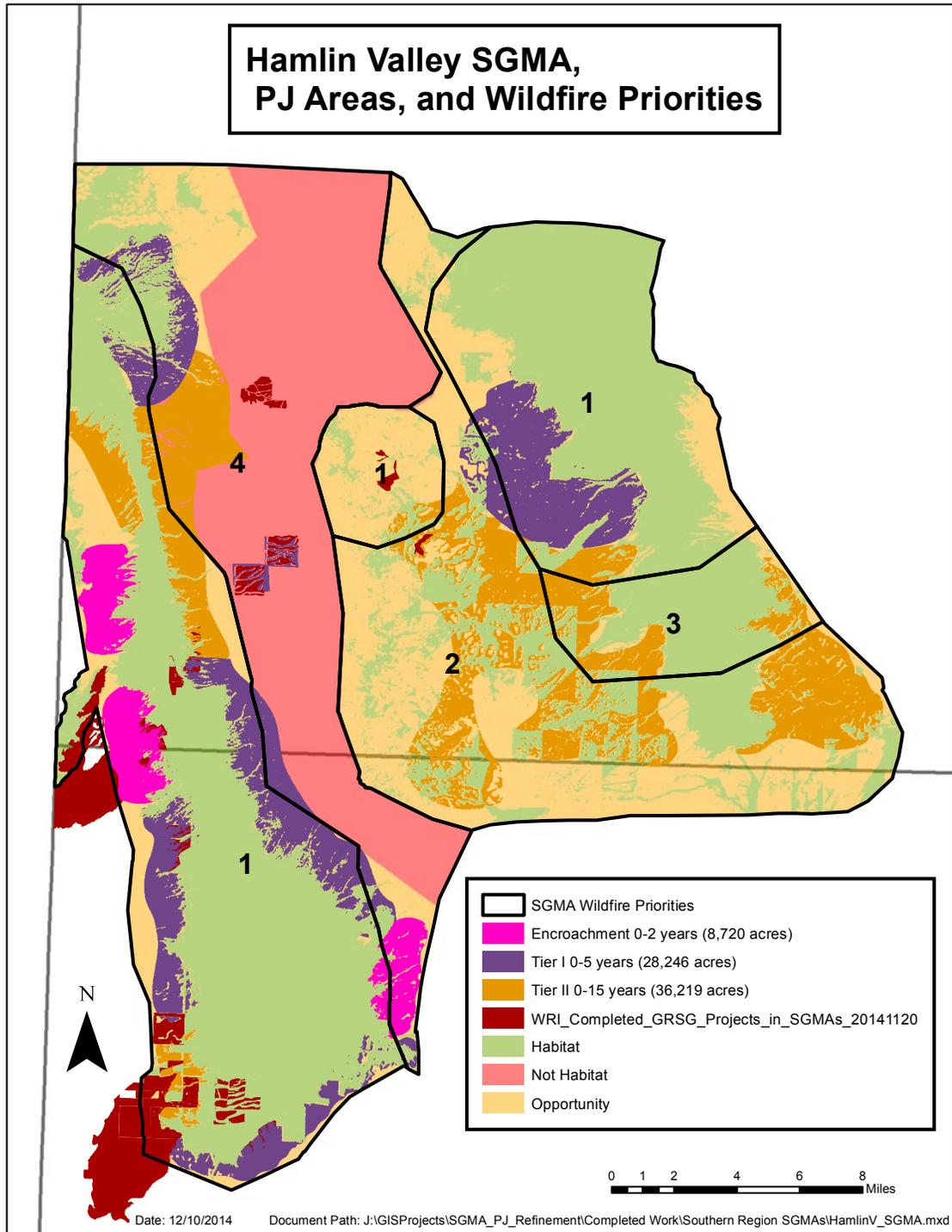


Figure 22 - Conifer removal in areas of leks, nesting/brood rearing habitat and key winter range are a priority in Hamlin Valley.

UTAH SAGE-GROUSE CONSERVATION STRATEGIES

269,595 acres (roughly 79% of the Hamlin Valley SGMA) are managed by the BLM. This means that NEPA, funding and regulatory restrictions will need to be addressed as part of these pinyon-juniper removal efforts.

95% in the areas that are key to survival of 100% of Sage-grouse in the Hamlin Valley SGMA. Proactive conifer removal and habitat-restoration efforts will also help reduce the threat of wildfire in the Hamlin Valley SGMA.

Hamlin Valley Conclusion

Spatial threat analysis illustrates that using a priority system for prevention treatments and rapid response strategies in difficult fire years can reduce the acreage burned by wildfire by up to

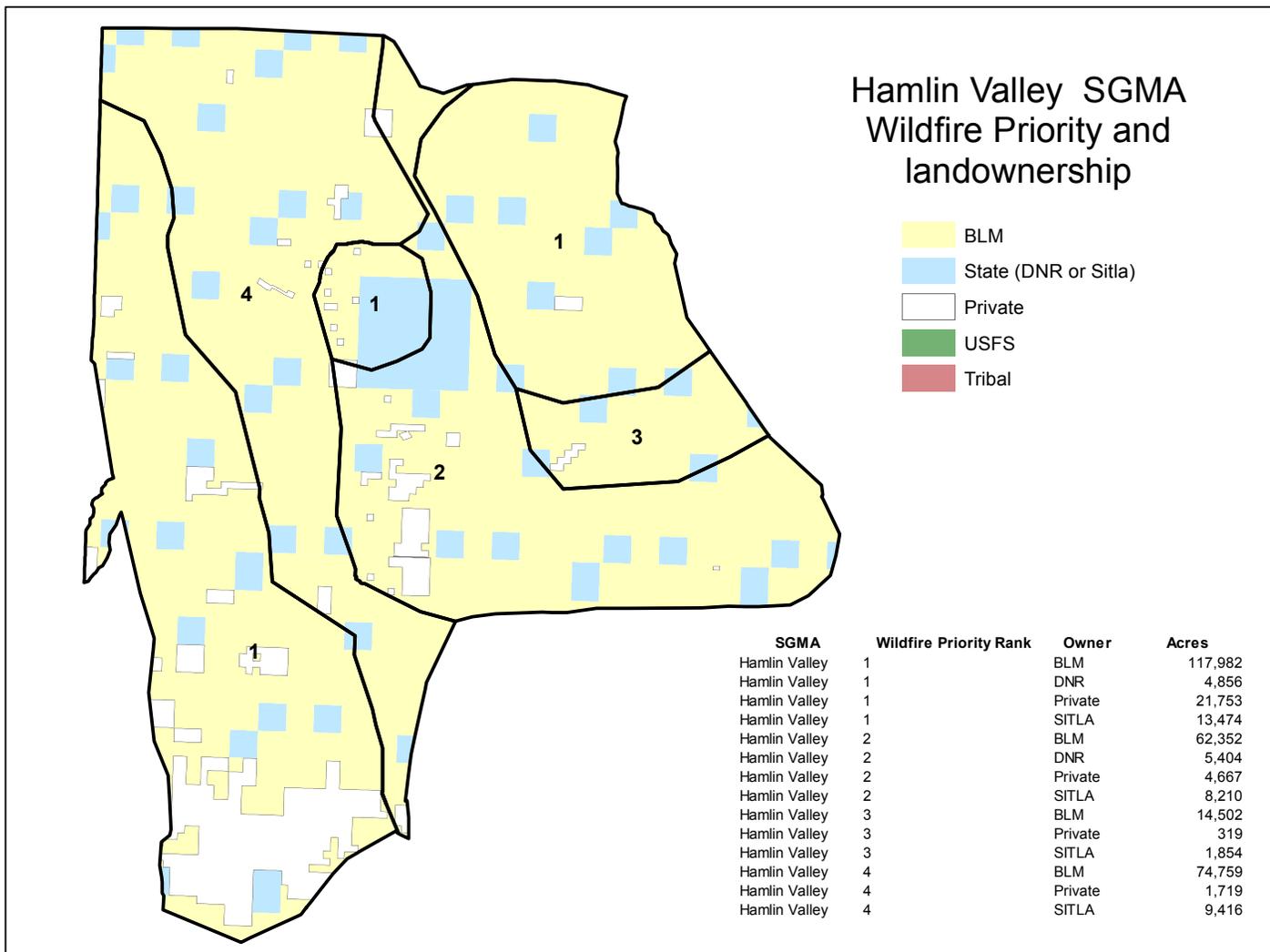


Figure 23 - Lands managed by the BLM comprise the majority of the Hamlin Valley SGMA.

Bald Hills

Overview

In 2007, the Milford Flats Fire burned 357,000 acres in the area adjacent to the Bald Hills SGMA. This was one of the largest recorded fires in Utah history. The Milford Flat Fire underscores the importance of fire prevention, suppression and rehabilitation. Like other SGMA's in which Sage-grouse live, Bald Hills SGMA is primarily a desert shrub ecosystems. In these desert shrub ecosystems Sage-grouse populations are fairly localized in areas of suitable habitat. In the Bald Hills SGMA, 100% of the leks, nesting/brood-rearing and the key winter habitat are located in zones 1 and 2. Zone 1 contains most of the

important winter range, the leks, and nesting/ brood-rearing habitat for most of the Sage-grouse in Bald Hills. Zone 2 contains nesting/brood-rearing habitat for the remainder of the Sage-grouse in the SGMA. For this reason, fire suppression is prioritized for both zones 1 and 2, with a higher priority on zone 1 in difficult triage situations. This does not mean that zone 2 is not important, but it reflects the reality that a large fire in zone 1 is more likely to impact Sage-grouse populations than a wildfire in zone 2.

Zone 3 also contains some general Sage-grouse habitat, along with areas of non-habitat. Zone 4 is predominantly marginal habitat or non-habitat for Sage-grouse. While zones 3 and 4 are prioritized for wildfire treatment, they are assigned a lower

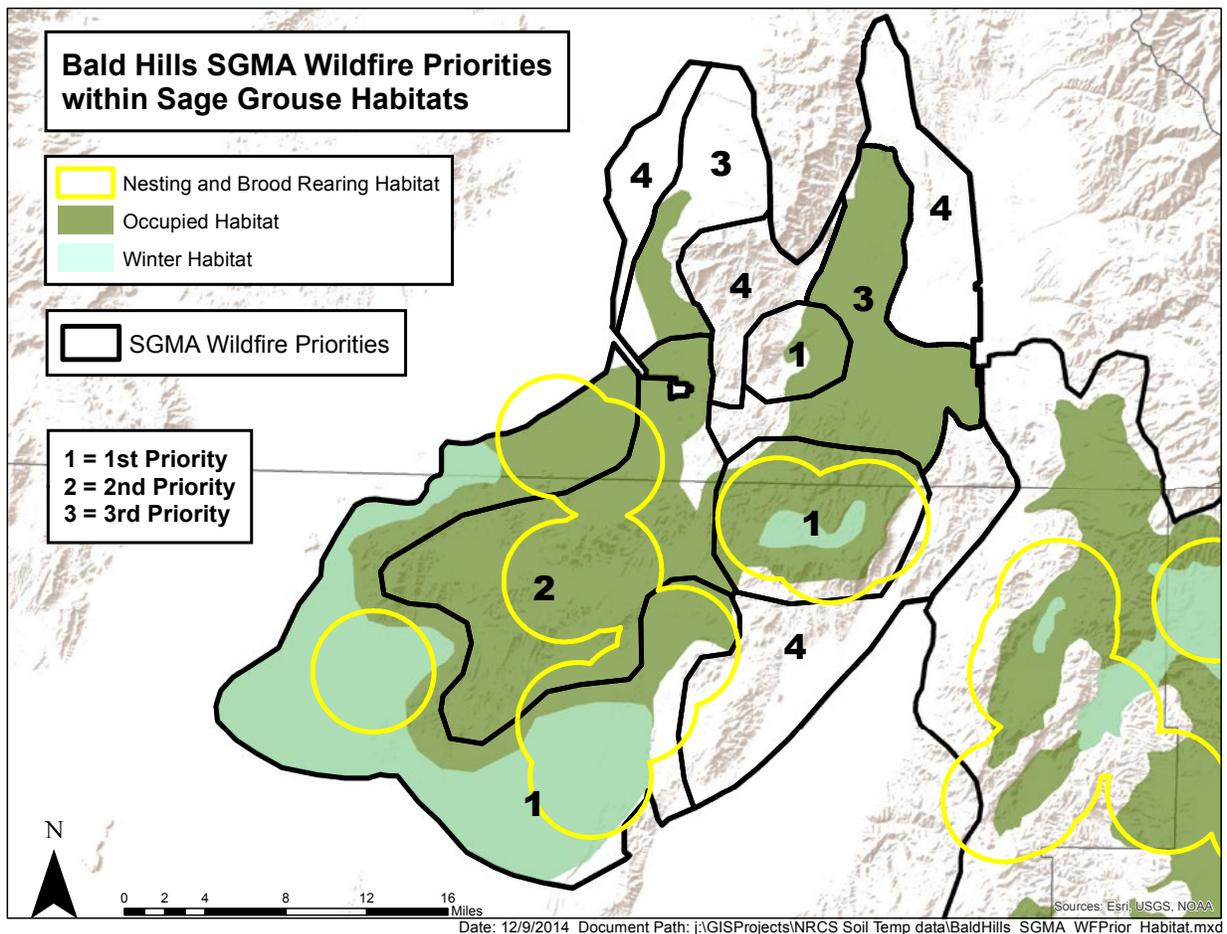


Figure 24 - One-hundred percent of leks, nesting/brood-rearing habitat and most key winter range are located in zones 1 and 2. A greater percentage of leks are found in zone 1 than in zone 2 along with key winter habitat. Zones 3 contains no leks but has some general habitat. Zone 4 is primarily marginal habitat or non-habitat.

UTAH SAGE-GROUSE CONSERVATION STRATEGIES

priority than zones 1 and 2 due to the lack of leks, nesting/brood rearing and key winter habitat.

Detailed Analysis

The average number of wildfires is higher in the Bald Hills SGMA than in any other SGMA in Utah. In most years, these fires do not become a

problem. Even in difficult wildfire years, most of the fires are suppressed without burning large acreage. However, a handful of large fires account for most of the acreage burned in zones 1 and 2. Six fires in zone 1 and five fires in zone 2 account for more than 87% of the acreage burned by wildfire in zones 1 and 2 over the 18-year period

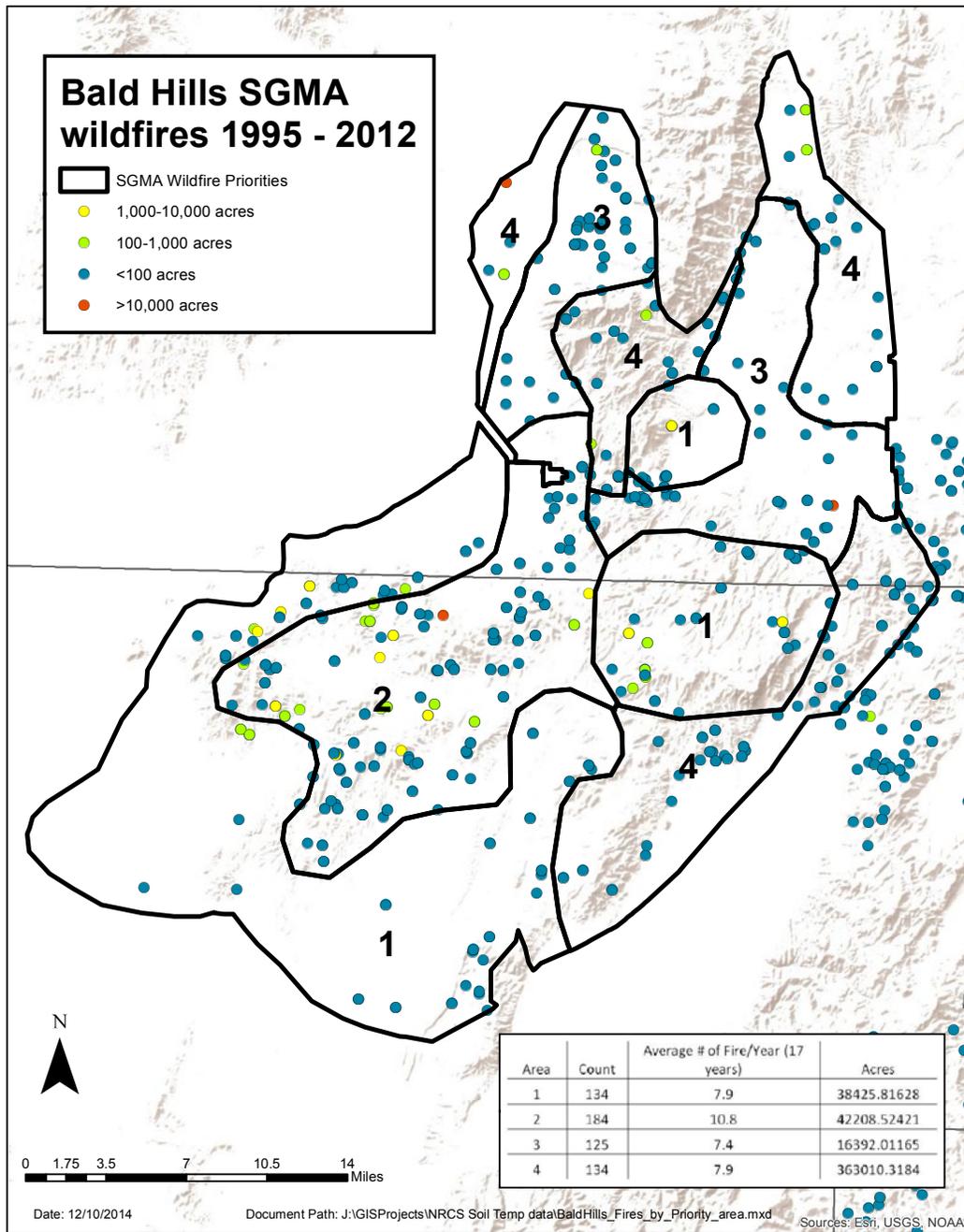


Figure 25 - By reducing the incidence of large fires in zones 1 and 2, the acreage burned can be improved by up to 85% in areas that hold leks and the nesting/brood rearing habitat for 100% of the Sage-grouse in the Bald Hills SGMA.

UTAH SAGE-GROUSE CONSERVATION STRATEGIES

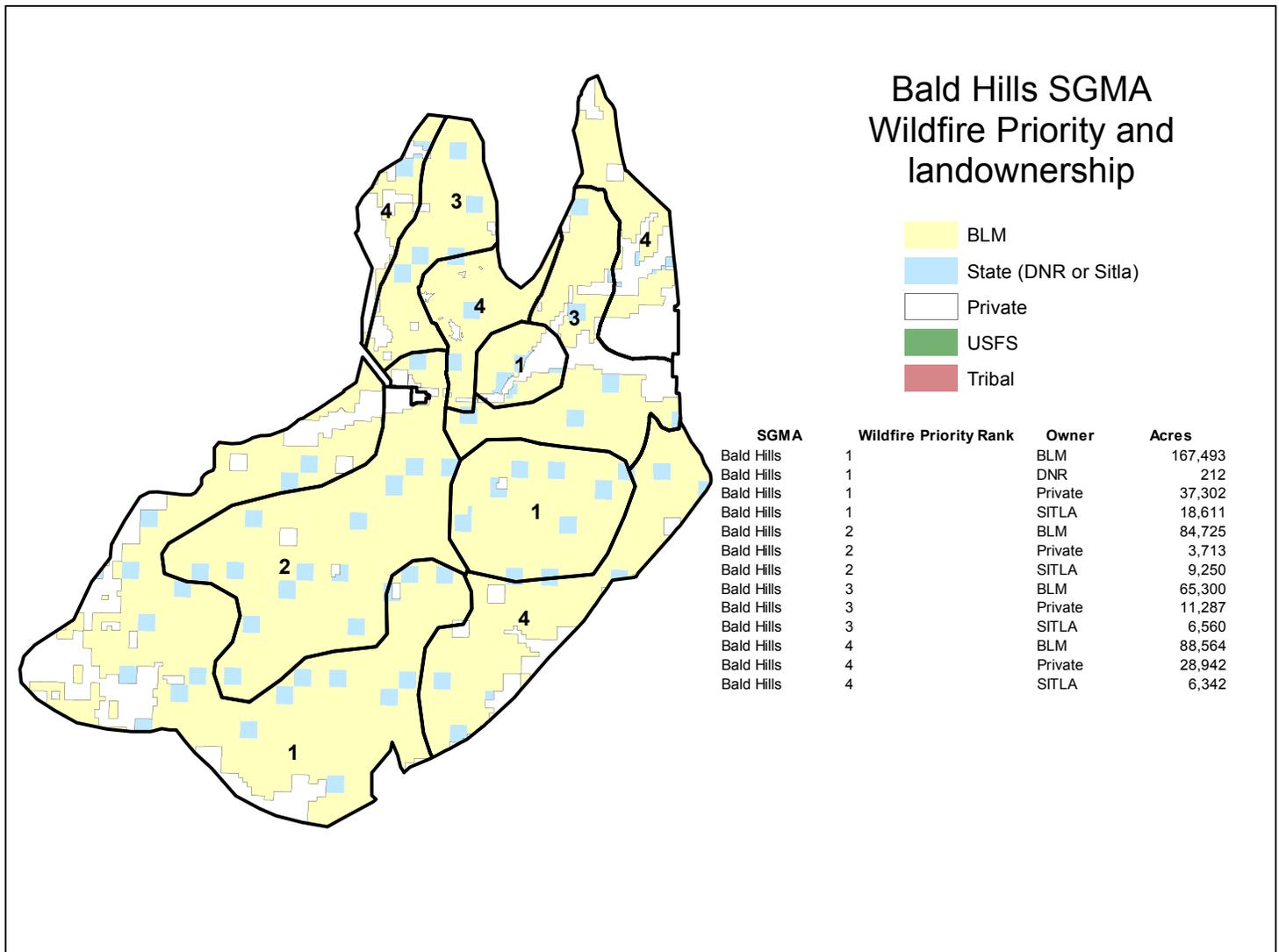
from 1995-2012. What this means is that by reducing the incidence of large fires in zones 1 and 2, the threat of wildfire can be reduced by up to 85% in areas that contain leks and nesting/brood rearing habitat for 100% of Sage-grouse in the Bald Hills SGMA. This will also protect the key winter habitat in the Bald Hills SGMA.

Land Ownership

Most of the large fires within the Bald Hills SGMA occur on land managed by the BLM. This is likely the result of a variety of factors. First, the BLM

manages 77% of the acreage within the Bald Hills SGMA. the state land is landlocked by BLM controlled land. Additionally, the higher elevation areas are largely BLM controlled, and these are places where there may be a higher number of lightning strikes.

Because much of the Bald Hills SGMA is managed by the BLM, coordination on pinyon/juniper removal, fire-breaks, greenstripping and suppression efforts will be important. While past wildfires have already removed large swaths of



Date: 12/10/2014 Document Path: J:\GISProjects\NRCs Soil Temp data\SGMA Wildfire Priorities\Landownership_WP\Bald Hills.mxd

Figure 26 - The majority of the Bald Hills SGMA is managed by the Bureau of Land Management (BLM). State land is landlocked within BLM acreage. Because most of the acreage burned occurs in these areas, coordination will be needed to address the threat of wildfire within the Bald Hills SGMA.

UTAH SAGE-GROUSE CONSERVATION STRATEGIES

pinyon/juniper growth, mechanical removals in areas adjacent to key leks, nesting/brood-rearing habitats and winter range is still needed to protect Sage-grouse within the SGMA.

Prevention

Because of the large number of fires and the fact that difficult wildfire conditions are not uncommon, key pre-suppression strategies can be helpful. Conifer removal strategies, firebreaks and greenstripping are not only useful to aid in suppression efforts, they can also help prevent fires from affecting the most important habitats for

Sage-grouse in the Bald Hills SGMA. As previously discussed, regulatory hurdles (such as NEPA assessments and other approvals) can delay the timing and possibility of pre-suppression treatment projects. The BLM has been implementing firebreaks and greenstripping over the past several years. A map showing conifer removal strategies is depicted below (Figure 27). A comparison with leks and nesting/brood-rearing habitat shows the importance of conifer removal to reduce the frequency and intensity of large fires in these areas.

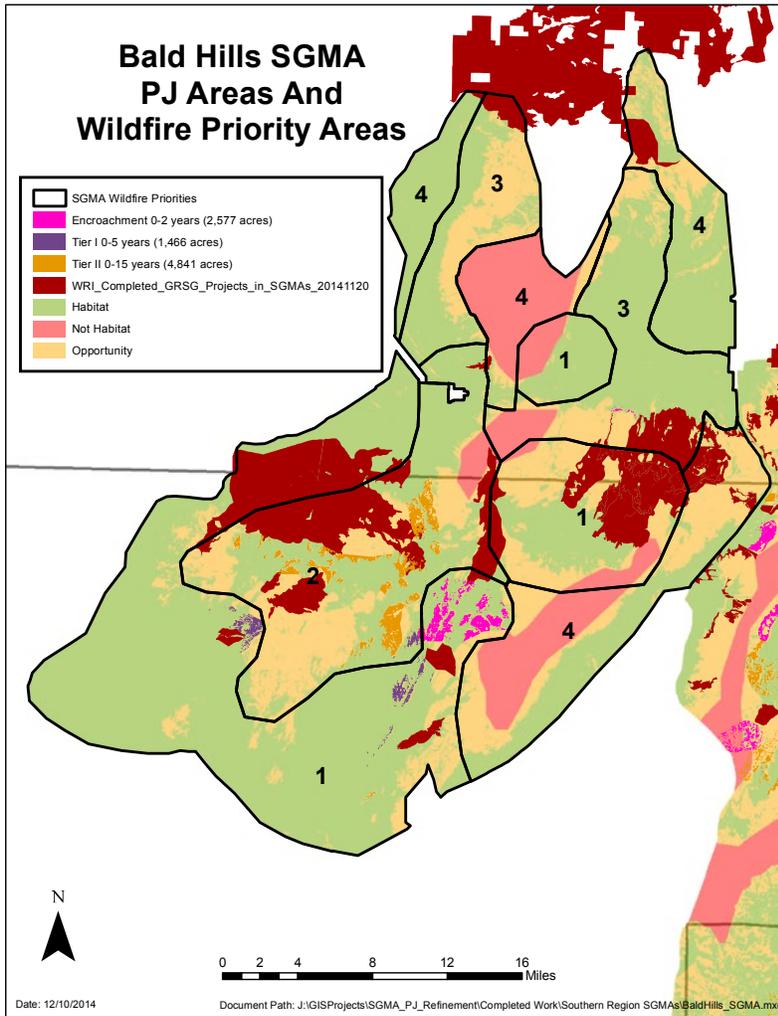


Figure 27 - conifer removal in areas of leks and nesting/brood rearing habitat are helpful to protect Sage-grouse populations in the Bald Hills SGMA.

Sheeprock Mountains

Overview

Wildfire is not a major threat to Sage-grouse populations and core habitat within the Sheeprock Mountains SGMA. All leks, nesting/brood-rearing habitats and key winter range are located within the 172,459 acres comprising zone 1. The remainder of the general winter habitat is found in zone 2.

From 1995-2012, wildfires burned 1,598 acres in zone 1. This is an average of less than 100 acres per year. This is not unexpected given the soil/temperature moisture types, elevation and vegetation within zone 1. Existing wildfire control

efforts within zone 1 are sufficient to maintain wildfires within acceptable thresholds.

While wildfires burned quite a few acres within zone 2, the large amount of general winter habitat within zone 2 suggests that the existing level of wildfire should not be limiting. Nevertheless, by prioritizing wildfire control in zone 2, enhanced prevention and suppression strategies could substantially decrease the number of acres burned. While 31,250 acres burned in zone 2 from 1995-2015, two fires in 1998 (of 12,894 acres and 13,927 acres, respectively) accounted for 86% of acres burned. These fires were not in areas that would have a substantial impact on Sage-grouse

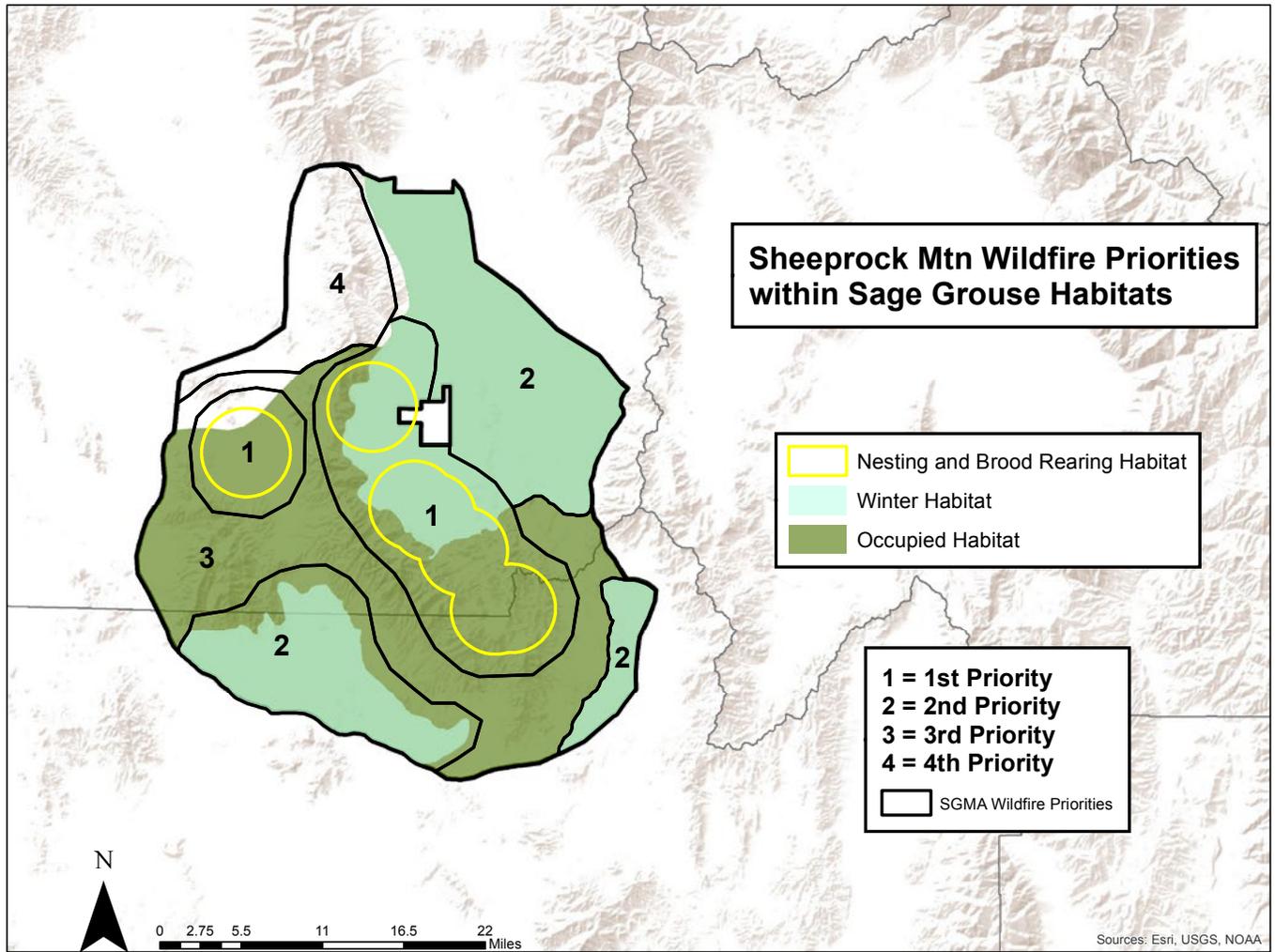


Figure 28 - 100% of Sage-grouse leks and nesting/brood rearing habitat are located within the priority zone 1 within the Sheep Rocks SGMA. The low incidence of wildfire and lack of large wildfires illustrate that existing habit should be sufficient to protect Sage-grouse populations in this SGMA.

UTAH SAGE-GROUSE CONSERVATION STRATEGIES

populations. Nevertheless, prevention efforts including conifer removal and enhanced suppression strategies should be able to reduce the impact of wildfires within the Sheeprock Mountain SGMA. An additional 30,435 acres of conifer-removal work is planned in the Sheeprock Mountains SGMA over the next few years.

Wildfire is not a major threat in zones 3 and 4. Between 1995 and 2012, 3,093 acres burned in zone 3, while 2,892 burned in zone 4. Because these areas contain general habitat, opportunity areas and non-habitat, it makes sense to prioritize these areas behind zones 1 and 2.

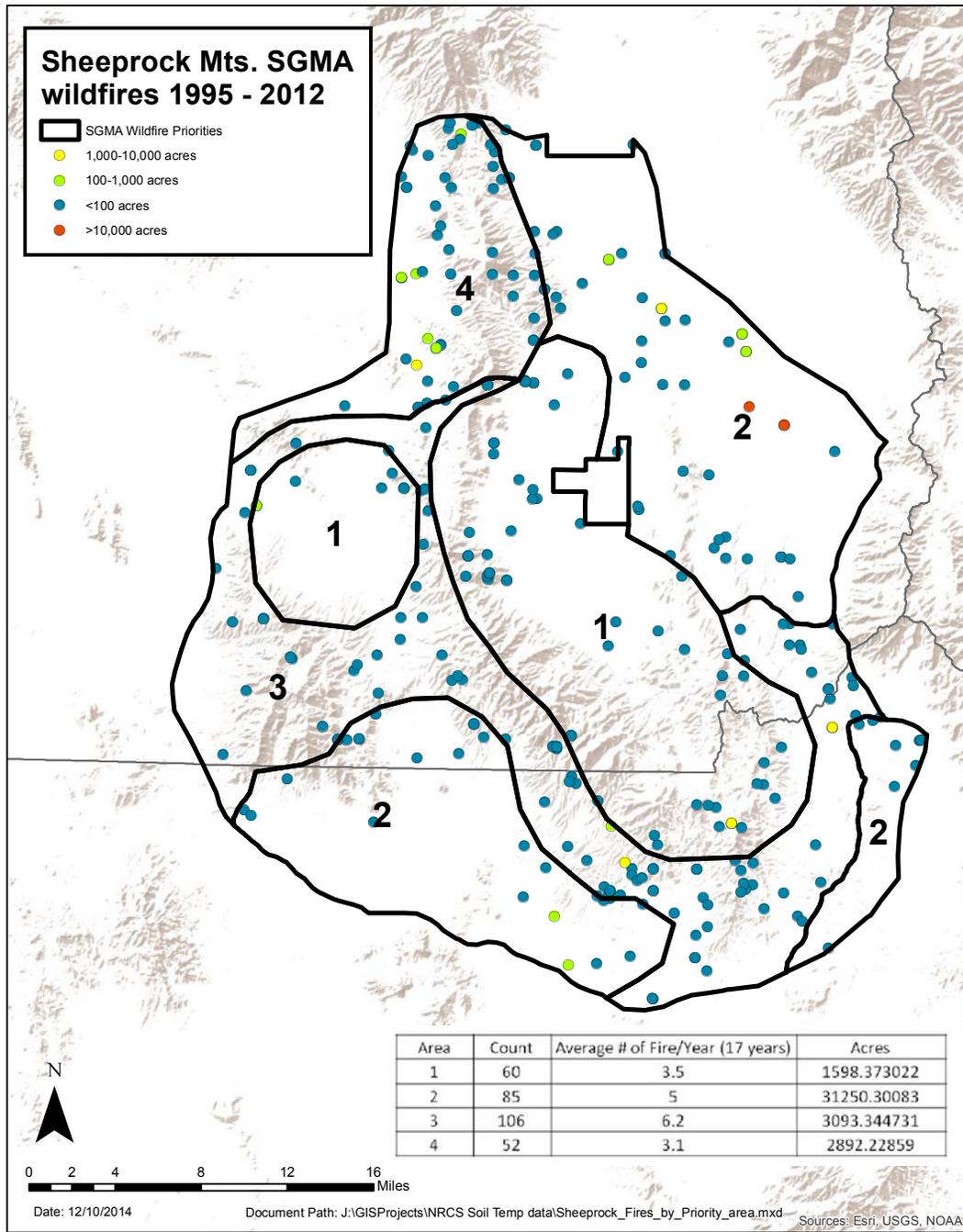


Figure 29 - Existing wildfire control efforts are effectively controlling wildfires within priority zone 1 which contains 100% of the leks and nesting/brood rearing habitat for the Sheeprock Mountains SGMA. Only 1,598 acres burned from 1995-2012 in zone 1, primarily during one fire.

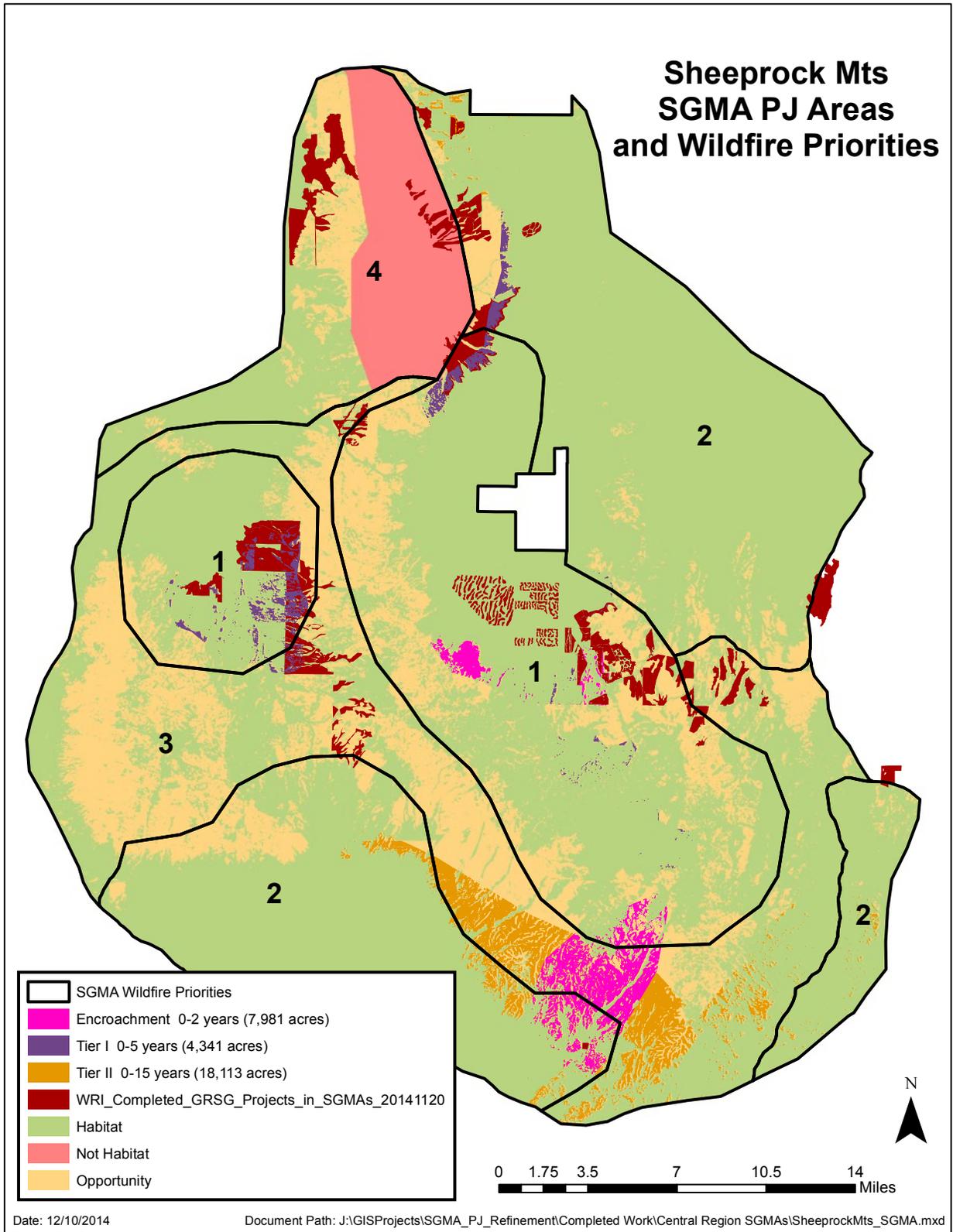
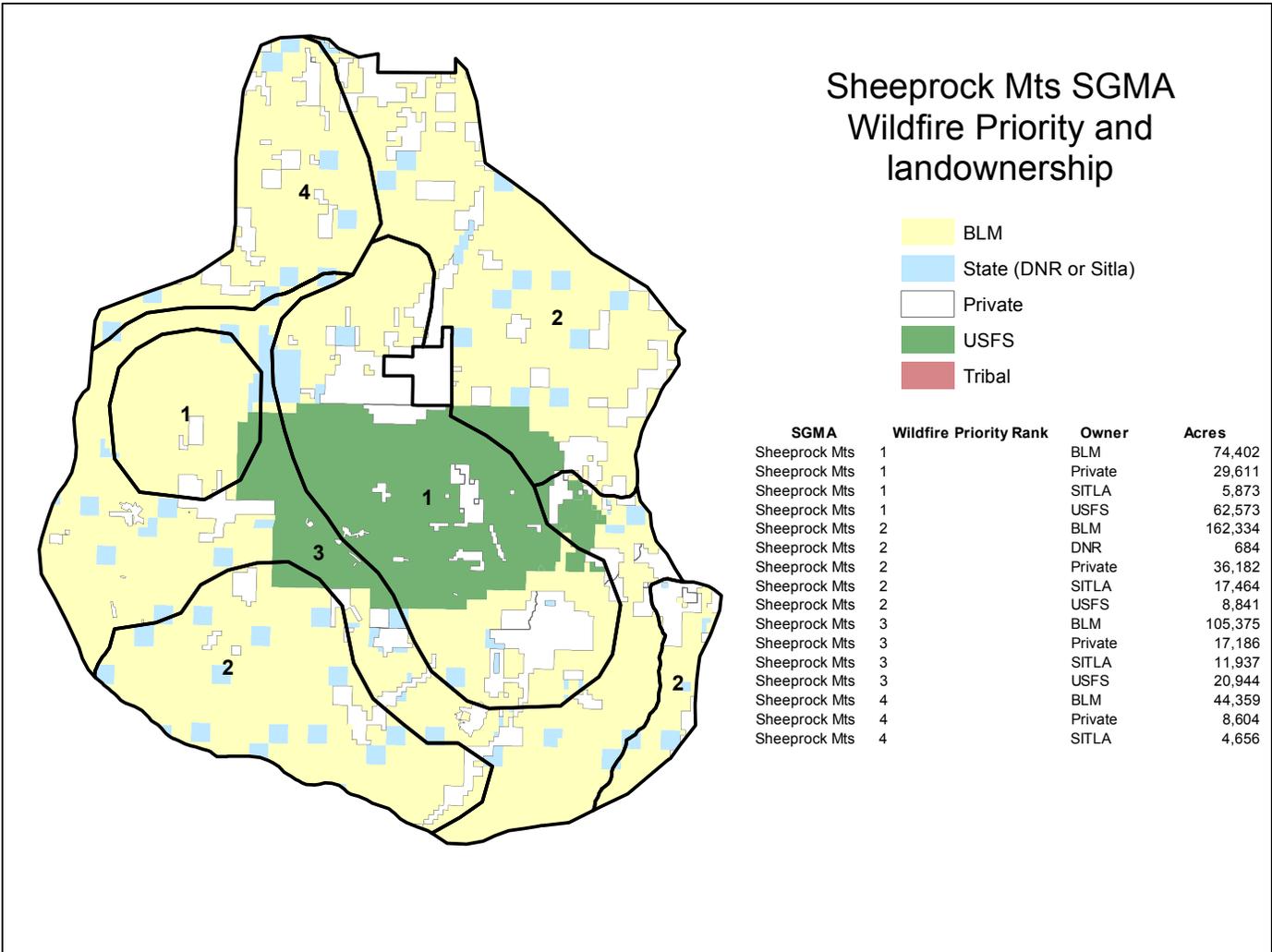


Figure 30 - conifer removal in areas of leks and nesting/brood rearing habitat are helpful to protect Sage-grouse populations in the Sheeprock SGMA. These projects also increase available habitat in key areas.



Date: 12/10/2014 Document Path: J:\GISProjects\NRCS Soil Temp data\SGMA Wildfire Priorities\Landownership_WP\Sheeprock.mxd

Figure 31 - land managed by the Bureau of Land Management and forest service comprise the majority of the Sheeprock SGMA.

Ibapah

Overview

Wildfire is not a major threat within the Ibapah SGMA. In fact, Ibapah averages less than one fire per year across the entire SGMA. Like other SGMA's that contain primarily desert shrub habitat, Ibapah has Sage-grouse populations and core sage-grouse habitat that are quite localized. In fact, 100% of leks, nesting/brood-rearing and key winter range is contained within the 51,299 acres in zone 1. Soil and temperature regimes within portions of the Ibapah SGMA suggest that

providing enhanced prioritization of Ibapah SGMA makes sense.

Conifer removal is an important strategy for further reducing the threat of large wildfires within the Ibapah SGMA. Nearly 3,900 acres of pinyon-juniper removal are planned in coming years, and much of this will occur in zone 1. Upon completion of these pinyon-juniper removal projects very few conifers will remain within zone 1. This should further reduce the likelihood of large fires, while also making fires easier to suppress when they do occur.

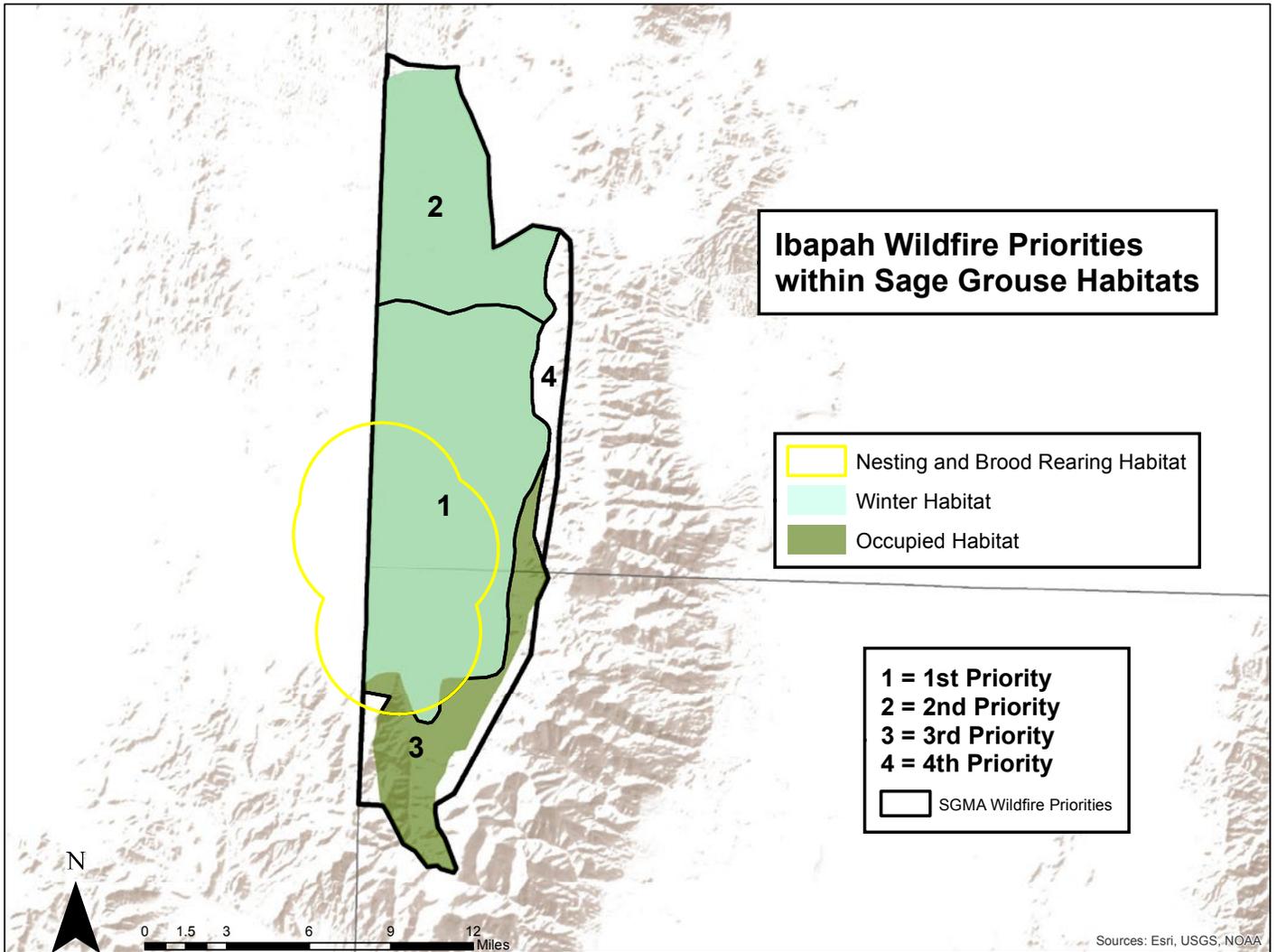
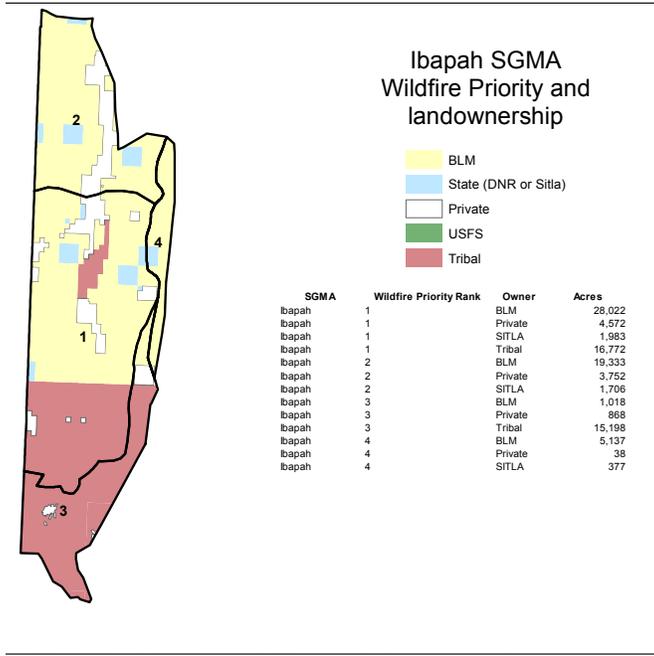
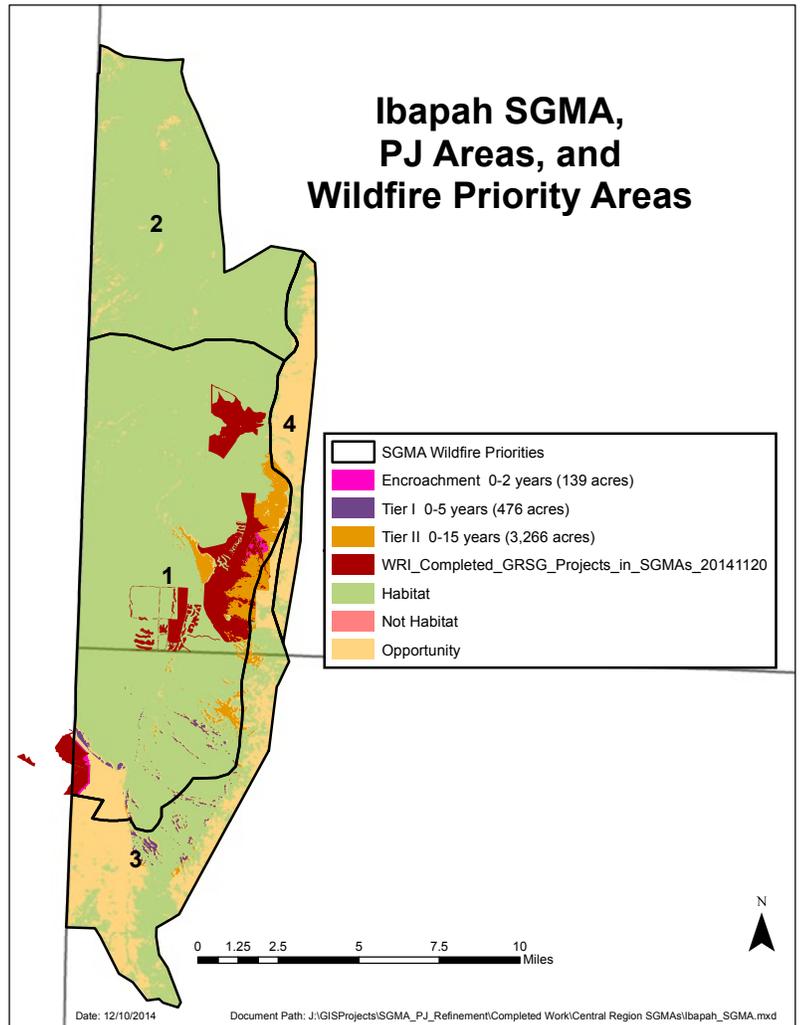


Figure 32 - One-hundred percent of Sage-grouse leks and nesting/brood-rearing habitats are located in the priority zone 1 of the Ibapah SGMA. The low incidence of wildfire and lack of large wildfires illustrate that existing habit should be sufficient to protect Sage-grouse populations in this SGMA.



Document Path: J:\GISProjects\NRCS Soil Temp data\SGMA Wildfire Priorities\Landownership_WP\Ibapah.mxd



Date: 12/10/2014 Document Path: J:\GISProjects\SGMA_PJ_Refinement\Completed Work\Central Region SGMA\Ibapah_SGMA.mxd

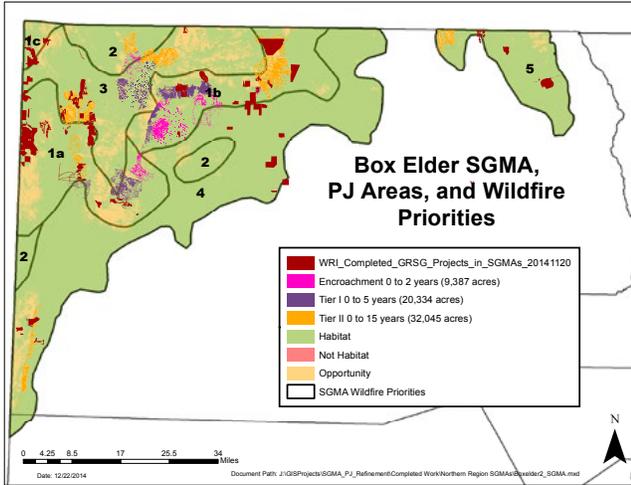
Figure 343 - The majority of the Ibapah SGMA is managed by the BLM while acreage in the southern portion is Tribal Land. Coordination will be helpful in implementation of conifer-treatment and fire-control projects within the Ibapah SGMA.

Figure 34 - Conifer removal near leks and nesting/brood rearing habitat will help protect Sage-grouse populations in the Ibapah SGMA. These projects also increase available habitat in key areas.

Conclusion Conservation for Long-Term

The following is a brief overview of habitat enhancement and wildfire prevention strategies for each Utah SGMA:

Box Elder - Highest Priority

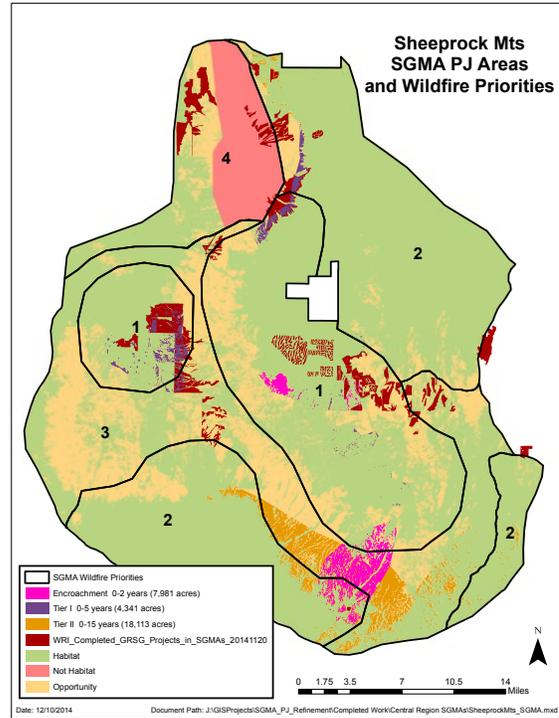


Past habitat work/conifer removal: 91,185 acres

Projected work to be completed in next 10-15 years: 61,766 acres

Total habitat restoration: 152,951 acres

Sheep Rock Mountains - Elevated Priority

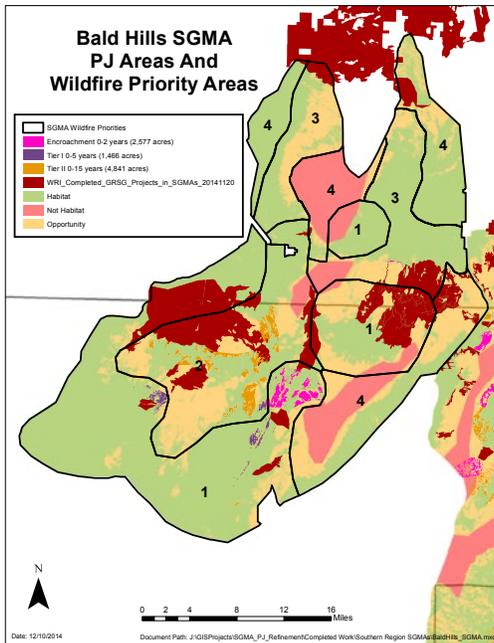


Past habitat work/conifer removal: 22,515 acres

Projected work to be completed in next 10-15 years: 30,435 acres

Total habitat restoration: 52,950 acres

Bald Hills - Highest Priority



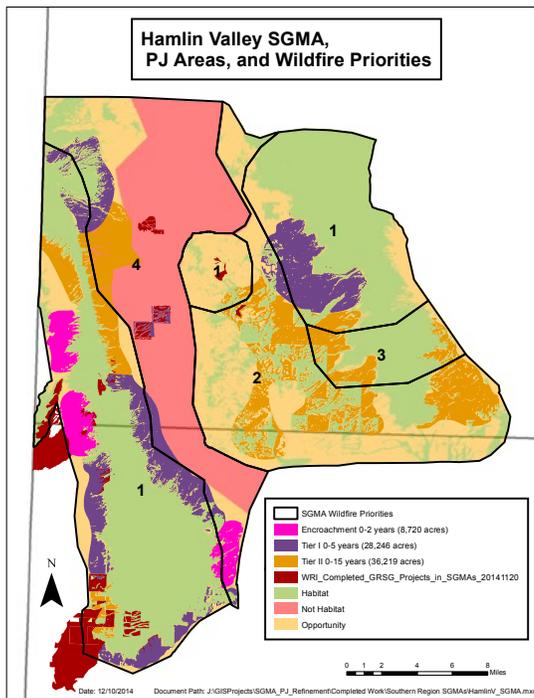
(Bald Hills Continued)

Past Habitat work/conifer removal: 68,799 acres

Projected work to be completed in next 10-15 years: 8,884 acres

Total habitat restoration: 77,683 acres

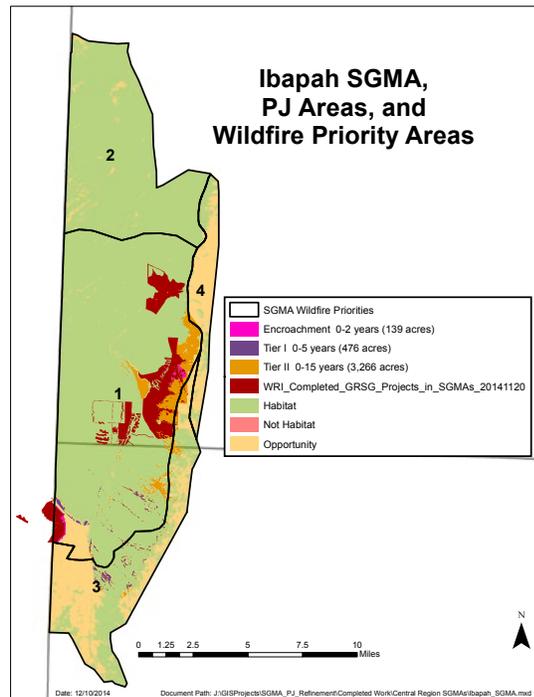
Hamlin Valley - Elevated Priority



Past habitat work/conifer removal: 9,839 acres
 Projected work to be completed in next 10-15 years: 73,185 acres
 Total habitat restoration: 83,024 acres

Conclusion

While wildfire is a natural occurrence in Western landscapes, changes in wildfire frequency and severity are a concern for Greater Sage-grouse. In Utah, wildfire impacts are primarily seen on five of Utah’s SGMAs. These areas contain 26% of the state’s Sage-grouse. In other words, most of the Utah’s Sage-grouse populations are not in high-risk wildfire areas. In the SGMA’s that have an elevated priority, Utah’s addresses wildfire threats by implementing proven proven prevention, suppression and rehabilitation solutions. State and federal partners have a track record of cooperation, working together on landscape-scale



Ibapah - Elevated Priority

Past Habitat Work/Conifer Removal: 7,413 acres
 Projected work to be completed in next 10-15 years: 3,881
 Total habitat restoration: 11,294 acres

prevention and rehabilitation projects to reduce the threat of wildfire in the state of Utah. Since 2006, more than 560,000 acres of Sage-grouse habitat restoration projects have been completed. Enhanced suppression strategies can further reduce the threat of wildfires in these higher-risk SGMAs. This will be an area of focus particularly in Box Elder and Bald Hills SGMAs where protection from wildfires is a top priority. It will also be a priority in the Ibapah, Hamlin Valley and Sheeprock Mountain SGMAs.

Sources: [NRCS, UT DWR]

UTAH CONSERVATION STRATEGIES *(CONT.)*

Oil & Gas Development

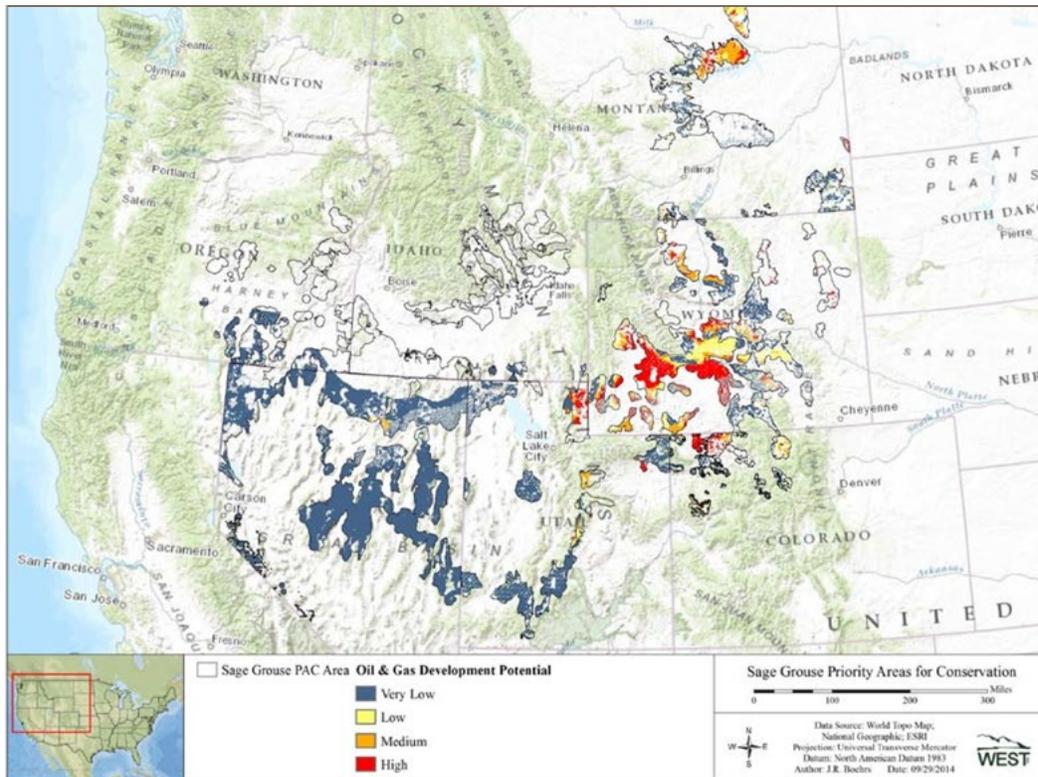


Figure 10. While oil and gas development is a significant concern in portions of the range, oil and gas development is not a significant concern in Utah's SGMAs (Copeland et al 2009).

Oil and Gas wells are not a threat within Utah's Sage-grouse Management Areas. 98% of the acreage within Utah's SGMAs, or 7.29 million acres, do not correspond with oil and gas fields/units. There are only approximately 189 known oil and gas wells located on these 7.29 million acres. This shows just how little actual oil and gas development has occurred on the vast majority of core Sage-grouse habitat within the state of Utah. Utah's Plan provides a framework for balancing the need for long-term protection

of Sage-grouse populations with responsible energy development. Utah Governor Gary Herbert signed an executive order on February 25, 2015 addressing the state's regulatory mechanisms for oil and gas development in Sage-grouse habitat. Given the limited and localized nature of existing oil and gas development within Utah's SGMAs, Utah's Plan is more than sufficient to ensure long term conservation of Greater Sage-grouse in the state.



OIL AND GAS DEVELOPMENT

Overview: *Oil and gas wells are not a major threat to Sage-grouse in the state of Utah. Ninety-eight percent of the acreage within Utah's SGMAs, or 7.29 million acres, does not correspond with oil and gas fields/units. There are approximately 189 known oil and gas wells located on these 7.29 million acres. The Conservation Plan for Greater Sage-Grouse in Utah provides a framework for balancing the long-term protection of Sage-grouse populations with responsible energy development. Given the limited and localized nature of existing oil and gas development within Utah's SGMAs, Utah's plan is more than sufficient to protect 94% of Utah's Greater Sage-grouse from the effects of oil and gas development.*



Affected SGMAs: Rich-Morgan-Summit, Uintah and Carbon.

Oil and Gas Development in Sage-Grouse Habitat

Utah has robust industries for oil and gas in several regions of the state. Ensuring that oil and gas development does not unnecessarily impact healthy Sage-grouse populations is an area of focus for the Conservation Plan for Greater Sage-Grouse in Utah (the Conservation Plan), adopted in February 2013. The best Sage-grouse habitat in the State of Utah is located within eleven Sage-Grouse Management Areas (SGMAs) established in the Conservation Plan. There is very little current

oil and gas development within these SGMAs. In fact, most of the oil and gas wells are found on oil and gas fields that comprise just 2% of the acreage within Utah's SGMAs. There are just 189 known oil and gas wells on the remaining 98% of the acreage. Considering that the SGMAs hold 94% of the state's Sage-grouse on 7.4 million acres, the Conservation Plan properly balances responsible energy development with long-term conservation of Greater Sage-grouse. Existing oil and gas development has had little or no impact on the vast majority of Sage-grouse populations within Utah's SGMAs. Moreover, a detailed analysis of historic oil and gas development

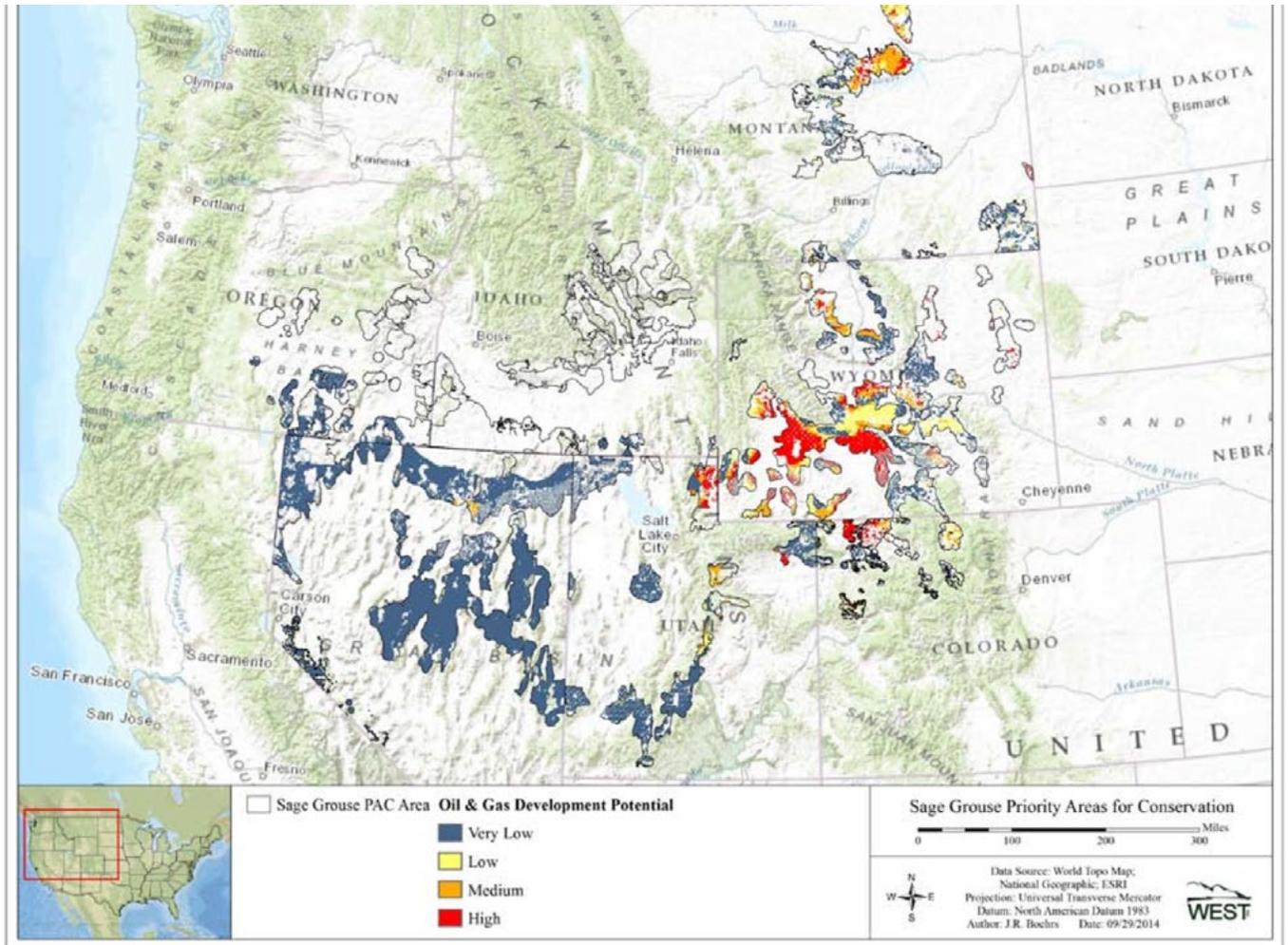


Figure 1: Most of Utah’s SGMA’s are categorized as “very low” development potential for oil and gas. See Figure 3 at <http://westernvaluesproject.org/wp-content/uploads/2014/10/Greater-Sage-Grouse-Priority-Habitats-and-Energy-Development.pdf>

trends, combined with an understanding of the geology of Utah’s SGMA’s, suggests that, within the foreseeable future, oil and gas development will not become a significant issue within the SGMA’s. Nevertheless, the Conservation Plan, includes important provisions to ensure protections for Greater Sage-grouse, now and in the future. It provides a framework for ensuring responsible energy development in Utah’s SGMA’s through the application of buffers, avoidance, minimization stipulations and mitigation, if necessary, due to valid existing rights.

Conservation Objectives Team Report

Representatives from federal and state agencies joined together to develop recommendations for addressing threats to Sage-grouse through updated state management plans. The Conservation Objectives Team Report (COT Report), released in March 2013, includes topics addressing the establishment of Priority Areas for Conservation (PACs) and recommendations regarding oil and gas development. While the recommendations are non-binding, most Sage-grouse states developed some variation of the

recommendations as part of their state Sage-grouse conservation plans. Utah was no exception.

Priority Areas for Conservation and SGMAs

One of the important acknowledgements of the COT Report is that current Sage-grouse numbers and distribution are sufficient to ensure robust Sage-grouse populations. The COT Report’s focus on Priority Areas of Conservation (PACs) as areas where short-term and long-term efforts should be focused to ensure the conservation of Sage-grouse. PACs use the same core area philosophy that underlies Utah’s SGMAs.

The core areas philosophy does not preclude all development, but rather seeks to achieve balance between development and conservation: “Landscape planning to balance wildlife

conservation with resource development...must embrace the social and political realities of the region...Core regions represent a proactive attempt to identify a set of conservation targets to maintain a viable and connected set of populations.” (Knick and Connelly, Studies in Avian Biology, No. 38, page 513, 515) Utah’s SGMA’s were adopted within the COT Report as the PACs in the state of Utah.

Valid Pre-existing Rights

An important acknowledgement in the COT Report is the constitutionally mandated protection for “Valid Pre-existing Rights.” Utah’s SGMAs include several oil and gas fields and approximately 2.5 million acres of private property. These fields include not only oil and gas wells, but also active leases for additional future development. It is also important to note that private property can be leased for future mineral development. These are valid existing rights.

Existing oil and gas fields within Utah’s SGMAs cover 146,364 acres, or 2% of the 7.4 million acres within Utah’s SGMAs. A more in-depth analysis of several oil and gas fields is included on pages 8, 9 and 10 of this document. Several oil and gas fields (and oil and gas units) were included in Utah’s SGMAs primarily because the areas can again serve as unencumbered habitat once wells are no longer in use. Additionally, these areas can be useful for connectivity between SGMAs.

There are just 97 known oil wells and 92 known gas wells within the 7.29 million acres outside of established fields/units within Utah’s SGMAs. However, areas of higher well density among these outliers tend to be localized, and largely correlate with existing fields and units. This limited and localized nature of high well density is not surprising when one understands the nature of the oil and gas reservoirs within Utah’s SGMAs.

Oil and Gas Development in SGMAs

	Nesting/ Brood Rearing Habitat	General Habitat, Opportunity Areas and Non-Habitat
Oil and Gas Fields Units	43,713 acres	102,651 acres
Areas inside SGMAs not having oil and Gas Fields/Units	2,802,034 acres	4,490,933 acres

Figure 2: Approximately 98% of the acreage within Utah’s SGMAs does not correspond with oil and gas fields/units. Very little development occurs on the 7.29 million acres outside of oil and gas fields/units within SGMAs.

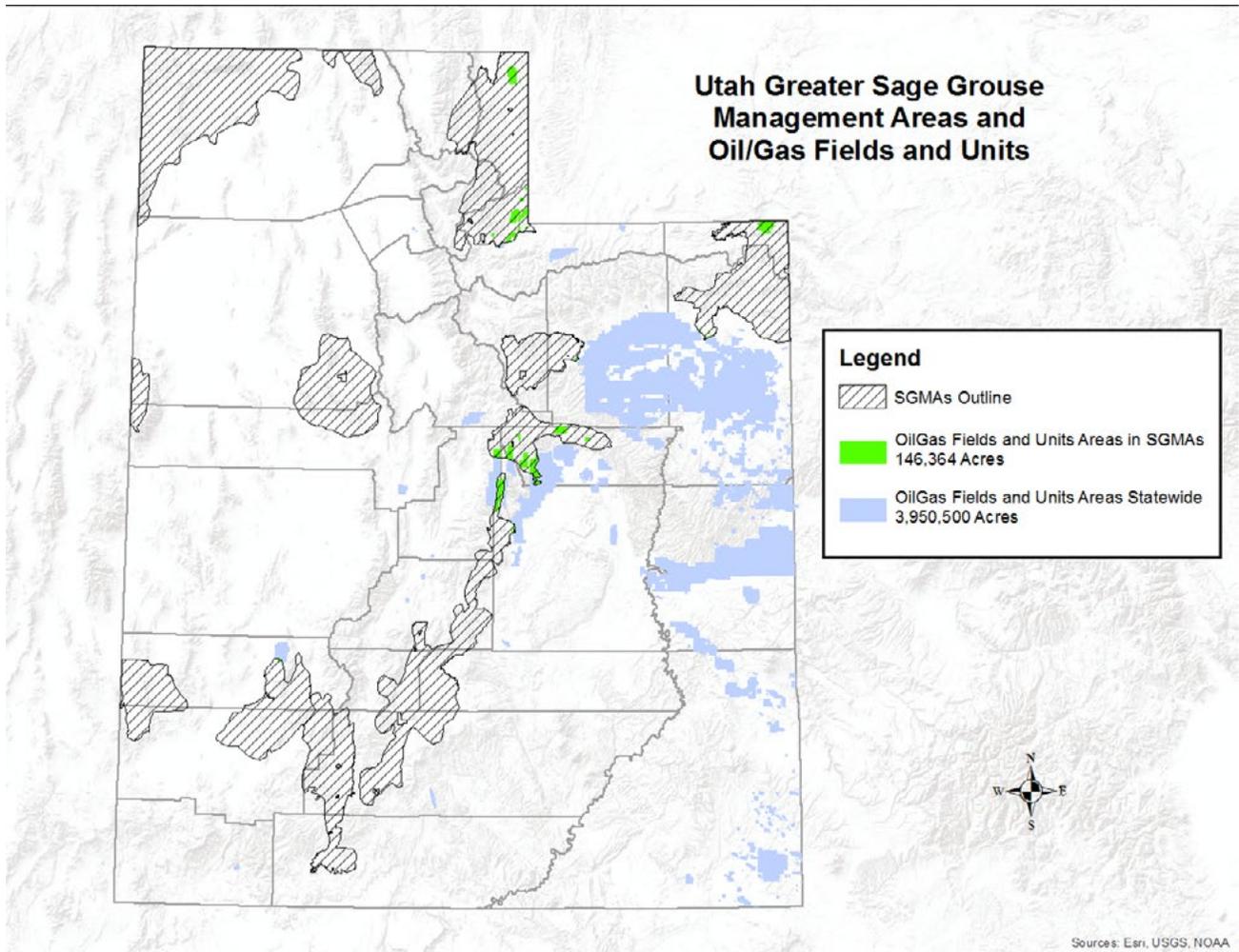


Figure 3: Just 3.7% of Utah’s oil and gas fields and units lie within Utah’s SGMAs. Ninety-eight percent of the acreage within Utah’s SGMAs does not coincide with oil and gas fields.

Of the lands within SGMAs that are also within established fields/units, just 43,713 acres coincides with nesting/brood rearing habitats. This amounts to only 1.5% of nesting/brood rearing habitat statewide. More importantly, 2,802,034 acres of nesting/brood-rearing habitat does not coincide with oil and gas fields/units.

Leks and Nesting/Brood-Rearing Habitat

The COT Report discusses proposed general regulatory structures for oil and gas development in core areas with respect to leks, nesting and brood rearing habitat. Leks are areas where

Sage-grouse congregate in early spring for mating rituals. Research has demonstrated that 90% of nesting occurs within three miles of active leks. What this means is that during the important spring mating and nesting/brood-rearing season, oil and gas activity in areas adjacent to leks could potentially have an impact of some level upon the birds’ ability to successfully hatch and raise a brood of chicks.

For this reason, the Conservation Plan calls for no development within one mile of active leks, in order to support the spring mating season. Additionally, to avoid conflicts in nesting/brood-rearing areas, a three pronged approach of “Avoid,



Minimize and Mitigate” is prescribed in areas that lie between one and three miles from leks¹. In addition, the Conservation Plan provides similar protections for vital winter habitat.

Regulatory Structure for Areas Outside of Nesting and Brood Rearing Habitat

Generalized federal recommendations suggest that oil and gas development be limited to no more than one disturbance per section for areas that are outside of nesting/brood rearing habitat. Under these recommendations, each well pad (a disturbance) can be up to 32 acres in size and can include multiple wells. Advances in directional drilling technology allow multiple well-bores to be drilled in all directions from one surface location in order to access the entire fluid reservoir within the 640-acre limitation.

However, while directional-drilling advancements are encouraging, there are some limitations that must be considered. For example, the surface topography of the land may dictate particular

locations for surface facilities. Some of these locations may not allow directional drilling to access all subsurface mineral resources. If this occurs in an area of valid, existing rights, the Conservation Plan allows multiple pads to avoid waste of oil and gas resources, subject to strict mitigation requirements. In these cases, siting of well pads is conducted pursuant to the Governor’s Executive Order, in consultation with the Utah Division of Wildlife Resources to satisfy the requirements of the Conservation Plan. In this manner, energy development can proceed with maximum consideration given to long-term Sage-grouse conservation.

The Foreseeable Future of Oil and Gas Development in SGMAs

Oil and gas activity is not a major threat to Sage-grouse in Utah, primarily because 98% of the acreage within Utah’s SGMAs, or 7,292,967 acres does not coincide with oil and gas fields or with oil and gas units.

¹ The Conservation Plan defines “Avoidance” as overt action that eliminates disturbance to Greater Sage-grouse and its habitat. Examples include (a) purposefully siting activities in non-habitat or opportunity areas rather than habitat areas, or siting a project outside the SGMA. “Minimization” means actions that reduce the amount, duration, or impact of disturbance within habitat. Examples include (a) using a smaller development footprint; (b) the reduction of noise levels below identified thresholds, or (c) the reduction of traffic volume on a road. Minimization does not preclude the need to mitigate (compensate) for the disturbance which occurs within habitat. “Mitigation” means actions that are designed to create new habitat or to reduce disturbances by the creation of or protection of other habitat for birds. For more information see page 20 at http://wildlife.utah.gov/uplandgame/sage-grouse/pdf/greater_sage_grouse_plan.pdf. Required mitigation can be between 1:1 and as much as 4:1 compensation, depending upon disturbance and habitat type.

Some oil and gas wells can be found in areas designated as nesting/brood-rearing habitat but outside of existing fields/units. However, the total number of wells in these areas is extremely low and will have little or no impact on long-term conservation of Greater Sage-grouse. There are 2,802,034 acres of nesting/brood-rearing habitat in Utah's SGMA's which are outside of oil and gas fields/units. There are currently 26 oil wells and 29 gas wells on these 2,802,034 acres. Outside of one area in the Rich/Morgan/Summit SGMA, very little development potential coincides with nesting brood rearing areas in Utah's SGMA's.

The historic low level of development within SGMA's specifically within nesting/brood-rearing habitats and other important areas, and the recent

studies of geological potential suggest that oil and gas development is not a major threat to the species in Utah.

The Conservation Plan is designed to ensure that any future development in nesting/brood-rearing habitat is conducted in ways that avoid and minimize impacts on Greater Sage-grouse. This is consistent with the recommendations of the COT report, "If development must occur in Sage-grouse habitats due to existing rights and lack of reasonable alternative avoidance measures, the development should occur in the least suitable habitat for Sage-grouse and be designed to ensure at a minimum that there are no detectable declines in Sage-grouse population trends..."

Utah's conservation strategies for responsible energy development in SGMA's incorporate: (1) a fine-scale knowledge of Sage-grouse needs and habitats, (2) analysis of historical development patterns, and (3) an understanding of the likelihood of future development. Considering the low number of existing oil and gas wells in Utah's SGMA's and the fact that few areas have high-density development potential, Utah's balanced approach is more than adequate to protect Greater Sage-grouse nesting/brood-rearing habitats within SGMA's. Utah's balanced approach is also sufficient to protect private property rights and minimize unnecessary impacts on responsible energy development for many of the same reasons.

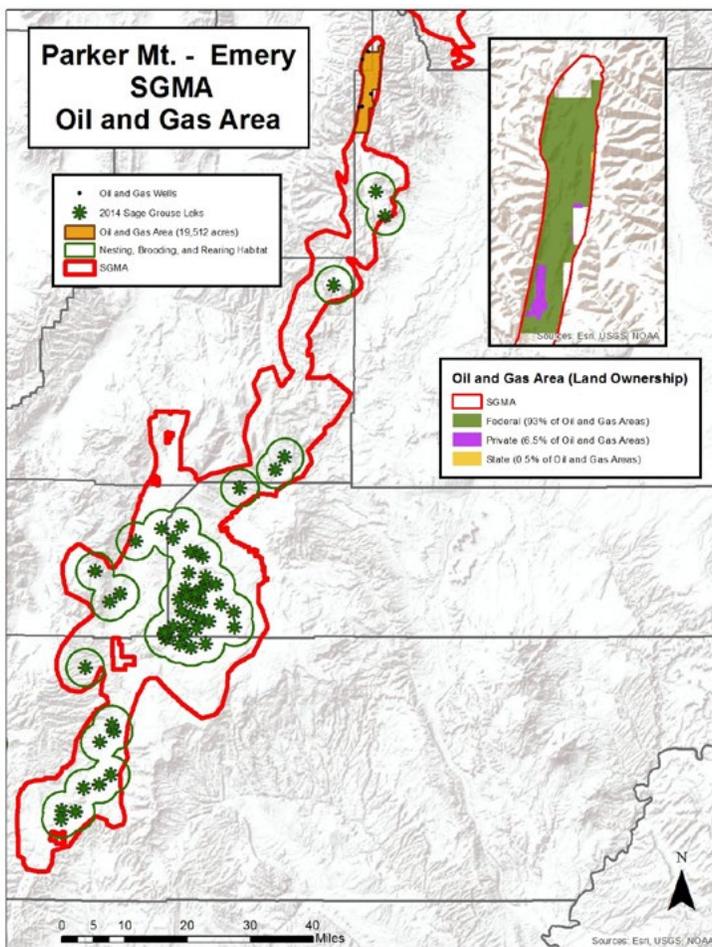


Figure 4: With just one oil well and three gas wells on 19,512 acres, there is very little development in the oil and gas field/unit located on the northern end of the Parker Mountain SGMA.

Oil/Gas Fields in SGMA's Outside of Nesting/Brood Rearing Habitat

There are three oil and gas fields/units within Utah's SGMA's where valid existing rights coincide with nesting/brood-rearing habitat. The first area is in the southeastern corner of the Rich-Morgan-Summit SGMA. The second area is in the southeastern corner of the Carbon SGMA. These fields/units cover 15,706 acres in the Rich-Morgan-Summit SGMA, 9,981 acres in the

UTAH SAGE-GROUSE CONSERVATION STRATEGIES

Carbon SGMA and 18,026 acres in the Uintah SGMA. It is notable that just one oil well and five gas wells are currently found in this particular field/unit in the Rich-Morgan-Summit SGMA (see Figure 4).

Because these fields contain valid existing rights, and have the potential for future development, these areas are treated by the state as long-term opportunity areas. They were included within the SGMA in order to anticipate future growth needs for the individual populations. What this means is that when the oil and gas wells reach the end of their productivity, these areas will be reclaimed for

use by Sage-grouse. Some of these areas are still utilized by birds despite development.

Given the level of existing development, these areas do not currently meet the criteria for priority habitat, but, in time, can contribute to long-term conservation of Sage-grouse in Utah.

Areas in SGMA outside of Nesting/Brood Rearing Habitat and Outside of Fields/Units

There are 4,490,933 acres within SGMA outside of nesting/brood-rearing habitats that do not contain oil and gas fields/units. These areas currently have a combined total of just 63 known gas wells and 71 known oil wells. Given the low level of historic development, combined with an understanding of the geology in these areas, very little new oil and gas development is expected in the foreseeable future.

Maintaining well densities below one pad per section should not be a problem in these areas. Wells that do occur will continue to be sited using the “avoid, minimize and mitigate” three-pronged approach to ensure minimal impact to the Sage-grouse populations that use these areas.

Given the high level of natural fragmentation, the presence of conifer stands and the topography in these areas, efforts to site future oil and gas development in cooperation with the Sage-grouse experts from the Utah Division of Wildlife Resources will be an effective mechanism to protect Greater Sage-grouse and their habitats. In other words, important provisions the Conservation Plan related to oil and gas development are amply designed to ensure protections for Greater Sage-grouse now and in the future by ensuring responsible energy development in Utah’s SGMA.

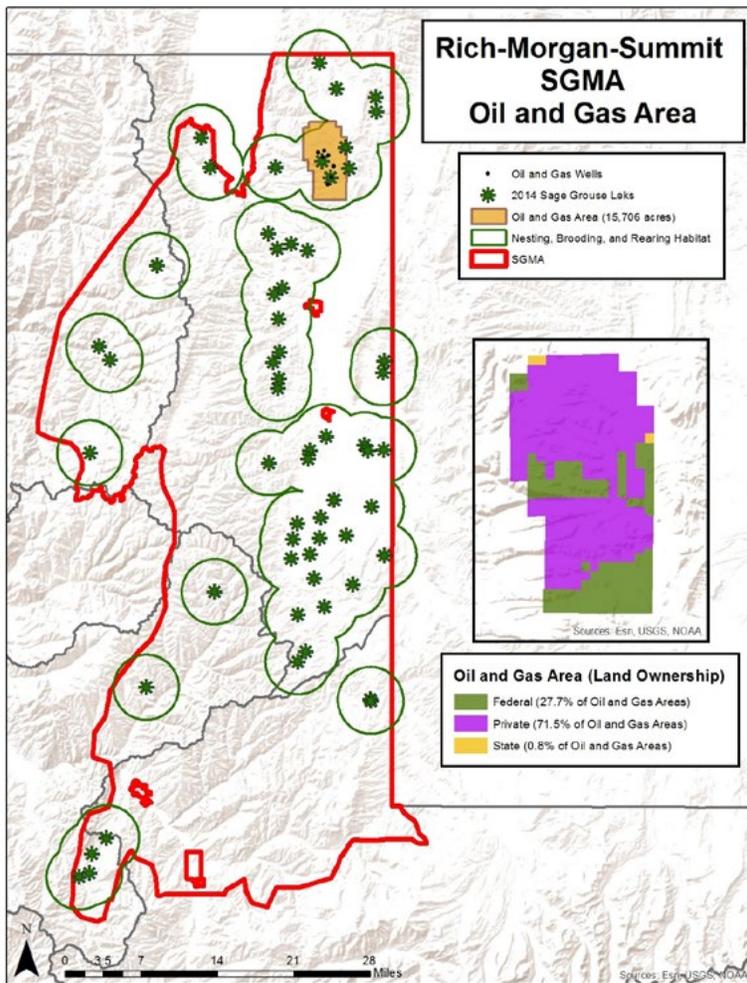
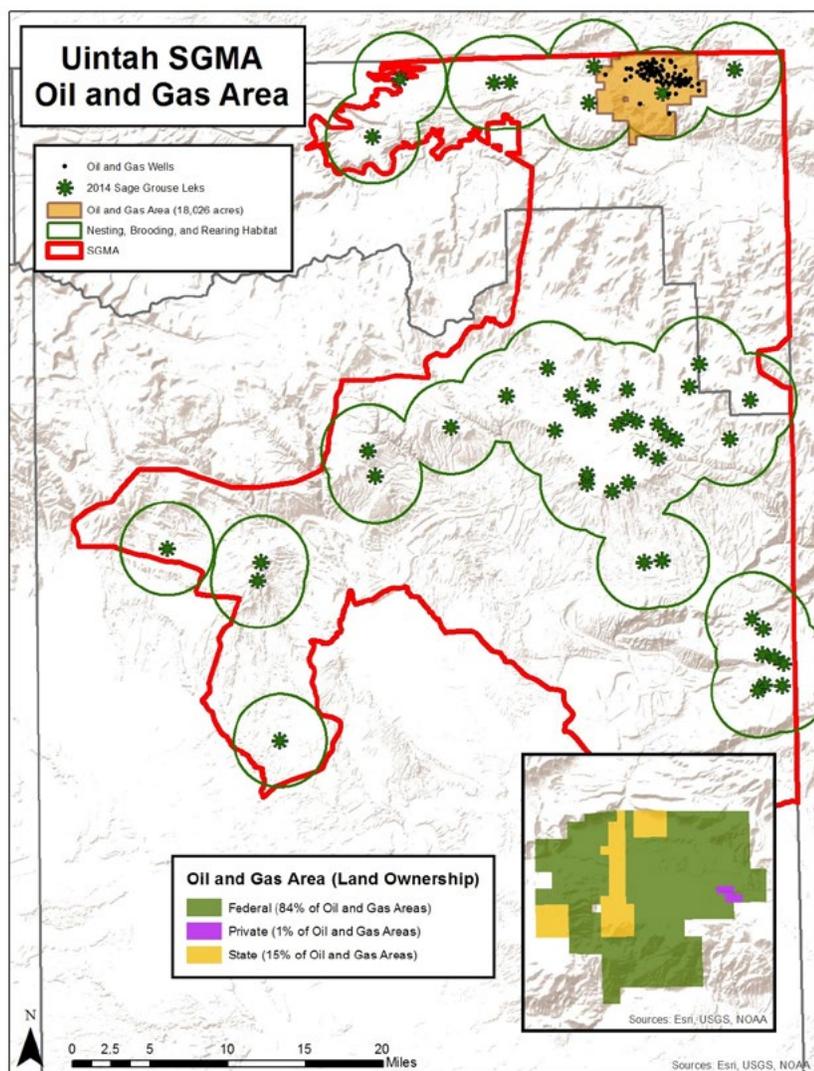


Figure 4: Not all oil and gas fields/units in Utah’s SGMA have high level of development. One field of 15,706 acres in the Rich-Morgan-Summit SGMA includes just 1 oil well and 5 gas wells.

Uintah



Oil gas fields/units in priority habitat:

Acres	18,026
Gas wells	24
	(40 underground storage wells)

Ownership of fields/units:

Federal land	84%
State land	15%
Private land	1%

Oil and gas wells outside of fields/units in nesting/brood-rearing habitats :

Acres	386,199
Oil wells	14
Gas wells	0

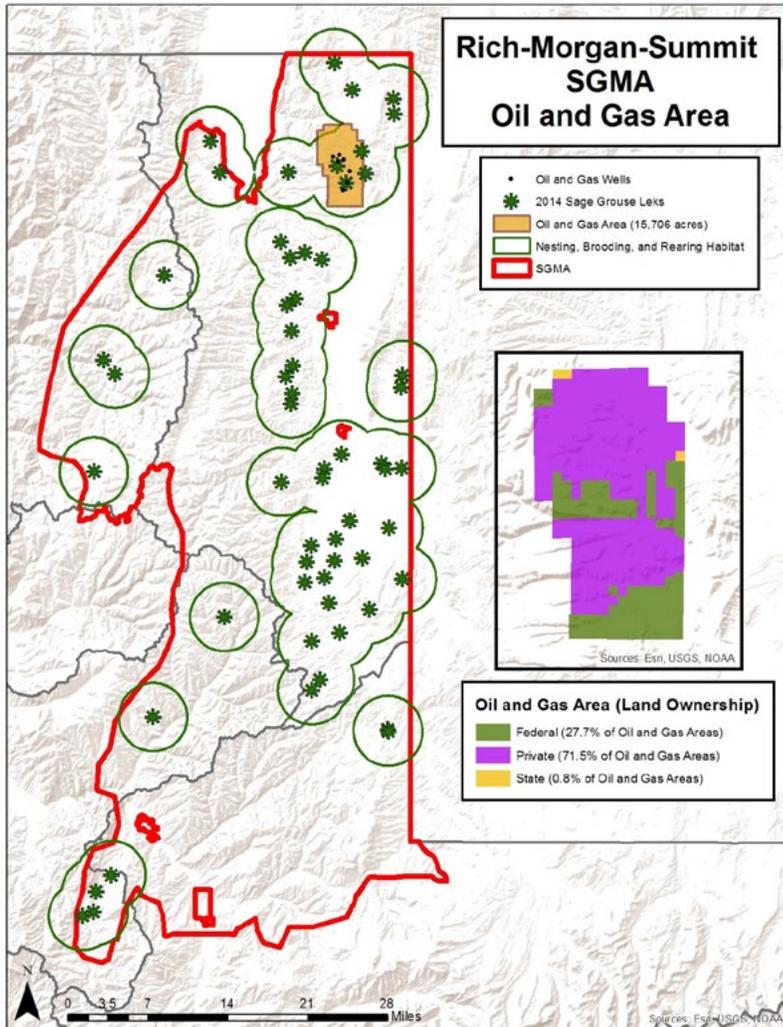
Oil and gas wells within SGMA outside of nesting/ brood rearing habitats :

Acres	388,614
Oil well	8
Gas wells	2

Detailed Assessment: Oil and gas development is not a threat in the Uintah SGMA. Valid pre-existing rights within the Clay Basin underground storage facility in the northern portion of the Uintah SGMA encompasses one active lek. This field includes approximately 24 active gas wells in addition to 40 underground storage wells. The COT Report suggests that all valid existing development rights, such those in the Clay Basin field, should be protected.

In the far southwestern portion of the Uintah SGMA, there are 14 oil wells adjacent to one lek. This is an area where additional development could be expected in the future. Pursuant to the Conservation Plan, no development will be permitted within one mile of a lek in the future. The plan also calls for avoiding, minimizing and mitigating any disturbance within three miles of a lek to help reduce any conflicts with Sage-grouse in these nesting/brood rearing areas. Implementation of the Conservation Plan is sufficient to protect these priority habitats within the Uintah SGMA.

Rich-Morgan-Summit



Oil gas fields/units in nesting/brood-rearing habitat

Acres	15,706
Oil well	1
Gas wells	5

Ownership of fields/units:

Federal land	27.7%
State land	0.8%
Private land	71.5%

Oil and gas wells outside of fields/units in nesting/brood-rearing habitats :

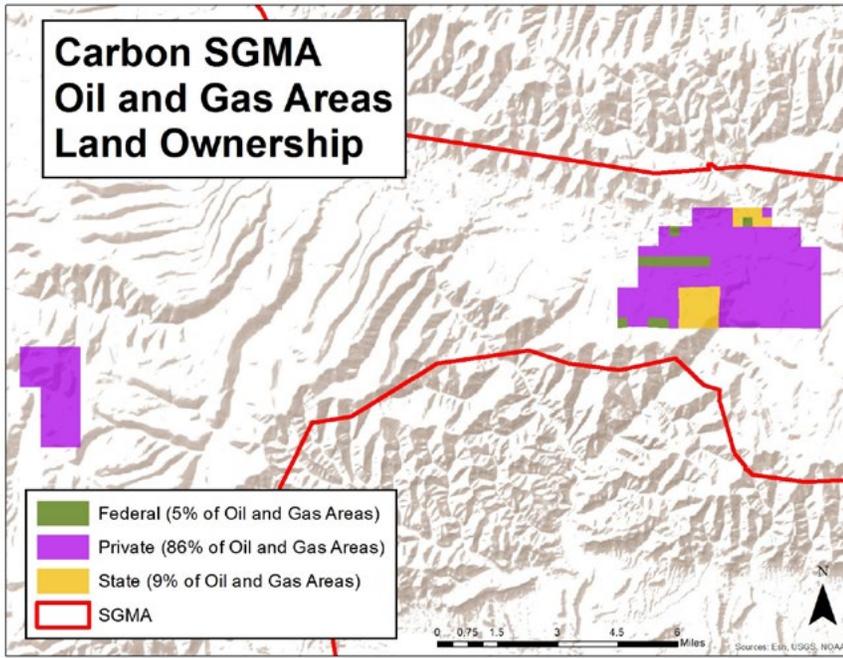
Acres	548,790
Oil wells	14
Gas wells	6

Oil and gas wells outside of nesting/ brood rearing habitats and outside of fields/units:

Oil wells	21
Gas wells	15

Detailed Assessment: There is relatively little oil and gas development in nesting/brood rearing habitats within the Rich-Morgan-Summit SGMA. There are two localized areas where most of the development occurs. In the northern portion of the Rich-Morgan-Summit SGMA there is one oil/gas field that includes two leks. With just six total wells in these fields, well density is far below thresholds that could impact Sage-grouse in the area. This is not an area where exploration and development is expected in the foreseeable future. (Figure 1)

A second localized area occurs in south/central portion of the Rich-Morgan SGMA on the border of Wyoming. This area currently has 14 oil wells and 6 gas wells and it is a place where additional development could be expected in the future. Pursuant to the Conservation Plan for Greater Sage-grouse in Utah, no development will be permitted within one mile of a lek in the future. The plan also calls for avoiding, minimizing and mitigating any disturbance between one and three miles of a lek to help reduce any conflicts with Sage-grouse in these nesting/brood-rearing areas. Implementation of the Conservation plan is sufficient to protect these priority habitats within the Rich-Morgan-Summit SGMA.



Carbon

Oil gas fields/units in priority habitat:
9,981 acres

Existing oil and gas wells :

Field #1 - Gas wells	3
Oil wells	2
(shared with gas wells)	

Field #2 - Gas wells	100
----------------------	-----

Detailed Assessment: Detailed Assessment: Field #1 has just five pads on 2,000 acres. Field #2 has valid existing rights and approximately 100 wells, which is considerably above the established threshold for priority habitat. Field #2 corresponds with one lek and the buffer of another lek. Field #2 is designated as a long-term opportunity area that will eventually be reclaimed for Sage-grouse habitat.

Conclusion

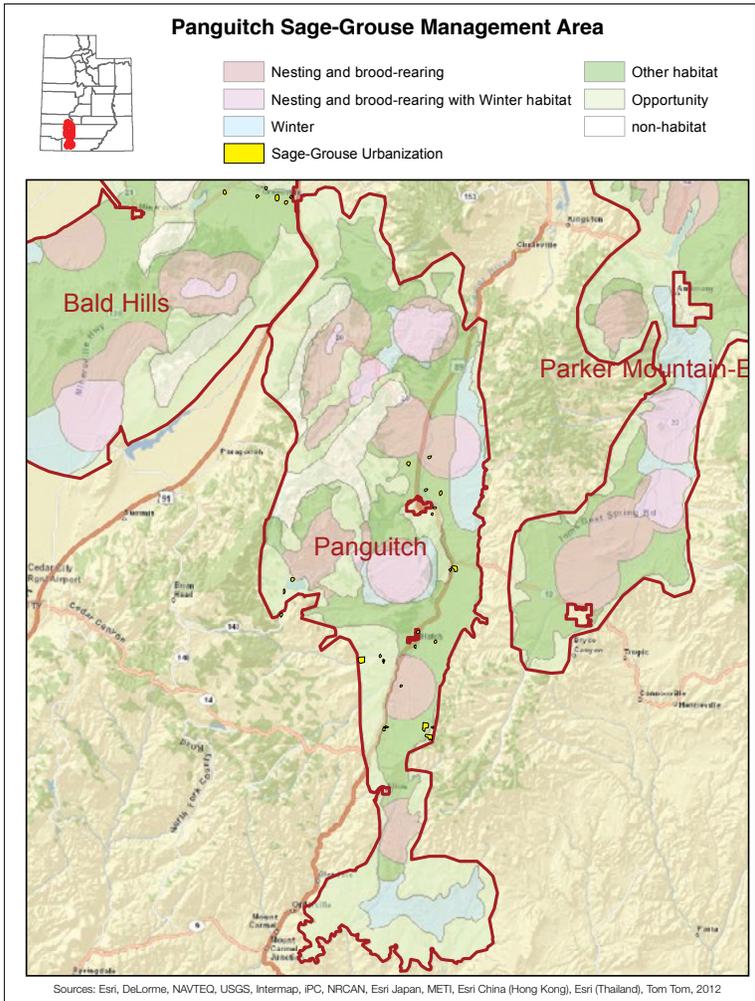
Very little oil and gas development coincides with Utah’s SGMA’s. Ninety-eight percent of the acreage within Utah’s SGMA’s, or 7.29 million acres, does not correspond with oil and gas fields/units. Utah’s plan utilizes the “avoid, minimize and mitigate” approach, which accounts for valid existing rights. This is consistent with the Conservation Objectives Team Final Report:

“If development must occur in Sage-grouse habitats due to existing rights and lack of reasonable alternative avoidance measures, the development should occur in the least suitable habitat for Sage-grouse and be designed to ensure at a minimum that there are no detectable declines in Sage-grouse population trends...”

While future development is foreseeable on only a small amount of acreage within the SGMA’s, implementation of the Conservation Plan and the Governor’s Executive Order will balance existing and possible future development (including valid pre-existing rights) with robust long-term conservation of Greater Sage-grouse. The Conservation Plan establishes provisions that aggressively meet the fundamental goal of protecting usable space for and ensuring long-term conservation of Greater Sage-grouse in the state of Utah.

UTAH CONSERVATION STRATEGIES *(CONT.)*

Low-density Development in Sage-grouse Management Areas



Only three Sage-grouse Management Areas (SGMAs) in the state of Utah are projected to have more than 1,000 acres of new development by the year 2030. A detailed analysis of acreage projected to be developed within the state's SGMAs, illustrate that only the Rich-Morgan-Summit SGMA has more than 200 acres of expected conflict within nesting brood rearing habitats. What this means is that low-density development (sometimes referred to as exurban development) is not a threat to Sage-grouse populations in the state of Utah. Millions of dollars are available through state, private, and federal funding sources to protect the interests of private landowners, incentivize protection of lands that are important to rural communities, Sage-grouse populations, and to resolve development threats in areas of priority habitat. Localize impacts in the Rich-Morgan-Summit and other SGMAs will be addressed through processes explained in Utah's Plan.



Figure 11 Low-density rural development is not a significant threat within core habitats of Utah's SGMAs.

URBANIZATION

Overview: Only three Sage-Grouse Management Areas (SGMAs) in the state of Utah are projected to have more than 1,000 acres of new development by the year 2030. A detailed analysis of acreage projected to be developed in these SGMAs illustrates that only the Rich-Morgan-Summit SGMA has more than 200 acres of expected conflict with priority habitat. The conclusion is that urbanization is not a threat in the state of Utah. Localized impacts in Rich-Morgan-Summit will be ameliorated through Utah’s Sage-Grouse Conservation Plan.



Affected SGMAs: Rich-Morgan-Summit, Uintah and Panguitch.

Rich-Morgan-Summit

Total acres in SGMA	1,227,830 acres
Projected development by 2030	3,467 acres
New acres as % of total	0.026%
Nesting/brood rearing	1,213 acres
Winter habitat	2,254 acres
Northern - projected development	2,105 acres
Nesting/brood rearing	53%
Winter habitat	47%
Middle - projected development	97 acres
Southern - projected development	1,265 acres
Winter habitat	94%

Detailed Assessment: The estimated residential and commercial development is approximately one quarter of one percent on 1.2 million acres in the Rich-Morgan-Summit SGMA. Urbanization is not a threat to long-term survival of Sage-grouse populations in Rich-Morgan-Summit SGMA. Localized conflicts exist on both the northern end and southern end of the SGMA. Development on the northern end is projected to occur around existing development adjacent to Bear Lake and in the Bear River Valley near Randolph and Woodruff. Development on the southern end is projected to occur near Wanship and Kamas.¹

¹Map Source: http://www.nrcs.usda.gov/wps/portal/nrcs/detail/ut/technical/dma/nri/?cid=nrcs141p2_034122

Projected Development to SGMA's

	Total SGMA Acres	Projected New Development
Bald Hills	527,665	997
Box Elder	1,519,567	977
Carbon	354,559	702
Hamlin Valley	341,087	0
Ibapah	98,229	16
Panguitch	605,444	1,704
Parker Mtn	1,084,276	361
Rich-Morgan	1,183,844	3,188
Sheeprock	609,781	166
Strawberry	322,040	147
Uintah	792,839	3,466
TOTAL	7,439,331	11,725

Figure 1 - Three SGMA's are projected to have more than 1,000 acres of new development by 2030. Actual acreage within priority habitat is much less than 10,000 acres.

Uintah

Total acres in SGMA: 811,835 acres
 Projected development by 2030: 3,466 acres
 New Acres as % of total: 0.43%
 Nesting/brood rearing: 0 acres
 Winter habitat: 0 acres

Detailed Assessment: Urbanization is not a threat to long-term survival of Sage-grouse populations in Uintah County. Additional analysis suggest there is no projected residential and commercial development in critical habitat. Most development in the county is projected near existing development which is outside of the Uintah SGMA.²

²Map Source: http://www.nrcs.usda.gov/wps/portal/nrcs/detail/ut/technical/dma/nri/?cid=nrcs141p2_034122

³Map Source: http://www.nrcs.usda.gov/wps/portal/nrcs/detail/ut/technical/dma/nri/?cid=nrcs141p2_034122

Panguitch

Total acres in SGMA: 645,557 acres
 Projected development by 2030: 1,704 acres
 New acres as % of total: 0.26%
 Breeding/brood rearing: <200 acres
 Winter habitat: 0 acres

Detailed Assessment: Urbanization is not a threat to long-term survival of Sage-grouse populations in Panguitch SGMA. Less than 200 acres of development coincides with critical habitat.³

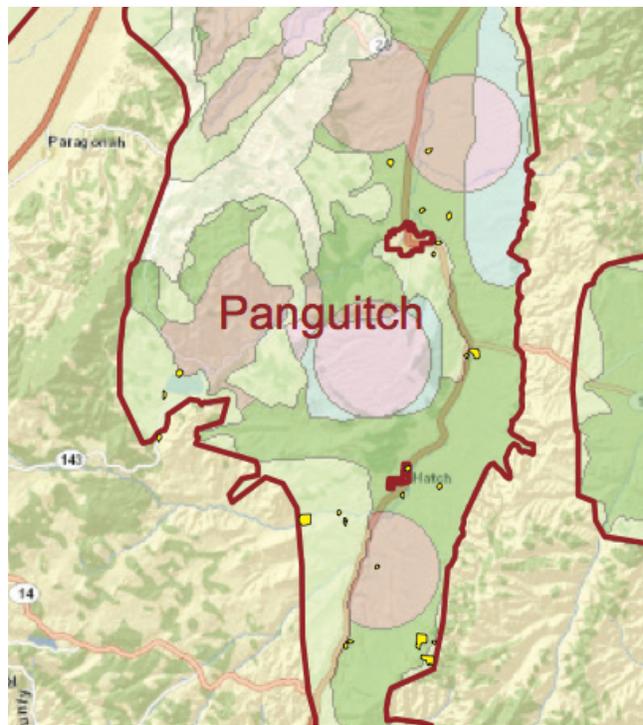
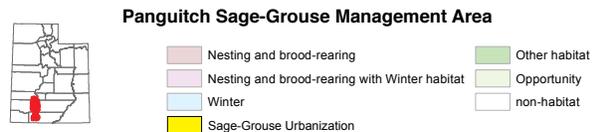


Figure 2 - Development in Panguitch SGMA is projected to occur primarily outside of wintering, nesting and brood rearing habitat.

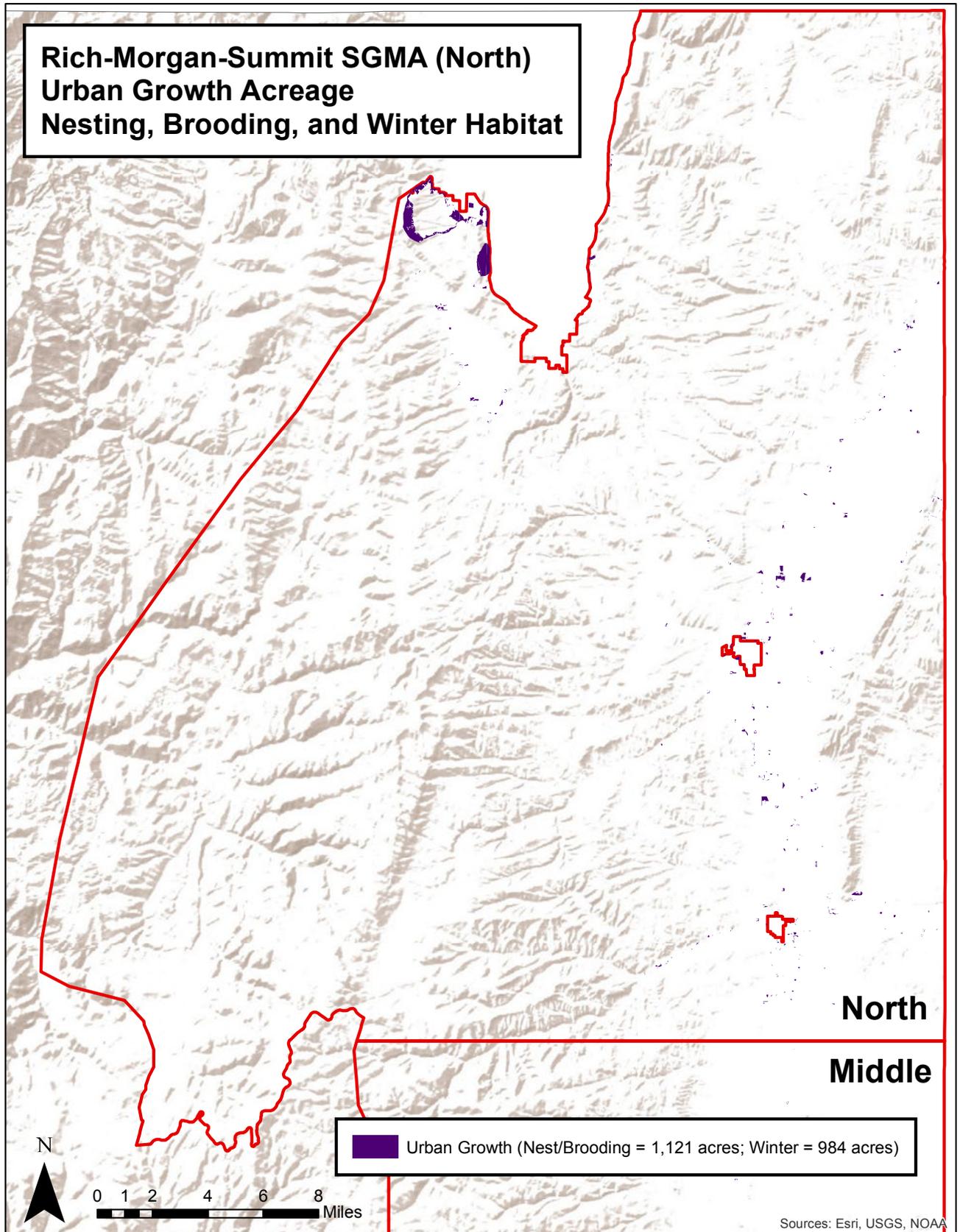




Figure 12. Sage-grouse biologists radio collar Utah Sage-grouse as part of intensive research studies in the state. Over 45 studies have been completed or are currently in progress to more effectively ensure success of Sage-grouse in the state.

Why Utah's Plan Was Not Given Full Consideration

Unfortunately, as we worked with federal regulators responsible for ESA determinations and federal planning, it became increasingly clear that Utah's Plan would not be given full consideration. This is because of U.S. Fish and Wildlife Service's Policy for Evaluation of Conservation Efforts When Making Listing Decisions (PECE Policy). While Secretary Salazar promised to give full consideration to state conservation plans if the states would update their plans, these commitments were not kept. Under the Obama Administration's interpretation of the PECE Policy, consideration of updated state plans was not allowed, even when those changes were made at the encouragement of the Department of Interior and U.S. Fish and Wildlife Service. Here is the relevant language:

"While the [Endangered Species] Act requires us to take into account all conservation efforts being made to protect a species, the PECE policy identifies criteria we will use in determining whether

formalized conservation efforts that have yet to be implemented or to show effectiveness contribute to making listing a species as threatened or endangered unnecessary."

In meetings with U.S. Fish and Wildlife Service, senior officials indicated that updated state conservation plans would be treated as "yet to be implemented" or "yet...to show effectiveness." Moreover, the high bar required for consideration under the Obama Administration's interpretation of the PECE policy meant that many updated management plans, including those in Utah, were not given full consideration. Instead, Obama Administration officials argued that revised BLM and Forest Service plans with extreme restrictions should be implemented. That is exactly what has happened. Unfortunately, these new restrictions did little to address the needs of Sage-grouse. Instead, they are focused on restricting human activity in ways that are largely unnecessary for Sage-grouse conservation while also ignoring the need for more balanced, common sense solutions.

EDUCATING MEMBERS OF CONGRESS



Key political and policy makers were keenly aware of what is happening with Greater Sage-grouse, including the Obama Administration's rewriting of federal resource management plans and activities on Sage-grouse habitat in the West. The Greater Sage-grouse Coordinated Consulting Team worked with Utah's congressional delegation and educating other members of Congress on key issues related to Greater Sage-grouse and the Endangered Species Act.

PROGRESS & RESULTS

We have met with members of Congress from Sage-grouse states and across the country. We have conducted tours of Sage-grouse habitat with senior staff, Sage-grouse and rangeland biologists, and state policy makers. These tours provided an opportunity to discuss implementation of on-the-ground conservation measures in the state of Utah.

We continue to find that there is significant bi-partisan support both in Western states and in Congress for solutions that protect balanced use of natural resources in ways that are consistent with policies and management strategies that work for long-term success of Greater Sage-grouse.

State Management is Working for Sage-grouse Conservation

One of the most important things to understand is that there is no emergency when it comes to Sage-grouse. This has been an important part of our message to Congress. There are approximately 500,000 birds with seasonal habitats covering 167,000,000 acres. With current Sage-grouse numbers and distributions, no one is suggesting that Greater Sage-grouse are imperiled. Instead, petitions to list the bird as “threatened” have focused on the adequacy of regulatory mechanisms to address perceived threats that activists suggest could lead to the decline of Sage-grouse in the future.

Greater Sage-grouse seasonal habitats cover a huge swath of land including portions of 11 Western States. State management plans for Sage-grouse have demonstrated a proven track record of success. Despite natural fluctuations in Sage-grouse populations from year to year, 10-year rolling averages for Sage-grouse have been stable or increasing for most Sage-grouse populations in most states for the past two decades.

From 2014-2015, Sage-grouse populations increased 68% range-wide. This has largely refuted one proposed theory that the stability of Sage-grouse “was actually a sign of decline.” This was a theory that showed up in the 2010 “warranted but precluded” rule by the U.S. Fish and Wildlife Service during the Obama administration. The theory attempted to suggest that despite the relative abundance of Sage-grouse and Sage-grouse habitat over the past 20 years, this long-period of population stability would likely be followed by a consistent cycle of decreasing bird populations. Contrary to this supposition, the period of stability was followed by a robust upward population growth cycle in which bird populations increased 68% range-wide in just two years. This not only put these fears to rest, but demonstrated that state conservation plans were more than adequate to ensure long-term Sage-grouse stability and survival of Greater Sage-grouse across a substantial portion of the range.

Western States remain committed to common-sense Sage-grouse conservation. Approximately \$750,000,000 has been invested in Sage-grouse habitat restoration and improvement in the last 20 years across the western United States. These efforts are proactive, forward thinking, and are producing significant results for Sage-grouse populations by improving the quality of Sage-grouse habitat. These conservation efforts have produced over one million acres of habitat restoration for Sage-grouse, mule deer, pronghorn, and other wildlife species. This investment is also addressing serious concerns, such as pinyon/juniper encroachment, catastrophic wildfire, and productivity of public lands in Utah and across the West.

Sage-grouse Bill Introduced in 2015

On March 15, 2016, Congressman Rob Bishop introduced H.R. 4739 "The Greater Sage Grouse Protection and Recovery Act". The bill protects state conservation efforts for Greater Sage-grouse and provides a judicial safe-habor to ensure those conservation plans can be implemented for a period of 10-years.

The bill was cosponsored by members of Congress who represent districts which hold approximately 95% of America's Sage-grouse including, Cynthia Lummis-Wyoming, Michael Simpson-Idaho, Raul Labrador-Idaho, Ryan Zinke-Montana, Greg Walden-Oregon, Rob Bishop-Utah, Mark Amodei-Nevada, Cresent Hardy-Nevada, Joseph Heck-Nevada, Doug Lamborn-Colorado, Cathy McMorris Rodgers-Washington State, Kevin Cramer-North Dakota, and Paul Cook-California.

The provisions of H.R. 4739 have been included in the National Defense Authorization Act. Similar provisions were included in last year's National Defense Authorization Act which passed the House of Representatives.

Sage-grouse and the National Defense Authorization Act

On April 13, 2015, House Armed Services Committee Chairman Mac Thornberry introduced H.R. 1735, the National Defense Authorization Act (the National Defense Authorization Act or "NDAA"). Contained in the Chairman's mark-up was language sponsored by Congressman Rob Bishop (R-UT 1st District) related to Greater Sage-grouse. The provi-

sions, which comprise Section 2862 of the NDAA, provide a 10-year extension of the deadline for making an Endangered Species listing determination for Greater Sage-grouse. This extension was designed to allow state management plans time to work and demonstrate their efficacy. The provisions also provide an optional 5-year extension of time on Sage-grouse management plans for the Bureau of Land Management within a state, if requested by the governor of that state. The bill does not change the current legal status of the bird from "warranted but precluded." Amongst other provisions, the bill also would require an annual report to Congress on the conservation status of Sage-grouse throughout their range.

A copy of the language of the Sage-grouse provisions in Section 2862 of the National Defense Authorization Act is provided in Exhibit D.



Figure 13. Utah's congressional delegation has been very active in protecting state management of Sage-grouse through Congressional action.



Figure 14. Approximately 50% of Air Force training flights in the Continental United States are conducted in western test and training ranges impacted by Sage-grouse. Additionally, the test and training ranges in the western United States provide capabilities that cannot currently be replicated anywhere else in the world.

Committee Vote

On April 29th, 2015, mark-up was held on H.R. 1735 in the Full House Armed Services Committee. As part of the mark-up, Representative Niki Tsongas (D-MA Third District) offered an amendment to strip Section 2862 from the National Defense Authorization Act (NDAA). The amendment failed with a strong, bipartisan vote of 26-36. The House Armed Services Committee voted on final passage with a vote of 60-2, clearly demonstrating the strong level of support for the NDAA containing the Rob Bishop Language.

House Vote

After its passage in committee, NDAA was sent to the Full U.S. House of Representatives for consideration. On May 15, 2015, the bill was passed by a vote of 269-151, once again demonstrating a strong level of support for the bill in Congress. All four members of Utah’s congressional delegation in the U.S. House of Representatives voted in favor of the NDAA and have been active in their efforts to ensure continued inclusion of Section 2862 in the NDAA.

Here are several quotes from members of Congress on the Committee illustrating their attention to efforts to force more federal mandates relative to Greater Sage-grouse and the importance of ongoing state management of the species:

Rob Bishop - Utah

“More than 40 years ago, the Endangered Species Act was enacted with good intentions and bipartisan support to recover species at the brink of extinction. Unfortunately, with less than two percent of the more than 1,500 listed species ever recovered, the law is failing.

“Cramming thousands more species onto the list and blocking the use of millions of acres of land—including restricting even how our military servicemen can use lands for military training and readiness – cannot be a measurement of success. States are using resources wisely to recover species and keep them off the list. We should do more to encourage them.”

Cynthia Lummis - Wyoming

“Because these 11 states are so different, a cookie cutter approach will not work. Each state is unique. Their ecology, their economies, their culture, their Sage-grouse habitat, and the reasons for Sage-grouse decline are very different.”

Ryan Zinke - Montana

“Nowhere do I see what a healthy population is in Montana. When I don’t know what a target number is, when the plan doesn’t have anything constructive other than habitat, when it doesn’t address wildfire, when it doesn’t address predators, and yet the locals have expressed a considerable desire to save the species in a constructive manner that looks at predators, that looks at wildfires, looks at weather.”

Crescent Hardy - Nevada

“I’ve watched and grew up in Nevada my whole life and I’ve watched what has happened throughout the state with the growth of the juniper and the lack, or mismanagement, of what I call the federal government and what they are doing.”

Scott Tipton - Colorado

“They don’t have an identifiable number [the Department of Interior for the recovery of the Sage-grouse]. Wouldn’t it be a good idea, if we are actually going to have recovery, to be able to have a number that we know when we win?”

Dan Newhouse - Washington

“I live in central Washington. In my district, we have the Yakima training center, which is a 327,000 acre training site for our military. Of that, there are 77,000 acres that are currently designated Sage-grouse protection area. The army has already taken various steps and spent a lot of money to operate in a manner that minimizes the impact on the species. Things like seasonal management and habitat protection. If the ESA, under a listing would further impact and really take a lot of the training center out of being operable, and very severely limit its ability to carry out its mission.”

Doug LaMalfa - California

“When we have these listings, who knows, by the time they are done implementing the plan, people can do less in the area to manage the timber, to manage the land, to do things that would dovetail well with the species and its recovery, it will just be off limits, the whole forest will burn. In the case we are talking about here, more juniper will grow because we are afraid we might disturb a nesting grouse, instead of doing things that are going to improve it. It is a big frustration.”



Figure 15. Kathleen Clark from the Utah Public Lands Policy Coordination Office testifies at the U.S. House Natural Resource Committee hearing May 19, 2015.

U.S. House Committee on Natural Resources

On Tuesday, May 19, 2015, the U.S. House Committee on Natural Resources held a hearing in Washington D.C. entitled, "Empowering State Management of Greater Sage-grouse." Chairman Rob Bishop conducted the hearing with many members of the committee speaking in favor of state management of Sage-grouse.

Kathleen Clark from the Utah Public Lands Policy Coordinating Office spoke at the hearing, as did representatives from other impacted Sage-grouse states. The following is a portion from Ms. Clark's testimony:

I find myself in an interesting position. As a former Director of the Bureau of Land Management, I have extensive insight into operations of a federal regulatory and land management agency. I respect the role of the federal government in management of lands and natural resources and oversaw BLM's development and implementation of a rigorous range-wide Sage-grouse conservation strategy which helped to support a "non-warranted" listing determination for the Greater Sage-grouse (GRSG) in 2006.

As the current director of the Public Lands Policy Coordinating Office for the State of Utah (PLPCO), I oversaw a year-long review of Sage-grouse in Utah, and the subsequent development of a bold, science-based conservation plan,

including clearly identified goals and objectives recognized as innovative by observers of the process. Based upon that work and the subsequent efforts to find common ground with the federal land management agencies, I can tell you that sadly, there is a dichotomy developing between the State of Utah's collaborative planning process and a growing federal unilateralism. What started out as a promising partnership is becoming increasingly imbalanced and adversarial.

Let me be clear, the State of Utah is committed to long-term Sage-grouse conservation. Over \$50 million dollars has been invested in the last 10-years in Sage-grouse conservation in Utah. The State, in a close partnership with federal agencies, has restored

over 560,000 acres of Sage-grouse habitat since 2006, which work was funded and undertaken after the U.S. Fish and Wildlife Service determined the species was “not warranted” for listing. Research and groundwork have been the hallmark of Sage-grouse conservation. The State has engaged in an aggressive research program through our universities to scientifically determine the conservation needs of the species. We have improved habitat and engaged in land management studies involving habitat improvement and restoration, predator control and population augmentation. Results have been stunning, and directly contradict the recent gloom and doom predictions concerning the Sage-grouse...

The State of Utah supports the efforts of Congress to allow the states the opportunity to demonstrate the robust nature of their plans, and demonstrate the required level of certainty required by the Service’s PECE standards. The 10-year time frame mentioned in legislation is firmly based in the science of Sage-grouse in Utah, and is recognized in peer-reviewed scientific papers. We believe that congressional action is likely the only way to ensure the states have

the necessary time to demonstrate effective conservation efforts and to secure the long-term sustainability of the GRSG.

Dustin Miller, the Idaho Director of Species Conservation, also testified. The following is a portion of Mr. Miller’s testimony:

The State of Idaho holds to the notion that local collaboration, local ideas, and local efforts garner the greatest results. We have a lot of pride in our state, and we are especially proud of our western heritage and abundant natural resources...but as you’ve heard, some of the recent top-down directives from Washington, D.C. have the potential to derail years of positive collaboration.

Committee members from the Sage-grouse states of Utah, Nevada, Montana, Wyoming, Colorado, California, and Washington were strongly supportive of efforts to protect state management of Sage-grouse.



In anticipation of conference efforts to harmonize the House and Senate versions of the bill, a “Dear Colleague” letter was sent to the leaders of House and Senate Armed Services Committees regarding Greater Sage-grouse and section 2865. The letter reads in part:

We are writing in strong support for retention of Sections 2862 and 2865 contained in the House-passed National Defense Authorization Act for Fiscal Year 2016 (H.R. 1735) dealing with Protection and Recovery of Greater Sage-grouse and the Lesser Prairie Chicken. These sections were adopted with strong bi-partisan support in the House of Representatives...It is entirely appropriate that these issues be addressed within the context of the National Defense Authorization Conference Report...We believe that Sections 2862 and 2865

represent a balanced approach to both conservation and preservation of the species, by allowing time for the affected states to implement and demonstrate their individual plans.

107 members of Congress signed the Dear Colleague letter. It was finalized July 9, 2015 and sent to leaders of the House and Senate Armed Services Committee. A full copy of the letter is included in Exhibit E.

Federal Government Agrees that Sage-grouse are not Threatened or Endangered

In 2015, the U.S. Fish and Wildlife Service agreed that Sage-grouse were “not warranted” for listing under the Endangered Species Act, either as a threatened or endangered species. This followed months of efforts by the Greater Sage-grouse Coordinated Consulting Team and the State of Utah to educate federal decision makers on the conservation needs of Sage-grouse populations in Utah and the way in which state programs are addressing those needs.

In making this announcement, Secretary Sally Jewell indicated:

This is truly a historic effort – one that represents extraordinary collaboration across the American West... The epic conservation effort will benefit westerners and hundreds of species that call this iconic landscape home, while giving states, businesses and communities the certainty they need to plan for sustainable economic development.

U.S. Agriculture Secretary Tom Vilsack explained the importance of voluntary conservation efforts to the future of Greater Sage-grouse:

Together, we have shown that voluntary efforts joining the resources of private landowners, federal and state agencies, and partner organizations can help drive landscape-level conservation that is good for Sage-grouse, ranching operations, and rural communities. Through the comprehensive initiatives on both public and private lands, the partnership has made and will continue to make monumental strides in supporting the people and wildlife that depend on the sagebrush landscape.

A full copy of the “Not Warranted” press release can be found at <https://www.doi.gov/pressreleases/historic-conservation-campaign-protects-greater-sage-grouse>.

“Concerns regarding mismanagement of federal lands and impacts to Sage-grouse conservation remain a major concern.”

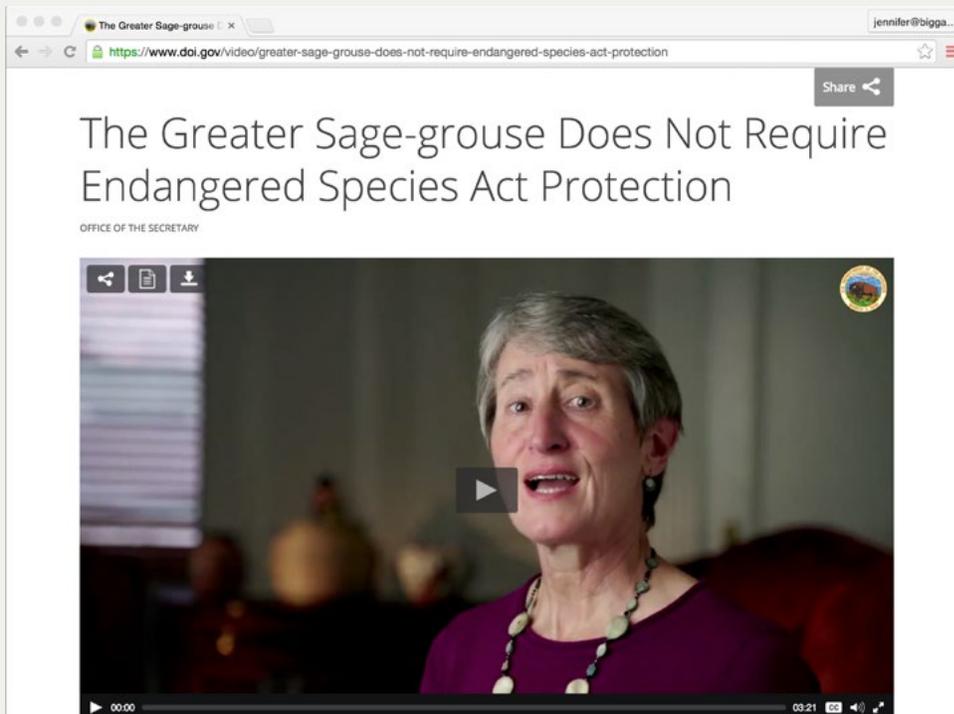
Concluding that Greater Sage-grouse remain relatively abundant and well-distributed across the species' 173-million acre range, U.S. Fish and Wildlife Service explained that using the best available scientific information and taking into account ongoing key conservation efforts and their projected benefits, the bird does not face the risk of extinction now or in the foreseeable future, and therefore does not need protection under the ESA.

The decision not to list Greater Sage-grouse is a significant development. As recently as 2010, the U.S. Fish and Wildlife Service had made the determination that the species was warranted for listing, but that listing was precluded by higher conservation priorities under clause (iii) of section 4(b)(3)(B) of the Endangered Species Act of 1973 (16 U.S.C 1533(b)(3)(B)). In the months leading up to the "not warranted" determination, federal officials had repeatedly suggested that a finding of "threatened" with a "4D" determination would provide states the management flexibility they required.

States pushed back, indicating that the Greater Sage-grouse numbers and distribution indicated

that Sage-grouse were not at risk of extinction. Furthermore, they pointed out that state management plans were the best way to conserve the species, both now and in the future. The best available science and commercial data set forth in Utah's detailed conservation strategies demonstrate that conservation planning and implementation continues to move forward in a proactive and constructive manner.

It is important to note that the concerns regarding mismanagement of federal lands and impacts to Sage-grouse conservation remain a major concern. The data demonstrates that the most important conservation concerns for Sage-grouse in the state of Utah including wildfire, conifer encroachment and post-wildfire effects, are disproportionately occurring on federally managed BLM and Forest Service lands. Utah's Watershed Restoration Initiative has treated hundreds of thousands of acres in the state, including on federal land. However, continued progress in addressing these concerns will require the substantial progress in the coordination and implementation of conservation measures by federal land management agencies.



On September 22, 2015, DOI Secretary Jewell made the online announcement that "Because of an unprecedented effort by dozens of partners across 11 western states...the Greater Sage-grouse does not require protection under the Endangered Species Act."

While the decision not to list the Greater Sage-grouse as an endangered or threatened species represents significant progress, considerable risks remain due to controversial new BLM and Forest Service Management plans. Litigation by special interest groups also threatens state management of Sage-grouse.



New BLM & Forest Service Land-Use Plans

Controversial land use plans mean more restrictions on millions of acres in the state of Utah and across the West. Proposed “Sage-grouse focal areas” emphasize regulation and mineral withdrawal, not conservation of Sage-grouse. Leaders from western states condemned new restrictions as more bad news for public land states.



As a part of this process, substantial pressure was brought by the U.S. Fish and Wildlife Service on the Bureau of Land Management (BLM) and U.S. Forest Service (USFS) to implement new land use plans through the amendment process. These new BLM and USFS plans implemented substantial new regulations on federal lands within Utah. In fact, many of Utah’s elected officials issued very direct warnings about the impact of these new plans on economic activity and the ability of Utahns to use public lands in the state.

What is notable is that these new plan restrictions substantially missed the mark from a conservation perspective. In their almost unilateral focus on human activity, they failed to address the most important conservation concerns on our public land. Just as importantly, they threatened to undermine the

important collaboration that is needed for Sage-grouse conservation. Leading many to conclude that these plan amendments were not really about Sage-grouse conservation, but instead were intended to stop productive use of our public lands.

Independent research by the University of Utah’s Bureau of Economic and Business Research dated July 2015 and entitled, “Valuation of Current Economic Activities in Greater Sage-grouse Range in Utah” indicates that over \$5 billion in current economic activity occurs on current and historic Sage-grouse range in the state of Utah. The report found an additional \$10.9 billion in agricultural and non-primary residential property values which may be contained in Utah’s historic only and current Sage-grouse range. In addition, over 57 billion barrels of potentially available economic oil from oil shale is also located in historic and current range within the state of Utah.

In contrast with these proposed heavy-handed federal regulations, Utah's common-sense SGMA strategy protects habitats for 94% of Sage-grouse (highest percentage of any western state) while also providing minimal impacts on economic activities in these areas. For example, while there are estimated to be over 57 billion barrels of potentially available economic oil from oil shale located in historic and current range within the state of Utah, only an estimated 0.2 billion barrels of economic oil from oil shale are located within the state's SGMAs. Under new federal restrictions, all activities both in Utah's SGMAs and in areas outside of Utah's SGMAs could be severely restricted.

“These federal land use plan amendments are unnecessarily restrictive.”



Instruction Memorandum Restricts Mineral Development and Sage Grouse Conservation

As if the federal land use plan amendments were not bad enough, the Greater Sage-grouse Coordinated Consulting Team obtained an instructional memorandum from Obama Administration Officials that would further restrict oil and gas development on the tens of millions of acres managed by the BLM and U.S. Forest Service in the name of Sage-grouse. The Instructional Memorandum, 2016-143, dated September 1, 2016 (the "IM") gave broad authority for local officials to prohibit drilling on Sage-grouse habitat under a new "priority system."

The IM acknowledged that while the BLM lands "which are known or believed to contain oil and gas deposits may be leased by the secretary" the BLM plans "prioritize oil and gas leasing and development outside of identified PHMAs and GHMAs." In fact the instructional memorandum indicated that:

All new leases issued under the GRSG land use plans will have the stipulation for no surface occupancy (NSO) in PHMA (except WY)...

It is important to point out that the Internal Memorandum is not a categorical exclusion on leasing within Sage-grouse habitat. Rather, it establishes a priority-based system intended to ensure consideration of drilling outside of Sage-grouse habitat over drilling inside of Sage-grouse habitat.

In practice, the impact could be much the same as a de facto ban on oil and gas development in key oil and gas reserves across the state of Utah.

The IM went one step further. The memorandum gave managers authority: (1) not to issue leases that have already been sold; and (2) to even suspend leases that are already under operation. This directly contradicted Secretary Jewel's claim that the new BLM management plans would provide economic certainty for local communities.

How significant were these restrictions? The restriction of "No Surface Occupancy" in priority habitat areas would affect millions of acres of priority Sage-grouse habitat in the Utah. It affected both federal land with Utah's priority habitat and also applies to the private and state lands with an underlying federal mineral estate. See Exhibit A to read the full memorandum.



Utah's Common Sense Approach

Utah's conservation plan prioritizes conservation of Sage-grouse in areas where they can be most successful. It also implements tens of millions of dollars in on-the-ground conservation efforts in support of those efforts. The resources needed to implement those conservation efforts depend on revenue from a variety of sources, including revenue from energy development. The concern that has been expressed repeatedly by state officials is that restricting oil and gas drilling in areas of general habitat has the impact of limiting the resources needed for meaningful Sage-grouse conservation in the state of Utah.

For example, conservation efforts within the state of Utah restored Sage-grouse populations in the Parker Mountain SGMA from approximately 125

males to 1,250 males (counted on leks) in recent years. This ten fold increase in local Sage-grouse populations were possible because: (1) the state's conservation plan recognized the potential for population growth in Parker Mountain; (2) state programs were in place to implement pinyon/juniper removal and other conservation measures to increase Sage-grouse habitat; and (3) funding was available to implement the conservation measures in the right areas. This is one reason why restricting oil and gas development on general habitat not only threatens economic activity, jobs, and local communities, but also important state conservation programs that are restoring Sage-grouse populations in Utah.

“I have always believed that . . . Utah is better positioned to manage our Sage-grouse populations than the federal government.”

Many of Utah’s elected officials have issued very direct warnings about the impact of these new plans on economic activity and the public land use in Utah.

Governor Gary Herbert (R-UT)

“I am deeply concerned with the decisions of the Departments of Interior and Agriculture which constitute a significant overreach by the federal government on this issue. The state of Utah has implemented a successful Sage-grouse conservation plan that has been rejected by the federal government, jeopardizing conservation of the species and reasonable economic growth in Utah.

“Today’s actions constitute the equivalent of a listing decision outside the normal process and fail to support an appropriate balance between conservation and other public uses of the land. The state is not satisfied with the Records of Decision on land use plan amendments as issued by the Bureau of Land Management (BLM) and the U.S. Forest Service (USFS). Their one-size-fits-all approach does not reflect the tremendous diversity in greater Sage-grouse habitats across the West. These federal land use plan amendments are unnecessarily restrictive in nature and devalue Utah’s management plan and the conservation commitments from private landowners.



Governor Gary Herbert (R-UT)



Congressman Chris Stewart (R-UT)

“I have always believed that, as a state, Utah is better positioned to manage our Sage-grouse population than the federal government. Utah has in fact adopted a strong conservation plan designed to protect, enhance and restore Sage-grouse habitats throughout the state. This effort by Utah has resulted in the restoration of more than 500,000 acres of Sage-grouse habitat and a significant growth in Sage-grouse populations. We will continue to work with the Departments of Interior and Agriculture to accept the State of Utah’s conservation plan. We will also pursue legislative and potential judicial relief to protect the state’s interests and ensure conservation of the species.”

Congressman Chris Stewart (R-UT)

“While the Interior Department’s decision not to list the sage grouse is a small step in the right direction, I remain fearful that the Federal land use plans will be just as onerous as an ESA listing. I am fully confident that states are more motivated and better suited than the federal government to maintain healthy sage grouse populations. The fact that Fish and Wildlife has deemed a listing not necessary shows that the western states efforts at conservation have worked. The states have been successful at protecting the sage grouse while maintaining jobs and the economy, and the federal government should follow suit in their land management plans.”



Congressman Rob Bishop (R-UT)

**House Natural Resources Committee Chairman -
Congressman Rob Bishop (R-UT)**

"This announcement changes nothing. It was an act of fundamental dishonesty. The Sage Grouse problem is no better solved today than it was yesterday before this announcement. Despite the Administration's decision, as long as the BLM is able to impose its will on the state of Utah by changing its land management plans as if the bird were listed, defense readiness will suffer. Large tracts of military test and training ranges will be off limits if the Administration has its way. Language I included in NDAA is now more vital than ever. It allows state plans that protect the Sage Grouse to go into effect, and prohibits the BLM from gaining greater control over land than they already have. Using effective state plans rather than a federal lands plan is better for the state. Without this language the federal government will continue to abuse the states, shortchange the taxpayer and weaken the military."

"As long as the BLM is able to impose its will on the state of Utah by changing its land management plans as if the bird were listed, defense readiness will suffer."

--Congressman Rob Bishop



Congressman Scott Tipton (R-CO)

Congressman Scott Tipton (R-CO)

Colorado has been at the forefront of implementing locally-tailored sage grouse preservation efforts, and a federal ESA listing would have jeopardized those efforts. The work being done at the state, local and federal level, which includes voluntary conservation and species protection on the part of landowners and government, is having a positive impact. We have heard abundant testimony from scientific and conservation experts that these locally-tailored plans are far more effective for species preservation than a one-size-fits-all federal approach. Unfortunately, the 'not warranted' decision is expected to be accompanied by the signing of the final federal land use plan amendments, which will still jeopardize this local preservation approach. These amendments will severely restrict ranching, recreation and energy and minerals development, including a likely mineral withdrawal of between 9-10 million acres, all of which will be devastating to local economies. While the 'not warranted' decision is welcome, the implementation of equally oppressive land use plans, which do nothing to improve on the work already being done locally to preserve the grouse, still leaves Colorado and other Western communities in a worrisome situation.

“We have heard abundant testimony . . . that these locally-tailored plans are far more effective.”

Senator Steve Daines (R-MT)

While it is good news that the sage grouse is not listed as an endangered species, I remain concerned that the Obama administration's land-use plans will have a harmful impact on Montana's economy, our land users and Montanans' way of life. The fact remains, sage grouse numbers have increased in the west by nearly two-thirds since 2013. Montana needs to continue take the lead on sage grouse conservation and I hope BLM can revise their plans to allow Montana to do so. Because a sage grouse can't tell the difference between federal, state and private lands, Montana should take the lead not a bunch of out of Washington, D.C. bureaucrats.



Senator Steve Daines (R-MT)

Governor C.L. Butch Otter (R-ID)

While I appreciate Secretary Jewell's public recognition of local and state efforts to preserve the species and its habitat, the question behind a 'not warranted' determination is: 'At what cost'? For months now, the federal government's initially transparent and collaborative process has been replaced by closed-door meetings and internal memoranda. That's resulted in a land management scheme for Sage-grouse habitat that remains a mystery to property owners and state and local wildlife advocates alike. The feds are asking us to trust them. It's not that simple and unfortunately this is far from over. I remain committed to do what's best for the species and people of Idaho.

"For months now, the federal government's initially transparent and collaborative process has been replaced by closed-door meeting and internal memoranda."

--Governor C.L. Butch Otter

Senator Mike Crapo (R-ID)

While a 'not warranted' decision is better than a listing determination under the Endangered Species Act, the Department of Interior's reliance on heavy-handed land-use management plans to arrive at this decision is unacceptable. The Department ignored much of what the Idaho Sage Grouse Task Force recommended and, instead, opted to move forward with top-down federal lands-use management plans. While the agency cited collaboration as the basis for its decision, the move to abandon the state's planning process that adequately addressed true threats to the bird—namely the impact of wildfires and invasive species on sagebrush habitat—will ultimately lead to greater uncertainty for sage grouse populations in the future.

rely on a locally-driven, collaborative process to conserve the Sage-grouse, but this process changed when it came to Washington, D.C. The two main threats to the greater Sage-grouse in Idaho are fire and invasive species. The Secretary adopts a plan that relies heavily on regulation of the mining, oil, and gas industries when it should focus more heavily on fire control. Today's announcement serves as political cover for another top-down mandate that will not be the best prescription for Sage-grouse in Idaho.

Senator Jim Risch (R-ID)

While I am pleased Secretary Jewell has acknowledged the greater Sage-grouse population is on the rebound, I am concerned the regulations generated by the Department of the Interior to reach this decision will do little to continue the recent population rebound in Idaho. We had pressed DOI early on to

Congressman Mike Simpson (R-ID)

For years, state and federal partners have worked toward the not warranted listing that was issued today, and, given the impact that a listing decision would have on Idaho and the West, I am pleased with the Fish and Wildlife Service's determination. That being said, I recognize that this decision does not come without a price. There has been widespread concern about the impact of the federal land management plans, especially from the states, which felt their recommendations in this process were disregarded.



Idaho Congressional Delegation: Congressmen Raul Labrador (R-ID) and Mike Simpson (R-ID), Senators Jim Risch (R-ID) and Mike Crapo (R-ID)

Whether the price we pay for a not-warranted decision will be too high remains to be seen. In the meantime, I will continue working with both federal and state agencies to see that the real threats to Sage-grouse habitat, including wildfire, can be addressed.

Senator Dean Heller (R-NV)

This is not a win for Nevada. Even though the Fish and Wildlife Service has decided the greater Sage-grouse doesn't merit protections under the Endangered Species Act, the Department of the Interior's final 'federal plans' pose major threats to many Nevadans' long-term way of life and success.

This has been an issue of the Department of the Interior using the threat of a listing to get what it really wanted all along: limiting Nevadans' access to millions of acres of land equal to the size of the state of West Virginia. At the end of the day, Big Government continues to tighten its grip at the expense of rural America's future, especially in Nevada.

Rather than addressing the real threats to Sage-grouse habitat in our state - wildfire, the spread of invasive species, and wild horse and burro mismanagement - these new regulations simply restrict Nevadans' access to millions of acres of public lands. Nevadans hate to see the federal government further limit the use of their public lands. I will continue to fight these unnecessary restrictions and work with our Congressional delegation on policies that protect our environment, grow our economy, and support our western ways of life.



Senator Dean Heller (R-NV)

Broad-Based Congressional Support

Support in Congress acknowledges the need for more balanced common-sense protections afforded by state management plans. Efforts to exert draconian regulatory measures over non-endangered species by federal land regulators is a concerning new precedent.

For these and other reasons, Congressional interest has remained considerable in protecting the more proactive, balanced, and less restrictive plans of Western states. In fact, on November 5, 2015, 76 members of Congress from 35 states signed a “Dear Colleague Letter” in support of Congressional protections for state management of Sage-grouse.

The letter reads as follows:

We are writing to request that you include in any FY2016 spending measure language preventing the Interior Department from moving forward with the highly restrictive Resource Management Plan Amendments (RMPs) that are inconsistent with Greater Sage Grouse conservation planning at the state level.

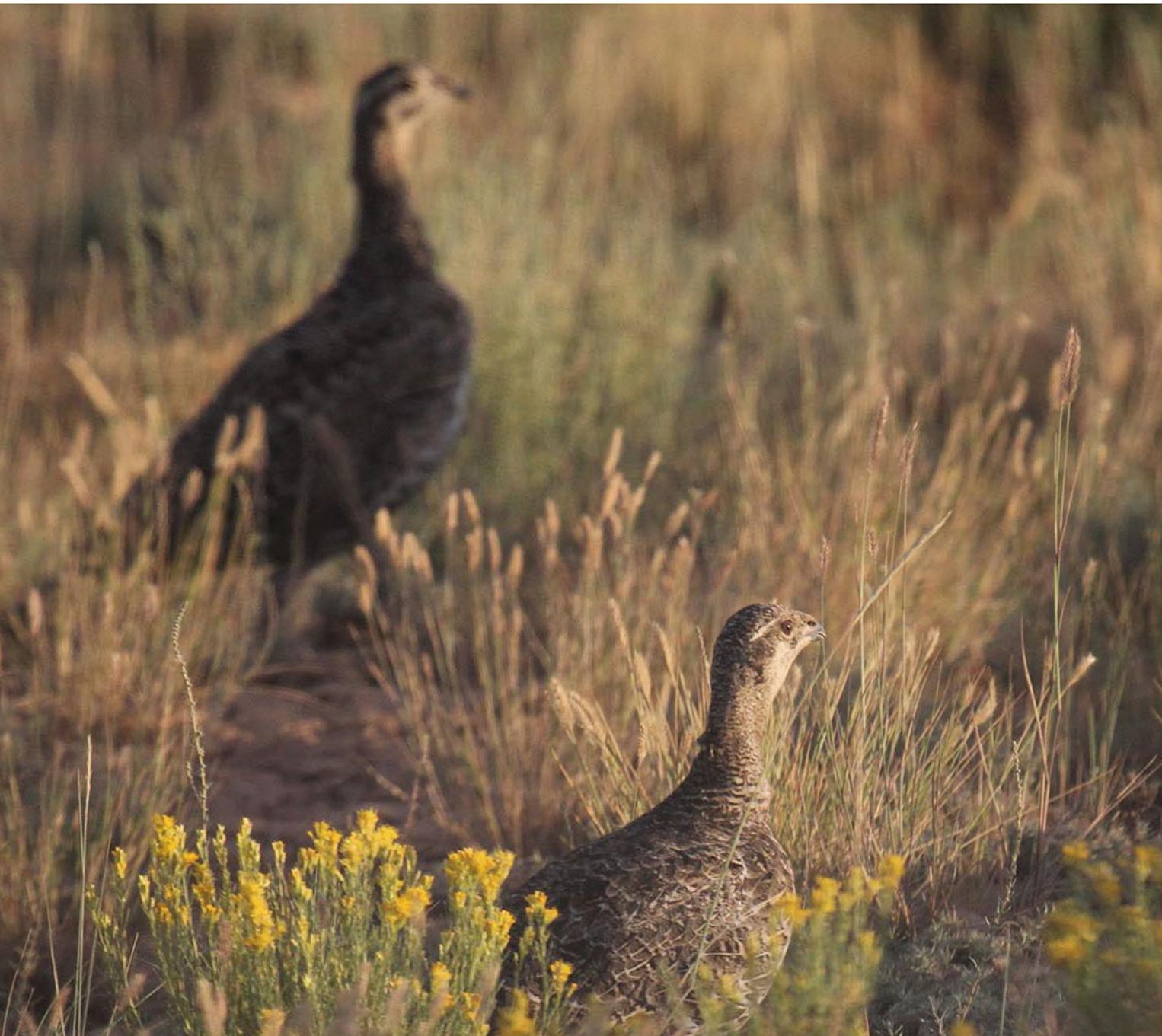
The U.S. Department of Interior recently announced that, while it would not consider listing the Greater Sage Grouse as threatened or endangered under the Endangered Species Act (ESA) for five years, it would instead move rapidly forward with RMPs which would result in land use restrictions on millions of acres of public lands. In many cases, the RMPs are as restrictive as a formal listing under the ESA.

The Obama Administration’s scheme to use the Sage Grouse as the excuse to institute restrictive RMPs to shut down virtually all development on large swaths of public lands in the West, particularly oil, gas, and mineral development, will have a devastating impact on state and local economies.

The Administration’s actions will have a negative impact on our nation’s energy and natural resource independence. Furthermore, the Greater Sage Grouse is not truly endangered. Its population is greater today than it has been in recent years thanks to the concerted efforts of several States which have implemented at their own expense comprehensive Sage Grouse Recovery plans. One can purchase a hunting license for Sage Grouse in several states. With few exceptions, the RMP restrictions far exceed common-sense measures developed by states to more effectively balance conservation with the needs of their citizens.

Environmental Groups have further indicated that they would challenge the Interior Department’s 5-year listing deferral in federal court within the next few months. The potential for





“This amendment balances conservation with national security... There are also multiple examples already of state plans which are effectively managing and conserving Sage-grouse populations. We need to give time for these state plans, orchestrated by folks closest to the land and to the issue at hand, to be fully implemented and to accomplish their goal of protecting this bird.”

H. R. 527

To provide for the conservation and preservation of the Greater Sage Grouse by facilitating State recovery plans, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

JANUARY 13, 2017

Mr. BISHOP of Utah (for himself, Mr. SIMPSON, Mr. AMODEI, Mr. GOSAR, Mr. STEWART, Mrs. LOVE, Mr. LABRADOR, Mr. CHAFFETZ, Mrs. MCMORRIS RODGERS, Mr. TIPTON, and Ms. CHENEY) introduced the following bill; which was referred to the Committee on Natural Resources

A BILL

To provide for the conservation and preservation of the Greater Sage Grouse by facilitating State recovery plans, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

SECTION 1. SHORT TITLE.

This Act may be cited as the “Greater Sage Grouse Protection and Recovery Act of 2017”.

SEC. 2. PROTECTION AND RECOVERY OF GREATER SAGE GROUSE.

(a) DEFINITIONS.—In this section:

(1) The term “Federal resource management plan” means—

(A) a land use plan prepared by the Bureau of Land Management for public lands pursuant to section 202 of the Federal Land Policy and Management Act of 1976 (43 U.S.C. 1712); or

(B) a land and resource management plan prepared by the Forest Service for National Forest System lands pursuant to section 6 of the Forest and Rangeland Renewable Resources Planning Act of 1974 (16 U.S.C. 1604).

(2) The term “Greater Sage Grouse” means a sage grouse of the species *Centrocercus urophasianus*.

(3) The term “State management plan” means a State-approved plan for the protection and recovery of the Greater Sage Grouse.

(b) PURPOSE.—The purpose of this section is—

(1) to facilitate implementation of State management plans over a period of multiple, consecutive sage grouse life cycles; and

(2) to demonstrate the efficacy of the State management plans for the protection and recovery of the Greater Sage Grouse.

(c) ENDANGERED SPECIES ACT OF 1973 FINDINGS.—

(1) DELAY REQUIRED.—During the period beginning on the date of the enactment of this Act and ending on September 30, 2027, the Secretary of the Interior may not alter or invalidate the finding made by United States Fish and Wildlife Service on October 2, 2015, under section 4(b)(3)(B) of the Endangered Species Act of 1973 (16 U.S.C. 1533(b)(3)(B)) with respect to the Greater Sage Grouse (80 Fed. Reg. 59857 et seq.).

(2) EFFECT ON OTHER LAWS.—Paragraph (1) shall apply without regard to any other statute, regulation, court order, legal settlement, or any other provision of law or in equity.

(3) EFFECT ON CONSERVATION STATUS.—Until September 30, 2027, the conservation status of the Greater Sage Grouse under the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq.) shall remain not warranted for listing under such Act.

(d) COORDINATION OF FEDERAL LAND MANAGEMENT AND STATE CONSERVATION AND MANAGEMENT PLANS.—

(1) PROHIBITION ON WITHDRAWALS AND MODIFICATION OF FEDERAL RESOURCE MANAGEMENT PLANS.—Effective upon notification by the Governor of a State with a State management plan, neither the Secretary of the Interior nor the Secretary of Agriculture may exercise authority under section 204 of the Federal Land Policy and Management Act of 1976 (43 U.S.C. 1714) to make, modify, or extend any withdrawal of, nor amend, revise, or otherwise modify any Federal resource management plan applicable to, Federal lands in the State in a manner inconsistent with the State management plan for a period, to be specified by the Governor in the notification, of at least five years beginning on the date of the notification.

(2) RETROACTIVE EFFECT.—In the case of any State that provides notification under paragraph (1), if any amendment, revision, or modification of a Federal resource management plan applicable to Federal lands in the State was issued after June 1, 2014, and the amendment, revision, or modification altered management of the Greater Sage Grouse or its habitat, implementation and operation of the amendment, revision, or modification shall be stayed to the extent that the amendment, revision, or modification is inconsistent with the State management plan. The Federal resource management plan, as in effect immediately before the withdrawal, amendment, revision, or modification, shall apply instead with respect to management of the Greater Sage Grouse and its habitat, to the extent consistent with the State management plan.

(3) DETERMINATION OF INCONSISTENCY.—Any disagreement regarding whether an amendment, revision, or other modification of a Federal resource management plan is inconsistent with a State management plan shall be resolved by the Governor of the affected State.

(e) RELATION TO NATIONAL ENVIRONMENTAL POLICY ACT OF 1969.—With regard to any Federal action consistent with a State management plan, any findings, analyses, or conclusions regarding the Greater Sage Grouse or its habitat under the National Environmental Policy Act of 1969 (42 U.S.C. 4331 et seq.) shall not have a preclusive effect on the approval or implementation of the Federal action in that State.

(f) REPORTING REQUIREMENT.—Not later than one year after the date of the enactment of this Act and annually thereafter through 2027, the Secretary of the Interior and the Secretary of Agriculture shall jointly submit to the Committee on Energy and Natural Resources of the Senate and the Committee on Natural Resources of the House of Representatives a report on the Secretaries' implementation and effectiveness of systems to monitor the status of Greater Sage Grouse on Federal lands under their jurisdiction.

(g) JUDICIAL REVIEW.—Notwithstanding any other provision of statute or regulation, this section, including determinations made under this section, shall not be subject to judicial review.

On March 28, 2017, United States Senators from states which hold approximately 90% of America's Sage-grouse sent a letter to Senator Thad Cochran, Chairman of the Senate Appropriations Committee. The letter urged the inclusion of S. 273, the Greater Sage-grouse Protection and Recovery Act of 2017 in must pass appropriations legislation for fiscal year 2017. The letter states in part:

In September of 2015, the Obama Administration's Department of Interior announced it would not consider listing the Greater Sage Grouse as threatened or endangered under the Endangered Species Act (ESA) for a period of 5 years...Instead of offering regulatory relief, the Department of Interior announced new restrictions on millions of acres of public lands

using Resource Management Plan (RMP) Amendments, which are in many cases are as restrictive as formal ESA listings. These new restrictions are unnecessary and do not address the real needs of Sage-grouse...Due to the threat of Endangered Species Act lawsuits, a 31-year history of petitions to list and repeated litigation, this issue can only be solved by Congressional Action.

The full text of the March 28, 2017 letter is included on the following two pages.



United States Senate
WASHINGTON, DC 20510

March 28, 2017

The Honorable Thad Cochran
Chairman
Senate Committee on Appropriations
Washington, D.C. 20510

Dear Senator Cochran:

We write to request your support for S. 273, the Greater Sage-Grouse Protection and Recovery Act of 2017. Because this issue has enormous implications for Western states, we ask the inclusion of this language be a priority as you negotiate the legislative vehicle for funding the remainder of Fiscal Year 2017.

In September 2015, the Obama Administration's Department of the Interior announced it would not consider listing the Greater Sage Grouse as threatened or endangered under the Endangered Species Act (ESA) for a period of five years. This was the third listing decision on Greater Sage-grouse in just ten years. Instead of offering regulatory relief, the Department of Interior announced new restrictions on millions of acres of public lands using Resource Management Plan (RMP) Amendments, which are in many cases as restrictive as formal ESA listings. These new restrictions are unnecessary and do not address the real needs of Sage-grouse. Moreover, they maximize negative impacts on our nation's energy and natural resource independence.

Due to the threat of Endangered Species Act lawsuits, a 31-year history of petitions to list and repeated litigation, this issue can only be solved by Congressional action. The proposed language provides a ten-year window for state conservation plans to demonstrate their efficacy without being mired by unnecessary RMP restrictions or new litigation.

We have the utmost confidence in state conservation efforts. Each one of our states have spent millions of dollars on collaborative efforts to implement extensive on-the-ground conservation aimed at protection and recovery. These scientifically proven solutions have already demonstrated significant benefits for Sage-grouse, a species that is widespread geographically and includes approximately 500,000 animals. Thanks to these comprehensive, state developed recovery plans, Greater Sage-grouse populations are robust and growing.

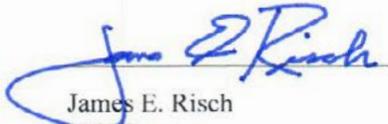
The decades long effort by special interest groups to use the ESA to administer one-size-fits all land use policy on 165,000,000 acres of public land does a disservice to Sage-grouse and the citizens of Western states. Considering the number and distribution of Greater Sage-grouse and the Obama Administration's decision not to list the bird, it is

essential that regulatory and litigation relief be provided to western states. Congressional action is the best solution to protect the species and the rich tradition of state management of non-endangered wildlife.

We reiterate our request to make inclusion of the full legislative language in S. 273, the Greater Sage-Grouse Protection and Recovery Act of 2017, part of the final Fiscal Year 2017 spending package the highest priority. This is the best course of action for the Greater Sage-grouse as well as hard working Americans across the eleven impacted western states.

Thank you for your consideration of our request.

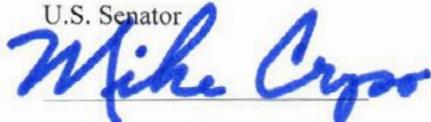
Sincerely,



James E. Risch
U.S. Senator



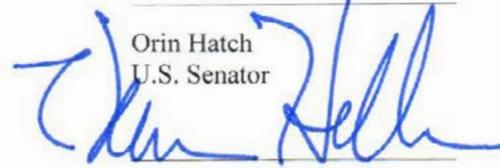
Mike Enzi
U.S. Senator



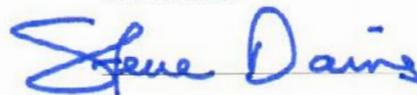
Mike Crapo
U.S. Senator



Orin Hatch
U.S. Senator



Dean Heller
U.S. Senator



Steve Daines
U.S. Senator



H.R. 527 and S. 273 provide important protections for state wildlife management of Greater Sage-grouse by:

1. *Ensuring that new state management plans are the primary mechanism for management of the species. This follows decades of precedent for non-endangered species.*
2. *Providing a 10-year period of time for state Sage-grouse management plans to demonstrate their efficacy.*
3. *Providing a litigation safe harbor during the 10-year period so plans can work without further interference from repeated lawsuits filed by anti-use groups.*

There have been three determinations not to list Greater Sage-grouse as an endangered species in the past 10 years. A fourth decision in just 15 years is not needed. Instead, providing a 10-year period of time for state conservation efforts to demonstrate their efficacy will provide the greatest conservation lift for the species. The bill also addresses repeated lawsuits by activists that are creating challenges to state management of Sage-grouse. This bill restores the original intent of the Endangered Species Act for non-listed species and provides a balanced approach to protecting state wildlife protections for Greater Sage-grouse.

Executive Order to review Federal Management Plans for Greater Sage-grouse

On June 8, 2017, Interior Secretary Ryan Zinke signed Secretarial Order 3353 to address serious concerns of Bureau of Land Management and Forest Service Record's of decision on the name of Sage-grouse. The secretarial order specifically or-

ders a review of federal plans to ensure conservation plans are implemented in ways that do not impede local economic opportunities. The secretarial order establishes an internal review team that will evaluate both federal sage grouse plans and state plans and programs to ensure they are complementary and are consistent with local economic growth and job creation.

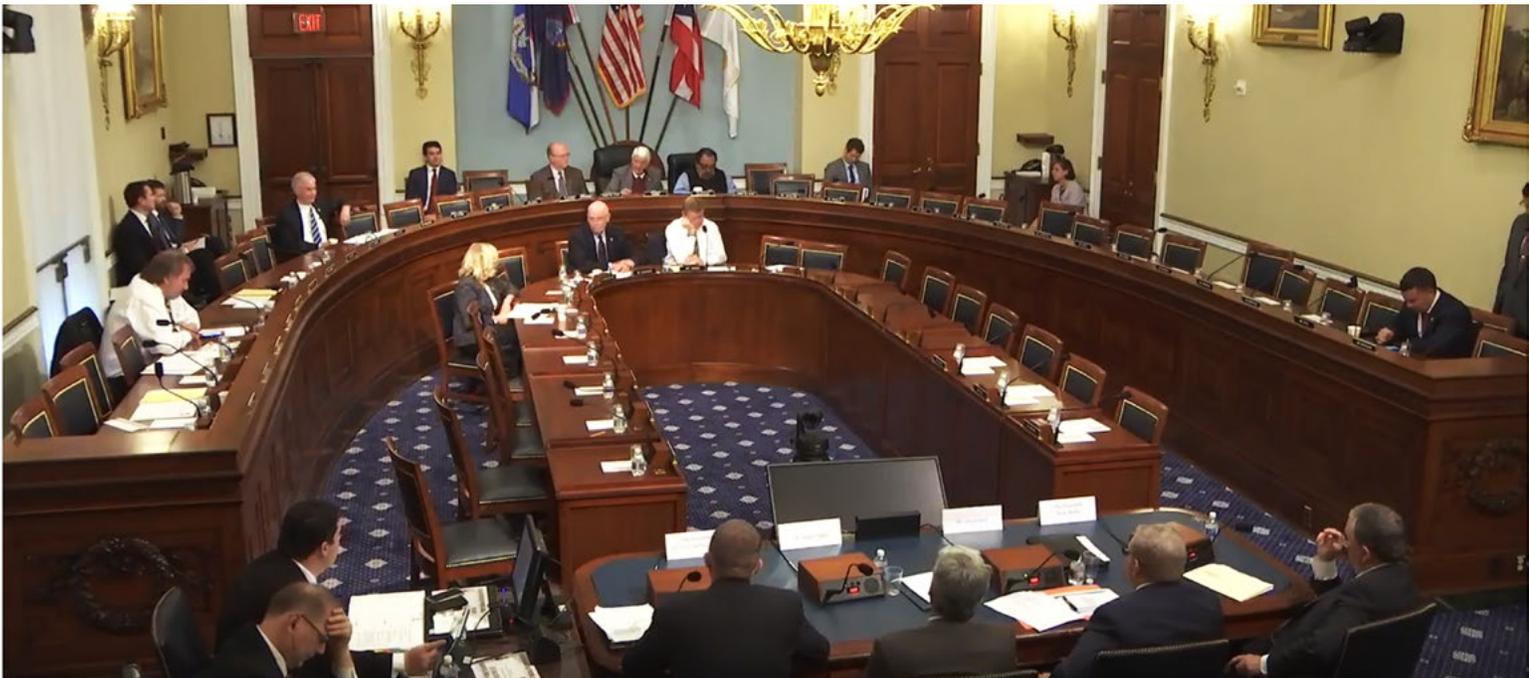
"While the federal government has a responsibility under the Endangered Species Act to responsibly manage wildlife, destroying local communities and levying onerous regulations on the public lands that they rely on is no way to be a good neighbor," said Secretary Zinke. "State agencies are at the forefront of efforts to maintain healthy fish and wildlife populations, and we need to make sure they are being heard on this issue. As we move forward with implementation of our strategy for Sage-grouse conservation, we want to make sure that we do so first and foremost in consultation with state and local governments, and in a manner that allows both wildlife and local economies to thrive."

The Secretarial Order is consistent with statements made by Secretary Zinke during his confirmation hearings that he understand each state has different needs and issues and is committed to working with them and local communities.

The secretarial order is a sign of progress in our efforts to protect Utah's plans for Sage-grouse conservation. It is also consistent with objectives of H.R. 527 and S. 273 which ensure federal plans are consistent with state management authority over non-endangered Sage-grouse. For the full Press Release from the U.S. Department of Interior visit: <https://www.doi.gov/pressreleases/secretary-zinke-signs-order-improve-Sage-grouse-conservation-strengthen-communication>.

Natural Resources Oversight Hearing on Sage-grouse

On Wednesday, October 25, 2017 the U.S. House of Representatives Committee on Natural Resources held an Oversight Hearing on empowering state based management solutions for greater sage grouse recovery. Representatives from western states testified about the impacts of federal restrictions and success of state management plans.



Four witnesses testified about the importance of state-based sage-grouse management and concerns regarding 2015 federal resource management plans and their impacts on Greater Sage-grouse and their habitats. Scott Bedke, Speaker of the Idaho House of Representatives, Darrin Bird, Deputy Director, Utah Department of Natural Resources, J.J. Goicoechea, Chairman of the Board of Eureka County Commissioners, and John Tubbs, Director, Montana Department of Natural Resources and Conservation were the four witnesses who gave statements at the hearing.

The witnesses explained that each state has unique issues to deal with when managing Sage-grouse habitat. These issues included wildfire, invasive species, the varied topography, and other unique needs of sage grouse in each state. They explained why a one-size-fits all approach does not fit the needs of Sage-grouse across the Western United States. A prominent theme was the importance of protecting state management of the birds and addressing federal resource plans departure from the needs of the birds in the various states. Their testimonies are included below.

Scott Bedke - Idaho

Mr. Chairman and members of the Committee, thank you for the invitation to testify regarding the importance of protecting state sage-grouse conservation in the West. We appreciate your efforts to provide congressional protections for Idaho's sage-grouse plans.

I am the Speaker of the House in the state of Idaho and a charter member of the Governor of Idaho's sage-grouse task force. I am also perhaps uniquely positioned to testify regarding the greater sage-grouse. My brother and I run a family ranching operation. For five generations, our family has operated in the heart of greater sage-grouse habitat in the Great Basin of southern Idaho and northern Nevada. We understand the needs of greater sage-grouse. Our ranching operation is designed to operate according to the best available science and methodology to benefit the greater sage-grouse and its habitat.

Idaho's sage-grouse conservation efforts are designed to address the conservation of sage-grouse in the state of Idaho using the best available science. That science determined that the largest threat to the sage-grouse population in the Great Basin is, Number one, wildfire, and Number two, the invasive plant species that proliferate after a large fire. The best science also says that livestock grazing is a "second tier" threat—and then only if the grazing is carried out improperly. Proper livestock grazing is not deemed to be a threat at all.

All of the sage-grouse stakeholders were disappointed in the Federal land management agencies' disregard for the decades of science and expertise upon which Idaho's sage-grouse plans are predicated. Instead of adopting Idaho's sage-grouse plan, the 2015 Federal land use plan amendments seek to punish livestock grazing with unreasonably large lek (breeding ground) buffers and impossible minimum stubble height requirements. If, as the science says, wildfire is the Number one threat to the sage-grouse population, then Federal plan amendments that further restrict livestock grazing create an increased fuel load, thus making the habitat much more susceptible to larger and more frequent wildfires. The amendments are counterproductive to sage-grouse conservation.

This past summer, my family witnessed firsthand how good intentions and a total lack of practical knowledge can backfire. Lightning started a range fire on one of our grazing allotments on the Nevada-Idaho border. The fire burned approximately 500



Scott Bedke, Speaker of the House of Representatives - Idaho

“The next day, the fire started again and burned approximately another 20,000 acres, all of which was in sage-grouse habitat”

acres and was declared out and contained, and the fire crews left. The next day, the fire started again and burned approximately another 20,000 acres, all of which was in sage-grouse habitat.

As the fire began to build again, the hardworking firefighters showed up with their firefighting equipment. To our surprise, most of the heavy equipment sat unused for hours. The fire continued to grow and get more out of control. Why? Because Federal regulations prevented the use of firefighting equipment since a “Cat tender” had not shown up. A “Cat tender” is a person who walks in front a bulldozer as the fire line is created, in order to assure that no historical artifacts are disturbed. However, most of the time the fire line is laid down in areas that have already been disturbed, such as an existing road or fence line, as it was in this case—thus obviating the need for archaeological clearance or cat tending. So instead of extinguishing the fire, thousands of acres of prime sage-grouse habitat burned. In fact, essentially the entire winter unit of our allotment was consumed in one large catastrophic wildfire.

These dangerous situations will be made worse by restrictions on fuel control activities such as grazing. There is nothing wrong with using a "Cat tender." But Federal red tape resulted in a perverse outcome. Rather than being able to quickly assess the situation on the ground and doing the right thing, those on the ground did not have the decision-making authority to adapt to a quickly escalating wildfire.

What we are talking about here is using common sense.

There seems to be a growing trend in Federal resource planning of ignoring the needs of the western states, to say nothing of the decades of wisdom and practical experience we can offer. Let me speak more specifically: catastrophic wildfire is the top concern in Idaho sage-grouse habitats. Our plans are designed to address the factors which can result in catastrophic wildfire. Federal sage-grouse plans not only ignore Idaho's science and our decades of experience in addressing these contributing factors, but they will actually make the situation worse.

Let me explain how this happened. Anti-grazing activists have been filing lawsuits for decades to list livestock grazing as one of the threats to the greater sagegrouse. Their theory has been to reduce AUMs by requiring a minimum stubble height on the range. Their justification is a completely unproven theory that a minimum stubble height requirement will help grouse hide from ravens and crows who predate on sage-grouse nests. Because ravens and crows have been literally unmanaged for decades due to Federal restrictions on predator control, their numbers far exceed historic levels. As a result, in many places, nest predation by ravens and crows is somewhere in the range of 60–90 percent of the sage-grouse nests. So rather than implement predator control to reduce nest predation, the BLM and Forest Service adopted unproven stubble height restrictions that will result in fewer AUMs.

In addition, there are common-sense changes that can be employed in firefighting protocols. In the process of placating anti-grazing activists, Federal agencies have made the Number one threat to the greater sage-grouse in Idaho worse. In fact, these Federal amendments, if left to stand, will create an explosive wildfire situation throughout the Great Basin. This shows a lack of common sense and ignores the threat assessment and the best available science upon which the

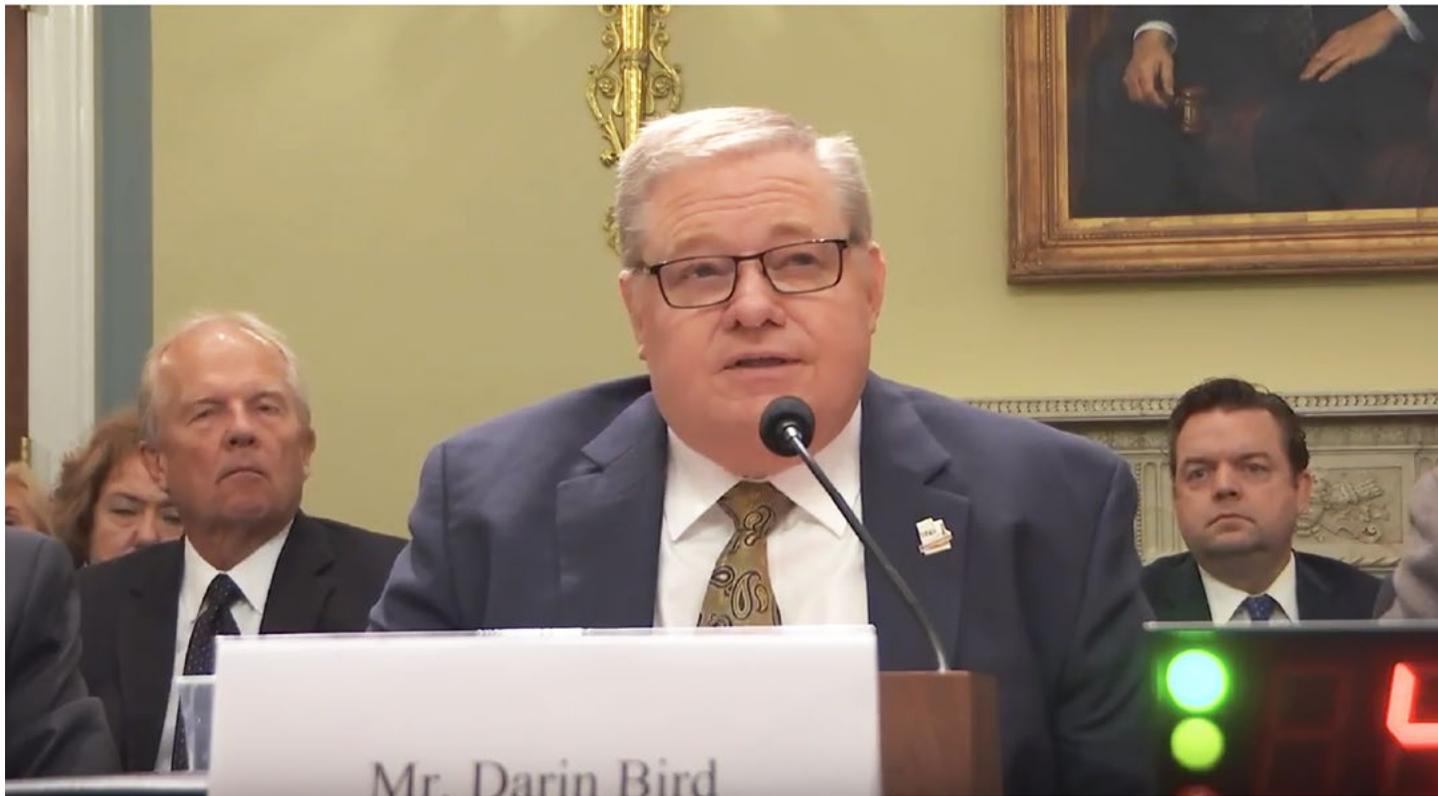
states' sagegrouse plans are based.

Mr. Chairman and members of the Committee, since 2014 we have been meeting with you and your staff regarding the coming disaster of these Federal sage-grouse plan amendments. The very things which we warned against were adopted by the BLM and Forest Service. This summer, our family witnessed the catastrophic wildfire which we had predicted could occur. More Federal regulation is not helping sage-grouse and their habitats; in fact, it is hurting. Placating anti-grazing, antisportsmen, and radical anti-use activists is making the situation on the ground worse for the greater sage-grouse. Good intentions are not good enough for the people of the West. These plans are bad for the West, bad for jobs, and bad for sagegrouse.

We are encouraged by Chairman Bishop's sage-grouse legislation. Western states have invested \$750 million to address the needs of sage-grouse. These state conservation measures need to be respected and protected. The previous administration's 2015 BLM and Forest Service sage-grouse plans are misguided at best, catastrophic at worst. These plans are based on restrictions on human activity rather than addressing the real threats of pinyon/juniper encroachment, wildfire, and post-wildfire effects, which account for the greatest challenges to sage-grouse habitat in the state of Idaho and across the Great Basin. Instead, these plans seem to be based on the Wyoming and Colorado sage-grouse plans which do not, and will not, work for Idaho.

This past winter, Governor Butch Otter and I visited congressional leaders and expressed Idaho's strong support for reversing these Federal sage-grouse plan amendments and providing congressional protections for Idaho's conservation measures. For the last 20 years, sage-grouse populations have been steady or increasing in Idaho and across the West. We are committed to sage-grouse conservation in the state of Idaho. For 30 years, radical environmental activists have been petitioning to list this bird and have been filing lawsuit after lawsuit. Greater sage-grouse are not endangered. State conservation plans are working to protect and conserve sage-grouse and their habitat. It is time to take congressional action to protect the state plans. Please give the state-based plans a chance and some time to work. We in Idaho are committed to their success.

Thank you.



Darin Bird, Deputy Director, Utah Department of Natural Resources - Utah

Darin Bird - Utah

Chairman Bishop, Ranking Member Grijalva and members of the Committee, thank you for the kind invitation to testify today. I am appearing on behalf of Governor Gary Herbert and kindly ask that a copy of his written testimony be included as part of the hearing record as well.

It is easy to come and testify against unpopular Federal programs. However, that is not my purpose today. I am here to talk about one of our successes and what is needed to protect sage-grouse, western habitats, and hardworking Americans.

Catastrophic wildfire has become a major concern across the American West. This year, the Federal Government has spent \$2 billion on wildfire control. This is a new record and a tremendously burdensome expenditure for the American taxpayer.

When it comes to sage-grouse, our Number one concern in the state of Utah is wildfire. In 2007, Utah experienced a severe wildfire season. One catastrophic wildfire burned over 300,000 acres in central Utah. As a state, we assessed the problem and took action. We raised millions of dollars in private and state funding. We began to address the root causes of catastrophic wildfire in sage-grouse

“Over 500 private, state, and Federal partners have contributed to this program financially. We have invested over \$160 million and treated approximately 1.3 million acres.”

habitats and began to restore Utah watersheds.

This program, The Utah Watershed Restoration Initiative, has completed hundreds of projects in the last 10 years. Over 500 private, state, and Federal partners have contributed to this program financially. We have invested over \$160 million and treated approximately 1.3 million acres. In just 9 years we have cut the number of wildfires in sage-grouse habitat by 50 percent. We have almost no catastrophic wildfires in our sage-grouse habitat. In fact, total acres burned since these efforts began



has been one-fifth of what it was before we started these conservation actions. . . this has saved 514,552 acres of sage-grouse habitat in the last 9 years. It has also saved tens of millions of dollars in wildfire fighting costs in the state of Utah.

These projects do more than just control wildfire. They restore our watersheds, native vegetative communities, and dramatically enhance habitat for wildlife. These areas are wetter, produce more runoff, and they dramatically increase the resilience and redundancy of habitats for sage-grouse. Our researchers are documenting dramatic measurable improvements in habitat utilization, nesting success, and population response of sage-grouse in these restored areas.

By every measure, this program has been a resounding success for sage-grouse and sage-grouse habitat.

I am here to do more than just share a feel good success story of a program that is working. I am here to protect these programs. In 2015, the Obama administration adopted land use plan amendments aimed at imposing more regulations on human activity on millions of acres across the state of Utah. These Federal sage-grouse plans may be well intentioned, but they are a threat to the partnerships, funding, and collaboration that makes Utah's Watershed Restoration Initiative Work.

Here is the problem: the state of Utah relies on economic activity in areas outside of our Sage

Grouse Management Areas to help pay for Utah's Watershed Restoration Initiative. These new regulations have essentially brought much of the new economic activity in areas outside of Utah's SGMAs to a standstill. What this means is that funding from mitigation, sportsmen, and state tax revenues are being lost. This threatens the one program, (i.e. the Watershed Restoration Initiative) that is doing the most to protect and restore sage-grouse in the state of Utah.

Good intentions do not make good policy. My earnest petition is that Congress let the people who are impacted the most enact the policies needed to protect our families, and our communities. I am asking you to protect a program that is unrivaled in the Nation.

The success of our Watershed Restoration Initiative in restoring and protecting sage-grouse is one of the reasons why Utah's legislature passed a nearly unanimous bipartisan resolution in support of a bill introduced by Congressman Bishop to protect Utah's sage-grouse conservation efforts. Take action and pass legislation that to protect the proven on-the-ground conservation programs that are working for sage-grouse, sage-grouse habitats, and hard-working Americans.

Thank you very much and I look forward to answering any questions that you may have.

John Tubbs – Montana

Good morning, Mr. Chairman, Ranking Member Grijalva, and members of the Committee. My name is John Tubbs, and I am the Director of the Department of Natural Resources and Conservation and the Chairman of the Montana Sage Grouse Oversight Team. Thank you for the opportunity to provide Montana's perspective on how Congress and the Administration can effectively empower state management for the greater sagegrouse.

I have three main points today. First and foremost, the states have been and will continue to be empowered if Congress and the Administration recognize and support the long history of bipartisan state-led collaboration to conserve the greater sage-grouse across its range in the West.

States have served as the primary convener of diverse stakeholders for decades, and have been the primary drivers of policy initiatives, targeting sage-grouse conservation through the Western Association of Fish and Wildlife Agencies and the Western Governors' Association Sage Grouse Task Force. Congress and the Administration should continue to give deference to state leadership and should avoid actions that undermine years of collaborative efforts among our partners.

Montana finalized its most recent plan in 2015. It too is grounded in the work of diverse stakeholders, and continues with an all lands/all hands approach. Montana's plan aligns closely with Wyoming's plan, only with a greater emphasis on private lands, where most of Montana's best sage-grouse habitat occurs. It also has a broad bipartisan support of the Montana State Legislature.

Our stakeholders are directly engaged with our state program on a regular basis. They continue to

John Tubbs, Director, Department of Natural Resources and Conservation - Montana



express support for how the Federal plans and state plans work together in concert toward Montana's common shared goal of precluding the need to list the greater sage-grouse under the ESA, so that we maintain authority to manage our lands, our economy, and our wildlife.

Second, Congress and the Administration can empower states by avoiding policy changes that foster uncertainty and hold the potential to land sage-grouse on the Endangered Species Act list. The conclusion that the sage-grouse did not warrant listing in 2015 was predicated on the fact that Federal and state land use plans provide the certainty required to demonstrate that the threats would be reduced in approximately 90 percent of the breeding habitat and a majority of the occupied range.

These regulatory mechanisms did not exist in 2010, when it was determined that a listing was warranted. Congress and the Administration should avoid changes that undermine the foundation of the 2015 not-warranted finding, and must consider how future risks of listing may disproportionately impact states.

Montana is concerned that the potential changes to Federal plans may erode the very underpinnings that were critical to achieving the conservation rangewide of sage-grouse, and that it was sufficient to avoid listing in 2015. State plans alone are not sufficient. Montana believes potential legal issues could arise from taking a hasty and narrow view toward changing Federal plans. A thoughtful analysis is needed to identify elements of Federal plans that were necessary to conserve habitat and that were relied upon by the Service when it concluded that the listing was not warranted. Any changes that would undercut the efficacy of the conservation measures to address threats and measured against the best-available science should make us pause to reconsider.

Finally, states can be supported by efforts to adaptively implement land use plans to address changing conditions, use new science, build consistency across ownerships with state conservation strategies. The Administration should use all available tools, including the issuance of guidance, instruction memoranda, training, and other strategies to build consistencies. The Administration must exercise due diligence, and consult with states prior to embarking on the costly, time-consuming plan amendments.

We spent 3 years developing those plans in Montana, engaging with our state BLM, multiple years working our state plan. We are in the process of implementing those plans, and believe that the next 3 years is most profitable, working together with our Federal partners toward the 2020 consistency review by the Service, as opposed to going back into plan amendment processes.

With that, thank you for your time today.



J.J. Goicoechea, Chairman of the Board of Eureka County Commissioners - Nevada

J.J. Goicoechea - Nevada

Nevada can't carry out our own legislatively mandated management of sagegrouse and habitat in our state because the Federal agencies elected to once again take a heavy handed top down approach to management. Wildlife is the responsibility of the state in which they reside. If a species is not on the Endangered Species List, it should be the state making decisions for the species.

The major threats to the GS in Nevada are fire and invasive species that often invade the ecosystem after fire. Nevada is working diligently with the BLM in an attempt to limit the size and severity of wildland fires in our state and to better manage invasive species. We continue to encounter hurdles as we work to decrease fuel loading invasive annual grass seed loads. The vast majority of these hurdles at the District Office level arise from the 2015 LUPAs. Habitat objectives for the GS included in the LUPAs are a recipe for disaster when considering their impacts on fire behavior. Grazing allotments in SG habitat need to meet the objectives contained in Table 2.2. This table, while perhaps ideally what SG would like to have for habitat is nothing more than a tool to further limit multiple use on Federal lands, and in the process allow for fuel loading and the continues spread of invasive species. How can the driest state in the Nation address its top threat to SG, fire, when a table being used by BLM employees to manage lands is defining habitat as having a minimum of 7 inches of droop height. When managing for a native deep rooted perineal plant to have 7 inches of height in the summer months, what do you think we are also managing for?

It is no secret that cheatgrass is the Number one invasive plant threat in Nevada today. Cheatgrass greens up early, ahead of native perineal plants and takes the nutrients and water from the soil before the native plants growing season. As we wait idly by with our rulers and yard sticks, hoping the native grasses get to 7 inches, hoping we maintain a canopy cover of shrubs for nesting, we are allowing gasoline to grow unchecked. By June, the cheatgrass is over a foot tall in places, it is cured, meaning seed heads have developed, it is no longer palatable to animals and it waves in the wind waiting for a spark. When the spark comes, Nevada's Number one threat to sage-grouse and sage-grouse habitat once again devastates the ecosystem. Fires of 200,000 acres plus gobble up islands of previously unburned habitat and annihilate restoration efforts in old burn scars. We are seeing the same areas burn again and again. What is the first step taken when this happens? Remove the one tool that could have prevented severity of the fires in the first place, grazing.

This last summer a prime example of this occurred in Nevada. Late spring a ranching operation asked the BLM if they could stay on an allotment for a few more weeks beyond the permit. The reason for this was that a large buildup of fuel due to two back to back record winters was being seen. The ranching operation knew this fuel loading was going to be an issue and they had livestock there and were willing to make changes in order to help. The answer from the agency was no. The fear of litigation by doing something outside a set a sideboards drives decisions like this daily. So despite repeated requests

to stay longer and reduce fuel, the livestock were moved. The Rooster Comb Fire ignited on Sunday, July 9 at 4:00 p.m. Before it was contained, it burned nearly 220,000 acres of sage-grouse habitat.

Now large fires were not unusual this summer, but this fire was the result of repeated attempts to rehabilitate an area that has burned numerous times over the past few decades. Livestock grazing had been excluded from the area during recent rehabilitation efforts and this year grazing was allowed, but as mentioned above, not effectively to help alleviate the Number one threat to sage-grouse in Nevada. So while the birds in the area of the Rooster Comb Fire may very well have ideally wanted 7 inches of deep rooted perineal plants across the landscape with at least 25 percent shrub cover, they now have 220,000 acres of zero cover, no perineal plants, and another attempt to restore burned habitat begins with the issuance of a livestock grazing closure decision for the area.

Paul Gosar – Arizona, Scott Bedke – Idaho, and J.J. Goicoechea - Nevada

Dr. GOSAR. Speaker Bedke, it is good to see you again. Given the litigation risks, the time it would take to once again amend 98 management plans, and that the Forest Service has not even started to unwind their Obama plan amendments, do you agree with me that Congress must act and kill these 98 politically amended Obama plans, once and for all?

Mr. BEDKE. Yes, Congressman, I do.

Dr. GOSAR. Would such actions provide the most certainty in the timeliest manner for the local stakeholders?

Mr. BEDKE. Yes, it certainly would, and here is the irony. We are holding up the Obama administration rules as the standard by which all sage-grouse should be managed. And our state plans were compliant under that administration. They were blessed by that administration. And then, to guild the lily, if you will, at that point smacks of over-reach.

We were on a good path. All we need is for everybody to roll it back to the way it was and let the state plans work. Montana's plan is going to look different than Idaho's. That is because the underlying topography is way different. Idaho is going to have similarities to Nevada's and Utah, but we have zero oil and gas. So, our mix is going to be different. And to have other states say that, if I may, I just heard that if Idaho changes its plan, or if the management is changed in Idaho, that that somehow threatens Montana. Nothing could be further from the truth. But I do take issue with the

fact that Idaho is providing off-site mitigation for these other states. That is not right. We have a plan. Hold us to a standard, give us the numbers, describe point B, and turn us loose, again, back to all the stakeholders that we had at the table. This was not a myopic group. It was broad-based. And we came up with a plan, a consensus plan, that was eventually endorsed by the then-Obama administration. These can work. Just give us the time, get out of our way and give us some time to let it work. With all due respect, that is my point here today.

Dr. GOSAR...Dr. Goicoechea, it is good seeing you again. A couple of questions for you. At the risk of over-simplifying the issue, why would other state management plans not work for Nevada?

Dr. GOICOECHEA. Our threats, our topography are very different, Congressman. While Speaker Bedke says fire and invasives are the same in Idaho, we are the driest state in the Union, and no one knows that better than those of us that make a living off the land. We cannot apply prescriptions from Montana to Nevada. They will not work.

Dr. GOSAR. Well, I am extremely grateful to Secretary Zinke and the acting BLM Director Nedd for their actions to unwind the bureaucratic mess of the previous administration, which was preventing effective state management of the sage-grouse recovery.

And while taking steps to unwind the de factor sage-grouse listing through the administrative action is welcome, Congress must act in order to provide timely and permanent certainty on this issue for local stakeholders in the western communities. Thank you.

Congressman Dr. Paul A. Gosar - Arizona



Raul Labrador – Idaho and Scott Bedke – Idaho

Mr. LABRADOR. ...Speaker, in 2011, when Secretary Salazar invited western states to partner with the Federal Government to work on solutions related to sage-grouse, how did the state of Idaho respond?

Mr. BEDKE. We responded with enthusiasm. In the formal conversations and the informal conversations that we had, we took this as an opportunity to help plan our own destiny. For once, it looked like the locals would be empowered to solve a broad-based problem. It was what we have been talking about for decades. And we went into it with good faith. We had a lot of meetings, a lot of discussions. Again, this was not a homogenous group. And we had a good work product come out of that. So, you can only imagine our disappointment when the goal line was moved, and the rules changed.

Mr. LABRADOR. Absolutely. What role did the Federal agencies in Idaho play during that process?

Mr. BEDKE. They were in the room. We had all of them in the room. And it is not like they got pre-decisional, but they certainly were able to communicate kind of a warmer, warmer, colder, colder type of an approach as we noodled and contemplated and had discussions on what the plan might look like. And we had Jack Connelly, you know, he wrote the sage-grouse bible. He was in the room the whole time. And our plan reflected what was good for the bird at every turn.

Mr. LABRADOR. Did these agencies approve of the plan?

Mr. BEDKE. Certainly, yes. The U.S. Fish and Wildlife Service ultimately blessed the plan. I don't think that is the proper terminology, but endorsed it, and it became the co-preferred alternative, with the BLM, under the NEPA process.

Mr. LABRADOR. You have mentioned that the main threat to sage-grouse in Idaho is fires. Is that correct?

Mr. BEDKE. Yes. Not just I, but that is what the science says.

Mr. LABRADOR. Correct. Do the Obama administration plans address these threats?

Mr. BEDKE. Well, the old plan did, because baked into the Idaho plan were robust, firefighting measures, some of the things that I have talked about

here, having if-then statements. You know, if the fire starts here, then it is OK to put a fire line there, and getting all the clearances ahead of time so that you have an algorithm, basically—if the fire is in this section, then it is OK to do this other list of things. So, fire was integral, and its control was in the middle of all these plans.

Mr. LABRADOR. What could be done to make firefighting more effective to better protect sage habitat?

Mr. BEDKE. Thank you. I have alluded to that at the time. The firefighters know how to put out fires. We hamstring them, and tie their hands with Federal regulatory overlay. They are as frustrated, that day that we went from 500 acres to 20,000 acres was a frustrating day for the guys on the fire line, it was a frustrating day for the ranchers, whose livelihood and the ability to feed their livestock was going up in smoke. And to have the heavy equipment sit on a truck because there was no Cat tender there, someone to walk in front of it as they put the line in, by an existing road that had already been disturbed by existing fence lines that had already been disturbed, was counterproductive.

By anyone's standard, they ought to be able to make on-the-ground decisions. If we are going to tie their hands on the ground, then let's give them an algorithm ahead of time that they can have in their file, so that they can say it started in this quadrant, so therefore I can do these things. And we have touched all the archeological, historical, cultural, other species concerns ahead of time when you are not under the gun of having a fire.

Mr. LABRADOR. And it is not just frustrating, but it is more dangerous for the firefighters, too, is it not?

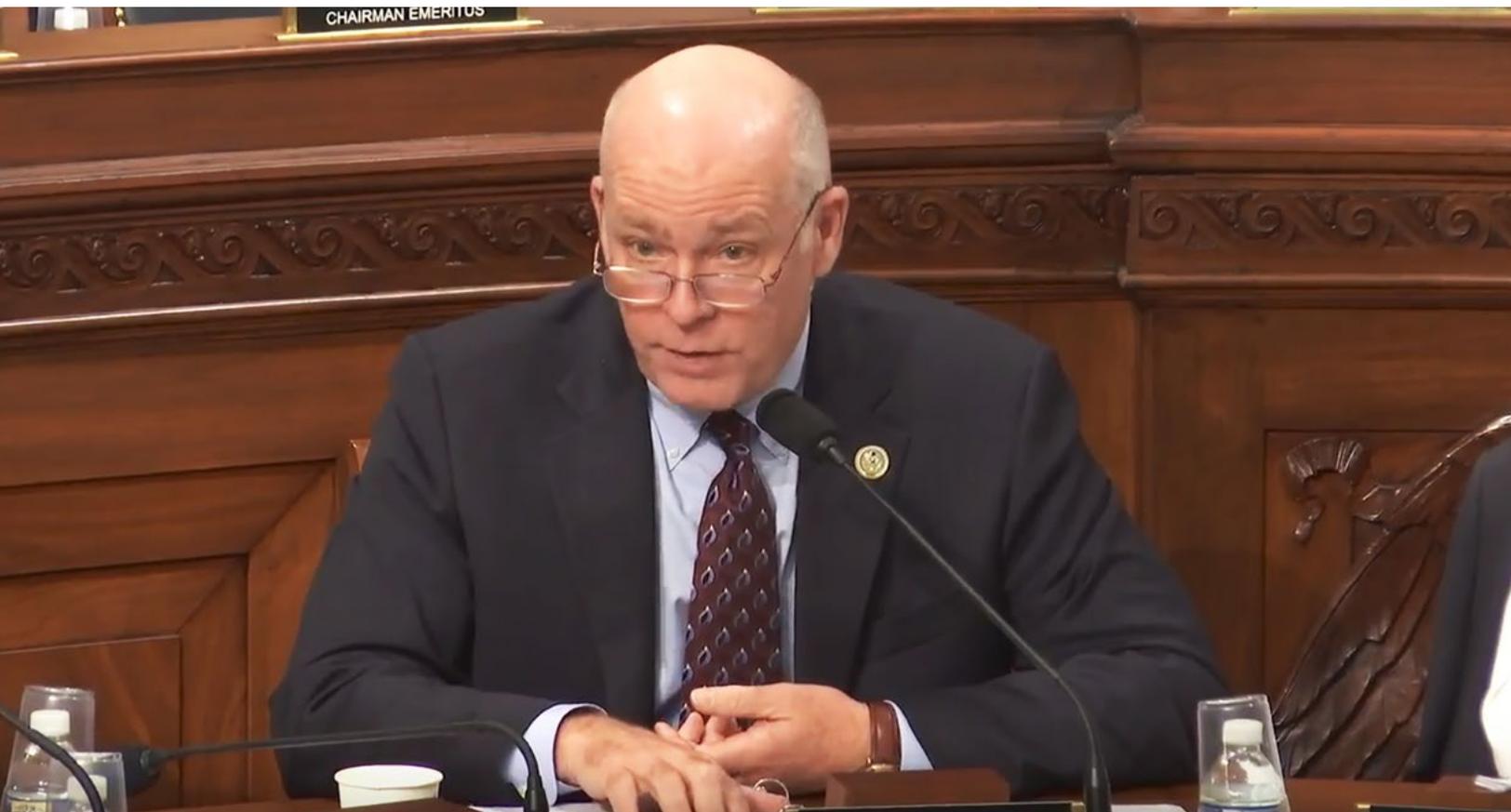
Mr. BEDKE. Well, certainly.

Mr. LABRADOR. Yes. Are you aware of the notice of intent that was recently released by the Department of the Interior?

Mr. BEDKE. Yes.

Mr. LABRADOR. Can the existing plans that affect Idaho be fixed, or do they need to be completely repealed and replaced with a state plan?

Mr. BEDKE. I think that we need to be able to roll back the Federal plan amendments to go back to the state's plan, so that each state has a plan that works in their locality. I applaud these other states, they should applaud us, and we should go back to the state plans.



Congressman Greg Gianforte - Montana

Greg Gianforte – Montana and Darin Bird - Utah

Mr. GIANFORTE. OK. Mr. Bird, you testified that you have actually cut the wildfire impact on sage-grouse by 50 percent, protecting over 500,000 acres. Can you just go into a little more detail on how you did that, and what should we do at the Federal level to encourage that behavior or get out of the way?

Mr. BIRD. Every acre of pre-suppression saves a ton of money in the end. And we know, as states, as local entities, where our greatest threats are. And the key is working those areas. Whether it is sage-grouse habitat or whether it is near communities, we know where those threats are. And it is a matter of getting ahead of ourselves and doing that pre-suppression work.

Oftentimes, as we know, when the fire season goes on and Federal money gets fewer and further between, the Forest Service, for instance, will go over budget on their fire. And what goes first?

That pre-suppression money that could have been on the ground and could have prevented those fires in the first place.

Mr. GIANFORTE. So, reducing fuel loads, doing preparation actually reduces the intensity and the severity of the fires?

Mr. BIRD. Right. And just following up on Speaker Bedke, we have a new program in Utah called the catastrophic fire program, and that is getting into those local fire districts, getting into those local areas, training them so that they can take care of those fires immediately.

In fact, I think it is closer to 90 percent of the initial fire attack in Utah is done by those local volunteer agencies. And if they are properly trained, they can do a remarkable job.

Mr. GIANFORTE. Again, I want to thank the panel here for your testimony today. It is clear that when there is more local control, we get better outcomes for the sage-grouse and for our local producers.

Rob Bishop - Utah

What you four gentlemen have illustrated is that every state is indeed different, and it has been brought out by several Members here. Every plan has to be different. If we really care about the bird, if we care about not just controlling anything, but rehabilitation of the species, it has to be done differently. And that was what the original intent that Secretary Salazar said. And at one time that was the approach that you all went through in coming up with state plans, and then it was cut off.

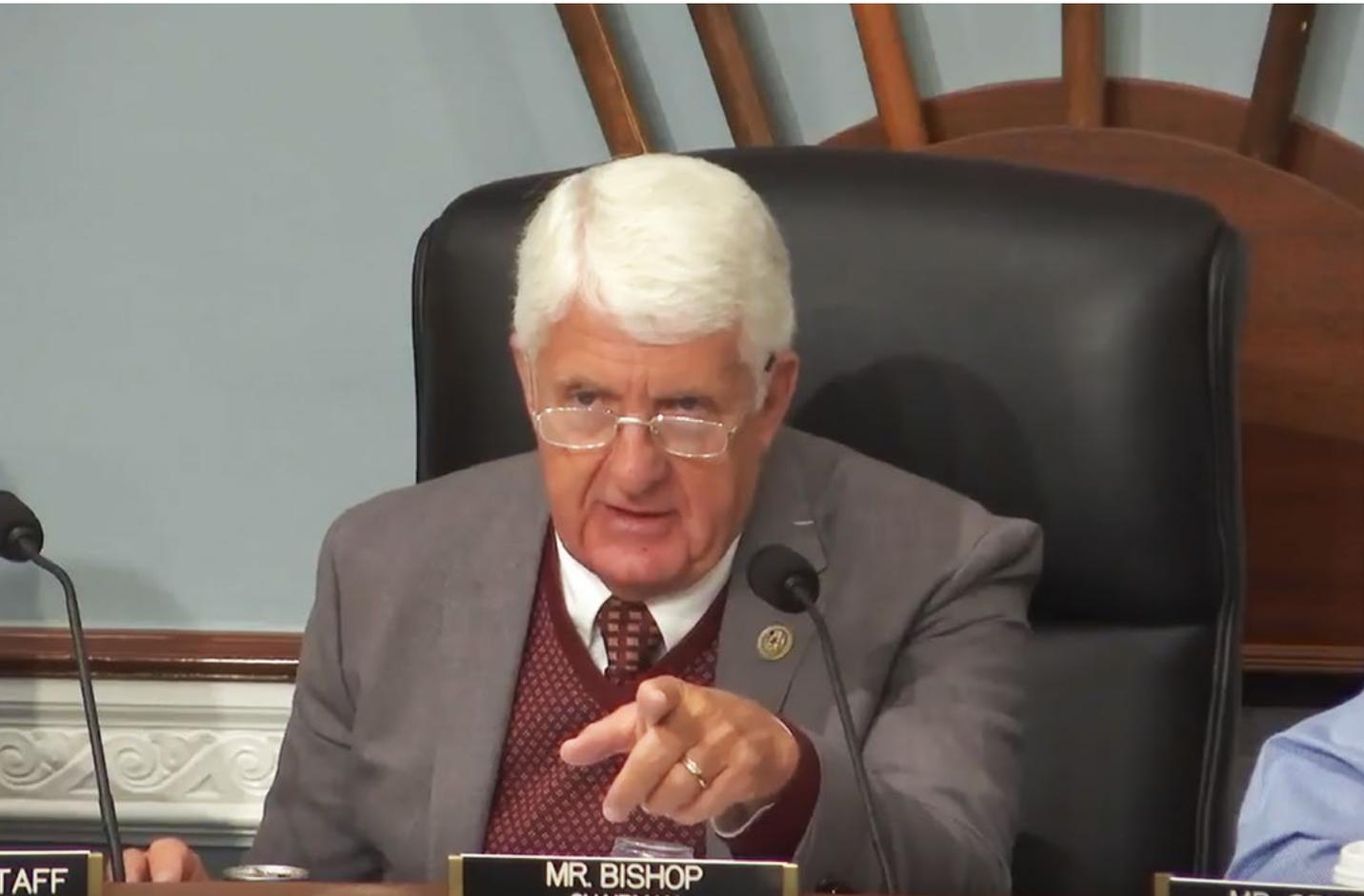
Mr. Tubbs, I think you said it. One time the governors were simply cut off of the process, and then brought back in afterwards. Too late. And that is why there have been a lot of lawsuits by governors from differ-

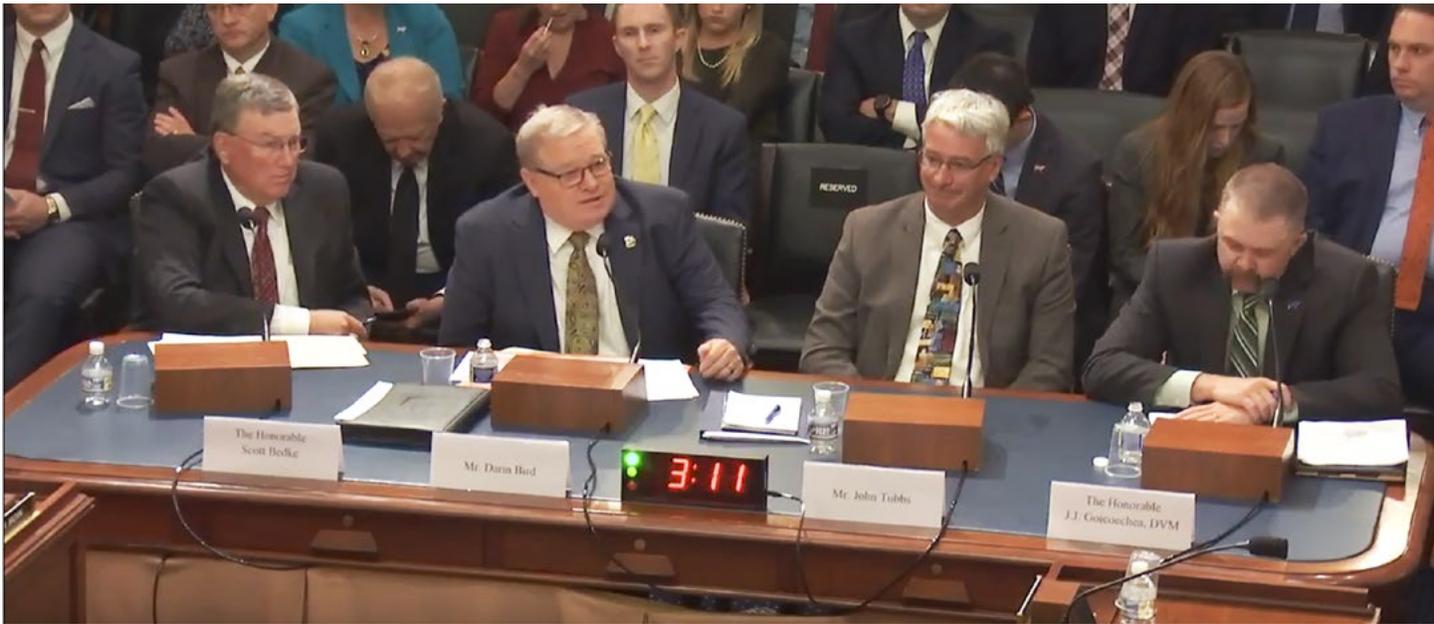
ent states in the West, because they were cut off and then brought back too late.

If we really want to solve this problem, you have to let state plans go into effect, and you have to give them a chance to show that they can actually accomplish their results, and that is going to take a couple of years to do that.

But what we are doing right now is wrong, and I applaud this Administration for trying to see if we can roll it back. But what we have to do is roll back in an intelligent way to make sure that the states are not only just given the authority, but also are not going to be limited in what their authority does by outside sources or outside limitations that come in there.

Congressman Rob Bishop, Chairman, Committee On Natural Resources- Utah





This hearing was an important step in restoring state management of sage-grouse. The witnesses explained the unique topography of each state, the differences in habitats, and varying needs of grouse in each state. They also explained how early hope for collaboration and involvement by federal regulators were replaced with one-sized fits all federal plans that ultimately ignored, and in some cases undermined the unique needs of the birds in each state. They described how the regulations in many cases not only miss the point, but actually have been detrimental to sage-grouse and their habitats. Witnesses talked about the need to restore state management of the birds and roll-back the unpopular and counterproductive Obama era land use plans. Members of the committee expressed their concern and spoke in favor of revisions to federal land use plans in favor of state-based conservation plans. Two members of the committee threatened a listing of sage-grouse if any efforts were made to revise the federal sage-grouse plans and restore state management of the birds.

JAMES E. RISCH
IDAHO

RUSSELL SENATE OFFICE BUILDING
SUITE 483
(202) 224-2752
FAX (202) 224-2573

United States Senate
WASHINGTON, DC 20510

COMMITTEES

ENERGY AND NATURAL RESOURCES
FOREIGN RELATIONS
SELECT COMMITTEE ON ETHICS
SELECT COMMITTEE ON INTELLIGENCE
SMALL BUSINESS AND ENTREPRENEURSHIP

January 30, 2018

The Honorable Thad Cochran
Chairman
Senate Committee on Appropriations
Washington, D.C. 20510

Dear Senator Cochran:

We write to ask for your support for including S. 273, the Greater Sage-Grouse Protection and Recovery Act of 2017, in the spending vehicle for the remainder of Fiscal Year 2018. This is a longstanding issue of federal overreach plaguing Western states, and it is imperative it be acted upon to not further infringe on public land use.

The most recent decision not to list the Greater Sage-Grouse under the Endangered Species Act (ESA) came from the Obama Administration in 2015. However, this was the third listing consideration in only ten years, which is unfortunately indicative of the multi-decadal struggle over management of the species. This most recent decision came with vague and far reaching land use restrictions in the form of Resource Management Plan (RMP) Amendments that were inconsistent with earlier management positions that came from the Obama Administration's own Department of Interior. Instead of honoring the collaborative and publically vetted state management plans, the RMPs were rushed through as a one-size-fits-all policy with little regard for varying needs of eleven unique Western states.

The Department of Interior under President Trump has been working to reevaluate the RMPs and not further inhibit conservation efforts and land use. However, this issue has spanned over multiple Administrations and must be codified to ensure states can properly manage land in the best interest of the Greater Sage-Grouse and local communities. This legislation allows for the use of the cooperative management plans developed by individual states and halts further listing consideration and litigation long enough for states' efforts to be tested and realized. The state management plans were developed on the ground by diverse and collaborative bodies. State efforts have already been effective and warrant time to prove themselves.

Sweeping land management policies that come from the federal government are not in the best interest of the species and land they intend to conserve or the communities they affect. Including the full text of S. 273, the Greater Sage-Grouse Protection and Recovery Act of 2017, in the spending package is the best recourse to protect Greater Sage-Grouse populations and maintain the rights of eleven Western States.

We appreciate your consideration.

SUITE 302
350 NORTH 9TH STREET
BOISE, ID 83702
(208) 342-7985

HARBOR PLAZA
610 HUBBARD, SUITE 213
COEUR D'ALENE, ID 83814
(208) 667-6130

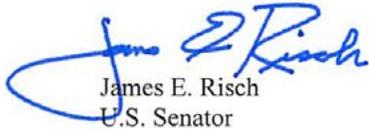
SUITE 106
313 D STREET
LEWISTON, ID 83501
(208) 743-0792

SUITE 290
275 SOUTH 5TH STREET
POCATELLO, ID 83201
(208) 236-6817

SUITE 201
1411 FALLS AVENUE E
TWIN FALLS, ID 83301
(208) 734-6780

SUITE 202A
901 PIER VIEW DRIVE
IDAHO FALLS, ID 83402
(208) 523-5541

Sincerely,



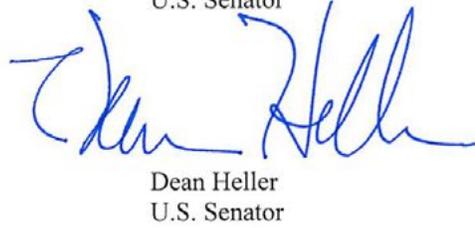
James E. Risch
U.S. Senator



Orrin Hatch
U.S. Senator



Mike Enzi
U.S. Senator



Dean Heller
U.S. Senator



Mike Crapo
U.S. Senator



Steve Daines
U.S. Senator

Consolidated Appropriations Act of 2018

The Consolidated Appropriations Act of 2018 included a major victory for state management of greater sage-grouse, further demonstrating Congress's commitment to address the issue in a manner favorable to the State of Utah.



Official whitehouse photo by D. Myles Cullen

On March 22, 2018 Congress passed a \$1.3 Trillion budget to keep the government operational through the end of the 2018 fiscal year. Section 120 in the bill states that none of the funds appropriated can be used to fund Sage-grouse protections, effectively defunding Federal efforts to consider listing the bird. See pages 131-132 for the full text of Section 120.

In the March 28th the Americans for Limited Government Op-Ed on the Appropriations Act Natalia Castro summarized some of the beneficial results of Section 120. She states:

While much of the recent Congressional omnibus bill has sparked controversy, one matter that can be celebrated was the defunding of the wasteful sage grouse initiative.

*Section 120 of the Consolidated Appropriations Act of 2018 explains, "None of the funds made available by this or any other Act may be used by the Secretary of the Interior to write or issue pursuant to section 4 of the Endangered Species Act of 1973 (16 U.S.C. 1533) a proposed rule for greater sage-grouse (*Centrocercus urophasianus*); a proposed rule for*

the Columbia basin distinct population segment of greater sage-grouse.”

This effectively prevents the sage grouse protections from being enforced because the funding will not exist. Congress will have to renew the prohibition every year, but there it is.

While this is a small step in removing environmentalist overreach, it allows for big steps in U.S. oil and gas production to be achieved. The sage grouse should have never been protected to begin with, it is thriving on the western planes, and now our economy can thrive there as well.

On January 30, 2018, six congressmen (James E. Risch – Idaho, Orin Hatch – Utah, Mike Enzi – Wyoming, Dean Heller – Nevada, Mike Crapo – Idaho, and Steve Daines – Montana) from Western states affected by Federal Sage-grouse plans sent a letter to Senator Thad Cochran, Chairman of the Appropriations Committee asking for Section 273 (which became Section 120) to be included in the bill.

In their letter the Senators recognize the recent efforts of President Trump’s Administration to evaluate Department of the Interior Sage-grouse Management policies. They also explain that the Sage-grouse issue has been going on for decades throughout multiple administrations and will continue to be an issue. Including the language in the bill allows the states to effectively manage Sage-grouse through their individual management plans that have been developed specific to each state’s needs. See pages 133-134 for the full text of the letter.

There was significant opposition from Democrats in Congress to the conditions Republicans included in the bill. As noted in a March 1st article in Politico:



Nita Lowey (D) - NY

“Democrats’ votes are needed in both the House and the Senate to enact appropriations law. And we will not as Democrats pass these poison-pill riders,” said Rep. Nita Lowey of New York, the House Appropriations Committee’s top Democrat.

“They want to hide these inside a must-pass appropriations bill. And people like myself and others say ‘You can’t do it, and we won’t allow it,’” said Leahy, ranking Democrat on the Senate Appropriations Committee.

Despite the opposition from the Democrats the Sage-grouse Language was included in the Bill that passed and was signed into law by President Trump. The explicit defunding of efforts to protect the Greater Sage-grouse demonstrates that Congress is committed to allowing states to manage and protect the bird and its habitat without federal interference until state efforts can be tested and results realized. This is yet another victory for the State of Utah.

“This legislation allows for the use of the cooperative management plans developed by individual states and halts further listing consideration and litigation long enough for state’s efforts to be tested and realized.”

- Jan 30, 2018 Letter from Western-state senators



MARCH 21, 2018

RULES COMMITTEE PRINT 115-66
TEXT OF THE HOUSE AMENDMENT TO THE
SENATE AMENDMENT TO H.R. 1625

**[Showing the text of the Consolidated Appropriations Act,
2018.]**

In lieu of the matter proposed to be inserted by the Senate, insert the following:

1 SECTION 1. SHORT TITLE.

2 This Act may be cited as the “Consolidated Approp-
3 riations Act, 2018”.

4 SEC. 2. TABLE OF CONTENTS.

Sec. 1. Short title.
Sec. 2. Table of contents.
Sec. 3. References.
Sec. 4. Explanatory statement.
Sec. 5. Statement of appropriations.
Sec. 6. Availability of funds.
Sec. 7. Adjustments to compensation.

**DIVISION A—AGRICULTURE, RURAL DEVELOPMENT, FOOD AND
DRUG ADMINISTRATION, AND RELATED AGENCIES APPROPRIATIONS ACT, 2018**

Title I—Agricultural Programs
Title II—Farm Production and Conservation Programs
Title III—Rural Development Programs
Title IV—Domestic Food Programs
Title V—Foreign Assistance and Related Programs
Title VI—Related Agencies and Food and Drug Administration
Title VII—General Provisions

**DIVISION B—COMMERCE, JUSTICE, SCIENCE, AND RELATED
AGENCIES APPROPRIATIONS ACT, 2018**

Title I—Department of Commerce
Title II—Department of Justice

1 SAGE-GROUSE

2 SEC. 120. None of the funds made available by this
3 or any other Act may be used by the Secretary of the Inte-
4 rior to write or issue pursuant to section 4 of the Endan-
5 gered Species Act of 1973 (16 U.S.C. 1533)—

6 (1) a proposed rule for greater sage-grouse
7 (*Centrocercus urophasianus*);

8 (2) a proposed rule for the Columbia basin dis-
9 tinct population segment of greater sage-grouse.

10 INCORPORATION BY REFERENCE

11 SEC. 121. (a) The following provisions of S. 1460
12 (Energy and Natural Resources Act of 2017) of the 115th
13 Congress, as placed on the calendar of the Senate on June
14 29, 2017, are hereby enacted into law:

15 (1) Section 7130 (Modification of the Second
16 Division Memorial).

17 (2) Section 7134 (Ste. Genevieve National His-
18 torical Park).

19 (b) H.R. 1281 as introduced in the 115th Congress
20 (A bill to extend the authorization of the Highlands Con-
21 servation Act) and H.R. 4134 as introduced in the 115th
22 Congress (Cecil D. Andrus-White Clouds Wilderness Re-
23 designation Act) are hereby enacted into law.

24 (c) In publishing this Act in slip form and in the
25 United States Statutes at large pursuant to section 112

Sage Grouse and NDAA

H.R. 5515 authorizes and prioritizes funding for the Department of Defense (DOD) and military activities and construction, and prescribes military personnel strengths for Fiscal Year 2019. The bill complies with the bipartisan budget agreement and authorizes \$639.1 billion in base funding.



Congressman Rob Bishop (R-UT 1st District) explains purpose of Sage-grouse language in the House Armed Services Committee.

Sage-grouse added by Amendment in Committee

In May 2018, the House Armed Services Committee began consideration of the H.R. 5515, the National Defense Authorization Act (the National Defense Authorization Act or "NDAA"). Congressman Rob Bishop (R-UT 1st District) offered language by amendment to provide protections for state management of sage grouse for a period of 10 years. Similar one-year provisions have included in the budget resolutions the last several years. The com-

mittee voted 33-28 to accept the Bishop resolution. The provision, Section 314 (see pages 138-140) entitled, "State Management and Conservation of Species," prevents a listing of sage grouse during the period to allow state management plans for sage grouse to continue to be implemented. The provision also includes protections to protect state plans from further needless and unproductive litigation. The House Armed Services Committee vote on final passage of the NDAA with a vote of 60-2, clearly demonstrating the strong level of support for the NDAA containing the Rob Bishop Language.

Discussing the inclusion of the Bishop Sage-grouse provision in the House NDAA, Roll Call explained:

The massive defense Authorization bill approved by the House Armed Services panel early Thursday morning is a consequential measure---but not for the reasons most people think...The parts of the sweeping authorization bill that will, in reality, have the most impacts are its often obscure policy prescriptions...

After discussing base closures, overhead cuts, expanded personnel, and other topics, the article goes to the inclusion of the Sage-grouse provision.

This would seem to be one of the less important provisions in the authorization bill. But that conclusion would be wrong. The House bill, as amended would keep two species-the sage grouse and the lesser prairie chicken-off the endangered species list for a decade. Supporters of the provision worry that protecting the bird on bases crimps usable space on training ranges. To the degree that arguments holds water, the provision would have a positive impact on the military.

Key Senator Weighs in on Sage-grouse Provision

In the days leading up to the consideration of the NDAA in the U.S. House of representatives, Senator Jim Inhofe (R-Oklahoma) was asked about the provision. The exchange, reported in the E&E article by Nick Sobczyk, dated May 21, 2018



Senator Jim Inhofe (R-Oklahoma)

entitled, Prospects for sage grouse rider's survival improve. The article explains:

Sage grouse policy has once again made it into the defense authorization bill thanks to House Natural Resources Chairman Rob Bishop (R-Utah), but this year, his provision may have a shot at becoming law...Sen. Jim Inhofe (R-Okla.) will likely handle the defense bill on the Senate side. The longtime ally of the energy industry is likely to be more amenable to Bishop's proposal. "If they've got it in there, we ought to be able to support that in conference," Inhofe told E&E news last week...Inhofe—who has been leading the Armed Services Committee in McCain's stead-said that the prairie chicken language is very important to him."



Lesser prairie chicken

E&E DAILY CONGRESS. LEGISLATION. POLITICS.

Fri., Jun. 22 Thu., Jun. 21 Wed., Jun. 20 Tue., Jun. 19 [Edition Archive](#) **SEARCH:** enter keyword [go!](#)

<< Back to table of contents.

DEFENSE

Prospects for sage grouse rider's survival improve

Nick Sobczyk, E&E News reporter
Published: Monday, May 21, 2018



Debate about sage grouse protections will again be part of deliberations surrounding the National Defense Authorization Act. Cindy Goeddal/Defenders of Wildlife

RESIZE TEXT SHARE PRINT

Advertisement



E&E NEWS
Houston hits a turning point after Harvey's devastation
BY MIKE LEE AND EDWARD KLUMP
[READ NOW](#)
A STORY YOU MAY HAVE MISSED

E&E Defense: Prospects of sage grouse rider's survival improve, Nick Sobczyk, May 21, 2018

Sage grouse policy has once again made it into the defense authorization bill thanks to House Natural Resources Chairman Rob Bishop (R-Utah), but this year, his provision may have a shot at becoming law...

"If they've got it in there, we ought to be able to support that in conference," Inhofe told E&E News last week.

Bishop, for his part, demurred when asked last week whether he thought he had better chances this year.

"We'll have to see what happens," he said...

Bishop's amendment — added during the NDAA markup earlier this month — would bar the Fish and Wildlife Service from listing the greater sage grouse under the Endangered Species Act for 10 years and delist the American burying beetle, a critically endangered species.

It would also prevent FWS from listing another bird that roams Inhofe's home state: the lesser prairie chicken.

Inhofe — who has been leading the Armed Services Committee in McCain's stead — said the prairie chicken language is "very important" to him.

"This issue has been with us now for almost 10 years," Inhofe said.

The issue is that federal sage grouse and lesser prairie chicken habitat managers can restrict military training ranges and airspace in vast swaths of the American West. The problem would be worse, Bishop and other Western lawmakers say, if either species were to be listed under the ESA.

"We are dealing with this issue in a broad sense in our committee, but this amendment specifically goes to the 27 ranges and the 19 training areas that are in the western United States," Bishop said at the NDAA markup.

Bishop says the Department of Defense supports his amendment, but Democrats cry foul, noting that DOD specifically said it did not need alterations to sage grouse policy last time Bishop brought the issue up (E&E Daily, April 27, 2016)...

Either way, the language will face its first test when the NDAA hits the House floor this week.

House Vote

After the passage of NDAA in committee, NDAA was considered by the full U.S. House of Representatives. On May 24th, 2018 the bill was passed by a vote of 351-66. In the strongly bi-partisan vote, 131 Democrats joined 220 Republicans in supporting the bill, once again demonstrating a strong level of support in Congress. All four members of Utah's congressional delegation voted in favor the NDAA

and have been helpful to ensure inclusion of section 314 in the NDAA. We continue to monitor progress of the NDAA through the United States Congress. Passage of the NDAA, including section 314, through the U.S. House of Representatives was an important step toward final passage of this legislation. We continued to support efforts to include section 314 in the conference version of the bill as suggested by Senator Inhofe in the following months.



IB

Union Calendar No. 521

115TH CONGRESS
2D SESSION

H. R. 5515

[Report No. 115-676]

To authorize appropriations for fiscal year 2019 for military activities of the Department of Defense and for military construction, to prescribe military personnel strengths for such fiscal year, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

APRIL 13, 2018

Mr. THORNBERRY (for himself and Mr. SMITH of Washington) (both by request) introduced the following bill; which was referred to the Committee on Armed Services

MAY 15, 2018

Reported with amendments, committed to the Committee of the Whole House on the State of the Union, and ordered to be printed

[Strike out all after the enacting clause and insert the part printed in italic]

[For text of introduced bill, see copy of bill as introduced on April 13, 2018]

1 **SEC. 313. EXTENSION OF AUTHORIZED PERIODS OF PER-**
 2 **MITTED INCIDENTAL TAKINGS OF MARINE**
 3 **MAMMALS IN THE COURSE OF SPECIFIED AC-**
 4 **TIVITIES BY DEPARTMENT OF DEFENSE.**

5 *Section 101(a)(5)(A) of the Marine Mammal Protec-*
 6 *tion Act of 1972 (16 U.S.C. 1371(a)(5)(A)) is amended—*

7 *(1) in clause (i), by striking “Upon request” and*
 8 *inserting “Except as provided by clause (ii), upon re-*
 9 *quest”;*

10 *(2) by redesignating clauses (ii) and (iii) as*
 11 *clauses (iii) and (iv), respectively; and*

12 *(3) by inserting after clause (i) the following new*
 13 *clause (ii):*

14 *“(ii) In the case of a request described in clause (i)*
 15 *made by the Department of Defense, such clause shall be*
 16 *applied—*

17 *“(I) in the matter preceding clause (I), by sub-*
 18 *stituting ‘ten consecutive years’ for ‘five consecutive*
 19 *years’; and*

20 *“(II) in clause (I), by substituting ‘ten-year’ for*
 21 *‘five-year’.”.*

22 **SEC. 314. STATE MANAGEMENT AND CONSERVATION OF**
 23 **SPECIES.**

24 *(a) SAGE-GROUSE AND PRAIRIE-CHICKEN.—*

25 *(1) IN GENERAL.—During the 10-year period be-*
 26 *ginning on the date of the enactment of this Act, the*

1 *conservation status of each of the Greater Sage-grouse*
2 *(Centrocercus urophasianus) and the Lesser Prairie-*
3 *Chicken (Tympanuchus pallidicinctus) under section*
4 *4 of the Endangered Species Act of 1973 (16 U.S.C.*
5 *1533) shall be not-warranted for listing.*

6 (2) *SUBSEQUENT DETERMINATIONS.—In deter-*
7 *mining conservation efficacy for purposes of making*
8 *any determination of such status after such 10-year*
9 *period, the Secretary of the Interior shall fully con-*
10 *sider all conservation actions of States, Federal agen-*
11 *cies, and military installations.*

12 (b) *AMERICAN BURYING BEETLE.—Notwithstanding*
13 *the final rule of the United States Fish and Wildlife Service*
14 *entitled “Endangered and Threatened Wildlife and Plants;*
15 *Determination of Endangered Status for the American*
16 *Burying Beetle” (54 Fed. Reg. 29652 (July 13, 1989)), the*
17 *American burying beetle (Nicrophorus americanus) may*
18 *not be listed as a threatened species or endangered species*
19 *under the Endangered Species Act of 1973 (16 U.S.C. 1531*
20 *et seq.).*

21 (c) *JUDICIAL REVIEW.—Notwithstanding any other*
22 *provision of statute or regulation, this section shall not be*
23 *subject to judicial review.*

Sage-grouse Language Removed From NDAA

The favorable Sage-grouse language that had been included in the house version of the NDAA was removed from the bill before it was passed. The language would have prevented listing the sage grouse as an endangered species for 10 years.



Letter from Democratic Senators

On July 14 2018, Ranking Member of the Natural Resources Committee Democrats, Raúl M. Grijalva (D-Ariz.) sent a letter to House and Senate Armed Services Committee leadership signed by 118 of his democratic counterparts in an effort to encourage removal of the Sage-grouse language from the National Defense Authorization (NDAA). The letter's con-

tent was summarized in a press release on July 17th from the Natural Resources Committee Democrats:

Ranking Member Raúl M. Grijalva (D-Ariz.), a member of the House-Senate conference reconciling the two chambers' versions of the National Defense Authorization Act (NDAA), sent a letter with 118 of his House Democratic colleagues this morning urging House and Senate lawmakers to remove language in the House version of the NDAA that weakens the

Endangered Species Act (ESA) and Marine Mammal Protection Act (MMPA). The letter, signed by House Minority Whip Steny Hoyer (D-Md.) among others, underscores public support for species protections and the need for strong and continuous oversight of endangered species health.

The House version of the NDAA prohibits the U.S. Fish and Wildlife Service (FWS) from listing the greater sage-grouse or the lesser prairie chicken under the ESA for 10 years and permanently delists the American burying beetle, which is currently protected under the law. The language, which the lawmakers say should be removed from the final bill, would allow greater development and resource extraction on those species' habitats, which benefits industry and harms at-risk species without increasing military readiness or improving national security.

An article in E&E News on July 13th entitled "Tough resource disputes at issue as NDAA talks launch" addresses how military readiness can be impacted:

Garett Reppenhagen, Rocky Mountain director with the Vet Voice Foundation...disagrees with Bishop on whether grouse and resource measures are germane in a defense bill. Still, the chairman and his allies have for years said resource rules affect the military.

The environmental permitting provision for so-called critical minerals, by Rep. Mark Amodei (R-Nev.), may generate even more controversy this time around. It would significantly reform and accelerate the National Environmental Policy Act review process for mines (E&E Daily, June 19).

"Without minerals like beryllium, copper and nickel, our troops wouldn't have fighter jets, body armor and advanced imaging technologies," National Mining Association President and CEO Hal Quinn said in a statement. "But the onerous mine permitting process in the U.S. has made us increasingly import-reliant, forcing us to look abroad for the minerals we already have here at home."

"The Administration, the Defense Department, and the Interior Department support the provision in question and believe that it could help the Department avoid any negative readiness impacts on military facilities should the species be listed as endangered under the Endangered Species Act."



Ranking Member Raúl M. Grijalva (D-Ariz.)

The Administration Defense Department and Department of Interior Support Sage-grouse Language in NDAA

In spite of the concerted effort from the Democratic members of Congress, the Trump Administration, The Defense Department and the Department of the Interior remained steadfast in its support of the language in the NDAA, recognizing the effects listing Sage-grouse under the Endangered Species Act can have on military readiness. An article from *The Hill* on July 19th reports:

The Department of Defense is clarifying its stance on a controversial amendment in the House National Defense Authorization Act (NDAA) that would keep a species of bird from being listed as endangered in the next ten years...

"The Administration, the Defense Department, and the Interior Department support the provision in question and believe that it could help the Department avoid any negative readiness impacts on military facilities should the species be listed as endangered under the Endangered Species Act," Pete Giambastiani, principal deputy assistant Secretary of Defense for legislative affairs said in a statement.

Sage-Grouse and Mule Deer Conservation and Restoration Act

On December 12, 2018 Congress passed the 2019 Farm Bill, which included legislation sponsored by Representative Chris Stewart, R-Utah, HR 3543 The Sage-grouse and Mule Deer Conservation and Restoration Act, allowing land managers and conservation organizations to work together more easily on vegetation management projects in sensitive Sage-grouse habitat areas.



The bill was introduced last year by Representative Stewart and Representative Scott Tipton, R-Colo. and was included in the 2019 Farm Bill which passed with an 87-to-13 vote in the Senate and 386-47 vote in the House. A press release from when the bill was introduced explains the need for the legislation:

In recent years, the rapid encroachment of invasive Piña and Juniper trees on sagebrush habitat has threatened sage-grouse and mule deer populations and created dangerous wildfire conditions. H.R. 3543 would allow the Bureau of Land Management (BLM) to quickly engage in habitat restoration and

proactive vegetation management projects to protect the species and improve ecological conditions.

Representative Stewart is quoted in the press release stating his reasoning for introducing the legislation:

In order to protect mule deer and sage-grouse populations in Utah and across the West, we must protect their habitat. The review process for vegetation management has become too cumbersome and time consuming. This legislation removes bureaucratic red tape and gives land managers the tools needed to protect and preserve this precious habitat.

Representative Tipton is also quoted in the release explaining how this legislation would streamline the process of protecting and restoring at-risk habitat:

The current vegetation management process isn't allowing Western states to keep up with the rapid growth of invasive species in sagebrush habitat. To combat invasive species effectively, we must streamline the process through which BLM must go to protect and restore threatened habitats and address potential areas of concern. Our bill cuts through the unnecessary red tape that has prevented BLM from acting quickly in the past.

Following the bill's successful passage on December 12th, Representative Stewart's office published another press release that explains how protecting and maintaining ideal vegetation is not only critical for Sage-grouse management but also for wildfire control and prime deer forage:

According to the Fish and Wildlife Service, Piñon and Juniper forests have been encroaching on key sagebrush habitat at a rapid rate. This invasion erodes and fragments sagebrush habitat and provides artificial roosting and nesting sites for sage-grouse predators. Tree removal also carries widespread ecological benefits, such as reduction of catastrophic wildfire risk. Wildlife managers in the West have long worked to convert Piñon and

Juniper stands to sagebrush because doing so increases forage and soil water availability, which improves wildlife carrying capacity and benefits big game populations, particularly mule deer.

Although tree expansion is a natural process normally controlled by naturally-occurring wildfire, fire suppression efforts over the years have allowed expansion to go unchecked. As a result, trees have spread to areas they have not historically occupied, increasing the risk of large-scale, uncontrollable wildfires. Fortunately, federal restoration projects have been successful in removing these trees without threatening the natural habitat, and this legislation helps build on these successes.

Representative Stewart reiterates in the December 12th press release how this is a big win for conservationists and sportsmen in Utah:

The passage of this legislation is something conservationists and sportsmen can both celebrate. In order to protect mule deer and sage-grouse populations in Utah and across the West, we must protect and enhance their habitat. The review process for vegetation management has become too cumbersome and time consuming. This legislation removes bureaucratic red tape and gives land managers the tools needed to protect and preserve this precious habitat.



115TH CONGRESS
1ST SESSION

H. R. 3543

To require the Secretary of the Interior to develop a categorical exclusion for covered vegetative management activities carried out to establish or improve habitat for greater sage-grouse and mule deer, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

JULY 28, 2017

Mr. STEWART (for himself and Mr. TIPTON) introduced the following bill;
which was referred to the Committee on Natural Resources

A BILL

To require the Secretary of the Interior to develop a categorical exclusion for covered vegetative management activities carried out to establish or improve habitat for greater sage-grouse and mule deer, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “Sage-Grouse and Mule
5 Deer Habitat Conservation and Restoration Act of 2017”.

6 **SEC. 2. DEFINITIONS.**

7 In this Act:

1 (1) COVERED VEGETATION MANAGEMENT AC-
2 TIVITY.—

3 (A) IN GENERAL.—The term “covered
4 vegetation management activity” means any ac-
5 tivity described in subparagraph (B) that—

6 (i) meets the objectives of the order of
7 the Secretary numbered 3336 and dated
8 January 5, 2015;

9 (ii) conforms to an applicable land use
10 plan;

11 (iii) protects, restores, or improves
12 greater sage-grouse or mule deer habitat;

13 (iv) will not permanently impair—

14 (I) the natural state of the treat-
15 ed area;

16 (II) outstanding opportunities for
17 solitude;

18 (III) outstanding opportunities
19 for primitive, unconfined recreation;

20 or

21 (IV) the identified values of a
22 unit of the National Landscape Con-
23 servation System; and

24 (v)(I) restores native vegetation fol-
25 lowing a natural disturbance;

1 (II) prevents the expansion into great-
2 er sage-grouse or mule deer habitat of—

3 (aa) juniper, piñon pine, or any
4 other conifer; or

5 (bb) nonnative or invasive vegeta-
6 tion;

7 (III) reduces the risk of loss of great-
8 er sage-grouse or mule deer habitat from
9 wildfire or any other natural disturbance;
10 or

11 (IV) provides emergency stabilization
12 of soil resources after a natural disturb-
13 ance.

14 (B) DESCRIPTION OF ACTIVITIES.—An ac-
15 tivity referred to in subparagraph (A) is—

16 (i) manual cutting and removal of ju-
17 niper trees, piñon pine trees, other coni-
18 fers, or other nonnative or invasive vegeta-
19 tion;

20 (ii) mechanical mastication, cutting,
21 or mowing, mechanical piling and burning,
22 chaining, broadcast burning, or yarding;

23 (iii) removal of cheat grass, medusa
24 head rye, other nonnative vegetation, or an
25 invasive species;

1 (iv) collection and seeding or planting
2 of native vegetation using a manual, me-
3 chanical, or aerial method;

4 (v) seeding of nonnative vegetation
5 only for the purpose of emergency sta-
6 bilization;

7 (vi) use of a herbicide, pesticide, or bi-
8 ological control agent, subject to the condi-
9 tion that the use shall be in accordance
10 with applicable legal requirements, Federal
11 agency procedures, and land use plans;

12 (vii) targeted or late-season livestock
13 grazing to mitigate hazardous fuels and
14 control noxious and invasive weeds;

15 (viii) temporary removal of wild
16 horses or burros in the area in which the
17 activity is being carried out to ensure
18 treatment objectives are met;

19 (ix) temporary suspension of per-
20 mitted grazing use until restoration treat-
21 ment objectives are met;

22 (x) installation of new, or modification
23 of existing, fencing or water sources in-
24 tended to control use or improve wildlife
25 habitat; or

1 (xi) construction of temporary roads.

2 (C) EXCLUSIONS.—The term “covered
3 vegetation management activity” does not in-
4 clude—

5 (i) any activity conducted in a wilder-
6 ness area or wilderness study area; or

7 (ii) any activity for the construction of
8 a permanent road or permanent trail.

9 (2) SECRETARY.—The term “Secretary” means
10 the Secretary of the Interior.

11 (3) TEMPORARY ROAD.—The term “temporary
12 road” means a road that is—

13 (A) authorized—

14 (i) by a contract, permit, lease, other
15 written authorization; or

16 (ii) pursuant to an emergency oper-
17 ation;

18 (B) not intended to be part of the perma-
19 nent transportation system of a Federal depart-
20 ment or agency;

21 (C) not necessary for long-term resource
22 management; and

23 (D) designed in accordance with standards
24 appropriate for the intended use of the road,
25 taking into consideration—

- 1 (i) safety;
- 2 (ii) the cost of transportation; and
- 3 (iii) impacts to land and resources.

4 **SEC. 3. IMPROVEMENT OF HABITAT FOR GREATER SAGE-**
5 **GROUSE AND MULE DEER.**

6 (a) CATEGORICAL EXCLUSION.—

7 (1) IN GENERAL.—Not later than 1 year after
8 the date of the enactment of this Act, the Secretary
9 shall develop one or more categorical exclusions (as
10 defined in section 1508.4 of title 40, Code of Fed-
11 eral Regulations (or a successor regulation)) for cov-
12 ered vegetative management activities carried out to
13 establish or improve habitat for greater sage-grouse
14 and mule deer.

15 (2) ADMINISTRATION.—In developing and ad-
16 ministering a categorical exclusion under paragraph
17 (1), the Secretary shall—

18 (A) be consistent with the National Envi-
19 ronmental Policy Act of 1969 (42 U.S.C. 4321
20 et seq.);

21 (B) apply the extraordinary circumstances
22 procedures under section 220.6 of title 36, Code
23 of Federal Regulations (or successor regula-
24 tions), in determining whether to use the cat-
25 egorical exclusion; and

1 (C) consider—

2 (i) the relative efficacy of landscape-
3 scale habitat projects;

4 (ii) the likelihood of continued de-
5 clines in the populations of greater sage-
6 grouse and mule deer in the absence of
7 landscape-scale vegetation management;
8 and

9 (iii) the need for habitat restoration
10 activities after wildfire or other natural
11 disturbances.

12 (b) LONG-TERM MONITORING AND MAINTENANCE.—

13 Before commencing any covered vegetative management
14 activity that is covered by a categorical exclusion under
15 subsection (a), the Secretary shall develop a long-term
16 monitoring and maintenance plan, covering at least the
17 20-year period beginning on the date of commencement,
18 to ensure that management of the treated area does not
19 degrade the habitat gains secured by the covered vegeta-
20 tive management activity.

21 (c) DISPOSAL OF VEGETATIVE MATERIAL.—Subject
22 to applicable local restrictions, any vegetative material re-
23 sulting from a covered vegetation management activity
24 that is covered by a categorical exclusion under subsection
25 (a) may be—

- 1 (1) used for—
- 2 (A) fuel wood; or
- 3 (B) other products; or
- 4 (2) piled or burned, or both.

5 (d) TREATMENT FOR TEMPORARY ROADS.—

6 (1) IN GENERAL.—A temporary road con-
7 structed in connection with a covered vegetation
8 management activity that is a categorical exclusion
9 under subsection (a) shall be treated to ensure the
10 reestablishment of native vegetative cover by artifi-
11 cial or natural means, as necessary to minimize ero-
12 sion from any area disturbed by the construction or
13 use of the temporary road.

14 (2) REQUIREMENT.—A treatment under para-
15 graph (1) shall be designed to reestablish vegetative
16 cover—

- 17 (A) as soon as practicable; but
- 18 (B) not later than 10 years after the date
- 19 of completion of the applicable covered vegeta-
- 20 tion management activity.

○

ADMINISTRATIVE STRATEGIES



Significant progress has been made to address unnecessary restrictions from the Bureau of Land Management, bringing federal management more in line with state management plans. It is clear efforts to draw attention to unintended consequences of the 2015 land use plans amendments are producing momentous benefits for Utah and other Western States. In the past year alone, Secretary Zinke and the Trump Administration have made great progress in addressing Greater Sage-grouse management. With the issuance of Secretarial Order 3353, the resulting review of the 2015 GRSG Management Plans, and issuance of new instruction memorandum, significant advances been made to protect Utah's Sage-grouse Management Plan. In May 2018, the BLM issued amendments to the 2015 plan amendments and corresponding draft environmental impact statements to align federal habitat conservation efforts with state wildlife management plans.

Secretarial Order 3353

On June 8, 2017, Interior Secretary Ryan Zinke signed Secretarial Order 3353 to address serious concerns of Bureau of Land Management and Forest Service Records of decision in the name of Sage-grouse.



The secretarial order specifically ordered a review of federal plans to ensure conservation plans are implemented in ways that do not impede local economic opportunities and established an internal review team to evaluate federal and state sage grouse plans and programs to ensure they are complementary and consistent with economic growth and job creation.

In signing the executive order Secretary Zinke stated:

While the federal government has a responsibility under the Endangered Species Act to responsibly manage wildlife, destroying local communities and levying onerous regulations on the public lands that they rely on is no way to be a good neighbor... State agencies are at the forefront of efforts to maintain healthy fish and wildlife populations, and we need to make sure they are being heard on this

issue. As we move forward with implementation of our strategy for sage-grouse conservation, we want to make sure that we do so first and foremost in consultation with state and local governments, and in a manner that allows both wildlife and local economies to thrive. There are a lot of innovative ideas out there. I don't want to take anything off the table when we talk about a plan.

On August 4, 2017 Secretary Zinke released a memo that detailed the Sage Grouse Plan Review Team's initial findings and recommendations and ordered the Department of Interior and its agencies to look for ways to implement the recommendations. The team's recommendations were an important step in the right direction in reducing onerous requirements of the BLM and US Forest Service's plans and will lead to better coordination between the Federal and State Sage-grouse Management Plans.

BLM Instruction Memorandums

On December 27, 2017 The Bureau of Land Management Assistant Director of Resources and Planning, Kristin Bail, issued six Instruction Memorandums (IMs) in direct response to Order 3353 and the resulting recommendations from the Sage Grouse Plan Review Team.



These Instruction memorandums set forth the following priorities:

- Implementation of greater sage-grouse management plan revisions for oil and gas leasing
- Review and processing of grazing authorizations
- Evaluating greater sage-grouse land use plans and hard and soft triggers
- Incorporating thresholds into grazing permits and leases
- Expediting habitat assessments and associated land-use

The memorandums are effective as of December 27, 2017, so the State should start seeing the benefits this year. Here is a brief synopsis of each of

the Instruction Memorandums. Full text of each IM is included on pages 149-168.

IM 2018 – 021 Gunnison and Greater Sage-Grouse (Including the Bi-State Distinct Population Segment) Habitat Assessment Policy

This IM gives direction to Field Offices on how to implement Sage-Grouse Habitat Assessment Framework. It should help provide more consistency in habitat assessments across all Sage-grouse habitat. It outlines how to address an HAF when adequate mapping is not available and describes the process of how the mapping should be completed. The memorandum instructs that habitat assessments should be prioritized where not already completed, which will expedite the process of determining land use and give states clarity on expectations for sage-grouse management within their habitat zones.

IM 2018 – 022 Process for Evaluating Greater Sage-Grouse Land Use Plan Adaptive Management Hard and Soft Triggers

This IM gives guidance on how adaptive management processes are used to apply hard and soft triggers that were detailed in the 2015 GRSG Plans. It directs the State Offices (SOs) to consider causal factors and specific circumstances when evaluating the triggers. It also instructs the SOs to carefully review the trigger guidelines and to report to the Washington Office on at least an annual basis.

IM 2018 – 023 Incorporating Thresholds and Responses into Grazing Permits/Leases

This IM gives guidance for analyzing and incorporating the NEPA analysis into grazing permits. It instructs that multiple indicator values should be considered when modifying grazing managements. This gives BLM field offices more flexibility in reviewing conditions on the ground, including the ability to help ensure success of invasive species control and/or reduction of excessive fuel loads.

IM 2018 – 024 Setting Priorities for Review and Processing of Grazing Authorizations and Related Livestock Grazing Monitoring

This IM gives guidance on how to prioritize review and processing of grazing permits and leases. It ensures land health considerations are the main basis for processing the permits and leases. The key focus should be maintaining healthy land standards. It also directs that local knowledge and resources should be used in establishing monitoring priority.

The memo states, “The BLM recognizes that livestock grazing is an important component of its multiple use mission and that grazing is sustainable and compatible with conserving wildlife habitat.” Under the Obama administration, grazing was severely restricted in the name of sage-grouse rehabilitation, even when grazing would have limited risk of wildfire in prime sage-grouse habitat. The new administration clearly has a different approach which is much friendlier to the western way of life, taking a broader “Land Health Standards” view to assess the impact of grazing on the overall health of the land in a given area.





IM 2018 - 025 Implementation of the Habitat Objectives Table from the 2015 Greater Sage-Grouse Approved Resource Management Plans and Amendments

This IM clarifies how the Habitat Objective Tables (Table 2-2) in the 2015 GRSG Management Plans should be used, including the ability to use alternative indicator values when supported by the best available GRSG science. It also stresses the BLM's overarching goal is to maintain healthy sagebrush steppes. The land health standards should be applied regardless of land use. If the lands are healthy then adjustments shouldn't be necessary. If they are not meeting the standards then the causal factor should be identified and a plan put in place to ensure the land progresses toward meeting healthy land standards.

IM 2018 - 026 Implementation of Greater Sage-Grouse Resource Management Plan Revisions or Amendments - Oil & Gas Leasing and Development Prioritization Objective

This is perhaps the most impactful of the six memorandums to the State of Utah. The memo clarifies instruction on oil and gas leases from the 2015 GRSG Management Plans. In the 2015 GRSG Plans the BLM gave preference to oil and gas leases outside of the Sage-grouse habitat and didn't allow leasing inside them, even in lower priority sage-grouse habitat. This memorandum instructs that oil and gas leases should be permitted both outside and inside Sage-grouse management areas, while still protecting GRSG habitat.

BLM Plan Amendments

On May 4, 2018, amendments to the 2015 BLM plans and the corresponding Draft Environmental Impact Statements (EISs) were published.



The plan amendments were announced as “the next step in aligning federal habitat conservation efforts with state wildlife management plans...” See June 11, 2018 BLM Press Release on page 147. This begins a formal amendment process and initiated a 90-day public comment period which will end on August 2, 2018. In the press release, announcing the amended plans and the public comment period it stated:

Western governors have sought changes to the 2015 BLM-managed lands in their states, which spurred the BLM to proceed with the plan amendments. Comments on the draft amendments will guide the BLM in finalizing changes that build on and strengthen these plans to conserve public land habitat in

cooperation with state plans for managing wildlife species. See id

According to the press release, these plan amendments could affect up to 4 million acres of public land under 14 BLM land-use plans. West-wide the plan amendments affect 61 land-use plans on 53 million acres. The Utah land-use plans revisions were published at 83 Fed. Reg. 19803. A corresponding Environmental Protection Agency Notice of Intent was also published on the Sage-grouse planning rules on May 4, 2018 at 83 Fed. Reg. 19758. Issues discussed in the draft plans include mitigation standards, lek buffers, disturbance and density caps, and habitat boundaries.

6/22/2018

Utah - Press Release | BUREAU OF LAND MANAGEMENT



U.S. DEPARTMENT OF THE INTERIOR
**BUREAU OF LAND
MANAGEMENT (/)**

(/)

BLM PUBLIC MEETINGS IN UTAH SUPPORT REVIEW OF SAGE-GROUSE DRAFT EIS

SALT LAKE CITY, Utah – As the next step in aligning federal habitat conservation efforts with state wildlife management plans, the Bureau of Land Management (BLM) will hold three meetings in Utah beginning June 26, 2018, to provide information and answer possible questions regarding the recently released draft amendments to sage-grouse plans finalized in 2015.

Draft Environmental Impact Statements (EISs) and amendments to the 2015 plans were published on May 4, 2018, beginning a 90-day public comment period. The public meetings will help attendees learn about the draft plan amendments and formulate written submissions before the comment period ends on August 2, 2018.

“The BLM’s efforts to align management of sagebrush-steppe habitat with state wildlife management plans will result in increased management flexibility, maintain or improve access to public resources, and promote conservation outcomes,” said Utah state director Ed Roberson. “We believe that the resulting federal and state plans will complement and strengthen each other.”

Western governors have sought changes to the 2015 plans for BLM-managed lands in their states, which spurred the BLM in proceeding with the plan amendments. Comments on the draft amendments will guide the BLM in finalizing changes that build on and strengthen these plans to conserve public land habitat in cooperation with state plans for managing wildlife species.

Plan amendments could affect up to 61 land-use plans for about 53 million acres in seven western states. In Utah, 14 plans guiding management on 4 million acres of public land could be revised. The public meetings will be held in an open-house format, with BLM specialists attending information stations to interact with meeting attendees to provide answers or additional information. Oral comments will not be accepted at the meetings, but computer terminals will be available for submitting written comments on-site.

Utah meetings will be at:

- **Cedar City** June 26, 5:00-7:00 pm
 - Festival Hall/Heritage Theater 2nd Floor, Conference Rooms 1 & 2 105 North 100 East, Cedar City, Utah 84720
- **Vernal** June 27, 5:00-7:00 pm
 - Western Park Convention Center 300 East 200 South, Vernal, Utah 84078
- **Randolph** June 28, 5:00-7:00 pm
 - Randolph Senior Citizen’s Center 5 N. Main St., Randolph, Utah 84064

The BLM manages more than 245 million acres of public land located primarily in 12 Western states, including Alaska. The BLM also administers 700 million acres of sub-surface mineral estate throughout the nation. The agency’s mission is to sustain the health, diversity, and productivity of America’s public lands for the use and enjoyment of present and future generations. Diverse activities authorized on these lands generated \$75 billion in sales of goods and services throughout the American economy in fiscal year 2016 - more than any other agency in the Department of the Interior. These activities supported more than 372,000 jobs.

MORE PRESS RELEASES

RELEASE DATE

Monday, June 11, 2018

ORGANIZATION

Bureau of Land Management

OFFICE

Utah State Office

CONTACTS

<https://www.blm.gov/press-release/blm-public-meetings-utah-support-review-sage-grouse-draft-eis>

1/2



GUNNISON AND GREATER SAGE-GROUSE (INCLUDING THE BI-STATE DISTINCT POPULATION SEGMENT) HABITAT ASSESSMENT POLICY

IM 2018-021

Instruction Memorandum

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON, D.C. 20240

[http://www.blm.gov \(/\)](http://www.blm.gov (/))

December 27, 2017

In Reply Refer to:

1610, 1734, 4100, 4180, 6700 (230) P

EMS Transmission: December 27, 2017

Instruction Memorandum No. 2018-21

Expires: 9/30/2021

To: State Directors (California, Colorado, Idaho, Montana, Nevada, Oregon/Washington, Utah, and Wyoming) and Center Directors

From: Assistant Director, Resources and Planning

Subject: Gunnison and Greater Sage-Grouse (including the Bi-State Distinct Population Segment) Habitat Assessment Policy

Program Areas: Wildlife Management, Threatened and Endangered Species Management, Rangeland Management, Riparian Management, Hazardous Fuels Management, Emergency Stabilization, Burned Area and Rehabilitation.

Purpose: This Instruction Memorandum (IM) provides program direction to the Bureau of Land Management (BLM) Field Offices (FOs) on implementing the BLM Technical Reference 6710-1 (Stiver et al. 2015, Sage-Grouse Habitat Assessment Framework (HAF)). This IM includes clarification and additional guidance to follow when implementing the HAF to assess habitats for Gunnison and Greater Sage-Grouse, including the Bi-State Distinct Population Segment, ("sage-grouse"). This will help promote consistency when completing habitat assessments across the range of sage-grouse. This IM also includes guidance on roles and responsibilities, best practices for data management, and the content of a summary report (Attachment 1).

Policy: The following bullets provide guidance for implementing sage-grouse habitat assessments and a temporary accommodation for areas where habitat mapping is not complete:

- If seasonal habitat mapping is complete, the FO will assess site-scale suitability for the entire seasonal habitat area(s) in addition to assessing mid- and fine-scale suitability. Field offices should follow the approach found in the habitat assessment training materials hosted by the National Training Center.
- During the calendar year 2018, if the mapping of seasonal habitat has not been completed, the FO can complete a site-scale assessment within the area of interest, which will allow it to complete the LHS Evaluation and issue use authorizations (e.g., grazing permit renewal). A discussion of the process and results of the site-scale sage-grouse habitat assessment should be included in the LHS Evaluation report.

- The BLM State and FOs should continue working with partners to complete the mapping of seasonal habitats, recognizing that some sage-grouse populations are non-migratory, which may reduce the workload required to identify the areas for the multi-scale assessments.
- When multi-scale sage-grouse habitat assessments are completed, BLM Offices are required to complete a Habitat Assessment Summary Report. State offices (SO) should track the areas where the assessments have been completed and report accomplishments to the Washington Office on an annual basis.
- The sage-grouse site-scale habitat suitability determinations are used to evaluate the applicable wildlife/Special Status Species (SSS) land health standard(s) (BLM 2001) for sage-grouse.
- Field Offices within the GRSG Planning area will use the values in the GRSG Plan Habitat Objectives table and the associated footnotes to inform site-scale suitability as described in the *Establishing Habitat Suitability Indicators and Values* section of the current BLM Habitat Objectives IM.
- Field Offices with management responsibilities for sage-grouse habitat but whose Resource Management Plan does not contain a Habitat Objectives Table should use objectives from an applicable sage-grouse conservation plan (e.g., Gunnison Sage-Grouse Rangeland Conservation Plan), the HAF Technical Reference, or values found in scientific literature that are appropriate for the area to inform site-scale suitability values. Refer to the BLM Habitat Objectives IM for a complete discussion of this topic.
- When completing site scale assessments, it is not appropriate to use a single indicator from the habitat suitability rating data form to determine habitat suitability. Rather, look across all the indicators on the form and use a preponderance of evidence approach to determine overall suitability (suitable, unsuitable, or marginal) of the plot. The measured habitat indicator values will vary across time, driven largely by uses and environmental conditions such as annual rainfall and disturbance, especially wildfire. Thus, it is critical to document environmental factors when completing the suitability forms.
- Quantitative data described in the habitat assessment training can be supplemented with additional local data to inform sage-grouse habitat assessments but the limitations of the data should be documented in the suitability data forms.
- On-line training material is available on the National Training Center (NTC) website and classroom training is available through the NTC and other subject matter experts to support implementation of this policy. Please contact the national sage-grouse coordinator or the NTC for further information to meet your training needs.

Prioritizing Sage-Grouse Habitat Assessments

BLM authorized officers will set priorities for sage-grouse habitat assessments using prioritization criteria consistent with the applicable land use plan and the priorities for completing land health assessments to support authorizations as described in the Grazing Prioritization IM. An evaluation of existing data (such as core and supplemental indicator data collected as part of the Assessment, Inventory and Monitoring (AIM) Strategy and legacy trend data) and coordination with state and other partner agencies could also inform the selection of priority areas for assessments. Additional consideration could include areas where habitat information is limited, where changes in management may improve sage-grouse habitat, or where a GRSG Plan adaptive management trigger has been tripped.

Using a Habitat Assessment Summary Report

The field offices can use the multi-scale Habitat Assessment Summary Report to:

- Inform management where to implement actions to improve sage-grouse habitat at the mid-, fine-, and site- scales.
- Identify metrics for setting objectives to determine the effectiveness of vegetation treatments and habitat restoration efforts, including post-fire emergency stabilization and burned area rehabilitation, in sage-grouse habitat.
- Provide context in NEPA documents for proposed actions in sage-grouse habitats.
- Inform the habitat value (e.g. condition and extent) of debits and credits related to compensatory mitigation, which can be used in conjunction with state developed compensatory mitigation valuation approaches.

Establishing Habitat Suitability Indicators and Values

The field offices will work with appropriate state agencies and compare the indicators between the GRSG Plan Habitat Objectives Table (and the relevant footnotes) and the HAF site scale data forms (S-2 through S-6) and take the following steps:

1. Indicators which are in the GRSG Plan table but not in the HAF forms are to be added to the applicable HAF forms.
2. Indicators that are in the HAF forms but are not in the GRSG Plan's table, offices will measure these indicators and add the following statement in the box where the suitability rating would be recorded: "*No known correlation exists between this indicator and the suitability rating for this seasonal habitat type in this land use plan area.*" Also include the citation for the supporting science. The indicator will not be used for the suitability rating of the plot. Reference the Habitat Objectives IM, Steps 1-2 for the steps necessary to incorporate this change.
3. Offices are required to note the change(s) to the data forms in the "Rationale for Overall Suitability" section of the forms.

Field Offices will compare the indicator values between the GRSG Plan's Habitat Objectives Table (and the relevant footnotes) and the HAF site scale data forms (S-2 through S-6) and take the following steps:

1. When the HAF indicator values for a suitable rating in S-2 through S-6 differ from the GRSG Plan's Habitat Objectives desired conditions, replace the values in the applicable forms.

If indicator values for a suitable rating in the HAF were replaced by indicator values from the GRSG Plan, offices are directed to develop indicator values for the marginal and unsuitable columns using the processes that were used to determine the desired conditions in the Habitat Objectives Table in the GRSG Plans.

Data forms found in the HAF technical reference have been modified to allow changes to the indicator value columns as well as allow adding rows for indicators for those offices that have additional indicators and associated values from the applicable GRSG Plan Habitat Objectives Table or other sage-grouse conservation plan. The customized forms may be found at <https://spp.blm.gov> (<https://spp.blm.gov/>).

Timeframe: This IM is effective immediately.

Budget Impact: The BLM is required to evaluate habitat as part of its LHS assessment process and also needs this information when evaluating the impacts of uses in NEPA documents for authorizing uses. This IM provides consistent guidance in the methods to use in completing these habitat assessments for sage-grouse. Sage-grouse habitat assessment implementation will be phased in, following prioritization as described in this IM and based on available budgets.

Background: The HAF includes indicators that inform the suitability of habitat for sage-grouse at the mid-, fine-, and site-scales. The HAF also includes a suitability rating process for each scale. Please refer to the HAF for a discussion of the scales, description of seasonal habitat requirements, and examples of the suitability forms for completing the assessment. The BLM has developed training and analytical procedures to complete this rating process. One critical gap that is preventing the BLM from completing the multi-scale habitat assessments in some areas are adequate maps of seasonal habitat use areas. Mid-scale boundary delineation across the range of GRSG is almost complete. These efforts have relied on cross-border coordination within BLM and with partners. The completion of seasonal habitat mapping and delineation of fine-scale polygons are contingent upon continued close coordination of BLM offices and partner agencies within and between states. This process is ongoing.

The BLM will continue to explore and review new tools and data to help streamline habitat assessments and will develop corresponding guidance and training as required. Additionally, the BLM will continue to work with partners to improve the quality, consistency and/or efficiency of the analytical procedures.

On August 4, 2017, the BLM delivered a Response to Secretarial Order 3353 "Greater Sage-Grouse Conservation and Cooperation with Western States" (June 7, 2017) that identified issues related to the 2015 GRSG plans and subsequent policies. This policy update is a result of the SO 3353 as well as from lessons learned in 2017 as BLM FOs began completing the multi-scale assessments as directed in BLM IM 2016-144. This IM supersedes IM 2016-144.

Manual/Handbook Sections Affected:

Manual 4180 and Handbook 4180-1, Manual 6500, Manual 6600, Manual 6840.

Coordination:

This IM was coordinated with the Division of Forest, Rangeland, Riparian and Plant Conservation, the AIM Lead, the NOC Division of Resource Services, and BLM State Office wildlife and sage-grouse leadership within the range of sage-grouse.

Contacts: Questions or concerns should be addressed to Division Chief, Fish and Wildlife Conservation (W0-230), at 202-912-7366 or Vicki Herren, BLM National Sage-Grouse Coordinator at 202-912-7235 or by email at vherren@blm.gov (<mailto:vherren@blm.gov>).

References: [BLM \(Bureau of Land Management\). 2001. Rangeland Health Standards. BLM Handbook H- 4180-1. Department of the Interior. BLM \(/sites/blm.gov/files/uploads/Media_Library_BLM_Policy_h4180-1.pdf\).](#)

Stiver, S.J., E.T. Rinkes, D.E. Naugle, P.D. Makela, D.A. Nance, and J.W. Karl, eds. 2015. Sage- Grouse Habitat Assessment Framework. (<https://ia600205.us.archive.org/4/items/sagegrousehabita00stiv/sagegrousehabita00stiv.pdf>)

A Multiscale Assessment Tool. Technical Reference 6710-1. Bureau of Land Management and Western Association of Fish and Wildlife Agencies. Denver, Colorado. (<https://ia600205.us.archive.org/4/items/sagegrousehabita00stiv/sagegrousehabita00stiv.pdf>)

Signed by:

Kristin Bail

Assistant Director, Resources and Planning

Authenticated by:

Catherine Emmett

WO-870, IT Policy and Planning



PROCESS FOR EVALUATING GREATER SAGE-GROUSE LAND USE PLAN ADAPTIVE MANAGEMENT HARD AND SOFT TRIGGERS

IM 2018-022

Instruction Memorandum

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON, D.C. 20240

[http://www.blm.gov \(/\)](http://www.blm.gov (/))

December 27, 2017

In Reply Refer To:

1610 (210)

EMS Transmission: December 27, 2017

Instruction Memorandum No. 2018-22

Expires: 09/30/2021

To: State Directors, CA, CO, ID, MT/Dakotas, NV, OR, UT, WY

From: Assistant Director, Resources and Planning

Subject: Process for Evaluating Greater Sage-Grouse Land Use Plan Adaptive Management Hard and Soft Triggers, **DD**: Annually

Program Areas: 200, 300, and 600 Program Areas.

Purpose: This Instruction Memorandum (IM) provides direction and guidance on the implementation of the adaptive management process to evaluate and apply hard and soft triggers and responses, as detailed in the 2015 Greater Sage-Grouse (GRSG) Approved Resource Management Plans and Amendments (GRSG Plans) Great Basin and Rocky Mountain GRSG Regional Records of Decision (RODs) (September 21, 2015).

Policy/Action: The GRSG Plans state that specific hard and soft trigger data (refer to the Adaptive Management Plan within each GRSG Plan) will be analyzed in accordance with the GRSG Plans, as soon as habitat and population data becomes available after the signing of the ROD and then, at a minimum, analyzed annually thereafter.

As soon as practicable and on an annual basis, each Bureau of Land Management (BLM) State Office (SO) will analyze specific hard and soft trigger data and determine if an adaptive management trigger has been exceeded. This will be done in coordination with federal, state, and local partners, as described in the applicable land use plan. Each BLM SO will implement the following steps to provide for a coordinated evaluation and notification process across the BLM. This IM supersedes IM 2016-140.

Step 1 - Establishing a Baseline Trigger Analysis: In coordination with appropriate federal, state, and local partners, BLM SO will use the processes and formulas outlined in the applicable GRSG Plan to evaluate population and habitat data to determine if the GRSG Plan's adaptive management soft and hard triggers have been exceeded. This step should occur as soon as practicable after habitat and population data from the state is available. In addition, as soon as practicable, state offices should analyze data relating to any catastrophic loss of population or habitat, such as damage caused by wildfire, that is likely to exceed a hard trigger. Coordination

among technical specialists from appropriate state and federal agencies may be necessary to validate the analysis based on the process outlined in the applicable GRSG Plan. The BLM will make a finding to determine whether a hard or soft trigger has been exceeded before proceeding to Step 2.

When the state office has information that indicates a hard or soft trigger may have been exceeded, it will notify the appropriate district and field offices as soon as possible. If a hard trigger has been exceeded, the hard trigger responses set forth in the applicable GRSG Plan will be implemented. The offices should consider whether approval of pending authorizations within the affected adaptive management response area would exacerbate the trigger or would otherwise be inconsistent with the trigger responses set forth in the applicable GRSG Plan. The state office should also notify the Washington Office through the normal early alert process when a hard trigger has been exceeded and hard trigger responses are being implemented.

Step 2 - Initiate Causal Factor Analysis Including the Identification of Trigger Responses: Once a finding has been made that a hard trigger has been exceeded, the BLM State Office (and/or appropriate district and field office), in coordination with federal, state and local partners, will initiate a causal factor analysis process, as defined in the applicable land use plan. This analysis should determine the possible or probable cause(s) of the population and/or habitat decline or lack of a positive population response to favorable environmental conditions. Responses will be implemented by state, district and/or field offices as set forth in the applicable GRSG Plan. In some cases, the appropriate response may not be addressed in the applicable GRSG Plan. In this situation, a plan amendment or NEPA analysis of an implementation action may be required before implementing new or different responses.

Step 3 - BLM Washington Office Notification: State directors will provide an annual report summarizing the results of the analysis conducted in Steps 1 and 2 to the Assistant Directors for Resources and Planning (AD-200), Minerals and Realty (AD-300) and Fire and Aviation (FA-100). This report will identify any soft or hard triggers that have been exceeded the areas where this has occurred, the appropriate hard trigger responses if a hard trigger was exceeded (as outlined in the applicable GRSG Plan), and a summary of the process that is being used to conduct the causal factor analysis.

Step 4 - Internal and External Notification: Within two weeks of completing Step 3, state offices will notify the appropriate federal, state, county, and tribal partners, as well as impacted district and field offices of the results from the analysis conducted in Steps 1 and 2. Additional regional coordination may be initiated at this step to discuss responses and timelines. As noted in Steps 1 and 2, federal, state, county, and tribal partners, as well as staff from local district and field offices should already be aware of the conclusions from the analyses conducted in Steps 1 and 2 based on their participation. This step provides notification to local BLM staff and all partners.

Timeframe: This Instruction Memorandum (IM) is effective immediately.

Budget Impact: There is an increased workload associated with implementing the GRSG Plans. The increased workload must be accommodated within existing budgets at the field, district, and state office levels, and may result in not accomplishing targets or the deferral of accomplishments in other program areas through redirection of existing funding.

Background: The GRSG Plans included GRSG habitat and population triggers and associated responses. Each GRSG Plan generally contains both soft and hard triggers and associated responses to address population and habitat changes. When hard triggers are exceeded each GRSG Plan provides for specific plan-level responses to be instituted. A causal factor analysis will determine the cause of the trigger being tripped. When soft triggers are exceeded, more conservative or restrictive conservation measures may be implemented on a project-by-project basis. The habitat and population triggers and responses are specific to each GRSG Plan; state offices should carefully review their GRSG Plans regarding triggers and responses.

Manual/Handbook Sections Affected: None.

Coordination: Preparation of this IM was coordinated with the Greater Sage-Grouse Implementation Team, Western State Governments, U.S. Forest Service and U.S. Fish and Wildlife Service.

Contact: If you have any questions regarding this IM, please contact Leah Baker, Division Chief for Planning, NEPA, and Decision support (WO-210) at (202) 912-7282 or by email at lbaker@blm.gov (<mailto:lbaker@blm.gov>).

Signed by:
Kristin M. Bail
Assistant Director, Resources and Planning

Authenticated by:
Catherine Emmett
WO-870, IT Policy and Planning

INCORPORATING THRESHOLDS AND RESPONSES INTO GRAZING PERMITS/LEASES

IM 2018-023

Instruction Memorandum

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON, D.C. 20240

[http://www.blm.gov \(/\)](http://www.blm.gov (/))

December 27, 2017

In Reply Refer To:
4130 (220) P

EMS Transmission: December 27, 2017
Instruction Memorandum No. 2018-23
Expires: 09/30/2021

To: State Directors (California, Colorado, Idaho, Montana/Dakotas, Nevada, Oregon/Washington, Utah and Wyoming), and Center Directors

From: Assistant Director, Resources and Planning

Subject: Incorporating Thresholds and Responses into Grazing Permits/Leases

Program Area: Rangeland Management

Purpose: This Instruction Memorandum (IM) provides guidance for analyzing and incorporating thresholds and responses, as appropriate, into terms and conditions of grazing permits and the associated National Environmental Policy Act (NEPA) analysis. This guidance applies to Greater Sage-Grouse (GRSG) Priority Habitat Management Areas (PHMA) as described in the Records of Decision for the Approved Resource Management Plan Amendments for the Great Basin and Rocky Mountain GRSG Regions and nine Approved Resource Management Plans in the Rocky Mountain GRSG Region (collectively referred to as the GRSG Plans). This IM clarifies the relationship of the GRSG habitat objectives table, land health standards (43 CFR 4180.2), and thresholds and responses in grazing permit/lease terms and conditions.

Policy/Action: When field offices (FOs) fully process a permit within PHMA, they will develop thresholds and responses for analysis in accordance with the policy set forth below. The field offices will continue to coordinate with permittees, state agencies having lands or managing resources within the area, tribes, other appropriate federal agencies, and interested publics (e.g., local governments) during the review and processing of grazing permits including developing thresholds and responses.

Relationship with GRSG Habitat Objectives

The GRSG Plans provide a habitat objectives table¹¹ that contains a suite of GRSG seasonal habitat indicators and their values (desired conditions column in the table). These are collectively referred to as habitat objectives and apply to seasonal use areas within all GRSG habitat designations (e.g., PHMAs, General Habitat Management Areas, and Important Habitat Management Areas (Idaho)). The seasonal habitat indicators and values in the habitat objectives table will, in part, guide the development of thresholds for those seasonal habitats found in grazing allotments. Using a single indicator value as a threshold to modify livestock grazing management is not an appropriate use of the habitat objectives table.

Analyzing and Incorporating Thresholds and Responses

Consistent with the GRSG Plans, when a FO fully processes⁽²⁾ a grazing permit/lease that includes lands within PHMA, the NEPA analysis covering that permit/lease will include at least one alternative that analyzes incorporation of relevant thresholds and defined responses into the terms and conditions of the grazing permit or lease. The habitat objectives table from the GRSG plans can inform the development of thresholds at the allotment and site-specific levels, but there are other factors that should be considered as well.

Thresholds specific to sage-grouse habitat in PHMA will be developed to maintain or move PHMA toward achieving the GRSG habitat objectives based upon consideration of ecological site potential,⁽³⁾ and relevant locally specific conditions. Thresholds are grazing use indicators that can be measured to ensure that current livestock grazing management allows an area to make progress toward achieving GRSG habitat objectives and land health standards. Percent utilization, bank alteration limits, and/or browse utilization limits are examples of thresholds that, if exceeded, could result in the authorized officer (AO) applying one or several responsive management actions. The responses will identify what changes in livestock grazing management would occur if a threshold is exceeded.

To determine when to select an alternative that incorporates thresholds and responses into permit terms and conditions, the highest priority should be PHMAs when: 1) a Land Health Standards Evaluation indicates that the area is not achieving or is not making progress towards achieving the wildlife/Special Status Species habitat standard as informed by the GRSG habitat assessment report; and 2) the AO determines that current livestock grazing is a significant causal factor for not achieving land health standards relative to GRSG habitat.⁽⁴⁾ Where an AO selects an alternative that does not include thresholds and defined responses, the AO will explain in the decision how the selected livestock grazing management will achieve the desired effect, why thresholds/responses do not need to be included in the grazing permit/lease, and what indicators and metrics will be used to evaluate and document achievement or continued progress toward achievement of GRSG habitat objectives.

At the AO's discretion, they may select an alternative analyzed in an EA/EIS that includes thresholds and responses for an allotment that currently achieves the special status species land health standard in order to provide additional flexibility to the permittee to meet other resource management objectives. For example, FOs may want to incorporate thresholds and responses to ensure success of vegetation treatments, invasive species control, and/or reduction of excessive fuel loads.

The FOs will use the sage-grouse habitat suitability assessment, which is the product of the Sage-Grouse Habitat Assessment Framework (HAF)⁽⁵⁾ associated with an allotment or group of allotments to inform the Land Health Assessments, Evaluations and Determinations.⁽⁶⁾ For allotments within GRSG habitat management areas where a grazing permit or lease is not fully processed under 43 CFR 4160, and a sage-grouse habitat assessment was not part of the LHE, FOs will need to update the existing Land Health Evaluation to include an assessment of sage-grouse habitat suitability before the permit can be fully processed.

NEPA Considerations for Implementing Defined Management Responses

When fully processing grazing permits/leases, the FOs will complete the appropriate level of NEPA analyses on an allotment or multiple allotment basis. In most instances, FOs will prepare an EA; however, there may be instances where a categorical exclusion (CX) is appropriate (explained below), or preparation of an EIS is necessary, as described in the NEPA Handbook (H-1790-1).

For any alternative that includes thresholds and responses, multiple responses should be evaluated in the NEPA document that will allow the BLM and permittees a suite of options for responding more quickly when thresholds are exceeded. The analysis should also identify the location, timing, frequency and methodologies used for monitoring the thresholds. Monitoring results are used to determine if thresholds have been exceeded along with causal determination, and if livestock grazing was the causal factor, then apply appropriate responses.

If thresholds and responses analyzed in a NEPA document are incorporated into the grazing decision and grazing permit as terms and conditions, the following criteria will help guide whether the selected response(s) can be implemented immediately or will require an additional decision:

- If the response(s) are within the existing terms and conditions of a grazing permit, the response will be implemented immediately without an additional decision. If the AO intends to implement responses to thresholds during the life of a given grazing permit/lease without issuing a new decision, the AO should make that intent clear in both the NEPA document and final grazing decision.
- If the response requires a modification to the terms and conditions of a grazing permit, an additional grazing decision (either Proposed/Final or Full Force and Effect) will need to be issued.

Incorporation of thresholds and management responses into a permit that were not included as terms and conditions in a permit may be possible where:

- The thresholds and management responses were analyzed in another alternative but not selected. A Determination of NEPA Adequacy must be prepared when selecting a previously analyzed alternative. The AO may then issue a new proposed decision selecting the alternative that analyzed the desired thresholds and management responses.
- Monitoring determines that a different management response is needed, but the response was not analyzed in the NEPA analysis for the authorization, then the FOs should implement interim measures that are within the terms and conditions of the existing permit (and covered in an existing NEPA analysis) to minimize impacts to GRSG habitat. The FOs must expedite further NEPA analysis to modify the permit and incorporate the appropriate management response.

Using a Categorical Exclusion

The AO may use a CX to satisfy NEPA requirements before issuing a grazing permit in accordance with Section 402(h)(1) of FLPMA, as amended by Public Law No. 113-291, where current livestock grazing management has led to conditions which achieve land health standards. Washington Office IM 2015-121, "*Implementing Amended Section 402(h)(1) of Federal Land Policy and Management Act - Using a Categorical Exclusion when Issuing a Grazing Permit or Lease*," provides guidance for issuing a grazing permit or lease using this CX authority including requiring a review of the 12 extraordinary circumstances listed in 43 CFR 46.215. Also, the FOs are required to document the rationale as to why the CX applies.

Issuing Permits/Leases Under Section 402(c)(2) of FLPMA

When lower-priority permits, as described in the IM on prioritizing the review and processing of grazing permits/leases, expire, they can be reissued with the same terms and conditions and operate under authority of Section 402(c)(2) of FLPMA, as amended by Public Law No. 113-291,¹² until they can be fully processed.

Consultation and Coordination

As required in Title 43 Code of Federal Regulations (CFR) 4110.3-1(c); 4110.3-3(a); 4110.3-3(b); 4120.2(c) and (e); 4130.2(b) and 4130.6-2, field offices will consult and coordinate with grazing permit holders, the interested public, state agencies, tribes and other appropriate federal agencies when gathering data to compare current conditions to land health standards and objectives; developing alternatives for NEPA analysis, particularly when considering adjustments in authorized use; and developing a monitoring plan, particularly if other parties will be collecting data to determine the effectiveness of any changes in management. In addition to the consultation and coordination with the entities required by regulation, field offices will also include relevant federal, state and local government as appropriate.

Timeframe: This IM is effective immediately.

Manual/Handbook Sections Affected: Handbook 4180-1 Rangeland Health Standards (Rel 4-107), and Authorizing Grazing Use Handbook 4130-1, rel. 4-75.

Budget Impact: Developing thresholds and responses is complex and often requires the consideration of many factors, which may increase the costs of processing individual permits. However, the ability to adjust management to address changing conditions without requiring additional NEPA can provide significant cost and time savings. As FOs take more time preparing thresholds and responses for fully processed permits in PHMA, this may require deferring work such as permit processing and developing range improvements in lower priority areas.

Background: Management direction within the GRSG Plans state that the NEPA analysis for renewals and modifications of livestock grazing permits/leases that include lands within PHMA will include specific management thresholds based on the Habitat Objectives table, Land Health Standards (43 CFR, Part 4180.2), ecological site potential, and one or more defined responses that will allow the AO to make adjustments to livestock grazing that has already been subjected to NEPA analysis. On August 4, 2017, the BLM delivered a Response to Secretarial Order 3353 "Greater Sage-Grouse Conservation and Cooperation with Western States" (June 7, 2017) that identified issues related to the 2015 GRSG plans and subsequent policies. This policy update is a result of the Response to SO 3353 as well as feedback from internal staff and external federal, state, and local partners.

Coordination: This IM was coordinated with the Division of Decision Support, Planning and NEPA, Division of Fish and Wildlife Conservation, Solicitor's Office and state directors within GRSG habitat.

Contact: If you have any questions, please contact Kimberly Hackett, Senior Natural Resource Specialist, Division of Forest, Rangeland, Riparian and Plant Conservation (WO-220) at 202-912-7216 or by email at khackett@blm.gov (<mailto:khackett@blm.gov>).

Signed by:
Kristin M. Bail
Assistant Director, Resources and Planning

Authenticated by:
Catherine Emmett
WO-870, IT Policy and Planning

^[1] Refer to the IM "Policy on the Use and Modification of the Habitat Objectives Table from the 2015 Greater Sage-Grouse Approved Resource Management Plans and Amendments" for guidance on the use of the Habitat Objectives Table.

^[2] A fully processed grazing permit is a grazing permit that has been issued in accordance with all applicable laws, regulation, and policy including the NEPA, Endangered Species Act (ESA), and decision processes provided in 43 CFR 4160. Permits issued under Section 402(c)(2) of FLPMA are not considered fully processed.

^[3] The ecological potential of a site is informed from an Ecological Site Description, associated State and Transition Models, and other pertinent data used to complete a Reference Sheet as described in *Interpreting Indicators of Rangeland Health* (M. Pellant, et. al., 2005). If an Ecological Site Description or associated State and Transition Model is not available, the process set out in *Interpreting Indicators of Rangeland Health* describes a process to identify an existing Ecological Site Description that is suitable for the soil, moisture, aspect, and slope of the site in question. If no comparable or suitable Ecological Site Description is available *Interpreting Indicators of Rangeland Health* also describes the process to develop a Reference Sheet in the absence of an Ecological Site Description.

^[4] Refer to the IM "Setting Priorities for Review and Processing of Grazing Authorizations and Related Livestock Grazing Monitoring."

^[5] Refer to the most current Sage-Grouse Habitat Assessment Policy for guidance on assessing suitability of sage-grouse habitat.

^[6] Land Health Assessments and Evaluations assess conditions relative to the land health standards that apply to each parcel of BLM-managed land, evaluate whether each applicable land health standard is being achieved, or whether significant progress is being made toward achieving each land health standard. When one or more land health standards are not being achieved, the BLM completes a Determination to identify the causal factor(s) in non-achievement of the land health standard(s). Refer to Handbook 4180-1 Rangeland Health Standards (Rel 4-107).

^[7] Under 43 U.S.C. 1752(c)(2), the BLM shall replace permits or leases that have expired or have been terminated due to preference transfer and have not been fully processed by a new permit or lease that contains the same terms and conditions of the expired permit or lease pending their full processing.



SETTING PRIORITIES FOR REVIEW AND PROCESSING OF GRAZING AUTHORIZATIONS AND RELATED LIVESTOCK GRAZING MONITORING

IM 2018-24

Instruction Memorandum

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON, D.C. 20240

[http://www.blm.gov \(/\)](http://www.blm.gov (/))

December 27, 2017

In Reply Refer To:
4110 (220) P

EMS Transmission: December 27, 2017
Instruction Memorandum No. 2018-24
Expires: 09/30/2021

To: All Field Office Officials (except Alaska and Eastern States)
From: Assistant Director, Resources and Planning
Subject: Setting Priorities for Review and Processing of Grazing Authorizations and Related Livestock Grazing Monitoring

Program Area: Rangeland Management and Wildlife Management.

Purpose: This Instruction Memorandum (IM) provides guidance for prioritizing the review and processing of grazing permits and leases (permits) across all BLM managed lands. This IM also provides guidance on prioritizing monitoring for the effectiveness of livestock grazing management and progress toward achieving land health standards (LHS). The policy in this IM supersedes previous policies regarding the prioritization of grazing permit reviews, including WO IM 2016-141, *Setting Priorities for Review and Processing of Grazing Authorizations in Greater Sage-Grouse Habitat*, and WO IM 2009-018, *Process for Setting Priorities for Issuing Grazing Permits and Leases*.

Policy/Action: This policy is intended to ensure that land health considerations are the primary basis for prioritizing the processing of grazing permits and leases, monitoring the effectiveness of grazing management, and making progress toward achieving land health standards. Field offices (FOs) will prioritize the following, consistent with land use plans:

- Complete LHS Assessments/Evaluations.
- Review and process of grazing permits and leases.
- Monitor compliance with grazing permit/lease terms and conditions.
- Monitor progress towards achieving LHS.

Field offices will focus this work in the highest priority areas, which usually include areas where LHS have not been evaluated, areas not achieving LHS, areas with sensitive plant, wildlife or cultural resources, or where specific issues have been identified. Where possible, FOs should prioritize land health evaluations based on a watershed(s), group of allotments, or other large geographic areas. This

provides information for the National Environmental Policy Act (NEPA) analyses that is used for grazing permit renewals and related management actions. The BLM's goal in managing to achieve LHS is to provide for the long-term sustainability of rangelands for livestock grazing, wildlife habitats, and other uses.

The BLM's decision to prioritize grazing permit renewal using the criteria listed below does not indicate that livestock grazing is more of a management concern than other uses of the public lands. Nor does it suggest that livestock grazing is an incompatible use in any given area, but rather reflects an agency preference to prioritize limited resources to ensure livestock grazing is properly managed for achievement of LHS. The BLM recognizes that livestock grazing is an important component of its multiple use mission and that grazing is sustainable and compatible with conserving wildlife habitat.

Setting Priorities for Reviewing and Processing Grazing Permits

Field Offices must give the highest priority to the work necessary to meet applicable legal requirements (e.g., court orders). The field offices should then consider the criteria listed below to inform their priority-setting process. These criteria are not listed in order of importance, nor are they all-inclusive and the BLM may use additional criteria when setting priorities:

- Areas where LHS are not being met.
- Prioritization criteria identified in applicable land use plans. For GRSG Plans, allotments with Priority Habitat Management Areas (PHMA) are higher priority than General Habitat Management Areas where preliminary information indicates resource damage may be occurring and has not been evaluated. This information can come from local, national, or external data sources.
- Allotments that are wholly or partially within Greater Sage-Grouse habitats where one or more land use plan adaptive management triggers have been exceeded, and livestock grazing has been identified as a causal factor in exceeding a trigger.
- Areas where modifications to livestock grazing management will facilitate implementation of vegetation treatments (e.g. restoration of areas dominated by noxious and/or invasive species) to make progress toward achieving activity plan objectives.
- Areas with declining special status species populations, e.g., sage-grouse.
- Areas where known threats are impairing habitat availability or suitability (e.g., cheatgrass invasion).
- Areas where LHS have never been evaluated.
- The need to respond to urgent concerns (e.g., wildfire).
- Potential for partnerships that offer opportunities for broader landscape habitat management or other cooperative or coordinated management with adjacent landowners/permittees.

Preparing for Permit Review and Processing

Land health evaluations should be completed and available for any permit that will be fully processed. Field offices should plan in advance to have the land health data collected and the evaluation complete prior to initiating the NEPA process for permit renewal.

Setting Priorities for Livestock Grazing Management Monitoring

The frequency of monitoring will be influenced by field office capacity and should be based upon the level of resource concerns and uncertainties associated with each allotment or grazing permit/lease. For example, after issuing a new fully processed grazing permit, it may be appropriate to monitor an allotment more frequently in the first two or three years of implementing a new grazing management system, whereas less frequent monitoring would be needed where a livestock grazing management system has been in place for several years and is making significant progress toward achieving LHS, or is achieving LHS. Monitoring plans should be tied to indicators that inform land health standards.

Monitoring priority should be based on local knowledge of the resource issues involved, such as areas with a recent history of non-compliance, lotic and lentic riparian areas, allotments where management thresholds and responses and effectiveness monitoring have been incorporated into grazing permits/leases, or areas where livestock use has the potential to negatively affect special status species habitats, e.g., sage-grouse.

Consultation and Coordination

As required in 43 CFR 4110.3-1(c), 4110.3-3(a), 4110.3-3(b), 4120.2(c) and (e), 4130.2(b), and 4130.6-2,¹¹ field offices will consult and coordinate with grazing permit holders, the interested public, state agencies, tribes and other appropriate federal agencies when comparing current conditions to land health standards and resource objectives; developing alternatives for NEPA analysis, particularly

when considering adjustments in authorized use; and developing a monitoring plan, particularly if other parties will be collecting data to determine the effectiveness of any changes in management. In addition to the consultation and coordination with the entities required by regulation, field offices will also include relevant federal, state and local government regulations as appropriate.

Timeframe: This policy is effective immediately.

Budget Impact: The BLM will continue to consider several criteria when prioritizing the review and processing of livestock grazing permits. The BLM's emphasis on reviewing and processing higher priority grazing permits (e.g., where they have the potential to affect Special Status Species, such as sage-grouse) will affect its ability to process and issue permits in lower priority areas. Monitoring requirements and workloads may increase to ensure effective implementation of grazing management plans associated with renewed grazing permits, particularly when management changes or thresholds and responses and effectiveness monitoring are implemented.

Background: This policy is intended to ensure that land health considerations are the primary basis for prioritizing the processing of grazing permits and leases, monitoring the effectiveness of grazing management, and making progress toward achieving land health standards. The BLM has issued previous policy including WO IM 2016-141, *Setting Priorities for Review and Processing of Grazing Authorizations in Greater Sage-Grouse Habitat*, issued September 7, 2016, and WO IM 2009-018, *Process for Setting Priorities for Issuing Grazing Permits and Leases*, issued October 31, 2008.

The 2015 Greater Sage-Grouse Approved Resource Management Plans and Amendments (GRSG Plans) include management direction stating that BLM will prioritize the review of grazing permits/leases in PHMAs. The GRSG plans also provided direction for giving precedence to areas not achieving land health standards. However, the GRSG Plans preserved the BLM discretion to use additional criteria for prioritization. On August 4, 2017, the BLM delivered a Response to Secretarial Order 3353 "Greater Sage-Grouse Conservation and Cooperation with Western States" (June 7, 2017) that identified issues related to the 2015 GRSG plans and subsequent policies. This policy update is a result of the Response to SO 3353 as well as feedback from internal staff and external federal, state, and local partners.

Section 3023 in Public Law (PL) 113-291, National Defense Authorization Act (NDAA), 2015, amends Section 402 of the Federal Land Policy and Management Act of 1976 (FLPMA) and includes seven provisions related to livestock grazing. Two of the provisions address completing NEPA requirements on an allotment or multiple-allotment basis and for setting priorities for completing NEPA on the environmental significance of the grazing allotment, permit, or lease, and the available funding for the environmental analysis.

Manual/Handbook Sections Affected: Manual Section 4100 Grazing Administration (Rel. 4-109) in regard to setting priorities; Handbook 4130-1 Authorizing Grazing Use (Rel. 4-75) in regard to setting priorities, completing environmental assessments, reviewing and modifying grazing authorizations; and Handbook 4180-1 Rangeland Health Standards (Rel. 4-107) in regard to criteria for selecting assessment and evaluation areas, and prioritizing assessment and evaluation areas.

Coordination: This IM was prepared in coordination with the BLM Division of Fish and Wildlife Conservation, and the Solicitor's Office.

Contacts: If you have any questions, please contact Kimberly Hackett, Senior Natural Resource Specialist, Division of Forest, Rangeland, Riparian and Plant Conservation (WO-220) at 202-912-7216 or by email at khackett@blm.gov (<mailto:khackett@blm.gov>).

Signed by:

Kristin M. Bail
Assistant Director, Resources and Planning

Authenticated by:

Catherine Emmett
WO-870, IT Policy and Planning

¹³ All citations using 43 CFR Part 4100 refer to the version of the grazing regulations published in the October 1, 2005, edition of the Code of Federal Regulations.



IMPLEMENTATION OF THE HABITAT OBJECTIVES TABLE FROM THE 2015 GREATER SAGE-GROUSE APPROVED RESOURCE MANAGEMENT PLANS AND AMENDMENTS

IM 2018-025

Instruction Memorandum

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON, D.C. 20240

[http://www.blm.gov \(/\)](http://www.blm.gov (/))

December 27, 2017

Reply Refer To:
1610 (200), 6710, 4110 P

EMS Transmission: December 27, 2017
Instruction Memorandum No. 2018-25
Expires: 09/30/2021

To: State Directors (California, Colorado, Idaho, Montana, Nevada, Oregon/Washington, Utah, and Wyoming) and Center Directors

From: Assistant Director, Resources and Planning

Subject: Implementation of the Habitat Objectives Table from the 2015 Greater Sage-Grouse Approved Resource Management Plans and Amendments

Program Areas: Wildlife Management, Threatened and Endangered Species Management, Rangeland Management, Riparian Management, Hazardous Fuels Management, Emergency Stabilization, Burned Area Rehabilitation, Resource Management Planning.

Purpose: This Instruction Memorandum (IM) provides guidance on the use of the Habitat Objectives Tables (often referred to as Table 2-2) in each of the 2015 Greater Sage-Grouse (GRSG) Approved Resource Management Plans and Amendments (GRSG Plans), including using the existing indicator values in the tables or, when supported by the best available GRSG science, alternative indicator values that represent the seasonal habitat needs of GRSG.

Policy/Action: The BLM offices should use the Habitat Objectives Table indicators and values found in their GRSG Plan in assessing site-scale suitability of GRSG habitat. These results inform the Land Health Standards (LHS, 43 CFR 4180.2) assessment and evaluation process. The LHS evaluation can inform potential management actions. Offices should also use the Habitat Objectives Table indicators and values as a component of GRSG Plan effectiveness evaluations to describe the change from the baseline vegetation conditions (the conditions at the onset of a monitoring program) to the time of the next monitoring interval. Appropriate indicators from the Habitat Objectives Table can also be used to develop measurable objectives for vegetation treatments and management actions within sage-grouse habitat areas. The BLM offices are to follow the process identified herein when considering whether to utilize values other than those in the GRSG Plan Habitat Objectives Table.

Uses of the GRSG Plan Habitat Objectives Table (See Diagram 1)

- To assess site-scale suitability of sage-grouse habitat following current BLM policy on Gunnison and Greater Sage-Grouse (including the Bi-State Distinct Population Segment) Habitat Assessment Policy.
- To inform Land Use Plan (LUP) effectiveness to conserve GRSG habitat.

- To develop measurable objectives for projects in sage-grouse habitat areas.

Diagram 1: Uses of the GRSG Plan Habitat Objectives Table and the Land Health Assessments.

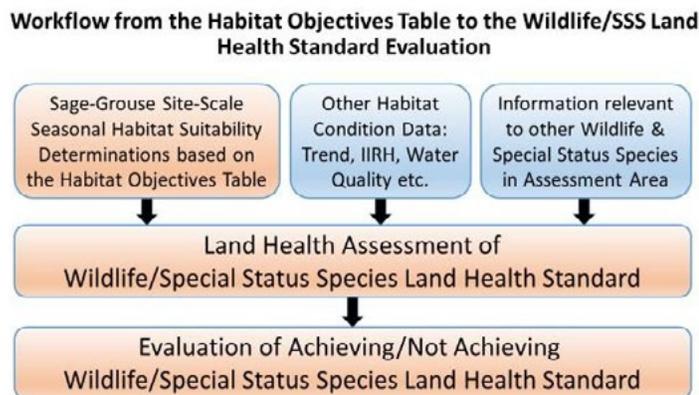


Using the Habitat Objectives Table in Site-Scale Habitat Assessments

Each seasonal habitat indicator value in the Habitat Objectives Table is compared to data collected at each plot (during the appropriate season) in GRSG habitat. Then the indicators for the seasonal habitat will be examined using a preponderance of evidence approach (Pellant et al. 2005, BLM TR 1734-6) to determine overall suitability (suitable, unsuitable, or marginal) of the plot. No single indicator from the habitat objectives table should be used by itself to determine site-scale suitability of sage-grouse habitat. It is critical to document certain environmental factors, such as drought conditions and the ecological site potential on the site-scale suitability forms (modified as necessary from the Sage-Grouse Habitat Assessment Framework (HAF, BLM TR 6710-1, Stiver et al 2015)), so that the documentation can be used in the LHS evaluations and determination of causal factors if a standards are is not achieved. This approach is consistent with the BLM's Habitat Assessment Policy for Gunnison and Greater Sage-Grouse (including the Bi-State Distinct Population Segment).

During the LHS evaluation, the long-term trends should be used in addition to the sage-grouse habitat suitability determinations (see Diagram 2). Sage-grouse habitat assessments help to inform the BLM's land health evaluation for Special Status Species, but are not a substitute for long-term trend data and rangeland health assessment monitoring. The process for Grazing Permit Renewals has not changed. Standards for Rangeland Health must be achieved, maintained, or significant progress towards achievement must be shown. The Land Health Assessment and LHS evaluation tasks, including sage-grouse habitat assessments, should not be viewed as, or completed as, separate workloads. These are all components of the current BLM regulatory requirements of achieving LHS. Whenever possible, complete these tasks simultaneously.

Diagram 2: Workflow from the Habitat Objectives Table to the Wildlife/SSS Land Health Standard Evaluation



Inappropriate Uses of the Habitat Objectives Table

- Using the indicator value(s) as default desired conditions to inform LUP effectiveness without considering the ecological potential of the site and relevant local information where measurements were taken.
- Using a single measured indicator value to determine sage-grouse habitat suitability.
- Using a single indicator as a criterion to modify grazing management or any other use.
- Adjusting use authorizations based on measured indicator values without adequate monitoring data and a causal factor determination.

Using Site-Specific Indicator Values

Not all areas within a given habitat management area will be capable of meeting the desired seasonal habitat values in the Habitat Objectives Table due to inherent variation in vegetation communities and ecological potential. Further, local data or recent science may indicate that sage-grouse select for vegetation structure and composition in seasonal habitats not characterized by the values in the Habitat Objectives Table. In these cases, it may be appropriate to utilize values other than those in the Habitat Objectives Table. The BLM State Offices should follow these steps when evaluating whether to use alternative values to those found in the Habitat Objectives Table:

Step 1: Evaluate the data and science against the following criteria:

1. Data accurately describes the seasonal habitat selection criteria of a GRSG population and is supported by peer-reviewed science.
2. The analysis used to evaluate the data and its relationship to suitable habitat is available to the public.
3. A change in indicator value is detectable (so that trend can be detected over time).
4. The values have been reviewed and accepted by the state wildlife agency, if the agency elects to participate.

Step 2: If the BLM State Office determines that the habitat values identified in Step 1 are appropriate for a seasonal habitat area, the state office should document the alternate indicator value(s) through the appropriate mechanism (e.g., policy or LUP action). The documentation for the new information must clearly describe the data sources and science used to reach the adjusted value(s).

Step 3: Offices should use the new indicator values that are appropriate for the seasonal habitat area and include documentation supporting the new indicator values in the applicable assessment report (e.g., site-scale suitability form, LHS evaluation, plan effectiveness).

Timeframe: This policy is effective immediately.

Budget Impact: Current budget supports the fieldwork to collect core indicator data to inform the indicators in the Habitat Objectives Tables and perform assessments and evaluations of habitat condition and LUP effectiveness. Current budgets are also supporting development and delivery of training on appropriate use of the GRSG Habitat Objectives Table.

Background: Sage-grouse have a fairly specific set of habitat parameters that research has shown are important to its conservation. The BLM's overarching goal is to have healthy, intact sagebrush steppes that are achieving or making progress towards achieving LHS, including the wildlife/special status species habitat standard and that provide for the long-term sustainability of rangelands for livestock grazing, wildlife habitats, and other uses.

The process for Land Health Assessments has not changed. Standards for Rangeland Health must be achieved, maintained, or significant progress towards achievement must be shown. Current guidance is found in the BLM 4180 Handbook (BLM 2001). When the BLM applies land health standards to assess land health, they are applied regardless of use. If rangelands are meeting all applicable LHS, adjustments to uses are typically unnecessary. If the BLM determines that rangelands are not meeting the standards of land health, then the BLM should determine the causal factors and implement appropriate management actions to ensure the area is making significant progress toward achieving the standards. When authorizing these appropriate management actions, the BLM should implement a monitoring plan to determine if the actions are accomplishing the desired result.

The ecological potential of a site is informed from an Ecological Site Description, associated State and Transition Models, and other pertinent data used to complete a Reference Sheet as described in *Interpreting Indicators of Rangeland Health* (M. Pellant, et. al., 2005). The ecological potential indicates whether a site can achieve the values for the indicators in the Habitat Objectives Table. If an Ecological Site Description or associated State and Transition Model are not available, the process set out in *Interpreting Indicators of Rangeland Health* describes a process to identify an existing Ecological Site Description that is suitable for the soil, moisture, aspect, and slope of the site in question. If no comparable or suitable Ecological Site Description is available, *Interpreting Indicators of Rangeland Health* also describes the process to develop a Reference Sheet in the absence of an Ecological Site Description.

On August 4, 2017, the BLM delivered a Response to Secretarial Order 3353 "Greater Sage-Grouse Conservation and Cooperation with Western States" (June 7, 2017) that identified issues related to the 2015 GRSG plans and subsequent policies. This policy revision is a result of the Response to SO 3353 as well as feedback from internal staff and external federal, state, and local partners.

Coordination: This IM was coordinated between the WO Division of Fish and Wildlife Conservation, the WO Division of Forest, Rangeland, Riparian and Plant Conservation, the Division of Resource Services at the National Operations Center, and state directors within GRSG habitat.

Contact: For further information or clarification, please contact: Vicki Herren (National Sage-Grouse Coordinator at 202-912-7235 or by email at vherren@blm.gov (<mailto:vherren@blm.gov>)), Kimberly Hackett (Senior Natural Resource Specialist at 202-912-7216 or by email at khackett@blm.gov (<mailto:khackett@blm.gov>)) or Gordon Toevs (Senior Policy Advisor, Resources and Planning at 202-567-1589 or by email at gtoevs@blm.gov (<mailto:gtoevs@blm.gov>)).

References: BLM (Bureau of Land Management). 2001. Rangeland Health Standards, BLM Handbook H- 4180-1. Department of the Interior, BLM ([/sites/blm.gov/files/uploads/Media_Library_BLM_Policy_h4180-1.pdf](https://sites/blm.gov/files/uploads/Media_Library_BLM_Policy_h4180-1.pdf)).

Stiver, S.J., E.T. Rinkes, D.E. Naugle, P.D. Makela, D.A. Nance, and J.W. Karl, eds. 2015. Sage- Grouse Habitat Assessment Framework: (<https://ia600205.us.archive.org/4/items/sagegrousehabita00stiv/sagegrousehabita00stiv.pdf>)

[A Multiscale Assessment Tool, Technical Reference 6710-1, Bureau of Land Management and Western Association of Fish and Wildlife Agencies, Denver, Colorado. \(https://ia600205.us.archive.org/4/items/sagegrousehabita00stiv/sagegrousehabita00stiv.pdf\)](https://ia600205.us.archive.org/4/items/sagegrousehabita00stiv/sagegrousehabita00stiv.pdf)

Pellant, M., P. Shaver, D.A. Pyke, and J.E. Herrick. 2005. Interpreting indicators of rangeland health, version 4. Technical Reference 1734-6. U.S. Department of the Interior, BLM ([/nrtc/library/pdf/1734-6rev05.pdf](https://nrtc.library/pdf/1734-6rev05.pdf)).

Signed by:

Kristin M. Bail

Assistant Director, Resources and Planning

Authenticated by:

Catherine Emmett

WO-870, IT Policy and Planning



IMPLEMENTATION OF GREATER SAGE-GROUSE RESOURCE MANAGEMENT PLAN REVISIONS OR AMENDMENTS – OIL & GAS LEASING AND DEVELOPMENT PRIORITIZATION OBJECTIVE

IM 2018-026

Instruction Memorandum

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON, D.C. 20240

[http://www.blm.gov \(/\)](http://www.blm.gov (/))

December 27, 2017

In Reply Refer To:
3100(310) P

EMS Transmission: December 27, 2017
Instruction Memorandum No. 2018-26
Expires: 09/30/2021

To: Washington Office, State Offices and Field Office in Greater Sage-Grouse Habitat

From: Assistant Director, Energy, Minerals and Realty Management

Subject: Implementation of Greater Sage-Grouse Resource Management Plan Revisions or Amendments – Oil & Gas Leasing and Development Prioritization Objective

Program Areas: Fluid Minerals Leasing and Operations, Resource Management Planning, and Wildlife Management.

Purpose: This Instruction Memorandum (IM) replaces IM 2016-143. The purpose of this IM is to ensure consistency, certainty, and clarity when implementing an objective in the 2015 Greater Sage-Grouse (GRSG) Approved Resource Management Plan Revisions and Amendments (GRSG Plans) to prioritize oil and gas leasing outside of GRSG habitat,^[1] while continuing to move forward expeditiously with oil and gas leasing and development, yet providing protections for GRSG and GRSG habitat management areas.

Policy/Action: The GRSG Plans established an objective to prioritize oil and gas leasing and development outside of GRSG habitat management areas,^[2] but to allow for leasing with appropriate stipulations on all BLM mineral estate designated in the GRSG Plans as “open” for leasing. In effect, the BLM does not need to lease and develop outside of GRSG habitat management areas before considering any leasing and development within GRSG habitat. This policy should allow for the BLM to efficiently conduct lease sales and permit oil and gas development while still protecting GRSG and GRSG habitat.

Leasing

- Where the BLM has a backlog of Expressions of Interest for leasing, the BLM will prioritize its work first in non-habitat management areas, followed by lower priority habitat management areas (e.g., GHMA) and then higher priority habitat management areas (i.e., PHMA, then SFA).
- Stipulations such as No Surface Occupancy (NSO) and Controlled Surface Use may be used as the BLM implements the GRSG Plans. The BLM can use these stipulations to encourage lessees to acquire leases outside of GRSG PHMA due to fewer

restrictions in those areas than in higher priority habitat management areas. In addition, the BLM will continue to work with parties who file expressions of interest and potential lessees to voluntarily prioritize leasing in less-sensitive areas. Consistent with the GRSG Plans, however, parcels may be leased within GRSG habitat management areas without first leasing parcels in non-habitat areas.

Leasing and Development

- The BLM will continue to work cooperatively with stakeholders, including state agencies, lessees, operators, landowners, and leasing proponents to avoid and minimize impacts to designated GRSG habitats.
- BLM Offices may also take into consideration other prioritization considerations, but only insofar as they are consistent with the governing land use plan. An example would be to prioritize outside of areas where a GRSG adaptive management trigger has been tripped. Other prioritization considerations may include office workload capacity, first-in/first-out, priority for unit obligation wells, processing the easiest applications first, operator drilling plans, operator proposals for units, potential drainage cases, and other resource values that must be considered.

Development

The BLM must honor valid existing rights, such as in cases where the BLM issued a lease prior to the GRSG Plans, with terms and stipulations that may be different from those provided for in the GRSG Plans.^(b) When approving permits on these leases, apply reasonable and appropriate site-specific mitigation as conditions of approval,^(b) such as applicable Best Management Practices (BMP) and Required Design Features (RDF), as described in the GRSG Plans. If proposed development lies within an area that the GRSG Plans designate for an NSO stipulation, but the lease pre-dates the GRSG Plans, work cooperatively with the operator and respective stakeholders to find a location with the least impact to GRSG and other resources, to the greatest extent possible. The BLM will continue to work with stakeholders to use the best available science regarding GRSG and GRSG habitat when analyzing the impacts of leasing and development decisions in NEPA documents and when applying appropriate avoidance and minimization protective measures. If the authorized officer determines through an environmental analysis that the potential environmental impacts of approving a permit could be significant, the authorized officer will prepare an Environmental Impact Statement before taking action.

- The authorized officer will continue to work with operators and stakeholders to timely restore well sites with the appropriate habitat seed mixes.

Timeframe: This IM is effective immediately.

Budget Impact: This policy will result in nominal costs for increased planning, coordination, National Environmental Policy Act review, GIS, responding to administrative challenges, and associated program costs. It is anticipated that performance targets/units of accomplishment for the resource programs will adjust to reflect the added complexities and responsibilities. Timelines for leasing and permitting activities within GRSG habitat management areas may take longer to process; however, parcels and permits outside of GRSG habitat will be prioritized for processing.

Background: The BLM authorized officer, acting under the delegated authority of the Secretary of the Interior, has discretion to determine which public lands will be offered at a lease sale. The Mineral Leasing Act of 1920 (MLA), as amended, provides that lands subject to disposition under the Act “which are known or believed to contain oil or gas deposits may be leased by the Secretary.” (30 U.S.C. § 226(a) (emphasis added)).

On September 21, 2015, the Department of the Interior and the BLM approved the GRSG RODs. Concurrently, the BLM amended or revised the Plans in GRSG habitat to provide conservation measures protective of GRSG and their habitats.

The prior IM 2016-143 addressed leases sold, but not yet issued, and deferred parcels prior to the signing of the GRSG plan ROD. These have since been processed and no longer need to be discussed.

Manual/Handbook Sections Affected: None.

Coordination: This IM was coordinated with the U.S. Department of the Interior, Office of the Solicitor; BLM State Offices; the Renewable Resources and Planning Directorate; and the Energy, Minerals and Realty Management Directorate.

Contacts: Any questions regarding this IM may be directed to me at 202-208-4201 or by email at tspisak@blm.gov (<mailto:tspisak@blm.gov>). You may also contact Steven Wells, Division Chief, Division of Fluid Minerals (WO-310), at 202-912-7143 or by email at s1wells@blm.gov (<mailto:s1wells@blm.gov>).

Signed by:
Robert Jolley
Acting Assistant Director, Energy, Minerals and Realty Management

Authenticated by:
Catherine Emmett
WO-870, IT Policy and Planning

^[1] Although the 2014 Lander (Wyoming) Record of Decision (ROD) and Approved Resource Management Plan (RMP) do not include an objective to prioritize oil and gas leasing outside of GRSG habitat, the procedures in this IM will be followed in the areas covered by that RMP in order to ensure consistency in the BLM's oil and gas leasing and development activities throughout the GRSG range. The prioritization of leasing and development is an administrative function, not an allocation decision, and so the Lander RMP does not need to be updated to adopt this approach to leasing and development.

In addition to Priority Habitat Management Area (PHMA), Sagebrush Focal Areas (SFA), and General Habitat Management Areas (GHMA), other designations were made in the GRSG Plans. These include: "Important Habitat Management Areas" (IHMAs – only applicable to Idaho), "Linkage Connectivity Habitat Management Areas" (LCHMA – applicable only in Colorado), "Restoration Habitat Management Areas" (RHMA – applicable only in the Billings and Miles City Field Offices), and "Other Habitat Management Areas" (OHMAs – only applicable to Nevada and Northeastern California). Wyoming's "Core Areas" are generally designated PHMAs. Refer to your approved RMP, as revised or amended.

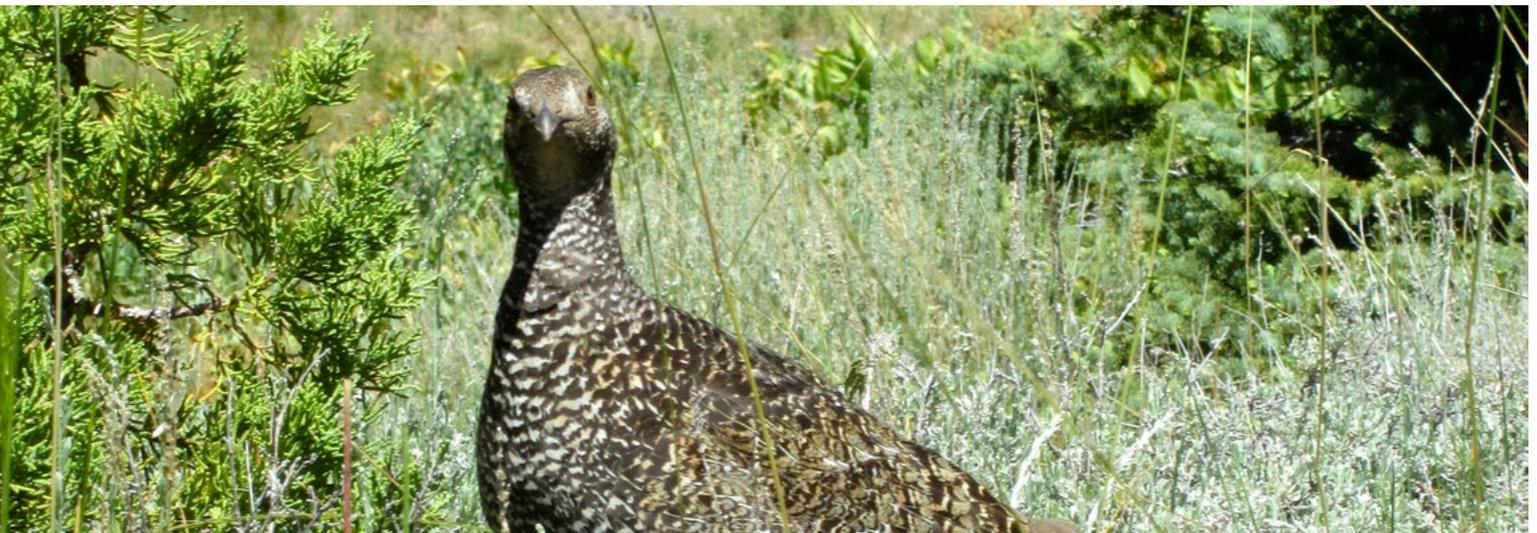
^[2] This includes split estate lands.

^[3] See for example, Rocky Mountain Record of Decision (RM ROD) at page 2-2, Great Basin Record of Decision (GB ROD) at page 2-2.

^[4] 43 CFR 3101.1-2, 43 CFR 3162.3-1(h)(1), and 43 CFR 3162.5-1(a). In addition, Lease Form 3100-11 says: *to the extent consistent with lease rights granted, such measures may include, but are not limited to, modification to siting or design of facilities, timing of operations, and specification of interim and final reclamation measures*. Lease Form 3100-11 also discusses ceasing operations to protect species of scientific interest and denying the permit if impacts would be substantially different or greater than those associated with normal drilling operations.

USFS Sage-grouse Plan Amendments

After a public comment period, the USFS posted its Notice of Intent (NOI) to amend its Sage-grouse management plans pursuant to Secretarial Order 3353 to bring them into better alignment with State Sage Grouse Management Plans and align with the recent BLM Sage-grouse Management Plan Amendments.



According to the USDA Forest Service website Greater Sage-Grouse Home Page:

The Intermountain and Rocky Mountain Regions of the Forest Service incorporated standards and guidelines for the conservation of greater sage-grouse into forest plans in 2015. As plans have been implemented, potential inefficiencies and difficulties have been identified. An initial Notice of Intent (NOI) to prepare a draft Environmental Impact Statement was published and then after initial input, the Forest Service released a supplemental NOI with specific proposed actions for comment.

U.S. Forest Service Sage-Grouse Bulletin #6

On July 2, 2018 the USFS released an updated NOI to amend Sage-grouse Management Plans. In U.S. Forest Service Sage-Grouse Bulletin #6 it states:

The purpose of the proposed action is to incorporate new information to improve the clarity, efficiency, and implementation of greater sage-grouse plans, including better alignment with the Bureau of Land Management (BLM) and state plans, in order to benefit greater sage-grouse conservation on the landscape scale.

Public Comment Summary

The public comment period ended on August 15, 2018. A summary of the comments prepared by SWCA Environmental Consultants is available online. (https://www.fs.usda.gov/Internet/FSE_DOCUMENTS/fseprd595810.pdf) The September 2018 document summarizes the issues brought up by commenters on a state by state basis and covers a broad range of issues. The report includes the following specific issues from Utah commenters:

General: Support is expressed by some commenters for proposed changes to only apply the disturbance cap at the BSU level and to revise net conservation gain language to no net loss. However, other commenters ask for scientific proof to support a three or five percent cap, or request that the plan permit flexibility in application of the three percent disturbance cap. It is also recommended that the Forest Service not focus efforts on “pushing development and land uses to areas outside priority habitat management areas (PHMA) and general habitat management areas (GHMA).” Other recommendations include deleting Table 1 or incorporating other habitat values from the scientific literature; developing more quantitative/objective habitat measures; and ensuring that priority habitat continues to be included and protected through management prescriptions.

Fluid Minerals: Support for proposed changes that remove conditions of approval on existing fluid minerals leases, such as density criteria, within Anthro Mountain is expressed. However, one entity indicates that the Forest Service should go further and remove all management stipulations.

One commenter also recommends that the Forest Service delete the standard requiring a NSO stipulation for new oil and gas leases in PHMA.

Land Withdrawal: It is stated that the Forest Service should remove guidelines that do not comply with state guidance and could result in elimination of land uses and activities. Livestock Grazing: Support is expressed for: removal of limitations of water development, plan acknowledge of the role of livestock grazing to achieve desired habitat conditions for sage-grouse, and the ability to use Habitat Assessment Framework (or similar process) to determine sage-grouse habitat. However, commenters request that the Forest Service not seek to vacate, cancel, suspend, or reduce grazing allotments or permits in Utah. Mineral Material: It is requested that the Forest Service allow mineral material development or disposal in PHMAs that do not directly impact sage-grouse.

Special Use Authorizations: Support for proposed changes that eliminate requirements for burying transmission lines and that permit land authorizations, such as transmission and distribution lines, is expressed. Commenters also request that the Forest Service permit special uses that may result in habitat loss or long-term species’ impacts if mitigation can offset such impacts. One commenter expresses concern that the Forest Service should not remove protections for Anthro Mountain without further analysis and disclosure in the EIS.

Transportation: Concern is expressed that changes to standards should allow greater flexibility in new road or trail construction and/or only employ seasonal restrictions where warranted.

USFS Draft EIS and Public Comment Period

The USFS published a Notice of Availability announcing the US Forest Service Draft Sage-grouse Land Management Plan Amendments and the DEIS on October 5, 2018, which initiated a 90-day comment period. The public comment period then closed on January 3, 2019. A summary of all the comments submitted was then published in February of 2019.



The Forest Service received comments through its online portal, email, mail and fax. They also held various public meetings in Wyoming, Nevada, Idaho and Utah throughout October, November, and December 2018 to discuss the Draft EIS.

Overall, about 28,000 comments were received, with the majority of them being duplicates. About 600 of the submissions were considered "unique letters," the remainder of the submissions were duplicates of the same or similar letter. A summary of the comments was published in February 2019.

General comments for and against the proposed plan amendments offered differing opinions and recommendations. Other topics of comments included: alternatives, general science, allowable uses, renewable energy, fluid materials, disturbance caps, best management practices, buffers, Sage-grouse management habitat objectives, population management, livestock grazing, fire and fuels, predation, wild horses and burros, adaptive management, mitigation, transportation, recreation and land and socioeconomics. There were comments both for and against the plans in most of these categories.

The U.S. Forest Service Sage-Grouse Bulletin #10 outlines the next steps in the process as follows:

The Interdisciplinary Team is especially focused on clarifying differences in mapping layers between the 2015 and 2019 amendments. Other important activities include forming responses to comments and making revisions to create the final EIS and draft ROD(s).

The Bulletin #10 also states that final ROD(s) will be signed as early as July or as late as September 2019 following an 60 day objection period. This is another clear step in aligning federal Sage-grouse Management Plans in a way that protects Utah's ability to implement the State's Sage-grouse Management Plan.



BLM Publishes Final EIS for Plan Amendments

On December 6, 2018 The Bureau of Land Management published final Environmental Impact Statements for updated Sage-grouse management plans. These plans ensure responsible management of Sage-grouse and their habitats, while also protecting access for sportsmen to tens of millions of acres of public lands across 11 western states.



The updated plans build on BLM management plans adopted in 2015. The revisions better align the BLM land-use plans with state plans through proposed amendments developed with governors, state wildlife managers, and other stakeholders.

The BLM and Department of the Interior have sought input from all stakeholders throughout the process. The draft updates to the Sage-grouse management plans were open for public comment and input for 90 days between May 4, 2018 and August 2, 2018. The public's comments were incorporated into the published EIS. A 30-day protest period was initiated when the EIS was published, starting December 7, 2018, and closing on January 7, 2019.

Enhanced Cooperation with States

The BLM emphasized what the amendments are designed to do in following statement from the Wyoming Greater Sage-Grouse RMPA-EIS page on eplanning.blm.gov:

The Management Alignment Alternative in the Draft EIS was proposed to enhance cooperation and improve alignment between BLM resource management plans for conserving sage grouse habitat and the state's plans for managing the Greater Sage-Grouse species. This alternative does not propose to replace the 2015 plans, but instead builds on them to increase flexibility, maintain access to public resources, and promote conservation outcomes. Nearly

three years of experience with the 2015 plans has shown the BLM and its partners what is working and what is not, and how the 2015 plans can be adjusted to recognize concerns.

In its December 6, 2018 press release (see pages 176-177 to read the full release) the BLM reiterated the collaboration that has occurred between state and federal agencies. Deputy Secretary of the Interior David Bernhardt stated:

We have appreciated the opportunity to work with Governor Herbert's team on a carefully crafted amendment to the 2015 plans...We know the successful conservation of the Greater Sage-Grouse requires the shared stewardship vision of the states, private citizens, landowners and federal land management agencies including those within the Department of the Interior."

Bernhardt continued, "With today's action we have leaned forward to address the various states' issues, while appropriately ensuring that we will continue to be focused on meaningfully addressing the threats to the Greater Sage-Grouse and making efforts to improve its habitat."

Governor Herbert was also quoted in the BLM press release, praising the collaboration:

Secretary Zinke, Deputy Secretary Bernhardt, and BLM Deputy Director Steed have worked with us to develop plans that support Utah's ongoing efforts to conserve, enhance, and restore sage-grouse habitats throughout the state," Gov. Herbert said. "That has not been easy, but it's the right approach for the species and for the state."

An E&E News article from December 6, 2018, (<https://www.eenews.net/stories/1060108957>) highlights the compromise the updated plans strike between conservation and economic activity in Sage-grouse habitat.

Conservation groups and other critics immediately bashed the revisions, saying they're unnecessary and will ultimately drive the bird toward extinction to benefit a few states and special interest groups.

But the six final environmental impact statements (EISs), like the draft versions BLM unveiled in May, do not automatically gut protections for the iconic bird, such as "no surface occupancy" requirements preventing bird-disturbing activities in priority habitat and buffers around grouse breeding grounds, called leks.

Instead, the proposed changes to the original plans finalized in September 2015 give the bureau and individual states "flexibility" to allow for increased activity in grouse habitat management areas encompassing parts of Colorado, Idaho, Nevada/Northern California, Oregon, Utah and Wyoming.

BLM says the final EISs and RMP amendments propose sensible tweaks to the Obama-era plans – most recommended by the individual states – that maintain strong protections for the bird while allowing other activities, such as responsible oil and gas development.

"With today's action we have leaned forward to address the various states' issues, while appropriately ensuring that we will continue to be focused on meaningfully addressing the threats to the greater sage grouse and making efforts to improve its habitat," Bernhardt said in a statement released today.

"This is a great example of federal leaders listening to state leaders, valuing their expertise, and changing their plans based on that input,"

-Utah Gov. Gary Herbert (R)



Support from Western Governors

The December 6th E&E News article also reported that governors from western states, including Governor Herbert, expressed support for the proposed BLM plan amendments and praised the agency for its efforts to collaborate:

"This is a great example of federal leaders listening to state leaders, valuing their expertise, and changing their plans based on that input," Utah Gov. Gary Herbert (R), a vocal critic of the Obama plans, said in a statement.

"It is refreshing to have a federal agency willing to listen to the people in Idaho on an issue so important to our state and the West," Idaho Gov. Butch Otter (R) said in a statement.

Colorado Gov. John Hickenlooper, a Democrat, echoed Otter and Herbert.

"We worked with the Bureau of Land Management and our stakeholders to produce a plan that maintains protection for the sage grouse while balancing the potential impact on local economies," Hickenlooper said in a statement. "This is a significant step that closes out the planning phase and allows us to begin to see the true conservation efforts that safeguard the sage grouse in Colorado."

Wyoming Gov. Matt Mead (R) said the revisions in the final EISs establish "better alignment between state and federal management for the bird."

"I thank the Department of the Interior, both locally and nationally, for working with Wyoming throughout this plan amendment process," Mead added.

A December 6th article in the Deseret News (<https://www.deseretnews.com/article/900045364/utah-gov-gary-herbert-welcomes-trump-administration-move-to-ease-oil-drilling-controls-protecting-imperiled-bird-across-west.html>) discussed another issue that was addressed in the amendments:

Governors from several Western states previously raised concerns over a related federal directive from the Bureau of Land Management that would limit a type of land swap that can be used to preserve habitat for the birds.

Without land swaps and related forms of compensation meant to offset habitat damage, the governors said it would be harder to help the sage grouse survive.

In response, the Interior Department on Thursday revised the directive to say federal officials would consider state-mandated or voluntary proposals for land swaps or similar offsets, but would not accept cash payments.

"Where there's a state requirement, we require in our permits that they comply with state requirements," Bernhardt said.

Colorado officials were encouraged by the new directive.

"It allows them to mirror what we're asking for," said John Swartout, a policy adviser to Colorado Democratic Gov. John Hickenlooper.

Support from Affected Industries

Kathleen Sgamma, president of the Western Energy Alliance, which represents more than 300 oil and gas companies, was quoted in a several articles following the announcement. In an article on Natural Gas Intel (<https://www.naturalgasintel.com/articles/116701-blm-revises-sage-grouse-safeguards-issues-feis>) she applauded the collaboration between the BLM and the States:

"The plan amendments are a big improvement on the 2015 plans...There was better coordination with the states, which enables more flexibility for actual conditions on the ground rather than the previous one-size-fits-all approach. The most significant improvement is the removal of the 'net conservation benefit' requirement that was a concoction of President Obama's pen and not based on law.

In the December 6th article in the Deseret News she underscored the state's and industries' ability to protect Sage-grouse while responsibly utilizing the land's natural resources.

"We can do both – protect sage grouse and move forward with responsible energy development...We've reduced the size of well pads, reduced the numbers of wells. And we had done all these things and the prior administration assumed development was taking place like it was 20 years ago.

A December 10th Feedstuffs article (<https://www.feedstuffs.com/news/modifications-made-sage-grouse-land-use-plans>) highlighted support of the plan amendments from the ranching industry.

Ethan Lane, executive director of the Public Lands Council and National Cattlemen's Beef Assn. Federal Lands, shared the Trump Administration and the Department of Interior came in and did what the previous administration failed to do which was get consistent with states' ongoing management to ensure the right kinds of tools are on the ground to create a habitat for the bird that doesn't sideline activities that allow the bird to coexist such as grazing.

Lane said the last administration put things in the plan that were inappropriately targeting grazing that led to reductions in grazing of areas that need fuel loads managed. An example was where half million acres burned in Nevada that was an area where grazing where reduced heavily because of sage grouse plans.

"The 2015 Sage Grouse plan amendments failed to incorporate critical input from local stakeholders

and risked causing serious damage to sage grouse conservation efforts. We are pleased to see the administration continue its efforts to bring the 2015 amendments in-line with state plans that better account for the diverse ecosystems across the West. Secretary Zinke and his team deserve our thanks for walking the walk and listening to those closest to the ground. We cannot afford to take important management tools like livestock grazing out of the toolbox," Lane said.

Changes Specific to Utah

The amended Sage-grouse management plans will bring significant benefits to how Sage-grouse habitat is handled in Utah. The BLM press release highlighted some of the specific changes to Utah management:

In Utah, the proposed amendments would add exceptions to the No Surface Occupancy (NSO) stipulation on energy leases in non-habitat areas; allow disturbance or density caps to be exceeded when improved outcomes for habitat are expected to result; clarify the process of identifying "essential habitat" during coal leasing; and remove the Sage-brush Focal Area and General Habitat Management Area designations included in the 2015 plans.

The proposed amendments would also open 14,220 acres of BLM-managed lands to cross-country off-highway vehicle use, which represents a common-sense approach to providing more public access for recreation uses that is consistent with conservation of the species. The amendment process also offered an opportunity for the BLM to align its mitigation requirements under FLPMA with those established under Utah law.

The December 6th E&E News article also reported:

For example, in Utah, where BLM manages 2.5 million acres of grouse habitat, the final EIS calls for removing 448,600 acres of "general habitat management areas" and "reverting" back to what management criteria were in place before the Obama-era plans were adopted.

The amended sage grouse plans are a major win for the State of Utah, striking a balance to protect grouse while allowing for expanded economic activity and improved flexibility for the State of Utah to properly manage and address these important issues within its state boundaries.

December 6, 2018 Utah BLM Press Release

BLM UTAH PROPOSES INCREASED FLEXIBILITY AND ACCESS IN SAGE-GROUSE PLANS

Proposed amendments would align conservation efforts at state and federal levels

SALT LAKE CITY – In keeping with Secretary of the Interior Ryan Zinke’s commitment to work closely with states to enhance conservation, the Bureau of Land Management (BLM) today announced the availability of the Final Environmental Impact Statement (EIS) and proposed plan amendments addressing Greater Sage-Grouse conservation on public land in Utah.

The proposed plan amendments aim to better align BLM resource management plans with state plans for conserving sage-grouse populations, strike a regulatory balance and build greater trust among neighboring interests in Western communities. The proposed amendments and final EIS also addresses the issues remanded to the agency by a March 31, 2017, order by the U.S. District Court for the District of Nevada, which determined that the BLM had violated the National Environmental Policy Act when it finalized the 2015 Nevada plan.

“We have appreciated the opportunity to work with Governor Herbert’s team on a carefully crafted amendment to the 2015 plans,” said Deputy Secretary of the Interior David Bernhardt. “We know the successful conservation of the Greater Sage-Grouse requires the shared stewardship vision of the states, private citizens, landowners and federal land management agencies including those within the Department of the Interior.”

Bernhardt continued, “With today’s action we have leaned forward to address the various states’ issues, while appropriately ensuring that we will continue to be focused on meaningfully addressing the threats to the Greater Sage-Grouse and making efforts to improve its habitat.”

The BLM developed the changes in collaboration with Utah Gov. Gary Herbert, state wildlife managers, and other concerned organizations and individuals, largely through the Western Governors Association’s Sage-Grouse Task Force.

“This is a great example of federal leaders listening to state leaders, valuing their expertise, and changing their plans based on that input. Secretary Zinke, Deputy Secretary Bernhardt, and BLM Deputy Director Steed have worked with us to develop plans that support Utah’s ongoing efforts to conserve, enhance, and restore sage-grouse habitats throughout the state,” Gov. Herbert said. “That has not been easy, but it’s the right approach for the species and for the state.”

The proposed changes refine the previous management plans adopted in 2015. Under the Federal Land Policy and Management Act of 1976 (FLPMA), the BLM is required by law to work cooperatively with states on land-use plans and amendments.

“The proposed plans help increase management flexibility for Utah’s working landscapes, allowing for multiple-uses while still providing robust ongoing protection of sage-grouse habitat,” said BLM Utah State Director Ed Roberson. “I value the close working relationship we have with the State of Utah and our cooperating agencies. The plans highlight our shared interests in conservation, while also supporting job-creating industries. It is the BLM’s mission to strike this kind of balance.”

In Utah, the proposed amendments would add exceptions to the No Surface Occupancy (NSO) stipulation on energy leases in non-habitat areas; allow disturbance or density caps to be exceeded when improved outcomes for habitat are expected to result; clarify the process of identifying “essential habitat” during coal leasing; and remove the Sagebrush Focal Area and General Habitat Management Area designations included in the 2015 plans.

The proposed amendments would also open 14,220 acres of BLM-managed lands to cross-country off-highway vehicle use, which represents a common-sense approach to providing more public access for recreation uses that is consistent with conservation of the species. The amendment process also offered an opportunity for the BLM to align its mitigation requirements under FLPMA with those established under Utah law.

The BLM has also published Final EISs for lands it manages in Colorado, Idaho, Oregon, Nevada/northeastern California, and Wyoming.

Publication of the Final EIS and proposed amendments in tomorrow's Federal Register initiates a 30-day protest period, which will run through January 8, 2019. The Utah Governor also has 60 days to review the proposed amendments for consistency with state and local laws and regulations. The process will conclude with a Record of Decision (ROD) following resolution of any protests received during the 30-day review period.

Approval of the Final EIS and Proposed Plan Amendments would require amendments to 14 current BLM resource management plans: Box Elder, Cedar/Beaver/Garfield/Antimony, Grand Staircase-Escalante National Monument, House Range, Kanab, Park City, Pinyon, Pony Express, Price, Randolph, Richfield, Vernal, Warm Springs, and the Salt Lake District Isolated Tracts Planning Analysis.

Anyone who participated in the process for the Utah EIS and who has an interest that is or may be adversely affected by the proposed land use plan amendments in the Final EIS will have the opportunity to protest the proposed plan amendments.

The Final EIS is now available online at <https://goo.gl/o2AQWQ>. Instructions for filing a protest with the Director of the BLM regarding the Proposed RMPA/Final EIS can be found online at <https://www.blm.gov/programs/planning-and-nepa/public-participation/filing-a-plan-protest>. All protests must be in writing and mailed to the appropriate address or submitted electronically through the BLM ePlanning project website. To submit a protest electronically, go to the ePlanning project webpage <https://goo.gl/o2AQWQ> and follow the instructions at the top of the home page.

If submitting a protest in hard copy, it must be mailed to one of the following addresses:

U.S. Postal Service Mail: BLM Director (210), Attention: Protest Coordinator, WO-210, P.O. Box 71383, Washington, D.C. 20024-1383

Overnight Delivery: BLM Director (210), Attention: Protest Coordinator, WO-210, 20 M Street SE, Room 2134LM, Washington, D.C. 20003

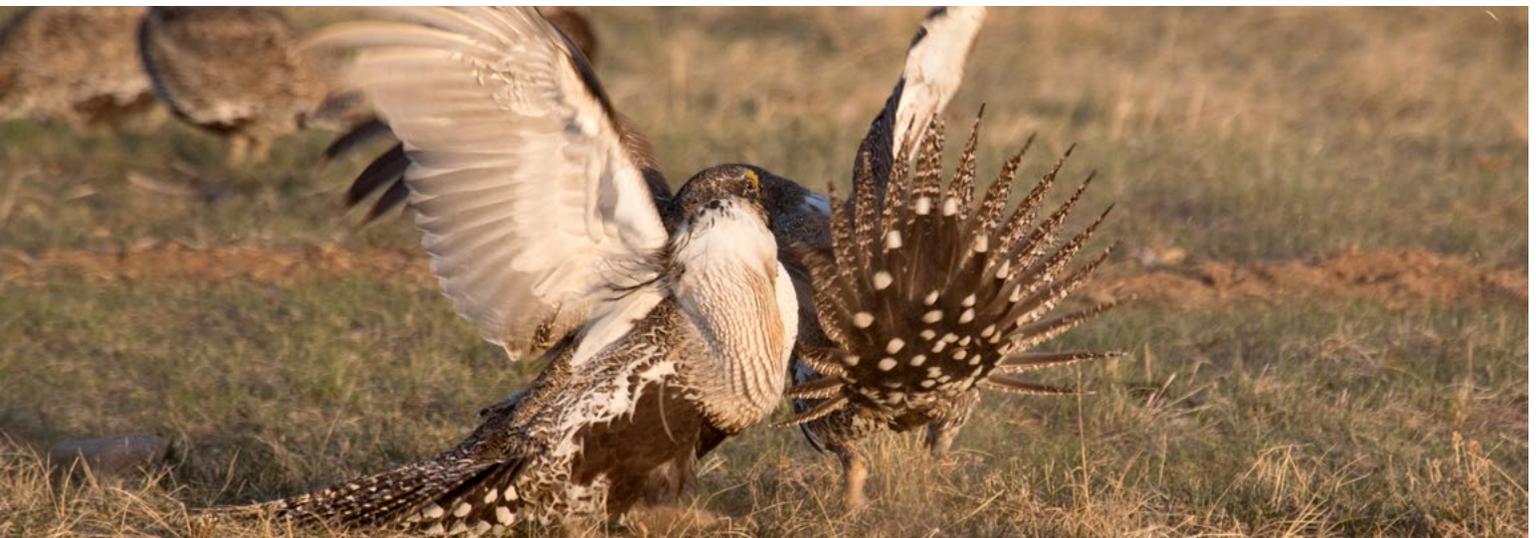
Protests submitted electronically by any means other than the ePlanning project website will be invalid unless a protest is also submitted in hard copy. Protests submitted by fax will also be invalid unless also submitted either through ePlanning project website protest section or in hard copy.

Before including your address, phone number, email address, or other personally identifiable information in your comment, you should be aware that your entire comment – including your personally identifiable information – may be made publicly available at any time. While you can ask the BLM in your comment to withhold your personally identifiable information from public review, we cannot guarantee that we will be able to do so.

-BLM-

BLM Publishes Records of Decision on Plan Amendments

On March 15, 2019 the BLM issued signed Records of Decision (RODs) for the Final Environmental Impact Statements (FEISs)/Proposed Resource Management Plan Amendments (PRMPAs) that were published in December 2018. The BLM was able to resolve protests and responded to governors consistency reviews prior to issuing the RODs.



The governors of seven of the 11 states affected by the BLM Sage-grouse Management Plans requested that changes be made to the 2015 Sage-grouse Management Plans. In an effort to work more closely with the states, the BLM listened and responded to the various protests and requests. The amended plans included changes that were developed in collaboration with governors and state wildlife agencies in the seven affected states, and other concerned organizations and individuals.

A press release from the BLM announced the final RODs and FEISs on March 15, 2019. According to the press release (see page 192-193 for the full content of the release):

...a total of 32.4 million surface acres will be managed as priority habitat across the Greater Sage-Grouse's range, while another 25.6 million surface acres are designated general habitat. The plans for BLM lands in Nevada, Idaho and Colorado include additional habitat categories, acreages and management objectives specific to their respective states.

In Utah, amendments to 14 BLM plans will increase flexibility in applying stipulations to portions of designated habitat management areas (HMAs) that are not currently serving as active habitat, and when improved outcomes are expected to result, caps on disturbance and density may be exceeded. Altogether, there are 7.3 million acres of sage-grouse habitat mapped across the state.

Benchmarks, or “trigger” points, for local sage-grouse populations remain in place for BLM-managed habitat to indicate when adaptive management measures are needed to address population declines. The amended plans also outline procedures once it is determined that a decline has been stopped and reversed.”

The amended plans provide the flexibility to manage and protect Sage-grouse and also formalize the coordination that allows the states to apply mitigation measures to approved actions. They give the states the ability to implement their individual

management plans and provide support from the BLM. As the BLMs press release states:

The decisions reflect the BLM’s determination that greater flexibility was needed to manage habitat and respond to the particular needs of each state’s landscapes and communities.

With the amended federal plans in place, the State of Utah has the ability to work closely with the BLM to implement the State’s Sage-grouse Management Plan in alignment with the BLM’s management plans.

At this point the Greater Sage-grouse Coordinated Consulting Team considers this a successful outcome of the years of efforts put into ensuring the State has the ability to manage and protect its Sage-grouse population in the most effective manner, while also balancing the need for economic development and outdoor activities in and around Sage-grouse habitat areas.

“This new BLM plan improves upon the 2015 federal sage-grouse plans by incorporating the best available science and aligning with the State’s 2019 Conservation Plan for Greater Sage-Grouse. I support BLM’s ongoing efforts to work with the State, and other stakeholders, to conserve, enhance, and restore sage-grouse habitats throughout Utah. The State of Utah remains committed to working with BLM, and the Department of Interior to implement this revised BLM plan to manage sage-grouse habitats in Utah.”

Governor Gary Herbert

March 15, 2019 BLM Press Release

March 15, 2019 BLM Press Release

SAGE-GROUSE CONSERVATION PLAN AMENDMENTS SUPPORTED BY AFFECTED STATES' GOVERNORS

Collaboration with states addresses conservation without stifling local economies

WASHINGTON – Furthering the Administration's goals of restoring trust with local communities and responsibly developing America's natural resources while easing regulatory burdens, the Bureau of Land Management today issued Records of Decision (RODs) amending land use plans for Greater Sage-Grouse habitat management on public lands, providing special protective measures for nearly 60 million acres of sagebrush steppe.

The decisions received bipartisan support from the governors who sought revisions to the plans that guide conservation of sagebrush steppe habitat on BLM-administered public lands in their respective states. The goal was to better align BLM plans for managing habitat with state plans for conserving the species.

"Months of close coordination and cooperation with state governments in Wyoming, Nevada, California, Idaho, Oregon, Utah and Colorado has gone into the development of today's decision," said Acting Secretary of the Interior David Bernhardt. "The plans adopted today show that listening to and working with our neighbors at the state and local levels of government is the key to long-term conservation and to ensuring the viability of local communities across the West."

Colorado Governor Jared Polis welcomed the amended plan: "We are pleased that the Bureau of Land Management addressed our comments brought forward during the Governor's Consistency Review. Our focus now turns to implementation and creating successful outcomes on the ground. We look forward to working with the BLM and our local communities to move important conservation measures forward to protect Greater Sage-Grouse in Colorado."

"The State of Nevada thanks the Bureau of Land Management for incorporating our concerns and respecting the Greater Sage-Grouse habitat plan developed cooperatively by Nevada state agencies and local stakeholders," said Nevada Governor Steve Sisolak. "In particular, Nevada appreciates the BLM's commitment to compensatory mitigation as an integral part of the success of Nevada's habitat management plan. We look forward to working closely the BLM Nevada Office and the Department of Interior leadership to ensure the revised habitat plans are fully successful."

"This balanced decision will improve conditions for sage-grouse and hundreds of other species while maintaining certainty and predictability for ranchers, developers, and the public," Idaho Governor Brad Little said. "Idaho's work with the Department of the Interior and Acting Secretary Bernhardt is a model for shared conservation stewardship that enhances rangelands across the state."

"This new BLM plan improves upon the 2015 federal sage-grouse plans by incorporating the best available science and aligning with the State's 2019 Conservation Plan for Greater Sage-Grouse," said Utah Governor Gary Herbert. "I support BLM's ongoing efforts to work with the State, and other stakeholders, to conserve, enhance, and restore sage-grouse habitats throughout Utah. The State of Utah remains committed to working with BLM, and the Department of Interior to implement this revised BLM plan to manage sage-grouse habitats in Utah."

"I appreciate all of the diligence that went into these plan amendments and how responsive the Department of Interior has been to Wyoming's approach. I believe the updates are surgical and recognize that the Greater sage-grouse is a state-managed species," Wyoming Governor Mark Gordon said. "A diversity of perspectives have gone into building Wyoming's conservation strategy that include ranchers, conservation groups, oil and gas, mining companies and hunters. Thanks to this well-established, balanced approach and the BLM's plan amendments, Wyoming will continue to conserve sage-grouse and provide predictability to the state's economy."

“Collaboration is hard work, and I appreciate the efforts by our stakeholders, state agencies and the Department of Interior to craft an agreement to protect the sage grouse,” said Oregon Governor Kate Brown. “Balancing sage grouse habitat protection and economic development requires mitigation of negative impacts. This agreement is a critical step that marks a shift away from planning toward active conservation and landscape management to protect this iconic species. Oregon’s bounty is beautiful and worth continuing to protect and fight for.”

“Since the very beginning of this effort, all partners have maintained the need to conserve the sage grouse and avoid the need to list the species as threatened or endangered,” said Brian Steed, BLM Deputy Director for Policy and Programs. “We also share a commitment to conservation that does not put the West’s communities at risk and which balances between regulation and access. We believe that the better outcomes for the species under these plans will demonstrate the value of coordinating federal and state authority.”

“At Interior, between the Fish and Wildlife Service and the Bureau of Land Management we have shown that outstanding conservation can be achieved when results and cooperation with our State partners are the priority,” said U.S. Fish and Wildlife Service Principal Deputy Director Margaret Everson. “We have forged new relationships with our neighbors, and working together produced the catalyst for success of sage grouse, big game, and other wildlife for many generations to come.”

The decisions affect resource management plans for BLM-administered public lands in seven Western states, where the BLM manages habitat and states manage wildlife species. Together, the amended BLM plans retain the priority habitat designation (PHMA) for more than 29 million surface acres of BLM-administered sagebrush-steppe, where the management priority is to exclude or avoid disturbance to sage-grouse and their habitat, and to minimize effects where PHMA cannot be avoided. Another 23 million surface acres retain identification as general habitat (GHMA), where avoidance and minimization are applied flexibly, in line with local conditions and a state’s science-based objectives for species management.

Including 3.4 million acres of PHMA and 2.4 million acres of GHMA in Montana and the Dakotas – whose BLM sage-grouse plans are not being amended – a total of 32.4 million surface acres will be managed as priority habitat across the Greater Sage-Grouse’s range, while another 25.6 million surface acres are designated general habitat. The plans for BLM lands in Nevada, Idaho and Colorado include additional habitat categories, acreages and management objectives specific to their respective states.

Benchmarks, or “trigger” points, for local sage-grouse populations remain in place for BLM-managed habitat to indicate when adaptive management measures are needed to address population declines. The amended plans also outline procedures once it is determined that a decline has been stopped and reversed.

The plans build on those put into place in 2015. In 2017, the BLM began scoping for the new plans asking whether “some, none or all” of the 2015 sage-grouse plans should be amended. Seven of 11 affected governors asked for changes, and the BLM and the Department of the Interior worked with each to design range-specific modifications.

The decisions also formalize coordination between the BLM and respective states in applying mitigation measures to approved actions. The state-specific arrangements recognize that the BLM does not have authority to require compensatory mitigation for otherwise allowable activities on public lands while supporting each state’s plan and authorities for mitigation.

The planning effort that concludes with today’s decisions began in 2017 when governors of most of the affected sage-grouse states asked the BLM to revisit existing plans for managing sage-grouse habitat and adapt them to better meet the needs of individual states. In response, the BLM proposed changes developed in collaboration with governors and state wildlife agency professionals in the seven affected states, as well as other concerned organizations and individuals, largely through the Western Governors Association’s Sage-Grouse Task Force.

The decisions reflect the BLM’s determination that greater flexibility was needed to manage habitat and respond to the particular needs of each state’s landscapes and communities.

Lawsuit Filed Against the BLM's Sage-grouse Amendments

Once the final plans were put in place, a lawsuit was filed in U.S. District Court in Boise, Idaho to block the amended plans by environmental activists on March 27, 2019.



The new lawsuit was filed by the same groups that had previously sued in 2015 when the Obama Administration's initial plans were approved. The 2015 suit was because the groups felt the plans didn't provide enough protection for the Sage-grouse. The latest suit alleges that the amended plans further reduce Sage-grouse protections they feel are critical to the bird's survival.

However, as stated in the BLM's March 15, 2019 press release:

Benchmarks, or "trigger" points, for local sage-grouse

populations remain in place for BLM-managed habitat to indicate when adaptive management measures are needed to address population declines.

So, if for some reason the Sage-grouse population began to be affected negatively by any activity in Sage-grouse habitat, there is already a plan in place that will address those issues in the most efficient way possible. The federal plans continue to provide protections in areas of priority and general habitat.

The press release also explained the type of cooperation and coordination that went into

striking an appropriate balance between state and federal plans:

The decisions received bipartisan support from the governors who sought revisions to the plans that guide conservation of sagebrush steppe habitat on BLM-administered public lands in their respective states. The goal was to better align BLM plans for managing habitat with state plans for conserving the species.

Secretary Bernhardt is also quoted:

"Months of close coordination and cooperation with state governments in Wyoming, Nevada, California, Idaho, Oregon, Utah and Colorado has gone into the development of today's decision. The plans adopted today show that listening to and working with our neighbors at the state and local levels of government is the key to long-term conservation and to ensuring the viability of local communities across the West."

Longterm conservation of the Sage-grouse will require cooperation between the states who are responsible for the bird's protection and the BLM

who's job is to manage the land they are found on. Without that cooperation the state's would not be able to implement their common sense, situation-ally-unique management plans effectively, which would be detrimental to the Sage-grouse's overall populations and health.

Utah and the surrounding states have fought long and hard to gain a balance between what they have found works to improve Sage-grouse habitat and populations and the previous plans the BLM implemented that negatively affected the state's ability to manage and protect Sage-grouse.

On April 29, 2019, both the State of Utah and the State of Idaho sought to intervene in the lawsuit on the side of the federal government, with the intent to defend the Sage-grouse Management Plans and retain the balance that was found through research, cooperation and hard work.

It is imperative that both the states and the federal government continue to fight against these endless lawsuits to ensure state management plans can be implemented effectively and to protect the Sage-grouse in balance with responsible economic activity.





“Months of close coordination and cooperation with state governments in Wyoming, Nevada, California, Idaho, Oregon, Utah and Colorado has gone into the development of today’s decision. The plans adopted today show that listening to and working with our neighbors at the state and local levels of government is the key to long-term conservation and to ensuring the viability of local communities across the West.”

David L. Bernhardt, Secretary of the Interior

March 15, 2019 BLM Press Release

ENGAGING THE PUBLIC IN THE PROCESS



Coordinated Consulting Team Outreach

During the past year we have learned that people not only want to know what is happening with Greater Sage-grouse, but also to understand how those decisions impact them.

ESA Listing and Control of Utah Working Landscapes

For the past decade, powerful special interest groups have been working tirelessly to replace state management authority of Greater Sage-grouse and their habitats with draconian federal regulation under the Endangered Species Act. Listing of Greater Sage-grouse would create a federal nexus on all 8+ million acres of Sage-grouse habitat in the state, allowing litigation by activist organizations on all land-use decisions

whether the property is federally managed, state owned or private property. This would likely open the floodgates of litigation and further limit use of working landscapes in the State of Utah.

Utahns access to and decision-making authority with respect to working landscapes in the state, has dramatically declined in the last few decades. Legitimate questions are being raised about the staggering level of federal control over decisions that detrimentally impact the ability of Utahns to use, work and enjoy these lands. Listing of Greater Sage-grouse would substantially and likely permanently restrict access to and productivity of these landscapes.

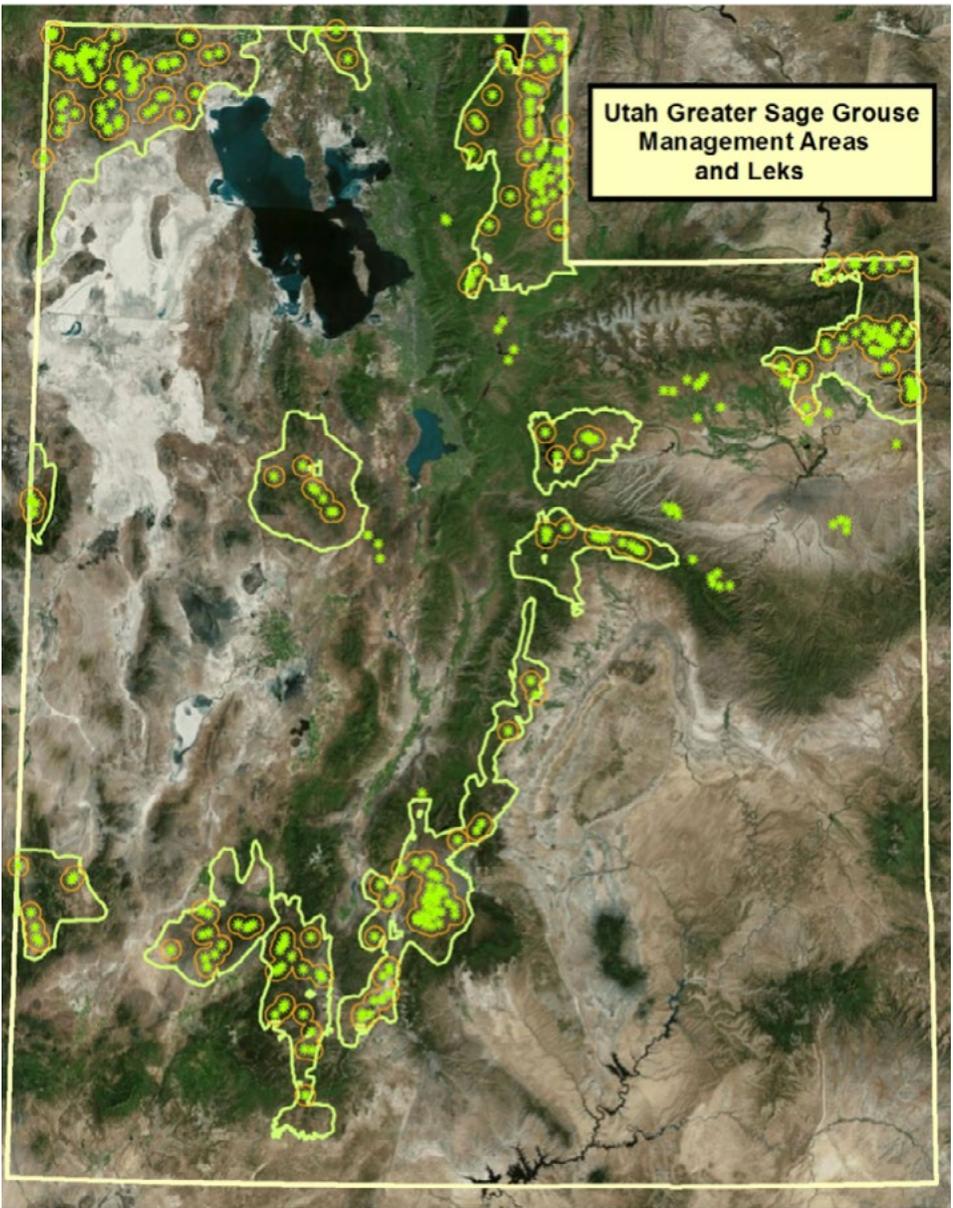


Figure 16. Sage-grouse are distributed across 8 million acres within the State of Utah. Most of the sagebrush habitat is desert shrub which is poor Sage-grouse habitat, accounting for the overall low population of Sage-grouse in the state.

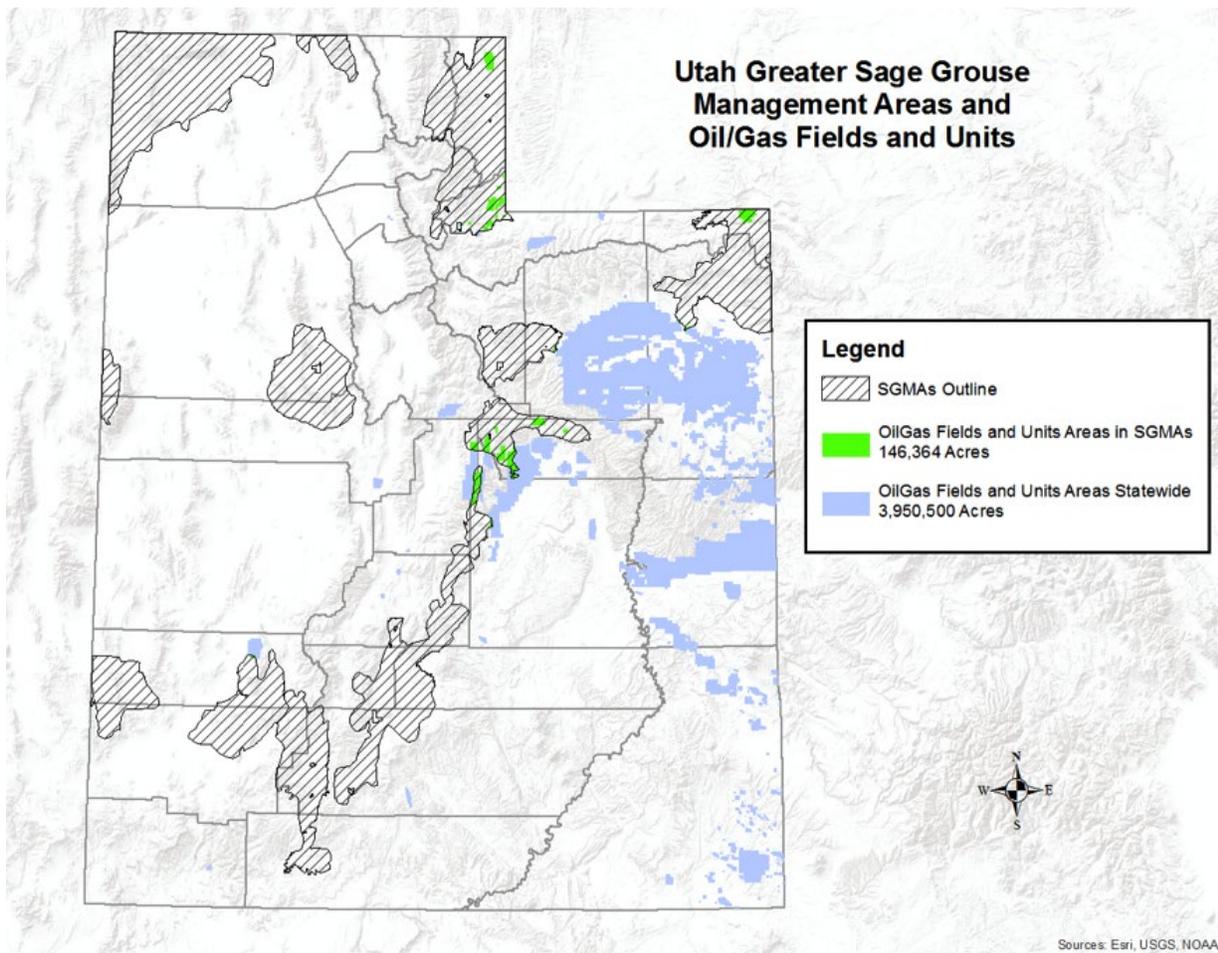


Figure 17. Protecting Sage-grouse within the state's SGMA's is possible while also allowing oil and gas development under state management authority. Federal listing of the species and additional federal restrictions in areas outside of the state's SGMA's could result in economic losses in the billions of dollars annually.

Economic Impact Analysis Illustrates importance of the issue to a healthy economy

As part of our efforts, we have worked with the Utah Public Lands Policy Coordination Office to more carefully quantify the potential impacts of a Sage-grouse listing, or additional restrictions through federal resource management plans. The Bureau of Economic and Business Research at The University of Utah was commissioned to do a third-party independent assessment of economic activities within Sage-grouse habitats within the State of Utah (BEBR Report). The results of their analysis are insightful. These impacts threaten key components of Utah's economy including oil and gas, mineral development, outdoor recreation, education funding, livestock production and farming.

Here is a summary from the BEBR Report:

...a conservative estimate of activities in FWS current Sage-grouse range suggests they contribute 13,000 jobs

with \$831 million in earnings and \$2.5 billion in gross state product (value added). Activities in historical-only range support 11,000 jobs with \$723 million in earnings and \$2.5 billion in GSP. Finally, activities in SGMA's support almost 5,000 jobs with \$165 million in earnings and \$339 million in GSP.

By analyzing current, potential historic range and the state's SGMA's, the report clearly illustrates the substantial difference between state management focused within the state's Sage-grouse Management Areas and a federal model which could result in substantial restrictions in not only SGMA's, but also current and historic range:

The differences in values between SGMA's and those of the other two ranges is striking. As noted above and shown below, although oil and natural gas production from wells within SGMA's was once a major component of total production statewide, production within SGMA's has been in decline since the late 1980s (oil)/mid-1990s (gas), with current production volumes only a very small fraction of their highs from the 1980s and 1990s.

Educating the Public

Engaging the public to support common sense solutions for Greater Sage-grouse is the third area of emphasis set forth in the State of Utah contract requirements. New and existing team members and resources are enhancing our ability to educate and engage the public.

Direct Engagement

The Greater Sage-grouse Coordinated Consulting Team is worked with staff, contractors, partners and volunteers in key Sage-grouse states to directly engage the public. We focused these efforts in counties with Sage-grouse populations where listing of the birds not only could affect conservation of the species, but also education funding, hard-working families, outdoor recreation and local economies. We found that people support state-based management efforts and want feder-

al wildlife managers to augment state efforts, not replace state efforts with more federal regulation. Significant in-person outreach efforts have been undertaken in Western States including Utah, Idaho, Montana, Wyoming, Nevada, Washington and Colorado.

Engaging Existing Supporters

During the past years we have engaged tens of thousands of interested western residents on the issue of Greater Sage-grouse. There is significant concern about the fact that a species with an approximate population of 500,000 birds spread across 11 Western states would be considered an endangered or threatened species. We also found that respondents felt the restrictions of the Endangered Species Act are best utilized as a last resort. This was particularly true where the efforts of impacted states have stabilized Sage-grouse population trends in recent decades.



Just as importantly, the public trusts states to implement solutions that work for conservation and for western economies. They also support funding from federal wildlife agencies to Western states to help advance efforts of state wildlife professionals to implement common sense solutions for conservation priorities like Greater Sage-grouse.

Paid Outreach

The Sage-grouse Coordinated Consulting Team began outreach efforts to help understand how certain demographics felt about the possibility of a listing of Greater Sage-grouse. The most responsive demographics included parents of school-age children, outdoor recreation enthusiasts and individuals concerned about economic productivity and jobs. We learned that these individuals responded more readily to information that conveys how a premature listing of Greater Sage-grouse might impact them and their families. There was a high degree of support for state conservation measures among these individuals. This support increased when the individuals understood these conservation measures were consistent with common sense solutions that ensure balanced use of resources in ways that protect education funding, outdoor recreation and minimized impacts to jobs and the economy.

Direct Action

Literally thousands of phone calls and tens of thousands of messages of support have been sent to Congress as part of these efforts to support state management of Sage-grouse. Over 50,000 individuals have signed the on-

line petition in support of Congressional action to provide an extension of time. This is in addition to tens of thousands of existing supporters who have expressed concern regarding policies impacting Western states. These supporters have played a significant role in contributing to the momentum of Section 2862 of the National Defense Authorization Act.





Why Activists Use the ESA to push Greater Federal Control Unilateralism

The Anti-Use Ideology

There is an ideology and methodology which underlies these efforts to use the Endangered Species Act and other federal provisions to attack sportsmen, abundant wildlife, and the West. Political Scientist Martin Nie explains this in his groundbreaking article *The SocioPolitical Dimensions of Wolf Management and Restoration* published in the 2001 edition of the *Human Ecology Review*. See <http://www.humanecologyreview.org/pastissues/her81/81nie.pdf>

Professor Nie explains:

Similar to a number of other environmental issues and debates, wolf politics and policy is often about much more than just wolves and their management. The struggle over carnivore conservation is often a surrogate for broader cultural conflicts: "preservation versus use of resources, recreation-based economies versus extraction-dependent economies, urban versus rural values, and states' rights versus federalism" (Primm and Clark 1996, 1037).

Citing Harvard University Professor E.O. Wilson:

"This is not really a story about wolves, but a story about people and their struggle to define the future of land use in the American West – it is within this highly charged political context that the wolf in Yellowstone must be understood as a symbol, 'a biopolitical pawn' in a much larger conflict currently being waged between the activists of two social

movements – environmentalism and wise use."
Scarce (1998)

He also explains its connection to the concept of "rewilding" of the West:

The Wildlands Project (TWP) is also unmistakably interwoven into the story of wolf management and restoration. The mission of TWP is both simple and sweeping, "to protect and restore the natural heritage of North America through the establishment of a connected system of wildlands – To stem the disappearance of wildlife and wilderness we must allow the recovery of whole ecosystems and landscapes in every region in North America – we live for the day when grizzlies in Chihuahua have an unbroken connection to grizzlies in Alaska; when wolf populations are restored from Mexico to the Yukon; when vast forests and flowing prairies again thrive and support their full assemblage of native plants and animals; when humans dwell with respect, harmony, and affection for the land; when we come to live no longer as conquerors but as respectful citizens in the land community (The Wildlands Project 2000, 4)."

The Underlying Anti-Sportsmen Philosophy

Many of the activists who push an increasing federal unilateralism over wolves, Sage-grouse, ecosystem management and a diminished role of state wildlife agencies, are strongly anti-hunter or

anti-sportsmen in their philosophy. After a meeting of several large environmental groups, one activist explained the cooperative thinking on future policy decisions. The article, entitled, "Now is the time to be bold" explains:

So what solutions do I offer? The 5 Keys to Reforming Wildlife Management in America, are as follows: 1. Restructuring the way state Fish & Game departments operate. Politics: western governors appoint agency commissioners, which essentially, tell the state departments what to do. This is cronyism at its worst. Economics: state departments are mostly funded by the sale of hunting/fishing tags or permits. These agencies are bound into serving the interest of "sportsmen" because it's the hand that feeds them. Modern funding mechanisms, the application of best-available science and genuine public involve-

ment are sorely lacking in these institutions and it must be addressed. Another option would be to empower the federal government to manage wildlife on federal public lands.

The author goes on to suggest that the "conservation community" has adopted an agenda of: (2) Removing all grazing from public land; (3) Abolishing Wildlife Services; (4) Banning trapping/snaring on public land; (5) No killing of predators. What effect will this have on wildlife abundance? What effect will this have on sustainable yield, hunting and the North American Model? Of course this would be a disaster not only for hunting, but for conservation of wild game species in general. But it does show the level of anti-hunting sentiment that underlies the push for a growing federal unilateralism when it comes to wolves and Sage-grouse.



Using the Federal Government and ESA as a “Club”

One high-level thought leader, activist, and former head solicitor in the Department of Interior during the Clinton administration was even more straightforward in his comments during a recent Congressional hearing on the Endangered Species Act. John Leshy was not only brazen, but surprisingly candid and unapologetic that the “federal government and the Endangered Species Act” “provides the club” to force states to do what they want them to do. Those who have followed the spotted owl, or gray wolf, will recognize the use of the Endangered Species Act as a surrogate, or proxy, to collaterally attack multiple-use such as logging, grazing, and hunting.

Eastman’s Hunting Journal was candid in their assessment of how Sage-grouse will be utilized to attack hunting:

Endangered Species Act (ESA) is being used as a weapon to potentially destroy our hunting heritage...

The sage grouse is the next piece in the puzzle for the feds and the animal rights groups to further limit our access and sport. If you look at the wolf and grizzly bear recovery area map, and overlay the proposed sage grouse recovery area you can easily see they fit together like a glove. The sage grouse habitat area will encompass most of what is thought to be some of the best mule deer habitat on the planet. Make no mistake about it, listing the sage grouse as endangered species would have disastrous affects on western hunters and recreationalists. This “power grab” of our precious wildlife resource is nothing more than politics as usual, pure and simple.

In a letter dated, May 26, 2015, sportsmens organizations from Sage-grouse states signed a letter in support of congressional action to protect state management of Sage-grouse. In total, 150 sportsmen, conservation organizations, livestock organizations, and western leaders (see following page) signed the letter. A copy of the letter is included in Exhibit F.



Restrictions on access to BLM and Forest Service land can also restrict access to state and even private lands.



Lawsuits

The legal and administrative history of Greater Sage-grouse is full of repeated petitions for listing as well as multiple lawsuits. More lawsuits and listing petitions for the species in coming years are virtually guaranteed. After a decade of lawsuits and ESA listing decisions for the Greater Sage-grouse, it is becoming clear there is no end in sight. This was the third ESA decision for the Greater Sage-grouse in just 10 years. USFWS is already indicating that they will make yet another ESA listing decision on Greater Sage-grouse in another five years. Additionally, several environmental groups have already indicated that they plan to file lawsuits to challenge the listing decision and/or the BLM and USFWS land use plan amendments.

Many have begun to point out that new restrictions proposed by federal agencies and radical environmental special interests using the repeated threat of an ESA listing are more about micromanaging state wildlife policies and landscape control than advancing species conservation. Already hundreds

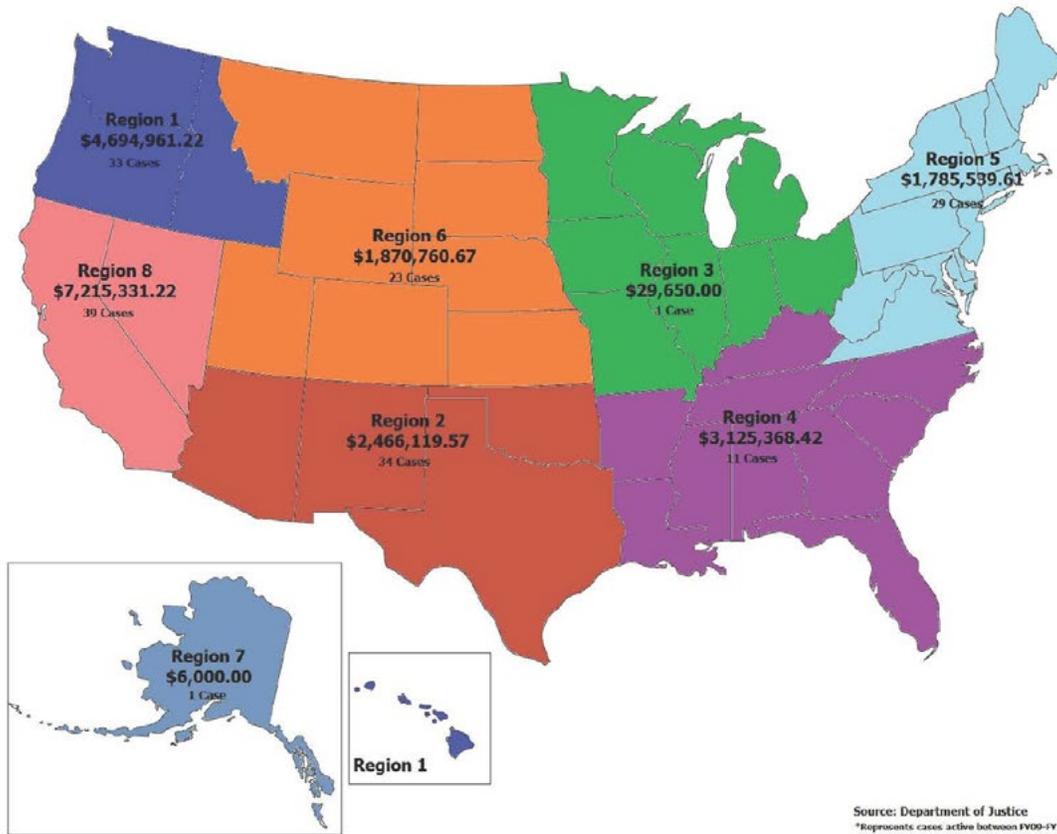
of millions have been committed to conservation of Greater Sage-grouse, almost to the exclusion of other species of much greater conservation concern. The constant legal and political wrangling creates further frustration and uncertainty for those who are needed the most for conservation of the species.

One provision of the language introduced by Congressman Rob Bishop provides litigation safe-harbor to allow state conservation efforts to go forward without interference of litigation by these powerful special interest groups:

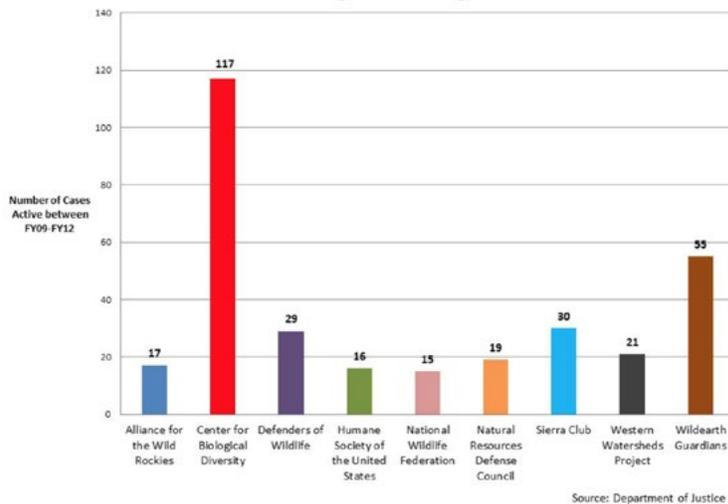
“Judicial Review—Notwithstanding any other provision of statute or regulation, this section, including determinations made under subsection (d)(3), shall not be subject to judicial review.”

After years of abuse of the Endangered Species Act, it is time to allow states to thoughtfully implement their state conservation plans without further interference and manipulation.

ESA Expenditures – Attorney Fees by Region



ESA - Most Litigious Organizations



Millions of Taxpayer Dollars Spent on Endangered Species Act Litigation and Attorney Fees

WASHINGTON, D.C., June 19, 2012 - According to data recently obtained from the Department of Justice (DOJ) in response to document requests, the federal government has defended more than 570 Endangered Species Act (ESA)-related lawsuits costing U.S. taxpayers more than \$15 million in attorney fees – in just the past four years. This data provides further evidence that the ESA has become litigation driven, where money and resources are spent addressing endless, frivolous lawsuits instead of species recovery.

Environmental groups are filing the vast majority of litigation, with the Center for Biological Diversity and the WildEarth Guardians leading the charge.

(<http://naturalresources.house.gov/newsroom/documentsingle.aspx?DocumentID=299899>)



Historical Parallels

Disproportionate focus on “protections” which limit human activity leads to lost opportunities. In 1992, the U.S. Fish and Wildlife Service listed the spotted owl as an endangered species. The Service and environmental activists repeatedly stated that shutting down the timber industry was the answer to protecting the spotted owl. The negative impacts to industry, local economies, and hard-working families in the region have been well-documented. Eighteen years later, these draconian “protection” measures have not been successful in stopping the decline of the spotted owl. The singular focus on human activity missed a key factor in spotted owl decline—competition from the larger and more aggressive barred owl. Federal managers now acknowledge the role of natural selection in spotted owl decline. Now, to save the spotted owl from further decline, barred owls are being shot and killed. Unfortunately, almost 20 years of conservation opportunity was lost while the spotted owl was used as a surrogate for those who oppose human use of the natural resources in the Pacific Northwest.

Western states do not want to make this same mistake. In the last 18 months, it has become clear that states are investing heavily in Sage-grouse conservation. The state of Utah is no exception. Tens of millions of dollars have been invested in Sage-grouse conservation in Utah. Understanding the challenges facing Sage-grouse, Utah’s plans have grown and strengthened populations. These conservation measures are making Utah’s Sage-grouse habitats more resilient, redundant and capable of supporting more Sage-grouse. These programs are also providing important solutions for other challenges including wildfire, pinyon and juniper encroachment, invasive plant species, and watershed restoration. The right solution for Sage-grouse and citizens of the state of Utah is to ensure that the state’s conservation plan can be fully implemented without further unnecessary and unhelpful restrictions. Our efforts were to protect state management of Sage-grouse and the programs that are providing such significant dividends in the state of Utah.

The singular focus on human activity missed a key factor in spotted owl decline--competition from the larger and more aggressive barred owl. Now to save the spotted owl from further decline, barred owls are being shot and killed.



Federal Agencies Increase Restrictions

BLM land use plans usher in another round of federal restrictions. The focus once again is primarily on shutting down human activity; threatening further loss of resources for conservation.

The Sage-grouse Coordinated Consulting Team worked diligently with members of Congress on concerns related to newly proposed federal regulatory restrictions. Restrictions on BLM and Forest Service land are a significant challenge for pinyon/juniper removal, wildfire prevention and suppression, and other important conservation measures for Sage-grouse. In fact, more than 90% of acres burned in an 18-year study period occurred on land managed by the Bureau of Land Management. Utah's Watershed Restoration Initiative is addressing

these challenges. Our hope is that less federal red tape will allow more conservation work to be done in the next 10 years. Just as important is protecting the programs and private funding sources that made these programs possible.

This is one of the reasons that the proposed Sage-grouse "focal areas" have been a significant focus of concern to Western states. As part of the federal focal area strategy, approximately 9-10 million acres of mining withdrawals are being proposed by the federal government. This raises many questions

about the impacts to Western states, industry, economy, and jobs for those living across the West. While there has been much focus on these mining withdrawals across Oregon, Nevada, Idaho, Montana, Wyoming and Utah, BLM restrictions will be much more far reaching:

“Prior to offering any parcels for sale, the BLM will ensure conformance with the sage grouse plans,” says Mitch Snow, a spokesman for the agency. Those plans call for strengthened sage grouse protection across 67 million acres in

10 states, putting 28 million acres off limits for surface development. In addition, tiered restrictions will be placed on any new leases, which can include disturbance caps, density limits on well pads and roads, and buffer zones between drilling activity and leks, the birds’ mating grounds.¹

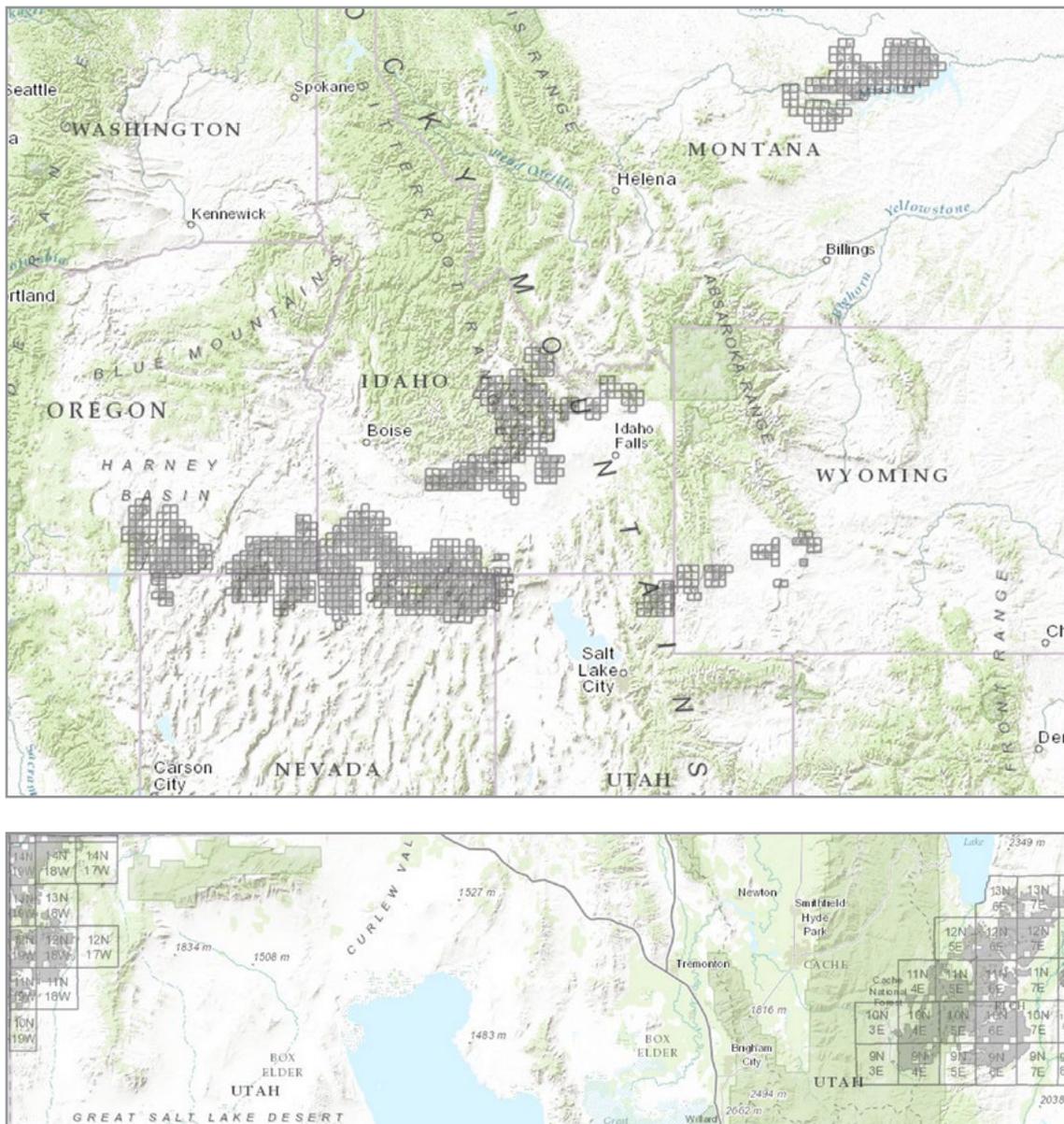


Figure 18. Proposed mining withdrawals in Sage-grouse focal areas comprise approximately 3.8 million acres in Idaho, 2.7 million acres in Nevada, 1.9 million acres in Oregon, 983,000 acres in Montana, 252,000 acres in Wyoming, and 231,000 acres in Northern Utah. (See <http://blm-egis.maps.arcgis.com/apps/webappviewer/index.html?id=45b2d7896c36467aac3990b739d75a26>)

Veteran's Cemetery

In Sparks, Nevada, the BLM's management plans also placed doubt on a veterans' cemetery. An op-ed in the Reno-Gazette Journal explains:

Another conflict exists in Sparks where Washoe County has identified a 40-acre parcel adjacent to the Pyramid Highway that would be an optimal location for a new veterans' cemetery. But the BLM map mischaracterizes this spot as habitat, even though it's currently being used by dirt bikers and most certainly isn't a good place for the birds.

Washoe County has expended considerable resources to develop our own habitat maps because we think wildlife conservation is important. We certainly strive to avoid conflicts between wildlife habitat and development. But at the same time, we cannot be constrained by a faulty habitat map that means we can't acquire lands needed for development.



Figure 19. Land proposed for a veterans' cemetery in the city of Sparks, Nevada placed at risk by propose Sage-grouse restrictions.

Water Tank Update

Efforts to rebuild an aging water tank illustrate the level of control already being exerted by federal regulators in the name of Sage-grouse. The truly draconian nature of the newly proposed land-use plans continued to worsen over the long-term. In an article by the Associated Press, a meeting

between Nevada Governor Brian Sandoval with Interior officials was required to allow even this basic project to move forward:

"Federal land managers are clearing the way for a rural Nevada county to replace an aging water tank that critics called a prime example of development doomed by new protections for the greater sage grouse.

The move comes a week after Republican Gov. Brian Sandoval announced that the U.S. Interior Department agreed to address concerns about the land-use restrictions, including the water tank that White Pine County officials say is desperately needed near Great Basin National Park along the Utah line.

U.S. Bureau of Land Management officials authorized the necessary right-of-way late Thursday that will allow construction to begin in July, agency spokesman Steve Clutter said.

Clutter says the deal protects important habitat, consistent with regulations issued in September when Interior Secretary Sally Jewell determined that the chicken-sized bird doesn't need Endangered Species Act protection. Sandoval met with Jewell last week during a meeting of the Western Governors' Association and told reporters they had made strides in addressing concerns about the rules...

Lawyers representing the BLM said in a brief filed late Thursday that the water tank site is 0.7 miles from an existing breeding ground and in an area that contains habitat for grouse breeding and nesting.

Nevertheless, federal officials could approve the project because it would benefit the grouse through installation of anti-perching devices to keep away raptors, among other things.

"Contrary to plaintiffs' assertions, these requirements are not 'one-size-fits-all,'" assistant U.S. Attorney General Luther Hajek wrote. "BLM has determined that the replacement of the water tank would provide a net conservation gain to sage grouse by reducing the attractiveness of the area to predators and ensuring a source of water to control wildfires."¹

¹ To read the complete article visit: <http://www.washingtontimes.com/news/2015/dec/11/blm-approves-nevada-project-critics-claimed-doomed/>



It now appears that restrictions on the time frame allowed for construction may once again make the project impractical or impossible. Whether or not the project moves forward, the underlying takeaway from these examples points to a concerning new reality. The most basic of governmental decisions cannot be made without permission from the Department of the Interior.

While permission may be granted in some high profile cases, it is clear that Interior will use Sage-grouse to control even the most common-sense and basic of decisions. What this shows is that federal Sage-grouse plans were designed to dramatically affect Western states. This will have a debilitating affect on industry and citizens in the region. States have already shown that more balanced and proactive conservation measures can work for Greater Sage-grouse. Congressional action will be needed to allow for implementation of state's conservation plans to protect the state of Utah's interests from unnecessary impacts to Utahns, local communities, and the state's economy.

These concerns are shared by leaders in Congress:

"While [the Omnibus] does contain much good, it also has shortcomings. House leadership has acknowledged these issues and they are particularly aware of the impacts on western priorities. I am confident that in the coming months, those shortcomings will be addressed and made right. The problem with the bill is what it could have been and what it should have been. Western issues that improve our lives should NOT be held hostage by Democrats in the House and Senate. These issues were eliminated with the threat of a government shutdown for political reasons." (Congressman Rob Bishop)



Could Federal Plans be used to Decrease Mule Deer Populations?

Mule deer populations have been gradually declining over the past 40 years across the West. Cumulative population declines over the past 40 years have been significant. This has been an area of significant concern for sportsmen. So how will these 2,000 pages of new restrictions impact mule deer populations? Seasonal Sage-grouse populations overlap with mule deer populations by as much as 91%. These are some of the most important mule deer areas to hunters in terms of mule deer population numbers, tag allocations, and hunting opportunity in the country. It is not limited to mule deer either. Sage-grouse also inhabit prime hunting areas for Pronghorn and Rocky Mountain Elk.

Considering the huge area of Sage-grouse habitat, 2,000 pages of new restrictions proposed by Bureau of Land Management, the U.S. Forest Service, and the U.S. Fish and Wildlife Service could have significant impacts on wildlife and hunting across much of the Mountain West. Just how much impact could these new restrictions have on mule deer populations? A review of the federal Sage-grouse record from U.S. Fish and Wildlife Service and other Federal agencies related to Sage-grouse is insightful. In fact, the Federal record all but paves the way for future mandates and judicial activism to further reduce mule deer and other wild ungulate populations. Consider the following quotes:

"...despite decreased habitat availability, elk and mule deer populations are currently higher than pre-European estimates."

"Elk and mule deer browse sagebrush during the winter and can cause mortality to small patches of sagebrush from heavy winter use."

"...we do know that grazing can have negative impacts to sagebrush and consequently to Sage-grouse at local scales...Given the widespread nature of grazing, the potential for population-level impacts cannot be ignored."

These official pronouncements open the door to lawsuits by anti-sportsmen organizations to reduce mule deer, elk and other ungulate populations in order to "protect Sage-grouse" and their "obligate sagebrush plant communities." It is no surprise that many of the same anti-sportsmen activist organizations that have been behind exploding wolf numbers and the commensurate imploding elk and moose population numbers, are also huge proponents of these new BLM management plans. A few of these groups include:

Defenders of Wildlife

The Center for Biodiversity

The U.S. Humane Society

Earth Justice

Sierra Club

WildEarth Guardians

Wildlands Network

Western Watersheds Project

Born Free USA

The Endangered Species Coalition

It is just as likely, that these groups will use this new treasure trove of regulation to file round after round of lawsuits targeting sportsmen, ungulate populations, livestock producers, and other productive uses in Sage-grouse habitat in the coming decades. A memo written by Bill Myers, former top solicitor for the U.S. Department of Interior, and partner at the western law firm of Holland and Hart explains that litigation is not only likely, but could easily lead to mandates for further reductions of mule deer, elk and other ungulates. It is just as likely that these mandates will be accomplished by blocking management of predators including wolves and coyotes. See Exhibit G.



The overall impact to sportsmen could exceed 100,000 miles of access roads.

Could Federal Plans Be Used to Undermine the Rights of Sportsmen?

Access

Reducing mule deer, elk, and pronghorn population numbers is not the only way hunter's rights will be impacted by these new federal Sage-grouse plans. One of the most insidious impacts will be to reduce access to sportsmen. We'll use Utah as a case study in how significant restrictions on access could impact sportsmen.

Overview of Hunting, Fishing and Outdoor

An estimated 26.5 percent of hunters afield in Utah during 2012 entered the FWS current range of Greater Sage-grouse. Nearly one-third of fishing trips in 2011 were to destinations in FWS current range. Lesser shares of hunters afield and fishing trips were to SGMAs (21.0 percent combined) or historical-only range (16.9 percent). Hunting and

fishing expenditures in SGMAs were \$139 million, and spending in historical-only range was \$112 million, both with similar shares from nonresidents. Total expenditures in FWS current range generated \$124 million in earnings from 4,180 jobs and \$243 million in value-added or gross state product.

Road Closures/Lost Access

Closing roads is one way access restrictions are accomplished. Road closures are already being mandated on 16 million acres of "Sage-grouse Focal Areas" across the Western United States by U.S. Fish and Wildlife Service, the BLM, and the U.S. Forest Service.

Lawsuits are already being utilized by activist organizations to close access roads for sportsmen. In fact, this has been happening for the past 20

Summary of Economic Contributions of Activities in Greater Sage-grouse Range in Utah, 2014
(Dollar amounts in millions)

Activity	FWS CURRENT RANGE			HISTORICAL-ONLY RANGE			SGMAs		
	Jobs	Earnings	Value Added	Jobs	Earnings	Value Added	Jobs	Earnings	Value Added
Oil and Gas Production	4,415	\$366.5	\$1,584.0	7,173	\$595.5	\$2,250.7	205	\$17.0	\$46.2
Coal Mining	2,394	\$132.0	\$433.3	-	-	-	-	-	-
Metals and Minerals Mining	932	\$35.3	\$85.3	845	\$32.0	\$77.4	826	\$31.3	\$75.6
Renewable Energy Generation	138	\$138.1	\$138.1	103	\$5.1	\$12.5	-	-	-
Cattle and Sheep Grazing	1,012	\$34.6	\$52.9	564	\$18.8	\$28.3	831	\$27.9	\$42.3
Hunting and Fishing	4,180	\$124.4	\$243.1	2,412	\$71.8	\$140.4	2,998	\$89.2	\$174.3
Total	13,071	\$830.8	\$2,536.6	11,097	\$723.2	\$2,509.4	4,861	\$165.4	\$338.5

Source: BEBR analysis.

years. These lawsuits to close “unimproved roads” have been filed by a variety of litigants. In the past 4 years, these lawsuits have become rampant. The same litigants in these road closure lawsuits are many of the groups pushing for 2,000 pages of restrictions in the name of Sage-grouse. Here are a few of these groups:

National Audubon Society
National Wildlife Federation
Natural Resource Defense Council
Wilderness Society
Western Watersheds Project
Wildearth Guardians
Center for Biodiversity

How much road are we talking? Using Utah again as a case study, there are approximately 9,000 miles of “unimproved” roads in Sage-grouse habitat throughout Utah. How much could this impact the rights of sportsmen in terms of access? Considering the much larger swaths of Sage-grouse habitat in Nevada, Idaho, Wyoming, Montana, and Oregon, the overall impact to sportsmen could exceed 100,000 miles of access roads.

BEBR Report

The Governor’s Public Lands Policy Coordinated Office commissioned an independent study from the University of Utah’s Bureau of Business and Economic Research on economic activity in Sage-grouse habitat in the state of Utah. The report found that literally billions of dollars annually in direct and indirect economic activity occurs within current and historic Sage-grouse range across the state of Utah. What is notable, is the sharp contrast between economic activity outside of Utah’s Sage-grouse Management Areas and the much more limited activity within Utah’s Sage-grouse Management Areas.

“An estimated 26.5% of hunters afield in Utah during 2012 entered the FWS current range of Greater Sage-grouse.”

Is more regulation necessary?

In 2014, oil and natural gas production from wells located in historical-only range generated the greatest market value among the three areas, at just under \$2 billion. In contrast, the estimated value of production from wells within SGMAs was about \$42 million (See Valuation of Current Economic Activities in Greater Sage-grouse Range in Utah, Bureau of Economic and Business Research, University of Utah July 2014, Summary of Oil and Gas Revenue below).

This further supports our research that indicated that responsible Sage-grouse management is possible with responsible economic activity in the state of Utah. In fact, economic activity within Utah’s SGMAs poses little impact to Sage-grouse populations within the state of Utah.

In a letter dated, May 26, 2015, sportsmens organizations from Sage-grouse states signed a letter in support of congressional action to protect state management of Sage-grouse. In total, 150 sportsmen, conservation organizations, livestock organizations, and western leaders (see following page) signed the letter. A copy of the letter is included in Exhibit G.

Supporters of Congressional Action

BigGame Forever
The Hunters Heritage Council
Washingtonians for Wildlife Conservation
Citizens for Responsible Wildlife Management
Sportsmen for Fish and Wildlife
Utah Association of Counties
Utah Farm Bureau
Utah Cattlemans
Utah Bowman's Association
Cooperative Wildlife Management Units Assn.
Oregon Outdoor Council
Oregon Hunters Association
National Wild Turkey Federation - South Sound Longbeards
Columbia Basin SCI Chapter
Nevada Association of Conservation Districts
Nevada Farm Bureau Federation
Nevada Woolgrowers Association
Nevada Cattleman's Association
Nevada PJ Partnership
Nevada Mineral Resource Alliance
Oregon FNAWS
Oregon Rocky Mountain Elk Foundation
Extreme Elk Magazine
Colorado Outfitters Association
Washington for Wildlife
Leupold
Eastman's Hunting Journals
Speaker Scott Bedke-Idaho House of Rep.s
Brad Little-Idaho Lieutenant Governor
Senator Bert Bracket-Idaho State Senate
Rep. Marc Gibbs-Idaho House of Representatives
COM Jerry Hoagland-Owyhee County, Idaho
Idaho Farm Bureau
Idaho Mining Association
Idaho Public Lands Council
CO Rep. J Paul Brown
CO Senator Ray Scott
CO Rep. Yuelin Willet
Colorado Mule Deer Association
Colorado Outfitters Association
Colorado Muzzleloaders Association
Colorado BigGame Forever
Colorado Trappers Association
Colorado Predator Hunters Association
Montana Guides and Outfitters Association
Montana Sportsmen for Fish and Wildlife
Montana BigGame Forever
Wyoming BigGame Forever
Teton County-WY BGF
Park County-WY BGF
Boulder County BGF-Colorado
Moffat County BGF-Colorado
Mesa County BGF-Colorado
Centennial Aurora BGF-Colorado
Weld County BGF-Colorado
Gunnison County BGF-Colorado
Safari Club International, the Inland Empire
Safari Club International, Central WA Chapter
Inland Northwest Wildlife Council
Northwest Chapter SCI
SW Washington Chapter SCI
Seattle-Puget Sound Chapter SCI
Seattle Sportsmen's Conservation Foundation, and many more.
Borderline Bassin' Contenders
Capitol City Rifle/Pistol
Cascade Mountain Men
Cascade Tree Hound Club
Cedar River Bowmen
Edison Sportsmen's Club
KBH Archers
Kittitas County Field & Stream
NW Field Trial & Hound Association
North Flight Waterfowl
Northwest Sportsman's Club
Okanogan Hound Club
Pacific Flyway
Pateros Sportsman's Club
Paul Bunyan Rifle and Sportsmen's Club
Pheasants Forever Chapter #257
Pierce County Sportsmen's Council
Richland Rod & Gun Club
Ruffed Grouse Society
Skagit Sportsman and Training Association
Tacoma Sportsmen's Club
Vashon Sportsmen's Club
Washington Falconer's Association
Washington Game Fowl Breeders Association
Washington State Bowhunters
Washington State Hound Council
Washington Muzzleloaders Association
Washington State Trappers Association
Wenatchee Sportsmen's Association
Washington Waterfowl Association
Wildlife Committee of Washington
Oregon United Sporting Dogs Association
Oregon Safari Club International
Oregon Trappers Association
Oregon Falconers Association
Benchmark
Double U Hunting Supply
Oregon Pack Works
HEVI Shot
HECS Stealthscreen
Bullseye Camera Systems
Elk101.com
NW Predator Hunters
Oregon Duck Hunters
S2 Calls
HuntonXMaps
Dominic Aiello
Dr. John Menke (Professor Range Ecologist retired)
N-4 Grazing Board
Nevada BigGame Forever
Lincoln County Wildlife Advisory Board
Buckskin National Gold Mine
Eureka County Natural Resource Commission
Senator Don Gustavson-NV Chairman Natural Resources
Senator Pete Goicoechea-NV Senate District 19
Assemblyman John Ellison-NV District 33
Assemblyman Ira Hansen-NV District 32
COM Demar Dahl-Elko County
COM Julian Goicoechea-Eureka County
COM Kevin S. Phillips-Lincoln County
J. Goicoechea-Nevada Land Action Association
John Uhalde-Ely Nevada
Bevan Lister-8 Mile Farms
David Stix-Stix Livestock
Dan Crowell-Eureka Veterinary Service
Jerry Sestanovich-Sestanovich Hay and Cattle
David A. Baker-Baker Ranches
S. Wallace Slough-Quinn River Crossing Ranch
Robert McDougal-Nevada Nile Ranch
Tony and Nancy Lesperance-Liberty Land and Livestock
Norman Frey-Fallon Nevada
Lura Weaver-Lyon County Nevada
Robert and Cassie Mason-Round Mountain, NV
Carl F. Slagowski
Fred Baily-Diamond Valley, Nevada
Lincoln County Conservation District
John Falen-McDermitt, Nevada
Maggie Orr-Lincoln County
William Blackmore-BigGame Forever Washoe County
Michael Turnispeed-BigGame Forever Carson City, Nevada
Lilla and Woodie Bell-Paradise Nevada
Travis Miller-Jiggs, Nevada
Fred and Chris Steward
Gracian Uhalde-Ely, Nevada
Pete Paris
Ron Cerri-Orovada, Nevada
Kade Lee-Lincoln County, BGF
John Caviglia-White Pine County BGF
Bruce Allen-Clark County BGF
Eureka County Conservation District
Brenda Richards-Murphy, Idaho
Richard Savage-Savage Cattle
John Faulkner-Faulkner Land & Livestock
Bill Baker-Baker Environmental Consulting
John Biar-Western Rangeland Consulting Services
David Little-Little Enterprises

PROGRESS & RESULTS

Stag Consulting has continued its efforts to protect Utah's plan for Sage-grouse Management and ensure federal plans are consistent with state management authority over non-endangered Sage-grouse. The Greater Sage-grouse Coordinated Consulting Team has expended significant efforts to protect Utah's conservation programs, to address onerous provisions within the BLM and Forest Service management plans, and to prevent a listing of Greater Sage-grouse as an Endangered or Threatened Species. These efforts have produced significant results for the state of Utah and for conservation of Greater Sage-grouse.

June 16, 2017 Secretarial Order 3533

On June 16, 2017 Secretary of the Interior Ryan Zinke issued Secretarial Order 3533 Greater Sage-Grouse Conservation and Cooperation with Western (see Exhibit H for the full order). The purpose of the order was three-fold, to:

1. enhance cooperation between the Department of the Interior and 11 western states with Sage-grouse populations.
2. support a partnership with clearly defined objectives and roles for Federal and State entities responsible for Sage-grouse management and conservation to sustain healthy populations.
3. establish a team to review the Federal land management agencies' 2015 Sage-Grouse plan amendments and revisions.

In the order, Secretary Zinke acknowledged where the role of federal agencies in managing land and resources overlaps with the role of state agencies in managing their wildlife. He also states, "As the

Department moves forward in the management of Sage-Grouse habitat, it is imperative that it does so in a manner that allows both wildlife and local economies to thrive and incorporate the expertise of Federal employees in the field, local conditions, and proven State and local approaches."

As part of its efforts to improve cooperation between the federal and state agencies the following items will be developed by the review team and the federal agencies involved:

(i) memorandums of understanding and other agreements with states and other partners regarding implementation of the 2015 Sage-Grouse Plans;

(ii) training for BLM staff regarding implementation of the 2015 Sage-Grouse Plans, including direction to consider state and local information, as appropriate; and

(iii) memorandums of understanding and other agreements with States and other partners regarding integration of information on Sage-Grouse populations into Federal land management decisions.

The order establishes the Sage-Grouse Review Team and charges it with the following tasks:

(i) a review of the plans and programs that States already have in place to ensure that the 2015 Sage-Grouse Plans adequately complement state efforts to conserve the species;

(ii) a further examination, through the framework established by the Integrated Rangeland Fire Management Strategy, of issues associated with preventing and fighting the proliferation of invasive grasses and wildland fire, which are leading threats to Sage-Grouse habitat;



(iii) an examination of the impact on individual States disproportionately affected by the large percentage of Federal lands within their borders, recognizing that those lands are important to resource use and development, and to the conservation of the Sage-Grouse;

(iv) a review of the 2015 Sage-Grouse Plans and associated polices, including seven BLM Instruction Memoranda (IM) issued in September 2016. The review will include (1) identification of provisions that may require modification or rescission, as appropriate, in order to give appropriate weight to the value of energy and other development of public lands within BLM's overall multiple-use mission and to be consistent with the policy set forth in Secretary's Order 3349, "American Energy Independence," implementing the Executive Order signed by the President on March 28, 2017, "Promoting Energy Independence and Economic Growth"; and (2) opportunities to conserve the Sage-Grouse and its habitat without inhibiting job creation and local economic growth;

(v) as appropriate, the Team should provide recommendations with regard to (1) captive breeding; (2) opportunities to enhance State involvement; (3) efficacy of target populations on a State-by-State basis; and (4) additional steps that can be taken in the near term to maintain or improve the current population levels and habitat conditions.

August 4, 2017 Secretarial Memo

On August 4, 2017 Secretary Zinke released a memo that says the Sage Grouse Review Team had completed its response to Order 3533 (See Exhibit I for the full memo). In the memo he states:

I hereby direct you to ensure implementation of the recommendations and direct BLM, in coordination with the U.S. Fish and Wildlife Service, U.S. Geological Survey, and other offices in the Department, to immediately begin implementing the short- and long-term recommendations in the Report. As part of this effort, the BLM should collaborate with the Sage-Grouse Task Force to engage with stakeholders and to improve the compatibility of the 2015 Sage-Grouse Plans with the States, beginning with these actions:

- *Identify options to incorporate updated habitat boundaries into habitat management areas;*
- *Clarify mechanisms to modify waivers, exceptions, and modifications in priority habitat management areas (PHMAs);*
- *Modify or issue new policy on fluid mineral leasing and development, including the prioritization policy;*
- *Issue or modify policy and provide training on use of assessment and monitoring data and*

tools, the habitat objectives table from the 2015 Sage-Grouse Plans and to increase flexibility in grazing management;

- Identify options for flexibility when applying adaptive management decisions;
- Investigate options to streamline use authorizations with little impact on the 2015 Sage-Grouse Plans;
- Clarify the appropriate use of compensatory mitigation and identify opportunities to increase consistency between the Federal and State plans;
- Work with the States to improve techniques and methods to allow the States to set appropriate population objectives; and
- Investigate the removal or modification of Sage-Grouse Focal Areas in certain States.

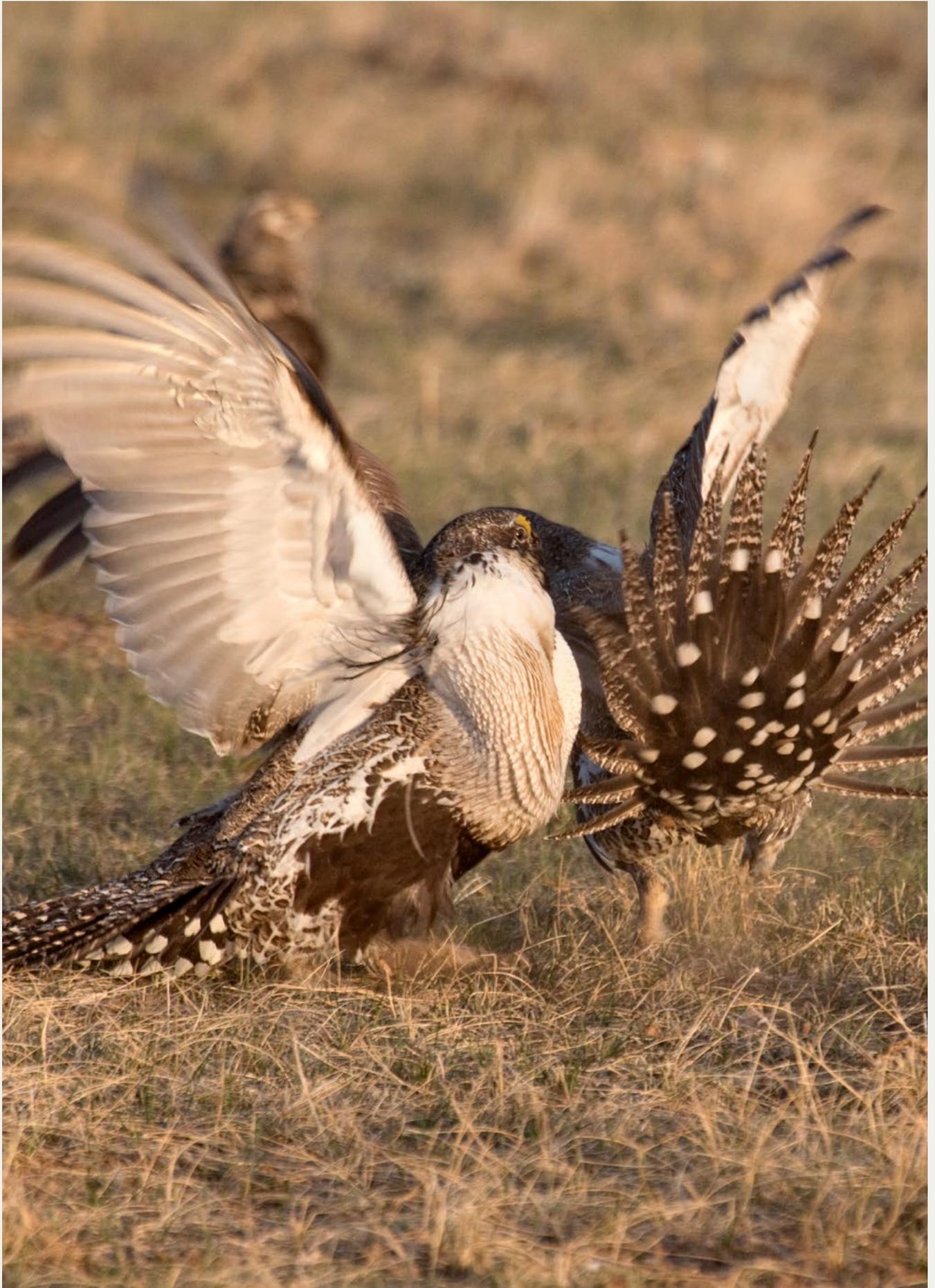
Sage Grouse Plan Review Team Response

The Sage Grouse Plan Review Team's response included detailed long-term and short-term recommendations for the issues outlined in Order 3533. The following issues were addressed in detail in the appendices of the response.

- 1) *2015 GRSG Plans and Policies (Addressing Sections 4b(i), (iii), and (iv) and 4a of the Order)*
 - a) *Fluid Minerals (Stipulations, Waivers, Exceptions, Modifications, Leasing*

- b) *Prioritization) and Density and Disturbance*
- c) *Mitigation and Net Conservation Gain Disturbance*
- d) *Habitat Assessment, Habitat Objectives Tables, and Effectiveness Monitoring*
- e) *Adaptive Management*
- f) *Livestock Grazing*
- g) *Other Minerals, Energy, and Lands (e.g., rights-of-way)*
- h) *Habitat Boundaries - Sagebrush Focal Areas and Habitat Management Areas*
- 2) *Wildland Fire and Invasive Species (Addressing Sections 4b(ii) and 4a of the Order)*
- 3) *Wildlife Management (Addressing Sections 4b(v) and 4a of the Order and Other Requests by the DOI Team)*
- 4) *Data Management and the Use of Science (Addressing Section 4a of the Order and Other Requests by the DOI Team)*

The initial review and recommendations are a step in the right direction. Many of the recommendations included in the response are in line with Utah's Sage-grouse Management Plan. Stag Consulting worked with Congress and the Department of the Interior to ensure Utah is able to continue its common sense Sage-grouse conservation efforts and to eliminate the overly burdensome provisions from the Federal management plans.



CONCLUSION

With the BLM's RODs published, the federal and state Sage-grouse management plans have been brought into much better alignment. The statements from agency and government leaders clearly show the collaboration that has gone into the revised BLM plans. The Forest Service's DEIS shows that they are following along in step bringing their management plans into alignment with the BLM and state management plans.

The changes made to the BLM and FS management plans will protect billions of dollars of economic activity in Utah and allow new growth, while helping to fund the State's Sage-grouse conservation efforts. The plans also restore public access to thousands of acres of public land. It is clear that these updated plans will need to be defended in court now, but we are confident the BLM has used sound reasoning and science to back up their decisions, as well as taken the time to listen to and respond to input from states and all interested stakeholders.

The Greater Sage-grouse Coordinated Consulting Team is grateful to report a successful outcome from the years of efforts. As a result Utah has the ability to manage its Sage-grouse populations in the most effective manner. Utah's Sage-grouse Management Plan, in conjunction with the Federal Management Plans will protect Sage-grouse and ensure their population will grow and flourish.





EXHIBIT A

*US BUREAU OF LAND MANAGEMENT
INSTRUCTION MEMORANDUM
NO. 2016-143*



United States Department of the Interior
BUREAU OF LAND MANAGEMENT
Washington, D.C. 20240
<http://www.blm.gov>



In Reply Refer To:
3100 (310) P

SEP 1 2016

Instruction Memorandum No. 2016-143
Expires: 09/30/2019

To: State Directors (California, Colorado, Idaho, Montana/Dakotas, Nevada, Oregon/Washington, Utah, and Wyoming), and Center Directors

From: Deputy Director *Steven A. Ellis*

Subject: Implementation of Greater Sage-Grouse Resource Management Plan Revisions or Amendments – Oil & Gas Leasing and Development Sequential Prioritization

Program Areas: Oil and Gas Leasing and Operations, Land Use Planning, National Environmental Policy Act (NEPA) Compliance, and Wildlife – Greater Sage-Grouse.

Purpose: This Instruction Memorandum (IM) provides guidance on prioritizing implementation decisions for Bureau of Land Management (BLM) oil and gas leasing and development, to be consistent with the Approved Resource Management Plan Amendments for the Rocky Mountain and Great Basin GRSG Regions and nine Approved Resource Management Plans in the Rocky Mountain GRSG Region (collectively referred to as the GRSG Plans). This IM applies to activities in the areas covered by both the Rocky Mountain (RM) and Great Basin (GB) Regions Records of Decision (RODs), issued by the BLM in September 2015.¹ This IM also contains reporting requirements for communication between State Offices and the Washington Office.

The objectives of this IM are: to ensure consistency across BLM offices when implementing the GRSG Plans decisions aimed at avoiding or limiting new surface disturbance in Priority Habitat Management Areas (PHMAs), including Sagebrush Focal Areas (SFAs), and minimizing surface disturbance in General Habitat Management Areas (GHMAs); and to provide clarity to the BLM Field Offices on how to move forward with oil and gas leasing and development activities within designated GRSG habitats². This IM provides guidance on how the BLM will exercise the

¹ These Records of Decision are accessible through links on the BLM webpage for Sage-Grouse and Sagebrush Conservation, at <http://www.blm.gov/wo/st/en/prog/more/sagegrouse.html>.

² In addition to PHMAs, SFAs (a subset of PHMA), and GHMAs, other designations were made in the GRSG Plans. These include: "Important Habitat Management Areas" (IHMA – only applicable to the State of Idaho), "Linkage Connectivity Habitat Management Areas" (LCHMA – applicable only in Colorado), "Restoration Habitat Management Areas" (RHMA – applicable only in the Billings and Miles City Field Offices), and "Other Habitat Management Areas"

Secretary of the Interior's discretion with regard to leasing activities in order to fulfill the conservation commitments in the GRSG Plans, to facilitate efforts to reduce the costs to project proponents and the BLM from the potentially extended time it may take for leasing and permitting within GRSG habitat, and to demonstrate that the GRSG Plans are being implemented consistently and transparently. BLM offices are encouraged to work collaboratively with relevant state and federal agencies as well as stakeholders to develop strategies and incentives to encourage and prioritize leasing and development outside of GRSG habitats.

Policy/Action: The BLM's Authorized Officer, acting under the delegated authority of the Secretary of the Interior, has discretion to determine which public lands will be offered at a lease sale. The Mineral Leasing Act of 1920 (MLA), as amended, provides that lands subject to disposition under the Act "which are known or believed to contain oil or gas deposits may be leased by the Secretary." (30 U.S.C. § 226(a) (emphasis added)). When evaluating Expressions of Interest (EOIs) to lease particular parcels, pursuant to the Competitive Leases Handbook (H-3120-1), the BLM will plan for leasing and development in accordance with the objectives and provisions in the GRSG Plans.

This IM does not prohibit leasing or development in GHMA or PHMA as the GRSG Plans will allow for leasing and development by applying prioritizing sequencing, stipulations, required design features, and other management measures to achieve the conservation objectives and provisions in the GRSG Plans. If the Authorized Officer determines that the potential environmental impacts could be significant while preparing the NEPA document, then the Authorized Officer will prepare an Environmental Impact Statement.

This guidance is not intended to direct the Authorized Officer to wait for all lands outside GRSG habitat areas to be leased or developed before allowing leasing within GHMAs, and then to wait for all lands within GHMAs to be leased before allowing leasing or development within the next habitat area (PHMA, for example). Rather it is intended to ensure consideration of the lands outside of GHMAs and PHMAs for leasing and development before considering lands within GHMAs and, thereafter, to ensure consideration of lands within GHMAs for leasing and development before considering any lands within PHMAs for leasing and development in an effort to focus future surface disturbance outside of the most important areas for sage-grouse conservation consistent with the conservation objectives and provisions in the GRSG Plans. This guidance is also intended to ensure careful consideration of the factors identified below when making any leasing and development decisions.

The BLM does not manage leasing on Tribal Trust or allotted lands and the GRSG Plans do not apply to such lands. Therefore, the policy in this IM does not apply to leasing on Tribal Trust or allotted lands. However, the BLM does review Applications for Permit to Drill (APDs) and other permitting actions related to development on Tribal Trust and allotted lands. As noted

(OHMAs – only applicable to Nevada and Northeastern California, which contain no GRSG habitat). The BLM State Offices will consider leasing in these areas as is appropriate in accordance with the applicable RMP. Wyoming's "Core Areas" are generally designated PHMAs. IHMA are a level of protection in-between PHMA and GHMA; therefore, prioritization for processing development proposals will be implemented in this sequence: outside of GRSG habitat, then in GHMA, next in IHMA, and lastly in PHMA. Refer to the approved RMP, as revised or amended.

below, to the extent the BLM receives a request for such a permitting action within PHMA, including an SFA, GHMA, or other GRSG habitat area (as described in footnote 2, the BLM will consult with the appropriate tribe(s) on a case-by-case basis as a part of its permitting decision-making process.

This policy applies to leasing of federal mineral estate and development on lands managed by the BLM and other federal surface management agencies.³ This policy also applies to split estate lands in which the mineral estate is reserved to the United States.

The GRSG Plans include decisions to prioritize geothermal resources; however, due to varying workloads and processes this IM focuses on prioritization of oil and gas leasing and permitting and does not address the prioritization within the geothermal program. State offices will address prioritization and associated factors for geothermal resources on a case-by-case basis.

A. Leasing: Sequential Prioritization of Oil and Gas Leasing in Proximity to PHMAs and GHMAs

The GRSG Plans include a decision to “prioritize oil and gas leasing and development outside of identified PHMAs and GHMAs.” (Rocky Mountain ROD at page 1-25, GB ROD at page 1-23).⁴

Therefore, based on the GRSG Plans’ conservation objectives and provisions, the BLM will prioritize the leasing of oil and gas resources in accordance with the following *prioritization sequence*, in order to minimize further fragmentation and impacts to GRSG habitat or populations, and to seek greater certainty that project development can move forward expeditiously. Generally, areas open for leasing in the approved Plans will be prioritized as follows:

Prioritization Sequence for Leasing in or near GRSG Habitats

In accordance with the BLM’s discretion in offering lands for leasing, BLM State Offices will use the following prioritization sequence for considering leasing in or near GRSG habitat, while also considering the “Factors to Consider While Evaluating EOIs in Each Category” as described on the following page.

³ For National Forest System Lands, this IM adheres to Section 226 (h) of the MLA, under which “The Secretary of the Interior may not issue any lease on National Forest System

Lands reserved from the public domain over the objection of the Secretary of Agriculture, and the 2006 Memorandum of Understanding (MOU) Between US Dept. of Interior BLM and US Dept. of Agriculture Forest Service Concerning Oil and Gas Leasing and Operations, “to insure coordination and consistency of lease stipulations and that the responsible agency heed the development process per the MOU.”

⁴ Although the Lander (Wyoming) ROD and Approved RMP do not include this objective, the procedures in this IM will be followed in the areas covered by that RMP in order to ensure consistency in the BLM’s oil and gas leasing and development activities throughout the GRSG range. The prioritization of leasing and development is an administrative function, not an allocation decision, and so the Lander RMP does not need to be maintained or amended to adopt this approach to leasing and development.

1. Lands outside of GHMAs and PHMAs: BLM State Offices will first consider leasing EOIs for lands outside of PHMAs and GHMAs. These lands should be the first priority for leasing in any given lease sale.
2. Lands within GHMAs: BLM State Offices will consider EOIs for lands within the GHMAs, after considering lands outside of both GHMAs and PHMAs. When considering the GHMA lands for leasing, the BLM State Office will ensure that a decision to lease those lands would conform to the conservation objectives and provisions in the GRSG Plans (e.g., Stipulations).
3. Lands within PHMAs: BLM state offices will consider EOIs for lands within PHMAs after lands outside of GHMAs and PHMAs have been considered, and EOIs for lands within GHMA have been considered. When considering the PHMA lands for leasing, the BLM State Offices will ensure that a decision to lease those lands would conform to the conservation objectives and provisions in the GRSG Plans (e.g., Stipulations) including special consideration of any identified SFAs.

Factors to Consider While Evaluating EOIs in Each Category

In accordance with the BLM's leasing discretion, the BLM will consider individual parcels within each of the categories in accordance with the *Prioritization Sequence* described above, and only thereafter consider, as appropriate, a combination of what applies from the following prioritization factors. These parcel specific factors are not presented in any particular order of importance:

- Parcels immediately adjacent or proximate to existing oil and gas leases and development operations or other land use development should be more appropriate for consideration before parcels that are not near existing operations. This is the most important factor to consider, as the objective is to minimize disturbance footprints and preserve the integrity of habitat for conservation.
- Parcels that are within existing Federal oil and gas units should be more appropriate for consideration than parcels not within existing Federal oil and gas units.
- Parcels in areas with higher potential for development (for example, considering the oil and gas potential maps developed by the BLM for the GRSG Plans) are more appropriate for consideration than parcels with lower potential for development. The Authorized Officer may conclude that an area has "higher potential" based on all pertinent information, and is not limited to the Reasonable Foreseeable Development (RFD) potential maps from Plans analysis.
- Parcels in areas of lower-value sage-grouse habitat or further away from important life-history habitat features (for example, distance from any active sage-grouse leks) are more appropriate for consideration than parcels in higher-value habitat or closer to important life-history habitat features (i.e. lek, nesting, winter range areas). At the time the leasing priority is determined, when leasing within GHMA or PHMA is considered, BLM should consider, first, areas determined to be non-sage-grouse habitat and then consider areas of lower value habitat.

- Parcels within areas having completed field-development Environmental Impact Statements or Master Leasing Plans that allow for adequate site-specific mitigation and are in conformance with the objectives and provisions in the GRSG Plans may be more appropriate for consideration than parcels that have not been evaluated by the BLM in this manner.
- Parcels within areas where law or regulation indicates that offering the lands for leasing is in the government's interest (such as in instances where there is drainage of Federal minerals, 43 CFR § 3162.2-2, or trespass drilling on unleased lands) will generally be considered more appropriate for leasing, but lease terms will include all appropriate conservation objectives and provisions from the GRSG Plans.
- As appropriate⁵, use the BLM's Surface Disturbance Analysis and Reclamation Tracking Tool (SDARTT) to check EOI parcels in PHMA, to ensure that existing surface disturbance does not exceed the disturbance and density caps and that development of valid existing rights (Solid Minerals, ROW) for approved-but-not-yet-constructed surface disturbing activities would not exceed the caps.

BLM state offices will use this *Prioritization Sequence*, these parcel-specific factors, and the BLM's workload capacity and other workload priorities as they determine work Plans for the oil and gas leasing program. If the state office does not offer a specific parcel identified in an EOI at the next regularly scheduled sale the BLM should inform the applicant of the reason the parcel was not included in the sale.

Pending EOIs and Leases Sold But Not Issued

The following addresses the parcels that have been nominated in the past, and leases sold but not yet issued. BLM state offices should consider these parcels, using the *Prioritization Sequence* above, and this additional guidance.

- **Deferred Expressions of Interest:**
For parcels located within identified PHMAs or GHMAs that were identified via EOIs and were deferred during the development of the GRSG Plans, the BLM State Office may decide if the deferred EOI in a PHMA or GHMA would need to be identified again through a new EOI. The BLM State Office will contact the applicant who submitted the EOI to inform them of the *Prioritization Sequence* and to find out if the applicant is still interested in these previously identified tracts. If the BLM receives a new EOI for the parcel, the BLM will inform the applicant that the BLM will consider the parcel using the prioritization factors above.
- **Leases Sold Prior to GRSG Plans – But Not Issued⁶**

⁵ All new leases issued under the GRSG land use plans will have the stipulation for no surface occupancy (NSO) in PHMA (except WY); therefore, this exercise may not be necessary. In WY, leases issued within the PHMA Core habitat will have the controlled surface use (CSU) stipulation WL-4024, but BLM WY may want to use SDARTT to calculate existing and approved disturbance in parcels before they are offered.

⁶ For example, Wyoming has approximately 170,000 acres in this status. Colorado has a few leases that were "sold but not issued." Most states do not have any leases that were "sold but not issued."

This category refers to leases that were sold in previous BLM lease sales, but were not issued. Because all leases issued after the approval of the GRSG Plans must conform to the approved Plans, the BLM will not issue leases sold prior to the approval of the GRSG Plans unless the leases are consistent with the sequential prioritization approach described above and in conformance with the GRSG Plans and with the appropriate stipulations outlined in the GRSG Plans. Consistent with the sequential prioritization approach, the Authorized Officer may issue these leases (in accordance with all laws, regulations, and policies), after a 45-day public notice period declaring the revised stipulations.⁷ If the successful bidder does not consent to the revised lease stipulations, the Authorized Officer will refund the bonus bid, the first year's rental payment, and the administrative fee to the successful bidder, and close the case. Refer to BLM Handbook H-3120-1 (*Competitive Leases*) for additional guidance.

Other Tools for Reducing Impacts to PHMAs and GHMAs

The following provides a number of other tools to reduce impacts to PHMA, including SFAs, and GHMA habitat:

- **Mitigation:** To encourage leasing and development in the areas with the least GRSG conflicts, and in consideration of the DOI's and the BLM's policies regarding landscape-scale mitigation,⁸ the Authorized Officer should consider whether the mitigation (avoidance, minimization, rectify, reduce, and compensate) will be sufficient to achieve the net conservation gain mitigation standard for any adverse impacts to GRSG habitat, as identified in the GRSG Plans.⁹ One compensatory mitigation tool for achieving the net conservation gain mitigation standard, in addition to other restoration and preservation actions, that BLM might consider using is to request the record title owner(s) of existing Federal oil and gas leases located in SFAs, PHMAs, or other sensitive GRSG habitats to relinquish those leases as an offset to the potential impacts to GRSG and their habitats from activities arising from other implementation decisions or activities on valid existing leases located on the public lands. Lease relinquishment as a compensatory mitigation tool is a form of protection and is generally only appropriate for those leases in priority habitat with high-value GRSG habitat that also has a high potential and likelihood for development. The BLM is working on a manual and handbook on mitigation that are expected to address mitigation, including compensatory mitigation, in more detail.

⁷ 30 U.S.C. § 226 (A) ("Leases shall be issued within 60 days following payment by the successful bidder of the remainder of the bonus bid, if any, and the annual rental for the first lease year.")

⁸ See Department Manual 600 DM 6, "Implementing Mitigation at the Landscape-scale" (October 23, 2015). See also Presidential Memorandum entitled "Mitigating Impacts on Natural Resources from Development and Encouraging Related Private Investment" (November 3, 2015).

⁹the BLM will require and ensure mitigation that provides a net conservation gain (the actual benefit or gain above baseline conditions) to the species. This would include accounting for any uncertainty associated with the effectiveness of such mitigation in PHMAs and GHMAs (except for the Wyoming, where this requirement only applies in PHMAs). (Rocky Mountain Region ROD, page 1-27; and as described in *Wyoming ARMPA, MD GMD 2*, page 26). Furthermore, the Wyoming RMP requires a net conservation gain for sage-grouse populations and habitats, consistent with the *State of Wyoming Core Area Strategy*. (see Wyoming ARMP, page 20.)

The GRSG Plans also provide guidance on appropriate mitigation. (See Mitigation Appendix in your Plans). BLM state offices will work with WO-310 as relinquishments are implemented until additional guidance is finalized.

- Lease Suspensions: The BLM is authorized to suspend all operations and production by direction or consent in the interest of conservation of natural resources. Accordingly, the Authorized Officer may consent to or direct lease suspensions where it is determined to be in the interest of the conservation of GRSG populations and habitats.¹⁰ For example, a lease suspension might be considered if disturbance and density caps have been exceeded within a lease or to allow for the satisfactory restoration of existing surface disturbances within a PHMA before considering new operations in the PHMA that may meet or exceed a surface disturbance limitation under the approved Plans.
- Lease Reinstatements: When deciding whether to approve or deny a request for lease reinstatements, the Authorized Officer will consider the *Prioritization sequence*, whether the land is open to leasing under the approved Plans, whether it is in a PHMA or GHMA, and if the existing lease terms will remain in compliance with the conservation objectives and provisions of the GRSG Plans. If a lease reinstatement is approved, the stipulations of the GRSG Plans must be applied. If a lease reinstatement is denied, those lands may or may not be precluded from later consideration for leasing, in accordance with the authorizing officer's discretion to determine which public lands will be offered at a lease sale, but will be subject to the prioritization sequence policy described above.
- In GRSG habitat it is especially important to continue to follow the standard operating procedure in H-3101-7 when inspecting wells and verifying drilling diligence on leases potentially eligible for a lease extension¹¹ before the date of potential lease expiration¹².

¹⁰ See 30 U.S.C. § 209 (“In the event the Secretary of the Interior, in the interest of conservation, shall direct or shall assent to the suspension of operations and production under any lease granted under the terms of this Act”); see also 43 CFR § 3103.4-4(a) (“A suspension of all operations and production may be directed or consented to by the Authorized Officer only in the interest of conservation of natural resources.”). Federal courts have recognized that the phrase “in the interest of conservation,” as used in Section 39 of the Mineral Leasing Act (30 U.S.C. § 209), includes the prevention of environmental harm. See *Copper Valley Machine Works, Inc. v. Andrus*, 653 F.2d 595, 602 (D.C. Cir. 1981); see also *Hoyl v. Babbitt*, 129 F.3d 1377, 1380 (10th Cir. 1997).

¹¹ Lease extension by drilling is only authorized for actual drilling operations that were commenced prior to and being **diligently** conducted over the expiration date of the primary term of the lease. See 43 CFR § 3107.1.

¹² (1) review the well drilling program to confirm it is designed to test and produce from at least one potentially productive oil and/or gas formation, (2) conduct a field inspection of the drilling location before the lease expiration date to verify actual drilling, and (3) ensure the well meets the criteria established in H 3107-1.

- Where a lease in PHMA or GHMA has expired because the primary term has elapsed and no drilling has occurred (or where the lease is not held by production¹³), the BLM will not re-offer these parcels, and may only consider offering such lands if and when an EOI is submitted and the BLM determines it is appropriate to lease the lands if located in areas open to leasing under the approved Plans. Future leasing of the lands will be considered under the sequential prioritization approach described above, including the *Factors to be Considered While Evaluating EOIs* and provided that the new stipulations from the GRSG land use Plans are attached to the lease.
- In GRSG habitat, when making a decision to cancel a lease for failure to comply with lease terms, the bond must remain in force and effect until all rents and royalties have been paid and final abandonment of all wells, including reclamation, has been approved. (H3108-1, H-3104 pg107, and 43 CFR § 3100).

Configuration of Quarterly Lease Sales from BLM-Identified Lands and EOIs

BLM state offices will take into account the EOIs, the GRSG plan decisions and goals, this prioritization sequence policy, other resource values, and workload capacity in configuring quarterly lease sales. This approach will allow for quarterly sales consistent with the conservation objectives and provisions in the GRSG Plans.

Required Coordination when Leasing within a PHMA or GHMA is Proposed

Prior to NEPA Comment Period

For each lease sale that includes parcels intersecting PHMAs or GHMAs, State Directors will provide a *Preliminary Lease Sale Summary* to WO-300 (cc WO-310) as soon as is feasible and at least 15 days prior to the date the first NEPA documentation for the lease sale is posted or released for public comment. A template with the information necessary for State Directors to include in the *Preliminary Lease Sale Summary* is included in Attachment 1.

Prior to Holding a Lease Sale

In addition, after any protests are received and as soon as is feasible, but at least 15 days before a lease sale is held, State Directors will provide a briefing memo to the WO-300 (cc WO-310) contact that includes a summary of any lease sale parcel protests related to GRSG (including protests addressing plan conformance and NEPA compliance when related to GRSG decisions, habitats, and populations). A briefing paper template is included in Attachment 2.

B. Development: Sequential Prioritization of Permit Processing for Oil and Gas Development and Operations in Proximity to PHMAs and GHMAs

¹³ Includes primary term leases, as well as, suspension of operations and production on leases with wells capable of production. See 43 CFR § 3103.4-4.

As described above, an objective of this policy is to sequentially prioritize the leasing and development of oil and gas resources on public lands outside of GRSG habitat based on the GRSG Plans' conservation goals to avoid or limit new surface disturbance in Priority Habitat Management Areas (PHMAs) and minimize surface disturbance in General Habitat Management Areas (GHMAs). Similar to the way that leasing is handled above, BLM field offices will process Notices of Staking (NOSs)/Applications for Permit to Drill (APDs) or Sundry Notices that involve ground disturbance (referred to collectively as "permits" in this section) for wells that are proposed to be located outside of GHMAs and PHMAs first, then within GHMAs, then within PHMAs, and lastly, within PHMAs that may contain SFAs.

Prioritization Sequence for Permits for Oil and Gas Development and Operations in or near GRSG Habitats

When processing permits for oil and gas development and operations in or near GRSG habitat, follow this prioritization sequence:

1. Lands outside PHMAs/GHMAs: The BLM will encourage development outside of PHMAs/GHMAs by working with operators to focus their development proposals away from GRSG habitats.
2. Lands in GHMAs: Authorized Officers will use the prioritization sequence to meet the conservation objectives and provisions in the GRSG land use Plans by encouraging development in GHMA before development in PHMA, by taking into consideration the factors and existing prioritizations (as detailed below) GRSG land use Plans when processing permits for well locations.
3. Lands in PHMA: Authorized Officers will use the prioritization sequence to meet the conservation objectives and provisions in the GRSG land use Plans by encouraging development, first outside of GHMA/ PHMA, and then in GHMA, before development in PHMA, while taking into consideration the factors and existing prioritizations (as detailed below) when processing permits for well locations.

Prioritization Factors to Consider (but not limited to and not in any particular order):

- Well locations in an area with existing production facilities and surface disturbance should be more appropriate for consideration before well locations that are not immediately adjacent or proximate to existing operations.
- Well locations within a Federal oil and gas unit should be more appropriate for consideration than well locations not within existing Federal oil and gas units.
- Well locations within areas having completed field-development Environmental Impact Statements or Master Development Plans that allow for adequate site-specific mitigation and conformance with the GRSG land use Plans may be more appropriate for consideration than well locations that have not been evaluated by the BLM in this manner.

- Well locations in areas of lower-value GRS habitat or distant from important life-history habitat features (for example, distant from any active GRS leks) may be more appropriate for consideration than well locations in higher-value habitat or closer to important life-history habitat features.
- Well locations anticipated to result in a net conservation gain may be more appropriate for consideration. Approval of a permit may also occur in response to applicable law or regulations (including drainage cases or to ensure that the BLM honors valid existing rights). Conditions of Approval (COAs) attached to the permit should include all appropriate conservation objectives and mitigation requirements, such as required design features (RDF) from the GRS land use Plans.¹⁴
- As appropriate, use SDARTT to check “project analysis areas”¹⁵ in PHMA and SFA, to ensure that existing surface disturbance does not exceed the disturbance and density caps and that development of valid existing rights (Solid Minerals, Rights-Of-Way, etc.) for approved-but-not-yet-constructed surface disturbing activities would exceed the caps.

Existing Prioritizations:

BLM field offices should integrate the above prioritization sequence in their processing of pending permits as they consider the overall workload to fairly and objectively address their permitting prioritization. Only insofar as they are consistent with the prioritization approach described in this IM, BLM field offices may also take into consideration other prioritization considerations, such as considering permitting on a first-in/first-out basis to the extent possible, unit obligation wells, the efficiency to be gained in processing the easiest to complete first, the operator’s drilling Plans, workload capacities, and other resource values.

Development and Restoration within PHMAs/GHMAs

Where a proposed fluid mineral development project on an existing lease could adversely affect GRS populations or habitat, the BLM will work with appropriate stakeholders, including the U.S. Fish and Wildlife Service, relevant State agencies, lessees, operators, or other project proponents to avoid, minimize, and compensate for unavoidable adverse impacts to sage-grouse or its habitat. The BLM will ensure that the best information about the GRS and its habitat informs and guides development of such Federal leases to the extent compatible with lessees’ rights to drill and produce fluid mineral resource with proper application of stipulations and conditions of approval.

When considering an NOS/APD or Sundry Notice involving ground disturbance activities proposed in PHMA and/or GHMA (even for leases issued prior to finalization of the GRS land use Plans), the Authorized Officer will consider the BLM’s environmental record of review. See 43 CFR § 3162.5-1(a). The environmental record of review includes appropriate documentation of NEPA compliance, alternatives that would implement the conservation measures described in the GRS land use Plans, and applicable Best Management Practices (BMP) and Required

¹⁴ Refer to footnote #9.

¹⁵ Methodologies may vary from state to state. For example, Colorado uses Management Zones and Oregon uses Priority Areas for Conservation

Design Features (RDF); consistent with applicable regulations. If the Authorized Officer determines that the potential environmental impacts could be significant, the Authorized Officer will prepare an Environmental Impact Statement. In all cases, as the GRSG Plans decisions acknowledge (see RM ROD at page 2-2, GB ROD at page 2-2), the BLM must honor valid existing rights, such as in cases where the BLM issued a lease prior to the GRSG land use plan with terms and stipulations that may be different from those provided for in the GRSG land use plan. In addition, the BLM also has the authority to apply reasonable conditions of approval. 43 CFR § 3101.1-2.

The Authorized Officer will continue to work with all operators to plug idle wells, timely restore well sites with appropriate GRGS habitat seed mixes, reclaim roads, and enhance habitat (e.g., reduce fragmentation), with a restoration emphasis in GRSG habitat areas to support conservation goals. In addition, the Authorized Officer will be cognizant of sundry notices of operations that may be considered disruptive activities within GRSG habitats.

When the BLM receives an APD involving a well that is within a GRSG habitat area, but on Tribal Trust or allotted lands under BIA jurisdiction, the BLM will coordinate with the BIA and affected tribe(s).

Timeframe: This IM is effective immediately.

Budget Impact: Given the conservation challenges and the land management responsibilities, this policy will result in additional costs for increased planning, coordination, NEPA review, GIS, responding to administrative challenges, and associated program costs. It is anticipated that performance targets/units of accomplishment for the resource programs will adjust to reflect the added complexities and responsibilities. Timelines for wells within GRSG habitat may take longer to permit; however wells outside of habitat will be prioritized for processing.

Background: On September 21, 2015, the Department of the Interior and the BLM approved the GRSG RODs. Concurrently, the BLM amended or revised the Plans in GRSG habitat to provide conservation measures protective of GRSG and their habitats.

Along with other guidance being issued and prepared by the BLM, this IM serves to provide policy direction for the implementation of the GRSG land use Plans. This IM also satisfies the BLM's commitment in the GRSG ROD's to provide policy direction based on the objective of prioritizing oil and gas leasing and development outside of PHMAs and GHMAs. (See, e.g., Rocky Mountain ROD at page 1-40, GB ROD at page 1-41, "...additional guidance will be provided to clarify how the BLM will implement the objective of prioritizing future oil and gas leasing and development outside of GRSG habitat.") The final Approved Plans also included a decision that provided:

Priority will be given to leasing and development of fluid mineral resources, including geothermal, outside of PHMAs and GHMAs. When analyzing leasing and authorizing development of fluid mineral resources, including geothermal, in PHMAs and GHMAs, and subject to applicable stipulations for the conservation of GRSG, priority will be given to development in non-habitat areas first and then in

the least suitable habitat for GRSG. The implementation of these priorities will be subject to valid existing rights and any applicable law or regulation, including, but not limited to, 30 U.S.C. 226(p) and 43 C.F.R. 3162.3-1(h).¹⁶

This IM and its attachments provide guidance to BLM Authorized Officers and field personnel to facilitate consistent implementation of these Plans decisions.

Manual/Handbook Sections Affected: None.

Coordination: This IM was coordinated with the U.S. Department of the Interior, Office of the Solicitor; BLM State Offices; the Renewable Resources and Planning Directorate; and the Energy, Minerals and Realty Management Directorate.

Contact: If there are any questions concerning this IM, please contact Michael D. Nedd, Assistant Director, Energy, Minerals and Realty Management (WO-300), at 202-208-4201. Your staff may also contact Steven Wells, Division Chief, Division of Fluid Minerals (WO-310), at 202-912-7143 or s1wells@blm.gov.

2 Attachments

- 1- *Preliminary Lease Sale Summary* Template (1p)
- 2- *Lease Sale in Greater Sage-Grouse Habitats Briefing Paper* Template (1p)

¹⁶ For example, see the BLM-Utah's Approved RMP Amendment – Attachment 4 to the GB ROD at page 2-25, Objectives MR-1 and MR-2. Similar language can be found in each of the RMPs.

Attachment 1 – *Preliminary Lease Sale Summary* Template - Prior to NEPA Comment Period

The *Preliminary Lease Sale Summary* will include:

- ✓ State Office/planning area(s) and date of lease sale
- ✓ Anticipated date that the NEPA documentation (EA or DNA) will be posted for public review
- ✓ Total number and acreages of parcels considered in the lease sale
- ✓ Total number and acreages of parcels intersecting Greater Sage-Grouse habitat, General Habitat Management Areas (GHMAs), and Priority Habitat Management Areas (PHMAs) in the lease sale
- ✓ Anticipated date that the Notice of Competitive Lease Sale will be published and posted for public review
- ✓ Date the protest period ends
- ✓ Map(s) illustrating the location of all parcels, with the following overlays:
 - GHMAs and PHMAs
 - Pertinent surface disturbance and reclamation data as available.
 - If available, existing Federal oil and gas leases (differentiating those held by production) and wells. If available, please include information related to non-BLM administered oil and gas leases and wells.
 - For Federal wells, which can be numerous, we are requesting locations of active oil and gas wells that have been constructed or spud; this would not include plugged and abandoned wells.
 - Federal oil and gas unit boundaries
 - Field-development Environmental Impact Statement boundaries
 - Master Leasing Plan boundaries
 - Oil and gas development potential maps
 - Locations of known sage-grouse leks protective buffers
 - State Offices should use scale(s) that will allow the maps to be viewed and understood.

**BRIEFING MEMORANDUM FOR THE ASSISTANT DIRECTOR – ENERGY,
MINERALS, AND REALTY MANAGEMENT**

DATE: [Date memo submitted to AD300 and AD310]

FROM: Applicable State Director [Name, title, and applicable state]

SUBJECT: [Insert state] State Office [Insert scheduled date of sale] Oil and Gas Lease Sale
Statement of purpose: Inform AD300 and AD310 about the upcoming oil and gas lease sale in
relation to protests that involve Greater Sage-Grouse and Greater Sage-Grouse habitat.

BACKGROUND

Summarize key information from the *Preliminary Lease Sale Summary*. For example:
*On September 28, 2015, the XXX State Office posted the environmental assessment (EA) for the
February 11, 2016 oil and gas lease sale for public review and comment. The EA analyzed the
offering of up to 50 parcels totaling approximately 112,500 acres as part of the sale. Of this, 20
parcels totaling approximately 45,000 acres intersect Greater Sage-Grouse General Habitat
Management Areas and 10 parcels totaling approximately 22,500 acres intersect Greater Sage-
Grouse Priority Habitat Management Areas. Parcels that will be offered at the sale fall within
the X, Y, and Z Plans planning areas for which applicable oil and gas lease stipulations from
these Plans were attached to the appropriate parcels. The protest period for the lease sale
ended on December 28, 2015.*

DISCUSSION

In the briefing memo, please identify potential sage-grouse related impacts and controversies
associated with the parcels listed in the Sale Notice. The discussion should address the
following:

- a) Has the proposed sale generated any controversy with the State/Governor or the public?
- b) Provide a hyperlink to the BLM external website with the BLM's NEPA compliance
documentation for the lease sale (EA or DNA).
- c) How many parcels (and acres) have been protested because of sage-grouse issues?
- d) Who filed these protests?
- e) What are the protester(s) main arguments related to sage-grouse issues?

NEXT STEPS

Describe how the State Office anticipates answering the protests.

ATTACHMENTS

N/A. However, please feel free to attach additional maps (other than what has already been
provided through the *Preliminary Lease Sale Summary*).

EXHIBIT B

*CONCURRENT RESOLUTION URGING CONGRESS
TO SUPPORT THE IMPLEMENTATION OF THE
UTAH'S SAGE-GROUSE CONSERVATION PLAN*

1 **CONCURRENT RESOLUTION URGING CONGRESS TO**
2 **SUPPORT THE IMPLEMENTATION OF THE STATE'S**
3 **SAGE-GROUSE CONSERVATION PLAN**

4 2015 GENERAL SESSION

5 STATE OF UTAH

6 **Chief Sponsor: Kevin T. Van Tassell**

7 House Sponsor: Scott D. Sandall

8
9 **LONG TITLE**

10 **General Description:**

11 This concurrent resolution of the Legislature, the Governor concurring therein, urges
12 Congress to support the state's sage-grouse conservation plan.

13 **Highlighted Provisions:**

14 This resolution:

- 15 ▶ urges Congress to provide no funding to the United States Secretary of the Interior
- 16 to consider, prepare, write, or issue a petition finding or proposed regulation for
- 17 greater sage-grouse management through fiscal year 2025;
- 18 ▶ resolves that the state implement its sage-grouse conservation plan; and
- 19 ▶ urges Congress to enact legislation recognizing and encouraging state primacy in
- 20 the long-term management of sage-grouse and its habitat.

21 **Special Clauses:**

22 None

23
24 *Be it resolved by the Legislature of the state of Utah, the Governor concurring therein:*

25 WHEREAS, the state of Utah is committed to the conservation of greater sage-grouse
26 (Centrocercus urophasianus) and its present habitat located within the state;

27 WHEREAS, the state of Utah has produced a statewide sage-grouse conservation plan
28 in support of this commitment;

29 WHEREAS, the Division of Wildlife Resources in the Department of Natural

30 Resources possesses significant expertise in the management of greater sage-grouse and its
31 habitat, and experts in the division have been working extensively in full cooperation with the
32 federal agencies managing federal lands within the borders of the state;

33 WHEREAS, the Endangered Species Act requires the United States Secretary of the
34 Interior to take into account the state of Utah's efforts to protect greater sage-grouse prior to the
35 Secretary's determination that the species is endangered or threatened;

36 WHEREAS, implementation of the state's conservation plan will produce scientific data
37 related to disease or predation of the species, the adequacy of existing regulatory mechanisms,
38 and other natural or human-influenced factors affecting the species' existence, all of which
39 must be considered by the United States Fish and Wildlife Service in making a determination
40 whether to list greater sage-grouse as threatened or endangered under the Endangered Species
41 Act;

42 WHEREAS, categorical exclusions from the National Environmental Policy Act are
43 necessary to allow the federal land management agencies to remove pinyon-juniper trees that
44 are harmful to greater sage-grouse habitat;

45 WHEREAS, the state of Utah wishes to continue its collaboration with other states
46 possessing current habitat for greater sage-grouse;

47 WHEREAS, the United States Congress and the President of the United States are to be
48 commended for recognizing the unprecedented collaboration among the various states
49 regarding greater sage-grouse conservation and the need to continue on-the-ground
50 conservation and monitoring activities, as recognized through the enactment of Section 122 of
51 the Consolidated and Further Continuing Appropriations Act of 2015; and

52 WHEREAS, time is needed to finalize and implement the state conservation plan over a
53 period of multiple, consecutive sage-grouse life cycles to determine the efficacy of the plan and
54 the need for modification, if any;

55 NOW, THEREFORE, BE IT RESOLVED that the Legislature of the state of Utah, the
56 Governor concurring therein, urges Congress to provide no funding to the United States
57 Secretary of the Interior to consider, prepare, write, or issue, pursuant to Section 4 of the

58 Endangered Species Act of 1973 (16 U.S.C. Sec. 1533), a petition finding or proposed
59 regulation for greater sage-grouse for a period of 10 years through and including fiscal year
60 2025.

61 BE IT FURTHER RESOLVED that during this period, the state of Utah will implement
62 its sage-grouse conservation plan, thereby establishing and enhancing its efficacy over time.

63 BE IT FURTHER RESOLVED that the Legislature of the state of Utah, the Governor
64 concurring therein, urges Congress to enact legislation recognizing and encouraging state
65 primacy in the long-term management of sage-grouse and its habitat to ensure an effective and
66 balanced approach that seeks to recover and protect sage-grouse populations while protecting
67 state economic interests, educational funding from state lands, and valid existing rights,
68 including private property rights.

EXHIBIT C

*SAGE GROUSE INITIATIVE
SCIENCE TO SOLUTIONS
CONIFER REMOVAL BOOSTS
SAGE GROUSE SUCCES*

Science to Solutions

Conifer Removal Boosts Sage Grouse Success



In Brief: In recent years the Sage Grouse Initiative, led by the USDA's Natural Resources Conservation Service, has worked with many partners to accelerate the mechanical removal of invading conifer trees, primarily junipers, to restore sagebrush habitats in and around sage grouse strongholds across the West. Replicated studies from public and private land in southern Oregon and northwest Utah are the first to document sage grouse response to this type of landscape-level habitat restoration effort. Despite conventional wisdom that female sage grouse use the same nesting areas every year, space-starved hens in Oregon were quick to use restored habitats made available by conifer removal: within four years, 29% of the tracked sage grouse were nesting within and near restored habitats. In Utah, 86% of hens avoided conifer invaded habitats, and those using restored habitats were more likely to raise a brood. Taken together, studies show that landscape-level conifer removal can effectively increase habitat availability and boost success for nesting and brooding sage grouse.



Removing invading conifers in otherwise high-quality sagebrush habitat is a boon to nesting sage grouse, as in this landscape in the Warner Valley, southern Oregon, before (left) and after (right) restoration. Photos courtesy of Todd Forbes, Bureau of Land Management.

Invaders in the Sage

The encroachment of conifers (mostly juniper species and pinyon pine) into sagebrush habitats is one of several major causes of sage grouse declines. Although native, these trees have spread into millions of acres of sagebrush habitats due to a combination of 100 years of fire suppression, historic overgrazing, and a changing climate. As trees spread into sagebrush, predation may increase because the trees provide new nest sites and

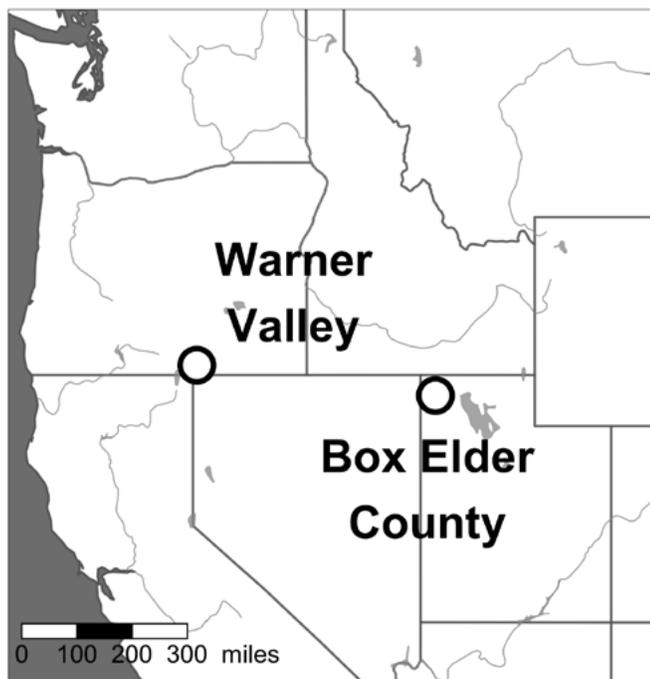
perches to raptors, ravens, and other birds that prey on sage grouse, eggs, and chicks. Conifers also alter sagebrush habitats by robbing native shrubs and understory plants of water and nutrients and drying up streams, springs, and seeps. The result is a widespread degradation of healthy sagebrush habitats.

Even just a few trees scattered across the landscape in the earliest stage of conifer encroachment (called Phase I) can impact grouse. An Oregon study found that where conifers

cover only 4% of the landscape, grouse abandon their courtship leks (Baruch-Mordo et al. 2013; and see [Sage Grouse Initiative Science to Solutions No. 2](#)). Although sage grouse still use Phase I landscapes, their survival may be lower when compared to sagebrush-dominated habitats because of the increased abundance of predators. In essence, sagebrush habitats with even a few conifers serve as death traps for grouse—areas biologists call “population sinks” because they cannot sustain the species (Prochazka et al. in press; Coates et al. in press).

In a range-wide effort, land managers have collaborated to restore the quality of the habitat on working sagebrush landscapes by removing invasive conifers across public and private lands. These projects focus on removing invading conifers in and around sage grouse strongholds. Biologists initially reasoned that bird response to habitat restoration would be a slow process because sage grouse show strong fidelity to nest sites (hens using the same nesting areas year after year).

Yet two parallel studies in the Great Basin show a different story—apparently grouse know good habitat when they see it. These two studies examined sage grouse response to conifer removal in watershed-scale restoration projects, and confirmed that grouse benefit almost immediately when the trees come down.

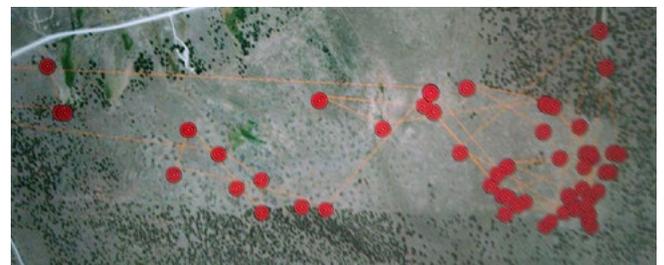


Two recent, independent studies near the Warner Valley in Oregon and in Box Elder County, Utah confirm that sage grouse directly benefit from large-scale mechanical removal of invasive conifers. Map by SGI.

Moving into the New Neighborhood

How quickly will sage grouse nest in restored habitats where invading conifers have been removed? To answer this question, John Severson of the University of Idaho and his colleagues set up a treatment and control field study near the Warner Valley on the Oregon/ Nevada border (Severson et al. in press). The study compared two large landscapes of mountain big sagebrush and western juniper. An untreated control area (>98,800 acres) scattered with invading juniper was compared to a treatment area (>84,000 acres) where large patches of juniper, totaling 20% of the landscape, were removed to restore the entire watershed to sagebrush habitat suitable for nesting grouse. Because the impact of invading conifers extends beyond the trees themselves, removing encroaching trees helps restore the habitat quality of a much larger area of the sagebrush landscape than just the stands that are cut.

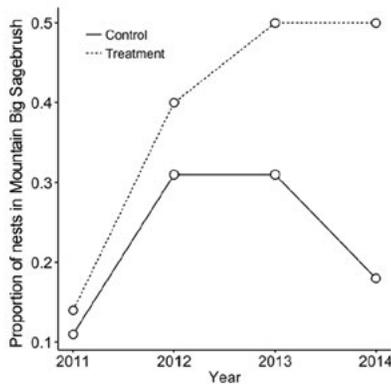
From 2009 to 2014, the researchers then radio-collared and tracked 153 hens in the treatment study area and 117 hens in the control area, which allowed them to locate more than 260 nests and determine where hens were choosing to nest.



GPS locations recorded for this single female grouse in the Warner Valley show how the bird prefers a newly restored sagebrush habitat recently cleared of invading conifers. Image courtesy of Andrew Olsen, graduate student under Professor Christian Hagen at Oregon State University, who is continuing long-term monitoring of sage grouse response at these sites.

“The speed at which these space-starved birds colonize our sagebrush restorations is remarkable, and their increased performance is the ultimate outcome in science-based conservation.”

~ Charles Sandford, former Graduate Student, Utah State University, and current SGI Partner Biologist, Tremonton, Utah.



In the large landscape that was treated with conifer removal, 29% of radio-tagged female sage grouse nested in newly restored habitat. Hens did not increase nesting in the untreated control landscape, where conifers remained. Chart courtesy Severson et al.

It became immediately apparent that sage grouse hens were starved for good sagebrush nesting habitat, and removing the trees creates more usable space. Despite conventional wisdom that female grouse are strongly tied to the same nesting sites every year, sage grouse hens were quick to consider restored habitat nearby, and nested both in and near sagebrush stands cleared of juniper. Within two to four years after juniper cutting, sage grouse moved in to cut areas, and the probability of nesting in and near treated sites increased 22% each year after cutting. After four years, the number of sage grouse nesting in and near the restored areas increased 29% (relative to the control area). Additionally, birds were much more likely to nest in or near restored sites: for every 0.6 miles from a cut area, the probability of nesting decreased 43%. In short, removing junipers dramatically increased the availability of nesting habitat, and hens proved quite willing to take advantage of good habitat as it became available.

A Boost in Nest and Brood Success

Charles Sandford of Utah State University and his colleagues asked how conifer removal in sagebrush habitats might affect the success of sage grouse nests and broods (Sandford et al. in press). Their study area in the Box Elder Sage Grouse Management Area (SGMA) is home to one of the largest and most stable sage grouse populations in Utah.

Covering 256,000 acres, the project area hosts both big and small sagebrush species, and a mix of native bunchgrasses and forbs. Since 2008, managers have mechanically removed invading conifers on more than 20,000 acres to improve sagebrush habitat.

From 2012 to 2015, the biologists tracked 96 radio-tagged sage grouse hens to find and determine the fate of nests. They discovered that the distance between nests and restored

habitat predicted success: nest success declined with every 0.6 miles farther away from restored habitat. (In one documented instance, a marked female nested within a treatment even before mechanical harvesters had completed the cut, and then successfully hatched a brood; Sandford et al. 2015).



Clearing conifers from more than 20,000 acres of the Box Elder Sage Grouse Management Area increased sage grouse nest and brood success. Photo courtesy of Charles Sandford, Utah State University.

The researchers also tracked 56 broods, observing their movements and survival. Most hens (86%) kept broods close to restored habitats and avoided areas with trees, and hens that used areas cleared of conifers were most likely to successfully fledge their broods. This is the ultimate measure of success of habitat restoration: more chicks surviving to boost the next generation of sage grouse.

Clearing the Way for Success

The Sage Grouse Initiative, led by the USDA's Natural Resources Conservation Service, and its many partners have completed conifer restoration projects on more than a half million acres across the West. Utah's Watershed Restoration Initiative has restored another half million acres, and the Bureau of Land Management is now investing heavily in sagebrush habitat restoration across the species' range.

Where conifers invade, grouse appear to be lacking enough quality nesting and brood-rearing habitat. These new studies demonstrate that sage grouse know good nesting habitat when they see it, and collaborative, large-scale sagebrush restoration can benefit sage grouse within a relatively short time.

"Most impressive to me is the foresight and planning across state and federal agencies that resulted in these watershed-scale restorations. BLM is now squarely focused on replicating this partner-based model in priority landscapes throughout the West."

~Steve Small, Division Chief, Fish and Wildlife Conservation, Bureau of Land Management, Washington, D.C.

Use SGI's New Web Tool for Restoration Planning

Interested in planning a sagebrush habitat restoration across your landscape? The Sage Grouse Initiative has a new web tool that maps tree canopy cover in high-resolution across sage grouse range, since removing expanding conifers is a primary focus of SGI's conservation investment strategy. The map tool allows managers and planners to zoom in on a local site or scale up to a county or state. The raster data is free to download to your GIS for planning and conservation. Visit SGI's new web tool at <http://map.sagegrouseinitiative.com/>

Contacts

- Christian Hagen, Oregon State University: christian.hagen@oregonstate.edu
- Terry Messmer, Utah State University: terry.messmer@usu.edu

Principal Student Investigators

- John P. Severson, University of Idaho
- Charles Sandford, Utah State University



Graduate students John Severson, University of Idaho, and Charles Sandford, Utah State University, documented increases in nesting and brood success after sagebrush habitat was restored by removing encroaching conifers.

Please Cite As

Sage Grouse Initiative. 2017. Conifer Removal Boosts Sage Grouse Success. Science to Solutions Series Number 12. Sage Grouse Initiative, 4pp. <http://www.sagegrouseinitiative.com/>.

Writer: Christine Paige, Ravenworks Ecology, christipaige@gmail.com
Designer: Maja Smith, MajaDesign, Inc. majadesign@comcast.net
January 2017

Sources

Baruch-Mordo, S., J.S. Evans, J.P. Severson, D.E. Naugle, J.D. Maestas, J.M. Kiesaecker, M.J. Falkowski, C.A. Hagan, and K.P. Reese. 2013. Saving sage-grouse from the trees: a proactive solution to reducing a key threat to a candidate species. *Biological Conservation* 167:233-241.

Coates, P.S., B.G. Prochazka, M.A. Ricca, K.B. Gustafson, P. Ziegler and M.L. Casazza. In Press. Pinyon and juniper encroachment into sagebrush ecosystems impacts distribution and survival of greater sage-grouse. *Rangeland Ecology and Management*.

Prochazka, B.G., P.S. Coates, M.A. Ricca, M.L. Casazza and J.M. Hull. In Press. Conifer expansion in sagebrush ecosystems affects movement and survival of greater sage-grouse. *Rangeland Ecology and Management*.

Sage Grouse Initiative. 2014. Conifer Removal Restores Sage Grouse Habitat. Science to Solutions Series No.2. Sage Grouse Initiative, 4pp.

Sandford, C., D.K. Dahlgren, and T.A. Messmer. 2015. Sage-grouse nests in an active conifer mastication site. *Prairie Naturalist* 47:115-116.

Sandford, C. M.T. Kohl, T.A. Messmer, D.K. Dahlgren, A. Cook, and B.R. Wing. In Press. Greater sage-grouse resource selection drives reproductive fitness in conifer removal system. *Rangeland Ecology and Management*.

Severson, J.P., C.A. Hagen, J.D. Maestas, D.E. Naugle, J. Todd Forbes, and K.P. Reese. In Press. Short-term response of sage-grouse nesting conifer removal in the northern Great Basin. *Rangeland Ecology and Management*.

Learn More



The Sage Grouse Initiative, led by the USDA's Natural Resources Conservation Service, is a partnership-based, science-driven effort that uses voluntary incentives to proactively conserve America's western rangelands, wildlife, and rural way of life.

To learn more, visit www.sagegrouseinitiative.com.

EXHIBIT D

*SECTION 2862 OF THE NATIONAL
DEFENSE AUTHORIZATION ACT*

H.R. 1735—FY16 NATIONAL DEFENSE AUTHORIZATION BILL

CHAIRMAN’S MARK

SUMMARY OF BILL LANGUAGE.....	1
BILL LANGUAGE.....	63
DIRECTIVE REPORT LANGUAGE	443
ADDENDUM: SUMMARY TABLES*	491

*NOTE: THE SUMMARY TABLES ARE INFORMATIONAL ONLY AND WILL BE INCLUDED AS PART OF THE COMMITTEE REPORT.

TITLE XXVIII—MILITARY CONSTRUCTION GENERAL PROVISIONS

LEGISLATIVE PROVISIONS

SUBTITLE B—REAL PROPERTY AND FACILITIES ADMINISTRATION

Section 2813—Additional Master Plan Reporting Requirements Related to Main Operating Bases, Forward Operating Sites, and Cooperative Security Locations of Central Command and Africa Command Areas of Responsibility

This section would amend section 2687a(a) of title 10, United States Code, by adding a requirement for the Secretary of Defense to include with the existing overseas basing report a strategic summary for each main operating base, forward operating site, or cooperative security location within the U.S. Central Command and U.S. Africa Command area of responsibility. This section would sunset in fiscal year 2020.

SUBTITLE E—MILITARY LAND WITHDRAWALS

Section 2841—Withdrawal and Reservation of Public Land, Naval Air Weapons Station China Lake, California

This section would provide for the withdrawal and reservation of additional public land in San Bernardino County, California, to support operations at Naval Air Weapons Station China Lake, California.

SUBTITLE G—OTHER MATTERS

Section 2861—Modification of Department of Defense Guidance on Use of Airfield Pavement Markings

This section would require the Secretary of Defense to modify the Unified Facilities Guide Specifications for pavement markings, an Air Force engineering technical letter, and any other Department of Defense guidance on airfield pavement markings as necessary to permit the use of Type III category of retro-reflective beads. In addition, the Secretary shall develop appropriate policy to ensure that determination of the category of retro-reflective beads used on airfields is determined on an installation-by-installation basis based on local conditions and the life-cycle maintenance costs of the pavement markings.

Section 2862—Protection and Recovery of Greater Sage Grouse

This section would delay any finding by the Secretary of the Interior with respect to the Greater Sage Grouse under clause (i), (ii), or (iii) of section 4(b)(3)(B) of the Endangered Species Act of 1973 (16 U.S.C. 1533(b)(3)(B)) through September 30, 2025. In an effort to foster greater coordination between the States and the Federal Government regarding management plans for the Greater Sage Grouse, this section would prohibit the Secretary of the Interior and the Secretary of Agriculture from amending any Federal resource management plan applicable to Federal lands in a State in which the Governor of the State has notified the Secretaries concerned that the State has a State management plan in place. Lastly, this section would also require the Secretary of the Interior and the Secretary of Agriculture to jointly submit an annual report to the Committee on Natural Resources of the House of Representatives on the effectiveness of the systems to monitor the status of Greater Sage Grouse on Federal lands under their jurisdiction through 2021.

DIVISION C—DEPARTMENT OF ENERGY NATIONAL SECURITY AUTHORIZATIONS AND OTHER AUTHORIZATIONS

TITLE XXXI—DEPARTMENT OF ENERGY NATIONAL SECURITY PROGRAMS

LEGISLATIVE PROVISIONS

SUBTITLE A—NATIONAL SECURITY PROGRAMS AUTHORIZATIONS

Section 3101—National Nuclear Security Administration

This section would authorize appropriations for the National Nuclear Security Administration for fiscal year 2016, including funds for weapons activities, defense nuclear nonproliferation programs, naval reactor programs, and Federal Salaries and Expenses (formerly known as the Office of the Administrator), at the levels identified in section 4701 of division D of this Act. This section would also authorize a new plant project for the National Nuclear Security Administration.

Section 3102—Defense Environmental Cleanup

This section would authorize appropriations for defense environmental cleanup activities for fiscal year 2016, at the levels identified in section 4701 of division D of this Act.

Section 3103—Other Defense Activities

1 **SEC. 2862 [Log 60798]. PROTECTION AND RECOVERY OF**
2 **GREATER SAGE GROUSE.**

3 (a) DEFINITIONS.—In this section:

4 (1) The term “Federal resource management
5 plan” means—

6 (A) a land use plan prepared by the Bu-
7 reau of Land Management for public lands pur-
8 suant to section 202 of the Federal Land Policy
9 and Management Act of 1976 (43 U.S.C.
10 1712); or

11 (B) a land and resource management plan
12 prepared by the Forest Service for National
13 Forest System lands pursuant to section 6 of
14 the Forest and Rangeland Renewable Resources
15 Planning Act of 1974 (16 U.S.C. 1604).

16 (2) The term “Greater Sage Grouse” means a
17 sage grouse of the species *Centrocercus*
18 *urophasianus*.

19 (3) The term “State management plan” means
20 a State-approved plan for the protection and recov-
21 ery of the Greater Sage Grouse.

22 (b) PURPOSE.—The purpose of this section is—

23 (1) to facilitate implementation of State man-
24 agement plans over a period of multiple, consecutive
25 sage grouse life cycles; and

1 (2) to demonstrate the efficacy of the State
2 management plans for the protection and recovery of
3 the Greater Sage Grouse.

4 (c) ENDANGERED SPECIES ACT OF 1973 FIND-
5 INGS.—

6 (1) DELAY REQUIRED.—Any finding by the
7 Secretary of the Interior under clause (i), (ii), or
8 (iii) of section 4(b)(3)(B) of the Endangered Species
9 Act of 1973 (16 U.S.C. 1533(b)(3)(B)) with respect
10 to the Greater Sage Grouse made during the period
11 beginning on September 30, 2015, and ending on
12 the date of the enactment of this Act shall have no
13 force or effect in law or in equity, and the Secretary
14 of the Interior may not make any such finding dur-
15 ing the period beginning on the date of the enact-
16 ment of this Act and ending on September 30, 2025.

17 (2) EFFECT ON OTHER LAWS.—The delay im-
18 posed by paragraph (1) is, and shall remain, effec-
19 tive without regard to any other statute, regulation,
20 court order, legal settlement, or any other provision
21 of law or in equity.

22 (3) EFFECT ON CONSERVATION STATUS.—Until
23 the date specified in paragraph (1), the conservation
24 status of the Greater Sage Grouse shall remain war-
25 ranted for listing under the Endangered Species Act

1 of 1973 (16 U.S.C. 1531 et seq.), but precluded by
2 higher-priority listing actions pursuant to clause (iii)
3 of section 4(b)(3)(B) of the Endangered Species Act
4 of 1973 (16 U.S.C. 1533(b)(3)(B)).

5 (d) COORDINATION OF FEDERAL LAND MANAGE-
6 MENT AND STATE CONSERVATION AND MANAGEMENT
7 PLANS.—

8 (1) PROHIBITION ON MODIFICATION OF FED-
9 ERAL RESOURCE MANAGEMENT PLANS.—In order to
10 foster coordination between a State management
11 plan and Federal resource management plans that
12 affect the Greater Sage Grouse, upon notification by
13 the Governor of a State with a State management
14 plan, the Secretary of the Interior and the Secretary
15 of Agriculture may not amend or otherwise modify
16 any Federal resource management plan applicable to
17 Federal lands in the State in a manner inconsistent
18 with the State management plan for a period, to be
19 specified by the Governor in the notification, of at
20 least five years beginning on the date of the notifica-
21 tion.

22 (2) RETROACTIVE EFFECT.—In the case of any
23 State that provides notification under paragraph (1),
24 if any amendment or modification of a Federal re-
25 source management plan applicable to Federal lands

1 in the State was issued during the one-year period
2 preceding the date of the notification and the
3 amendment or modification altered management of
4 the Greater Sage Grouse or its habitat, implementa-
5 tion and operation of the amendment or modification
6 shall be stayed to the extent that the amendment or
7 modification is inconsistent with the State manage-
8 ment plan. The Federal resource management plan,
9 as in effect immediately before the amendment or
10 modification, shall apply instead with respect to
11 management of the Greater Sage Grouse and its
12 habitat, to the extent consistent with the State man-
13 agement plan.

14 (3) DETERMINATION OF INCONSISTENCY.—Any
15 disagreement regarding whether an amendment or
16 other modification of a Federal resource manage-
17 ment plan is inconsistent with a State management
18 plan shall be resolved by the Governor of the af-
19 fected State.

20 (e) RELATION TO NATIONAL ENVIRONMENTAL POL-
21 ICY ACT OF 1969.—With regard to any Federal action
22 consistent with a State management plan, any findings,
23 analyses, or conclusions regarding the Greater Sage
24 Grouse or its habitat under the National Environmental
25 Policy Act of 1969 (42 U.S.C. 4331 et seq.) shall not have

1 a preclusive effect on the approval or implementation of
2 the Federal action in that State.

3 (f) REPORTING REQUIREMENT.—Not later than one
4 year after the date of the enactment of this Act and annu-
5 ally thereafter through 2021, the Secretary of the Interior
6 and the Secretary of Agriculture shall jointly submit to
7 the Committee on Energy and Natural Resources of the
8 Senate and the Committee on Natural Resources of the
9 House of Representatives a report on the Secretaries' im-
10 plementation and effectiveness of systems to monitor the
11 status of Greater Sage Grouse on Federal lands under
12 their jurisdiction.

13 (g) JUDICIAL REVIEW.—Notwithstanding any other
14 provision of statute or regulation, this section, including
15 determinations made under subsection (d)(3), shall not be
16 subject to judicial review.



EXHIBIT E

SAGE-GROUSE DEAR COLLEAGUE LETTER

Congress of the United States
Washington, DC 20515

July 9, 2015

The Honorable Mac Thornberry
Chairman
House Armed Services Committee
2216 Rayburn Building
Washington, D.C. 20515

The Honorable John McCain
Chairman
Senate Armed Services Committee
228 Russell Building
Washington, D.C. 20510

The Honorable Adam Smith
Ranking Member
House Armed Services Committee
2216 Rayburn Building
Washington, D.C. 20515

The Honorable Jack Reed
Ranking Member
Senate Armed Services Committee
228 Russell Building
Washington, D.C. 20510

Dear Chairmen and Ranking Members:

We are writing in strong support for retention of Sections 2862 and 2865 contained in the House-passed National Defense Authorization Act for Fiscal Year 2016 (H.R. 1735) dealing with Protection and Recovery of the Greater Sage Grouse and the Lesser Prairie Chicken. These sections were adopted with strong bi-partisan support in the House of Representatives, and are supported by a large bi-partisan contingent of Governors in the West and Mid-West.

It is entirely appropriate that these issues be addressed within the context of the National Defense Authorization Conference Report. Unless these provisions are retained, the potential for onerous negative use restrictions on several military test and training ranges in 11 Western and 5 Mid-Western States caused by a formal listing under the Endangered Species Act (ESA) is very high.

During these difficult times of defense cuts, a formal ESA listing would impose nearly incalculable financial burdens on the services caused by certain delays in tests and training, potential overflight restrictions, as well as mandatory and costly continuous ESA Section 7 consultations and biological opinions imposed by the U.S. Fish and Wildlife Service. We must act to avoid repeating the military's negative experiences in past years with ESA restrictions caused by a formal listing of the Red Cockaded Woodpecker in the Southeast. The military impacts with a Sage Grouse or Prairie Chicken listing have the potential to be much greater and more widespread unless these Sections are retained.

PAGE 2:
July 9, 2015

We believe that Sections 2862 and 2865 represent a balanced approach to both conservation and preservation of these species, by allowing time for the affected States to implement and demonstrate their individual plans. These provisions further provide for annual monitoring and reporting to Congress on the state plans' successes or failures.

This approach is fully consistent with the ESA itself that requires the Secretary "to cooperate to the maximum extent practicable with the States." (16 U.S.C. 1535(a)). Indeed, within the ESA, Congress declared that the States should be encouraged to develop and maintain conservation programs to better safeguard the Nation's wildlife. Unlike the Federal Government, the States are implementing real plans to protect and conserve these species while also protecting the ability of the military to continue to use vital military test and training areas.

In conclusion, it is imperative that the final FY16 NDAA conference agreement retains these sections dealing with the Greater Sage Grouse and Lesser Prairie Chicken in support of State conservation plans. Thank you for considering our views.

Sincerely,

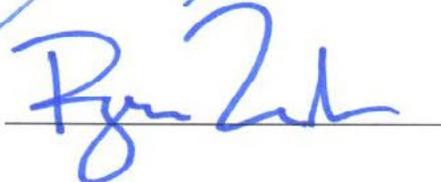




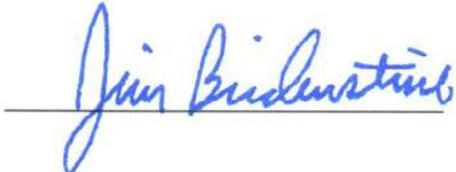












Ria B Love

Dan Depina

John D. [unclear]

Don Brinker

[unclear]

Paul A. Gosar
Steve Russell

Ch. Stewart

Bob Hill

Cathy McNamee-Rodgers

Frank V. [unclear]

Michael W. [unclear]

Crescent Hardy

[unclear]

Dil Poyee

Prin. Gabin

David Wehr FL-10

Jane Jones

Barbara

Roger Williams

Jim Wayne

Raul R. Sabador

Tom Wright
NO 83

Mark Shuman

Rodney Jones

Pat Tice

Tim Hackett

Harold Blackburn

Bill Lakin

[Signature]

Juhani Wahlsten

Bruce Cramer

Don P. Joyce

Markus Mullen

Randy Hyde

Wite Coffey

Don Brat

Evan H Jenkins

Alex K. Mooney WV-02

Keith J Rothfus

R. E. Jatto, OR-5

Jeffery Hill CA-25

John H. ...

Jim Huelkamp

[Signature]

Dan F. ...

Doug Collins



Steve King

J Se 10-15

Pa Jessy

Matt Shum

J. N. Ch...

John Hunsaker

Rene J. El...

David Penn

Steve Ch...

Don Young

Rich Ligon

Steve Under...

Gen M. Bilukin

Chris Collins

LW Bandy...

Lynn Jenkins

Jim Jordan

Rob Woodall

Bob E. Latta

[Signature]

Paul Steyer

Tim B. Huelskamp

Kevin Yoder

[Signature]

Eric Lipton

Bill Johnson

Bill Shuster

Austin Scott

Bill Huelskamp

Randy Hult

8 Holly

Greg Johnson

[Signature]

EXHIBIT F

*SPORTSMAN LETTER IN SUPPORT OF
CONGRESSIONAL ACTION TO PROTECT
STATE MANAGEMENT OF SAGE-GROUSE*

April 26, 2016

Dear Speaker Ryan,

As Sportsmen, Conservationists, Livestock Producers, and State Leaders we are writing to request that you include the Sage-grouse language set forth in H.R. 4793 as part of the 2017 National Defense Authorization legislation before Congress. These provisions protect out state ability to implement their Greater Sage-grouse conservation planning efforts and remedy unnecessary restrictions to the highly controversial and unnecessarily problematic Resource Management Plan Amendments (RMPs) implemented by the Bureau of Land Management and U.S. Forest Service.

While some special interest groups oppose sage-grouse protections of created by Western State's sage-grouse conservation efforts, we strongly support the collaborative efforts by broad coalitions in our state's to protect sage-grouse using balanced common-sense conservation efforts and address the needs of our citizens. These conservation measures are working. In fact, Sage-grouse total range-wide breeding populations have increased by 63% over the last two years with a total breeding population of 424,645 birds across 11-Western States.

Newly proposed BLM and Forest service plans threaten these conservation efforts. With a few exceptions, the new federal RMP amendments far exceed the common-sense measures developed by Western States. Notwithstanding the success of state conservation efforts, instead of collaboration, federal regulatory agencies:

- Refused to even include Western States Greater Sage-Grouse Conservation Plan in the federal alternatives,
- Implemented many excessive restrictions of access to use of public land; and
- Summarily dismissed Western State's requests consistency review.

Environmental activists are already threatening new rounds of litigation to challenge the most recent decision not to list the Greater Sage-grouse. In point of fact, this was the third listing determination in just the past decade. Providing a litigation safe-harbor through the appropriations process will allow states to implement their plans in ways that responsibly address Sage-grouse conservation concerns.

In conclusion, we strongly urge inclusion of the Sage-grouse language set forth in H.R. 4793 that protect state management and conservation efforts as part of the 2017 National Defense Authorization legislation before Congress. These provisions allow Western States to correct punitive features of the proposed RMPs and address the threat of unnecessary and unhelpful litigation by special interest activists. These important provisions protect the responsible and common-sense conservation measures by Western States.

BigGame Forever
The Hunters Heritage Council
Washingtonians for Wildlife Conservation
Citizens for Responsible Wildlife Management
Sportsmen for Fish and Wildlife
Utah Association of Counties
Utah Farm Bureau
Utah Cattlemans
Utah Bowman's Association
Cooperative Wildlife Management Units Association
Oregon Outdoor Council
Oregon Hunters Association
National Wild Turkey Federation - South Sound Longbeards
Columbia Basin SCI Chapter
Nevada Association of Conservation Districts
Nevada Farm Bureau Federation
Nevada Woolgrowers Association
Nevada Cattleman's Association
Nevada PJ Partnership
Nevada Mineral Resource Alliance
Oregon FNAWS
Oregon Rocky Mountain Elk Foundation
Extreme Elk Magazine
Colorado Outfitters Association
Washington for Wildlife
Leupold
Eastman's Hunting Journals
Speaker Scott Bedke-Idaho House of Representatives
Brad Little-Idaho Lieutenant Governor
Senator Bert Bracket-Idaho State Senate
Representative Marc Gibbs-Idaho House of Representatives
Commissioner Jerry Hoagland-Owyhee County, Idaho
Idaho Farm Bureau
Idaho Mining Association

Idaho Public Lands Council
CO Representative J Paul Brown
CO Senator Ray Scott
CO Representative Yuelin Willet
Colorado Mule Deer Association
Colorado Outfitters Association
Colorado Muzzleloaders Association
Colorado BigGame Forever
Colorado Trappers Association
Colorado Predator Hunters Association
Montana Guides and Outfitters Association
Montana Sportsmen for Fish and Wildlife
Montana BigGame Forever
Wyoming BigGame Forever
Teton County-WY BGF
Park County-WY BGF
Boulder County BGF-Colorado
Moffat County BGF-Colorado
Mesa County BGF-Colorado
Centennial Aurora BGF-Colorado
Weld County BGF-Colorado
Gunnison County BGF-Colorado
Safari Club International, the Inland Empire
Safari Club International, Central Washington Chapter
Inland Northwest Wildlife Council
Northwest Chapter SCI
SW Washington Chapter SCI
Seattle-Puget Sound Chapter SCI
Seattle Sportsmen's Conservation Foundation, and many more.
Borderline Bassin' Contenders
Capitol City Rifle/Pistol
Cascade Mountain Men
Cascade Tree Hound Club
Cedar River Bowmen
Edison Sportsmen's Club
KBH Archers
Kittitas County Field & Stream
NW Field Trial & Hound Association
North Flight Waterfowl
Northwest Sportsman's Club
Okanogan Hound Club
Pacific Flyway

Pateros Sportsman's Club
Paul Bunyan Rifle and Sportsmen's Club
Pheasants Forever Chapter #257
Pierce County Sportsmen's Council
Richland Rod & Gun Club
Ruffed Grouse Society
Skagit Sportsman and Training Association
Tacoma Sportsmen's Club
Vashon Sportsmen's Club
Washington Falconer's Association
Washington Game Fowl Breeders Association
Washington State Bowhunters
Washington State Hound Council
Washington Muzzleloaders Association
Washington State Trappers Association
Wenatchee Sportsmen's Association
Washington Waterfowl Association
Wildlife Committee of Washington
Oregon United Sporting Dogs Association
Oregon Safari Club International
Oregon Trappers Association
Oregon Falconers Association
Benchmade
Double U Hunting Supply
Oregon Pack Works
HEVI Shot
HECS Stealthscreen
Bullseye Camera Systems
Elk101.com
NW Predator Hunters
Oregon Duck Hunters
S2 Calls
HuntonXMaps
Dominic Aiello
Dr. John Menke (Professor Range Ecologist retired)
N-4 Grazing Board
Nevada BigGame Forever
Lincoln County Wildlife Advisory Board
Buckskin National Gold Mine
Eureka County Natural Resource Commission
Senator Don Gustavson-NV Chairman Natural Resources
Senator Pete Goicoechea-NV Senate District 19

Assemblyman John Ellison-NV District 33
Assemblyman Ira Hansen-NV District 32
Commissioner Demar Dahl-Elko County
Commissioner Julian Goicoechea-Eureka County
Commissioner Kevin S. Phillips-Lincoln County
J. Goicoechea-Nevada Land Action Association
John Uhalde-Ely Nevada
Bevan Lister-8 Mile Farms
David Stix-Stix Livestock
Dan Crowell-Eureka Veterinary Service
Jerry Sestanovich-Sestanovich Hay and Cattle
David A. Baker-Baker Ranches
S. Wallace Slough-Quinn River Crossing Ranch
Robert McDougal-Nevada Nile Ranch
Tony and Nancy Lesperance-Liberty Land and Livestock
Norman Frey-Fallon Nevada
Lura Weaver-Lyon County Nevada
Robert and Cassie Mason-Round Mountain Nevada
Carl F. Slagowski
Fred Baily-Diamond Valley, Nevada
Lincoln County Conservation District
John Falen-McDermitt, Nevada
Maggie Orr-Lincoln County
William Blackmore-BigGame Forever Washoe County
Michael Turnispeed-BigGame Forever Carson City, Nevada
Lilla and Woodie Bell-Paradise Nevada
Travis Miller-Jiggs, Nevada
Fred and Chris Steward
Gracian Uhalde-Ely, Nevada
Pete Paris
Ron Cerri-Orovada, Nevada
Kade Lee-Lincoln County, BGF
John Caviglia-White Pine County BGF
Bruce Allen-Clark County BGF
Eureka County Conservation District
Brenda Richards-Murphy, Idaho
Richard Savage-Savage Cattle
John Faulkner-Faulkner Land & Livestock
Bill Baker-Baker Environmental Consulting
John Biar-Western Rangeland Consulting Services
David Little-Little Enterprises
Red Eagle Technologies-Alabama

EXHIBIT G

*LEGAL MEMO: POTENTIAL IMPACT OF
FEDERAL SAGE-GROUSE MANAGEMENT
ON BIG GAME POPULATIONS*

M E M O R A N D U M

June 13, 2016

TO: Ryan Benson

FROM: Bill Myers

RE: Potential Impact of Federal Sage-Grouse Management on Big Game Populations

The federal government's recently announced sage-grouse management plans span some 165 million acres across ten western states. Sage-grouse and all other game species on these federal lands are property of the states and managed by the states as game animals. At the same time, the vast habitat for these animals is managed by the federal agencies. Thus, while the federal government does not own or control the game animals, it does control their habitat and becomes a de-facto manager of state wildlife through active management of their habitat.

The Bureau of Land Management ("BLM") within the Department of the Interior and the U.S. Forest Service manage nearly all sage-grouse and big game habitat on federal lands. The BLM recognizes the tension between state ownership of species and federal management of their habitat through regulations found at 43 C.F.R. Part 24. As stated in the regulations:

Since development [in 1970 of an intergovernmental policy statement on management of fish and wildlife resources], a number of Congressional enactments and court decisions have addressed State and Federal responsibilities for fish and wildlife with the general effect of expanding Federal jurisdiction over certain species and uses of fish and wildlife traditionally managed by the State. In some cases, this expansion in jurisdiction in established overlapping authorities, clouded agency jurisdictions and, due to differing agency interpretations and accountabilities, has contributed to confusion and delay in the implementation of management programs.

43 C.F.R. § 24.1(a).

This expansion of federal responsibility, overlapping authorities, and clouded jurisdictions is exemplified in the federal government's recent announcements regarding sage-grouse management. One of the important questions in this context is what effect the federal government's prioritization of federal rangelands for sage-grouse habitat will have on other species such as elk, mule deer, and pronghorn antelope that use the same habitat.

In the U.S. Fish and Wildlife Service's ("Service") 2010 finding that sage-grouse warranted listing under the Endangered Species Act ("ESA"), the Service addressed the effects of wild ungulate herbivory on sage-grouse. The Service found that "despite decreased habitat availability, elk and mule deer populations are currently higher than pre-European estimates." The Service then admitted its ignorance as to the effects of elk, mule deer, and pronghorn antelope grazing on sage-grouse habitat. The Service went on to note that concentrated game herds can have substantial localized impacts on sagebrush vigor and other key elements of sage-grouse habitat. *See* 75 Fed. Reg. 13942 (March 23, 2010). In its most recent decision to not list sage-grouse, the Service revisited the question of the impact of wild ungulates on sage-grouse habitat and stated again that it lacked information regarding the impact of big game species on sage-grouse populations. *See* 80 Fed. Reg. 59908 (Oct. 2, 2015). The Service's 2015 decision to not list sage-grouse as endangered or threatened under the ESA is predicated on the Service's announcement that it would conduct a sage-grouse status review in five years and that it could reopen the "not warranted" finding at any time based on its own research or that of outside parties that may at any time petition for reconsideration of the "not warranted" finding of 2015.

Big game advocates are rightly concerned that the anti-hunting groups could easily use the Service's analysis to reduce deer and elk populations. Anti-hunting groups will see this as an opportunity to produce studies for the Service intended to show that big game populations have a significant negative impact on sage-grouse habitat and therefore big game should be reduced. In the absence of any contrary studies, Fish and Wildlife Service would have to consider this new "science" in determining whether to reopen the question of listing sage-grouse under the ESA. The Service likely would call on BLM and the U.S. Forest Service to increase their "regulatory mechanisms" to control big game populations in order to avoid a listing.

Hunting advocates should not assume that control of deer, elk, and antelope populations will result in increased hunting opportunities. For example, wild horses are a significant problem for sage-grouse habitat as they, too, consume the same plants used by sage-grouse. Yet, there is no agency program to reduce wild horse populations through direct reduction. Instead, fertility control and sporadic roundups and relocations are the methods of choice. Even if hunting is chosen as a method to control big game populations, various control efforts would be mandated by the federal government through a federal agency decision or federal court order binding the federal agencies to act in the name of sage-grouse protection rather than simply enlisting the cooperation of state wildlife agencies to control wild ungulates populations through hunting. Again, an example can be found in the current system whereby predators threaten sage-grouse and yet, the federal government has not enlisted state game and fish agencies as partners in the reduction of predators through hunting opportunities.

In summary, federal prioritization of sage-grouse habitat over all other uses of federal lands, including big game hunting, may well result in big game herd reductions. Those reductions are not likely to come about through hunting. Rather, confusion and delay in state game management is the likely result, as recognized by BLM's own regulations.

EXHIBIT H

*SECRETARIAL ORDER 3533
JUNE 16, 2017*



THE SECRETARY OF THE INTERIOR
WASHINGTON

ORDER NO. 3353

Subject: Greater Sage-Grouse Conservation and Cooperation with Western States

Sec. 1 Purpose. The purposes of the Order are to: (1) enhance cooperation between the Department of the Interior (Department) and the States of Oregon, Washington, California, Nevada, Idaho, Utah, Montana, North Dakota, South Dakota, Wyoming, and Colorado (the Eleven Western States) in the management and conservation of the Greater Sage-Grouse (Sage-Grouse) and its habitat; (2) support a partnership with clearly defined objectives and roles for Federal and State entities responsible for Sage-Grouse management and conservation in order to sustain healthy populations of the species; and (3) establish a team to review the Federal land management agencies' Sage-Grouse plan amendments and revisions completed on or before September 2015.

Sec. 2 Authorities. This Order is issued under the authority of section 2 of Reorganization Plan No. 3 of 1950 (64 Stat. 1262), as amended, and pursuant to the land management and programmatic authorities of the bureaus identified below in section 4b.

Sec. 3 Background. The Department has broad responsibilities to manage Federal lands and resources for the public's benefit, including, but not limited to, permitting authorized uses; managing habitat to support fish, wildlife, and other resources; protecting cultural resources; and providing recreational and educational opportunities on Federal lands and waters.

The State agencies responsible for fish and wildlife management possess broad powers for the protection and management of fish, wildlife, and plants within their borders, except where preempted by Federal law. State agencies are at the forefront of efforts to maintain healthy fish and wildlife populations and to conserve at-risk species to ensure that protection under the Endangered Species Act (ESA) is not required.

The State-Federal Sage-Grouse Task Force (SGTF) was established in 2011 as a forum for high-level State and Federal representatives to meet and evaluate policies, programs, management actions, data sharing, and other actions affecting conservation of the Sage-Grouse and the sagebrush ecosystem, as well as the health of the communities and economies of the American West.

In September 2015, the Department and the United States Department of Agriculture (USDA) adopted amendments and revisions to 98 Bureau of Land Management (BLM) and U.S. Forest Service (USFS) land use plans across the Eleven Western States addressing, in part, the Sage-Grouse and its habitat (the 2015 Sage-Grouse Plans). The 2015 Sage-Grouse Plans govern management of 67 million acres of Federal lands. More than half of remaining Sage-Grouse habitat is on land managed by BLM and USFS. As the Department moves forward in the management of Sage-Grouse habitat, it is imperative that it does so in a manner that allows both

wildlife and local economies to thrive and incorporate the expertise of Federal employees in the field, local conditions, and proven State and local approaches.

In October 2015, in reliance upon the conservation commitments and progress reflected in Federal land use plan amendments and revisions and other private, State, and Federal conservation efforts, the U.S. Fish and Wildlife Service (FWS) determined that the Sage-Grouse did not warrant listing under the ESA. In making that finding, FWS committed to work with State and Federal partners to conduct a Sage-Grouse status review in 5 years.

Sec. 4 **Policy.**

a. Cooperation with the Eleven Western States on Sage-Grouse Conservation Efforts.

Consistent with governing laws, regulations, and policies, the Department will implement a multifaceted strategy to enhance cooperation with the Eleven Western States primarily responsible for the management and conservation of Sage-Grouse. The strategy will include supporting a partnership that allows the Department and the Eleven Western States to maintain healthy populations of Sage-Grouse and improve collaboration and integration of State and local concerns and approaches into sagebrush management and conservation on Federal lands. Accordingly, and subject to paragraph 4b, below, the BLM Director, working with other heads of bureaus and offices within the Department, USFS, and affected States through the SGTF, shall develop:

- (i) memorandums of understanding and other agreements with states and other partners regarding implementation of the 2015 Sage-Grouse Plans;
- (ii) training for BLM staff regarding implementation of the 2015 Sage-Grouse Plans, including direction to consider state and local information, as appropriate; and
- (iii) memorandums of understanding and other agreements with States and other partners regarding integration of information on Sage-Grouse populations into Federal land management decisions.

b. Department of the Interior Sage-Grouse Review Team.

This Order establishes the Sage-Grouse Review Team (Team). The Team will be made up of land managers and other professionals from bureaus and offices, including BLM, FWS, and the U.S. Geological Survey (USGS). The Team will closely coordinate with USDA and USFS. The Team will engage with appropriate State agencies through the SGTF to coordinate its work. The Team is hereby directed to conduct:

- (i) a review of the plans and programs that States already have in place to ensure that the 2015 Sage-Grouse Plans adequately complement state efforts to conserve the species;

(ii) a further examination, through the framework established by the Integrated Rangeland Fire Management Strategy, of issues associated with preventing and fighting the proliferation of invasive grasses and wildland fire, which are leading threats to Sage-Grouse habitat;

(iii) an examination of the impact on individual States disproportionately affected by the large percentage of Federal lands within their borders, recognizing that those lands are important to resource use and development, and to the conservation of the Sage-Grouse;

(iv) a review of the 2015 Sage-Grouse Plans and associated polices, including seven BLM Instruction Memoranda (IM) issued in September 2016. The review will include (1) identification of provisions that may require modification or rescission, as appropriate, in order to give appropriate weight to the value of energy and other development of public lands within BLM's overall multiple-use mission and to be consistent with the policy set forth in Secretary's Order 3349, "American Energy Independence," implementing the Executive Order signed by the President on March 28, 2017, "Promoting Energy Independence and Economic Growth"; and (2) opportunities to conserve the Sage-Grouse and its habitat without inhibiting job creation and local economic growth;

(v) as appropriate, the Team should provide recommendations with regard to (1) captive breeding; (2) opportunities to enhance State involvement; (3) efficacy of target populations on a State-by-State basis; and (4) additional steps that can be taken in the near term to maintain or improve the current population levels and habitat conditions.

Sec. 5. Implementation.

a. Within 10 days of the signing of this Order, the Deputy Secretary will designate individuals from within the Department to serve on the Team.

b. The BLM Director will designate an individual to coordinate all activities by and within the Department with respect to implementation of this Order.

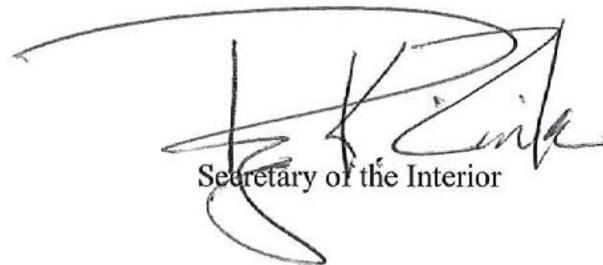
c. All bureaus and offices are directed to immediately begin implementing section 4 of this Order by identifying opportunities for cooperative management agreements and collaborative partnerships with the Eleven Western States and by outlining any specific steps to be undertaken.

d. Within 60 days of the date of this Order, the Team shall provide a report to the Secretary summarizing the review set forth in section 4b of this Order and provide recommendations regarding additional steps the Department should take to address any issues identified as a result of that review.

Sec. 6 Effect of Order. This Order is intended to improve the internal management of the Department. This Order and any resulting reports or recommendations are not intended to and

do not create any right or benefit, substantive or procedural, enforceable at law or equity by any party against the United States, its departments, agencies, instrumentalities or entities, its officers or employees, or any other person. To the extent there is any inconsistency between the provisions of this Order and any Federal laws or regulations, the laws or regulations will control.

Sec. 7 Expiration Date. This Order is effective immediately and will remain in effect until its provisions are accomplished, amended, superseded, or revoked, whichever occurs first.



Secretary of the Interior

Date: June 7, 2017

EXHIBIT I

*SECRETARIAL MEMO
AUGUST 4, 2017*



THE SECRETARY OF THE INTERIOR

WASHINGTON

AUG 04 2017

Memorandum

To: Deputy Secretary 
From: Secretary 
Subject: Improving the BLM's 2015 Sage-Grouse Plans

On June 7, 2017, I issued Secretary's Order 3353, "Greater Sage-Grouse Conservation and Cooperation with Western States" (Order). The Order was issued in response to concerns I have heard regarding the Bureau of Land Management's (BLM) 2015 Greater Sage-Grouse (Sage-Grouse) Plans. The Department of the Interior (Department) Sage-Grouse Review Team has completed the "Report in Response to Secretarial Order 3353" (Report) outlining short- and long-term recommendations as directed in my Order.

I hereby direct you to ensure implementation of the recommendations and direct BLM, in coordination with the U.S. Fish and Wildlife Service, U.S. Geological Survey, and other offices in the Department, to immediately begin implementing the short- and long-term recommendations in the Report. As part of this effort, the BLM should collaborate with the Sage-Grouse Task Force to engage with stakeholders and to improve the compatibility of the 2015 Sage-Grouse Plans with the States,¹ beginning with these actions:

- Identify options to incorporate updated habitat boundaries into habitat management areas;
- Clarify mechanisms to modify waivers, exceptions, and modifications in priority habitat management areas (PHMAs);
- Modify or issue new policy on fluid mineral leasing and development, including the prioritization policy;
- Issue or modify policy and provide training on use of assessment and monitoring data and tools, the habitat objectives table from the 2015 Sage-Grouse Plans and to increase flexibility in grazing management;
- Identify options for flexibility when applying adaptive management decisions;
- Investigate options to streamline use authorizations with little impact on the 2015 Sage-Grouse Plans;
- Clarify the appropriate use of compensatory mitigation and identify opportunities to increase consistency between the Federal and State plans;
- Work with the States to improve techniques and methods to allow the States to set appropriate population objectives; and
- Investigate the removal or modification of Sage-Grouse Focal Areas in certain States.

¹The States are California, Colorado, Idaho, Montana, Nevada, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming.

I am particularly interested in assisting the States in setting Sage-Grouse population objectives to improve management of the species. I also believe we should examine a program to enhance scientific research. Please report to my office periodically, and no less than every 6 months, on the progress you have made in implementing the recommendations from the Report.



United States Department of the Interior
BUREAU OF LAND MANAGEMENT
Washington, D.C. 20240
<http://www.blm.gov>



MEMORANDUM TO THE SECRETARY

DATE: August 4, 2017

FROM: Kathleen Benedetto, Special Assistant to the Secretary – BLM *Kathleen Benedetto*
John F. Ruhs, BLM Acting Deputy Director *[Signature]*
Co-Leads, Department of the Interior Sage-Grouse Review Team

SUBJECT: Response to Secretarial Order 3353

The Department of the Interior Sage-Grouse Review Team (DOI Team) submits the attached report in response to Secretarial Order 3353, “Greater Sage-Grouse Conservation and Cooperation with Western States” (June 7, 2017) (the Order). The DOI Team has coordinated with the Sage Grouse Task Force (SGTF) and the U.S. Forest Service to identify short and long term actions to meet the purposes of the Order. Since there is variation among the Bureau of Land Management (BLM) plans and among the State plans and programs, as well as with the resource issues and concerns in each State, each State has expressed interest in pursuing action on a different subset of the items included in the report. The DOI Team requests the Secretary direct the appropriate DOI bureaus to implement the recommendations and periodically report outcomes to the Deputy Secretary. The DOI Team recommends continued collaboration with the States, initiation of stakeholder engagement, implementation of the short-term recommendations, and investigation of potential plan amendments, beginning with these actions:

- Identify options to incorporate updated habitat boundaries into habitat management areas;
- Clarify mechanisms to modify waivers, exceptions, and modifications in priority habitat management areas (PHMAs);
- Modify or issue new policy on fluid mineral leasing and development, including the prioritization policy;
- Issue or modify policy and provide training on use of assessment and monitoring data and tools, the habitat objectives table from the 2015 Greater Sage-Grouse (GRSG) Plans and to increase flexibility in grazing management;
- Identify options for flexibility when applying adaptive management decisions;
- Investigate options to streamline use authorizations with little impact on GRSG;
- Clarify the appropriate use of compensatory mitigation and identify opportunities to increase consistency between the Federal and State plans;
- Work with States to improve techniques and methods to allow the States to set appropriate population objectives; and
- Investigate the removal or modification of Sage-grouse Focal Areas in certain States.

Attachment: Report in Response to Secretarial Order 3353

REPORT IN RESPONSE TO SECRETARIAL ORDER 3353

I. EXECUTIVE SUMMARY

This report responds to the Secretary's Order 3353, "Greater Sage-Grouse Conservation and Cooperation with Western States" (June 7, 2017) (the Order). In response to the Order, the Department of the Interior (DOI) appointed a DOI Sage-Grouse Review Team (DOI Team)¹ to address the elements of the order and produce a report. In developing the report and recommendations, the DOI Team sought input from the Eleven Western States² identified in the Order and coordinated with the U.S. Department of Agriculture Forest Service (USFS). The DOI Team respectfully requests the Secretary of the Interior to direct the appropriate DOI bureaus to implement the recommendations and periodically report outcomes to the Deputy Secretary.

Together, the DOI Team, and managers and staff from the Bureau of Land Management (BLM), U.S. Fish and Wildlife Service (FWS), and U.S. Geological Survey (USGS), and the Sage-Grouse Task Force (SGTF)—made up of representatives of the Governors of each of the Eleven States—identified issues, options to address those issues, and next steps to implement the Order. The DOI Team and the SGTF are committed to a balanced approach that provides both responsible economic development and long term conservation of the Greater Sage-Grouse (GRSG)³. This commitment includes an interest by most States in retaining the 2015 GRSG Plans—using policy and clarifications initially to better align them with State plans and programs and to meet the purposes of the Order, while continuing joint engagement to further define consideration of potential targeted plan amendments. The Federal agencies and States are also committed to continue to work with partners to prioritize staff and funding to implement on-the-ground actions to conserve and restore GRSG habitat.

The DOI Team and the SGTF affirm that the issues and options identified in this report do not apply to each State, are not consensus opinions from all States, and are not "one size fits all." Pertinent issues and associated solutions should be tailored to each State's needs while ensuring conservation of the species. Whenever possible, the options identified by the DOI Team provide near-term opportunities to resolve concerns and issues and achieve the purpose of the Order, including development of policies, clarification, memoranda of understanding (MOUs), and training, many of which can be completed within 6 months (see Section IV and Appendix A). The DOI Team also identified longer term options, including potential plan amendments, which would be completed in accordance with applicable laws and policies (see Section IV and Appendix A).

¹ The DOI Team consists of co-leads Kathleen Benedetto, Special Assistant to the Secretary - BLM; John Ruhs, BLM Deputy Director of Operations; Casey Hammond, Special Assistant to the Secretary - Fish, Wildlife, and Parks; Gregory Sheehan, FWS Deputy Director; Anne Kinsinger, USGS Associate Director for Ecosystems; Cynthia Moses-Nedd, DOI Liaison to State and Local Government; Timothy Williams, DOI Deputy Director of External Affairs; Amanda Kaster, Advisor to the Secretary; and Vincent DeVito, Energy Counselor to the Secretary.

² The Eleven States are California, Colorado, Idaho, Montana, Nevada, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming.

³ It should be noted that the States of Idaho and Utah have pending challenges to the 2015 Sage-Grouse Plans. While these States participated in identifying issues related to the Federal plans, these States do not waive or concede any of their legal arguments. The Nevada Attorney General also filed suit and does not waive or concede Nevada's legal arguments. Similarly, the federal agencies do not waive or concede any of their legal arguments.

This report recommends continued collaboration with the States, including both through the SGTF and between each Governor's office and the respective Bureau of Land Management (BLM) State Director and USFS Regional Forester, as well as key BLM and USFS national-level Directors. This report also recommends engagement on the issues and options identified in this report with Congressional delegations, counties, local governments, and tribes, as well as with ranchers, industry, conservation groups, and other stakeholders. This additional engagement would be used to refine the options and develop a plan for prioritized implementation of the options in this report.

The review conducted in response to the Order identified many opportunities, summarized in this report, to clarify the BLM's management under the 2015 GRSG Plans. Clarifications, policies, agreements, or training could: (1) address issues related to habitat assessment and monitoring, including the Habitat Assessment Framework, and grazing management; (2) take advantage of flexibility in the 2015 GRSG Plans to support energy, mineral, and other development; (3) increase consistency between the BLM and States on density and disturbance caps and mitigation; and (4) in some cases, allow adjustments to habitat boundaries and address issues with adaptive management.

The review also identified longer term options to consider some issues through a potential plan amendment process. This report recommends further investigation of potential plan amendments, including considering what combination of potential plan amendments would best balance continuing to conserve the GRSG and its habitat and supporting economic development, and whether to consider State-by-State or range-wide amendments. Potential plan amendments could be considered in some States to remove or modify sagebrush focal area (SFA) designations; address adjustments to habitat management boundaries; adjust responses to reaching adaptive management triggers; evaluate the compensatory mitigation standard; and provide additional flexibility in resource development.

The report identifies opportunities to improve coordination on fire, fuels, and invasive species management and to develop MOUs, increase data sharing, initiate new research, and incorporate new information into plan implementation. The report also includes recommendations on captive breeding, translocations, predator control, and setting population targets.

II. BACKGROUND

The GRSG is a State-managed species throughout its range with approximately half of its habitat managed by the BLM and USFS. State-led efforts to conserve the species and its habitat date back to the 1950s. For the past two decades, State wildlife agencies, Federal agencies, and many others in the range of the species have been coordinating efforts to conserve GRSG and its habitat.

In 2010, the FWS found that the GRSG was warranted for listing under the Endangered Species Act (ESA) but precluded from listing due to other species with higher listing priority. In the 2010 finding, the FWS identified habitat loss and fragmentation and lack of regulatory mechanisms as the primary threats. In 2012, the FWS, in collaboration with the States, led an effort to identify conservation objectives for GRSG and its habitat. The Conservation Objectives Team report,

released in 2013, identified objectives for 14 potential threats to the GRSG including: fire, nonnative invasive plants, energy development, sagebrush removal, improper grazing, range management structures, wild horses and burros, pinyon-juniper expansion, agricultural conversion, mining, recreation, urbanization, infrastructure, and fences.

The BLM and USFS initiated land use planning processes to provide regulatory certainty in addressing the threats of habitat loss and fragmentation on Federal lands to conserve the GRSG and its habitat, avoid further population declines, and avoid the need to list under the ESA. Early in the process, the BLM and USFS collaborated with the States to pursue State-by-State land use planning. These State-by-State approaches were supplemented with range-wide decisions to increase consistency between the 2015 GRSG Plans and to respond to the issues addressed in the FWS's 2010 listing determination. Several States identified instances in which they did not believe the final approved BLM 2015 GRSG Plan was consistent with the applicable State plan, particularly with regard to range-wide decisions. There were also concerns that the records of decision and final approved 2015 GRSG Plans included decisions from alternatives other than the proposed alternative (as described in the proposed plans and final environmental impact statements) and therefore differed from the State's expectations based on the collaborative planning efforts.

In September 2015, the BLM and the USFS adopted amendments and revisions to 98 land use plans (2015 GRSG Plans) across the ten⁴ Western States addressing, in part, GRSG and its habitat. In September 2016, the BLM issued seven instruction memoranda (IMs; IMs 2016-139 through 2016-145) to provide guidance on certain elements of the 2015 GRSG Plans.

In October 2015, relying upon the conservation commitments and progress reflected in the 2015 GRSG Plans and other private, State, and Federal conservation efforts, the FWS published its determination that the GRSG did not warrant listing under the ESA. In making that finding, the FWS determined the 2015 GRSG Plans provided certain and effective measures for conservation of the species. The FWS also committed to work with State and Federal partners to conduct a GRSG status review in 5 years to determine if plan implementation was indeed conserving the GRSG and its habitat.

The BLM, USFS, Natural Resources Conservation Service (NRCS), FWS, State agencies, and other partners have been working collaboratively, to the extent practicable, to implement the Federal and State plans to conserve GRSG and its habitat. A particular focus has been placed on an all-lands approach, encompassing Federal, State, and private lands, to achieve habitat restoration, fire control, and fuels management. Through these efforts, hundreds of thousands of acres of sagebrush rangelands have been restored or are on their way to being restored.

III. PROCESS UTILIZED FOR REVIEW

In June 2017, the Acting BLM Director, the DOI Team, and DOI staff met with the SGTF to discuss the Order and establish a process for State input on the items identified in the Order. The BLM, FWS, and USGS managers and staff also began working with each State to gather

⁴ While Washington is included in the review for the Order, the majority of the State was not part of the 2015 GRSG Plans. A BLM land use plan that will include GRSG conservation for the Spokane District in Washington is currently under development.

information related to the Order, including State-specific issues and potential options for actions with respect to the 2015 GRSG Plans and IMs to identify opportunities to promote consistency with State plans. The SGTF developed an initial list of issues and refined those issues and options on a State-by-State basis while working with the respective BLM State Directors. In July 2017, the Federal agencies and the SGTF met twice to further refine and validate the issues and options presented in this report.

The following actions were also completed to address specific sections of the Order:

- Section 4b(i), (iii), and (iv) of the Order: Each BLM State Director worked with their Governor's office(s) to review State plans and programs and the 2015 GRSG Plans.
- Section 4b(ii): DOI staff worked with the SGTF and individual Governor's offices to further examine invasive species and wildland fire issues.
- Section 4b(v): The Western Association of Fish and Wildlife Agencies (WAFWA) developed and submitted to SGTF white papers on each of the topics described in this provision of the Order.
- DOI staff also worked with the SGTF and the individual Governor's offices to gather further information on data and science.

In these reviews, the need for MOUs and other agreements and training, as called for in Section 4a of the Order, and cooperative management and collaborative partnerships, as called for in Section 5c of the Order were also considered. These individual reviews were then rolled-up for further discussion with the SGTF and the DOI Team and staff. Based on these reviews, the SGTF and DOI Team identified issues, potential options, and next steps to include in this report in response to Section 5d of the Order.

IV. RECOMMENDATIONS

This section provides an overview of the issues identified and potential options to address those issues (see Appendix A), as well as recommendations on the topics of wildland fire and invasive species, wildlife management, and data and science (see Appendices B through D). Appendix E contains other issues identified that are not directly related to the 2015 GRSG Plans and that are not addressed in this report but may warrant further coordination between the BLM and the States. Appendix F contains white papers developed by WAFWA related to wildlife topics.

In regard to Washington, a new BLM land use plan for the Spokane District has not yet been issued. Based on the Order and the recommendations included in this report for the 2015 GRSG Plans, Washington and the BLM will review the BLM's preliminary draft plan to identify any further opportunities to increase compatibility with the State plan, address the elements of the Order, and consider issues and options included in this report. The BLM will work to issue the Spokane District draft plan for public comment as soon as practicable after this review is complete.

In discussions with the SGTF, there is general consensus that all partners are committed to effective and durable measures to provide for the conservation of GRSG to ensure there is no need to list GRSG under the ESA in the future. There is agreement that monitoring and reporting on conservation actions, habitat condition and trends, and economic development are essential. Such monitoring is key to demonstrate the effectiveness of State and Federal GRSG Plans in

addressing the threats, including habitat fragmentation, invasive species, and fire, as well as support for local economic opportunities and development.

This report includes short and long term approaches to address issues of concern through policy, clarification, and training (short term), as well as investigating potential targeted plan amendments (long term). Certain options are prioritized for further work to begin immediately, including: identifying options to incorporate updated habitat boundaries into habitat management areas; clarifying mechanisms to modify waivers, exceptions, and modifications in priority habitat management areas (PHMAs); modifying the fluid mineral lease prioritization policy; issuing or modifying policy and providing training on use of the habitat objectives tables from the 2015 GRSG Plans; identifying options for addressing hard trigger responses when applying adaptive management decisions; and researching the ability to streamline authorizations for activities with little or no impact on GRSG.

a. 2015 GRSG Plans and Policies (Addressing Sections 4b(i), (iii), and (iv) and 4a of the Order)

i. *Fluid Minerals (Stipulations, Waivers, Exceptions, Modifications, Leasing Prioritization) and Density and Disturbance*

There are multiple opportunities to be responsive to the Executive Order on “Promoting Energy Independence and Economic Growth” and the Secretarial Order on “American Energy Independence,” while continuing a robust commitment to the conservation of GRSG. A cooperative DOI and State effort can provide the flexibility for responsible economic growth and at the same time ensure conservation of GRSG habitat.

The areas of leasing prioritization and the PHMA stipulation’s waiver, exception, and modification language are suggested issues of focus for the BLM subsequent to the submittal of this report. Leasing prioritization options include policy clarification while developing the approach to revise IMs for leasing prioritization either nationally or State-by-State. For waiver, exception, and modification language for PHMA stipulations, options include investigating opportunities to provide additional waivers, modifications, and exceptions through policy or potential plan amendments, while adequately addressing the threats in the area, avoiding habitat loss or fragmentation, and ensuring effective and durable conservation, while providing for economic development.

For general habitat management areas (GHMAs), stipulations identified vary on a State-by-State basis. Options include developing State-specific policy or training to explain how to use existing flexibility or considering alternative stipulations.

For SFAs, longer term options include considering potential plan amendment(s) to modify or remove SFA fluid minerals stipulations.

The 2015 GRSG Plans define processes for calculating the amount of surface disturbance and the density of energy and mining facilities. The 2015 GRSG Plans recognized State processes, if they were in place prior to the plans being approved and if the data could be accessed to meet reporting requirements for density of development and acres disturbed and reclaimed. Some States have developed or are in the process of developing new tools

for density and disturbance calculations. For some States, there may be differences between the State plans and the 2015 GRSB Plans in the list of disturbances to count and the appropriate scale (project and biologically significant unit) where the disturbance and density caps should apply. Options include the BLM and the States identifying State-specific inconsistencies and evaluating the various processes and tools for (1) consistency between Federal and State approaches for calculating the amount of surface disturbance and the density of energy and mining facilities, (2) adequacy to conserve GRSB, and (3) the ability to report on disturbance associated with uses, as well as restoration actions that result in achieving conservation of the habitat.

ii. *Mitigation and Net Conservation Gain*

There are concerns that the mitigation requirements in the 2015 GRSB Plans (including the net conservation gain standard and the need for a clear definition of that standard) may differ from requirements in some of the State plans. The States prefer consistency between State mitigation standards and the BLM mitigation standard and a definition that encompasses the various standards the States have adopted. The DOI is currently reviewing its mitigation policies and may issue revised policy, including consideration of various mitigation standards, such as one-to-one ratio, equivalent value, no net loss, or other standards. It was recognized during the review that if the States have permitting authority that includes compensatory mitigation requirements, applicants for uses on public lands may need to meet both State and Federal compensatory mitigation requirements. The DOI Team and the SGTF agree that consistent application of the mitigation hierarchy (avoid, minimize, and compensate), including compensatory mitigation standards and other requirements between State and Federal plans, policies, and procedures, is desirable. Additional coordination on the approach to mitigation and standards is a priority.

In 2015, the SGTF formed the Sage-Grouse Mitigation Workgroup to develop a report to provide for greater certainty of implementing mitigation across the range. The report, “Greater Sage-Grouse Compensatory Mitigation,” was delivered to the SGTF in December 2016. The report identifies the key principles for successful compensatory mitigation efforts. This report may be helpful to further coordinate on mitigation. States have demonstrated, or are confident that as their mechanism(s) become available, that their mitigation approaches are or will be adequate to meet the principles in this mitigation framework while supporting economic development. States have indicated that compensatory mitigation to offset unavoidable impacts is an important tool, in addition to restrictions associated with avoid and minimize, to provide increased flexibility and options to authorize development and provide adequate conservation of the habitat.

In the short term, options identified to address concerns related to mitigation include defining “net conservation gain” and developing policy and MOUs with the States to ensure compensatory mitigation is commensurate with the project-specific residual impacts and coordinate and clarify options for use of each State’s approach when applying mitigation, including meeting the net conservation gain standard. Longer term options could include a potential plan amendment to consider changes to the Federal compensatory mitigation standard. Options to consider could include investigating using

the State standards; setting a Federal standard as a minimum and using the State standards if they are equal or higher than the Federal standard; or using the Federal standard on public land and the State standard on private or State lands.

iii. *Habitat Assessment, Habitat Objectives Tables, and Effectiveness Monitoring*

The SGTF and DOI Team discussed issues relating to confusion on the use and inconsistent application of the Habitat Assessment Framework (HAF); Assessment, Inventory, and Monitoring (AIM) data; other data; and the habitat objectives table that is included in each of the 2015 GRSG Plans. Clarifications on how information is collected and used will improve the way the BLM evaluates GRSG habitat and applies the data and habitat objectives tables to management decisions on public lands.

In the short term, options include providing additional training to field staff and partners on the use of HAF, AIM, other monitoring data, habitat objectives, and other tools and methods; revising the policies on habitat assessment and effectiveness monitoring as needed to clarify their use; and issuing new policy explaining how to use habitat objectives. Other short term options include investigating tools and methods to streamline gathering and reporting on habitats in good condition and focusing increased attention and time on degraded habitats or habitats at risk. In the longer term, new science and information may result in considering a potential plan amendment to revise the habitat objectives tables in the 2015 GRSG Plans to reflect best available science.

iv. *Adaptive Management*

The SGTF and DOI Team identified two main issues: (1) responses instituted to respond to tripping a hard trigger prior to causal factor analysis may not address the threat identified in the analysis; and (2) the inability to revert to previous management when conditions improve after tripping and responding to a trigger.

In the short term, an option is to develop policy to clarify the implementation of the adaptive management process, including conducting causal analysis when either a soft or hard trigger is reached. However, most concerns with adaptive management can likely not be addressed through policy. Long term options include potential plan amendments to consider (1) removing automatic hard trigger management responses when population or habitat recovers above the original condition (the condition prior to a trigger being reached), and more restrictive hard trigger management responses are no longer required to conserve the GRSG or its habitat; and (2) providing flexibility to identify appropriate management responses based on a causal analysis when a hard trigger is reached, while still ensuring a rapid response to catastrophic population or habitat losses.

v. *Livestock Grazing*

The SGTF and the DOI Team recognize that improper grazing is a threat to the conservation of GRSG, while proper grazing management is compatible with conserving GRSG habitat and, in some situations, may support or benefit habitat management. There is a perception of undue emphasis on livestock grazing in general, instead of a focus on improper grazing. Issues include how to prioritize and process grazing permits and

monitoring actions and provide additional flexibility in applying management appropriate to on-the-ground conditions at the BLM field office level.

In the short term, options include revising policy to: incorporate guidance on how to prioritize and complete grazing permit renewal and to emphasize where there are known impacts to GRSG habitat; clarify that habitat objectives are not used directly in permit renewal but instead are used to help inform land health (see Section IV(a)(iii) of this report); and clarify that thresholds and responses can vary in different habitat types. Additional short term options include developing a more collaborative approach with grazing permittees and other stakeholders and providing training to field staff and partners to ensure policy and existing procedures are correctly applied. Policies and training should clarify that proper livestock grazing is compatible with GRSG habitat and, in some cases, may be used to address threats to GRSG (e.g., controlling invasive exotic annual grass species). In addition, the BLM will continue to pursue (1) targeted grazing pilot projects to investigate the use of grazing to address excessive fuels and create strategic fuels breaks and (2) outcome-based grazing demonstration projects to investigate the use of flexible grazing permits to respond effectively to changing conditions while helping to improve habitat.

vi. ***Other Minerals, Energy, and Lands (e.g., rights-of-way)***

These discussions centered on four distinct topics: (1) concerns that broad exclusions and closure areas may not address the uses and associated threats to GRSG in a PHMA; (2) a need to clarify how to evaluate proposed actions in an avoidance area; (3) available flexibility on application of required design features (RDFs); and (4) lack of clarity on the application and size of lek buffers. The discussions varied according to the needs of each State, as there are complexities created by the various land ownership patterns (e.g., consolidated Federal ownership vs. scattered Federal ownership).

Options include evaluating each State's approach to identify how it differs from each 2015 GRSG Plan and to consider whether the State's mechanism, including compensatory mitigation, could adequately address the threats in the area, avoid habitat loss or fragmentation, and ensure effective and durable conservation, while providing for economic development. For example, if gravel pits are in an area closed to that use, and the State's mechanisms for managing gravel pits, including compensatory mitigation, may provide equivalent assurance for conservation of the species and its habitat, then this topic should be further investigated.

The topics of how to implement land use authorizations in avoidance areas, the application of RDFs, and the use of lek buffers all share the need for additional clarity or training, including sharing lessons learned across jurisdictional boundaries. In the short term, options include providing clarifications and policy on how to evaluate proposed uses in avoidance areas and how to use existing flexibility in applying RDFs and buffers. This includes the consideration of State-proposed RDFs or buffers, as well as local conditions and other factors. The DOI Team also recommends additional research to (1) evaluate appropriate buffers for different uses and the effectiveness of various RDFs and (2) incorporation of new science into plan implementation as it becomes available.

- vii. ***Habitat Boundaries - Sagebrush Focal Areas and Habitat Management Areas***
Concerns were identified with: (1) whether SFA designations and their associated decisions are necessary in some States or if underlying allocations (PHMAs, Important Habitat Management Areas, GHMAs, or others) and associated decisions are adequate to meet GRSG conservation, including effectiveness and durability; and (2) the BLM’s ability to adjust habitat management area boundaries and associated decisions to incorporate revised habitat mapping by States. States regularly refine habitat maps delineating GHMAs and PHMAs through on-the-ground verification and incorporation of new information, and the concern was expressed that the 2015 GRSG Plans may not provide the flexibility to incorporate these updates.

In the short term, options include investigating each 2015 GRSG Plan to determine if there is flexibility to adopt revised habitat maps from the States to adjust habitat management area boundaries and develop a process and criteria for evaluating and adopting future habitat mapping corrections, which may include considering potential plan amendments in some States. In the long term, options include potential plan amendments to evaluate the need to remove or modify SFAs allocations in some States, including whether to retain, modify, or remove associated SFA management actions to achieve effective and durable GRSG conservation.

b. Wildland Fire and Invasive Species (Addressing Sections 4b(ii) and 4a of the Order)

Pursuant to the Order, the DOI Team examined the “Integrated Rangeland Fire Management Strategy” (IRFMS) to identify issues associated with preventing and controlling the proliferation of invasive grasses and wildland fire, including seeking feedback from States. Recommended additional steps are outlined in Appendix B.

The IRFMS provides a comprehensive approach to reduce the size, severity, and cost of rangeland fires, address the spread of cheatgrass and other invasive species that exacerbate the threat of fire, position fire management resources for more effective rangeland fire response, and restore burned rangelands to healthy landscapes. Feedback from the States and WAFWA demonstrated a strong history of Federal and State collaboration surrounding the goals and actions in the IRFMS.

The following recommendations will further enhance the implementation of the IRFMS:

- Continue to complete action items from the IRFMS; support ongoing State-led efforts, including the WAFWA “Sagebrush Conservation Strategy” and the Western Association of State Departments of Agriculture (WASDA) “Western Invasive Weed Action Plan”; implement the “National Seed Strategy for Rehabilitation and Restoration”; and implement action items from the Western Governors Association National Forest and Rangeland Management Initiative.
- Increase collaboration and outreach, including support for the SageWest communications initiative, joint prioritization and funding of projects, support for rangeland fire protection associations (RFPAs) and rural fire departments (RFDs), establishment of wildfire protection agreements, and support for the “National Cohesive Wildland Fire Management Strategy.”

- Conduct research and field trials to further streamline and increase success in restoration and fuels management activities, including pursuing new biocides and herbicides, accelerating Environmental Protection Agency registration and land management agency use of new tools, and investigation and use of targeted grazing.
- Work with the DOI and Congress to reinstate authorities to provide equipment to State and local cooperators for firefighting.
- Enhance multijurisdictional funding of projects on public and private lands and commit to multiyear funding of projects to increase likelihood of success.
- Complete risk-based budget allocation adjustments in the DOI to ensure fire and fuels funding is allocated to high-risk/high-value areas, including increasing the BLM's fire and fuels budget to be in line with identified fire risk to public lands.

c. Wildlife Management (Addressing Sections 4b(v) and 4a of the Order and Other Requests by the DOI Team)

As a State trust species, individual States exercise their authority to manage and conserve GRSG according to their own laws and policies. In response to the Order, the WAFWA developed four technical white papers (Appendix F) to summarize the current scientific literature and management experience on the issues of: (1) captive breeding, (2) population objectives, (3) predator control, and (4) hunting. As recognized by the Order, it is the prerogative of each individual State to conserve and manage State trust species and, thus, to determine whether a Statewide population target is appropriate and whether any of these management tools should be implemented within the respective States. In support of setting population targets, the DOI Team recommends support for developing tools and techniques to estimate and set population objectives, including (1) a State/Federal/academic partnership that is working to develop and refine techniques to better estimate range-wide populations over the next two years; and (2) USGS-supported research to improve the ability to find new leks, understand the percent of leks not counted because they are unknown, and increasing the accuracy of counts once leks are detected.

- i. Captive breeding, as a wildlife management tool, is best suited to augmenting small, at-risk populations for short periods of time, while factors contributing to population declines are simultaneously addressed. Because captive breeding of GRSG has not yet proven effective, requires expenditures that would limit funding availability for other priority efforts and may require the removal of potentially viable eggs from the wild, further work is needed to fairly evaluate captive breeding. The DOI Team recommends that new captive breeding efforts continue to be investigated to improve effectiveness.
- ii. While State wildlife agencies set population objectives routinely for big game and/or large carnivores based on species biology, landowner tolerance, public safety, habitat availability, and social factors, most States do not routinely establish Statewide population targets for avian species like GRSG. GRSG populations respond to climate, weather, and habitat conditions at different and, often, very fine scales. Thus, GRSG numbers vary widely in a relatively short period of time, within individual States and across the range. States manage GRSG, in part, based on male lek counts as an indicator of habitat availability, condition, and other factors. While States support efforts to

estimate and explain populations, fluctuations, and trends, any such effort must recognize and account for the relationship between the species and its habitat. Further, any population metric would have to reflect the natural range of variability, include confidence intervals, and be tied to habitat availability. Ultimately, the best method for determining GRSG viability will be to assess a combination of habitat availability and populations, which are inseparable. The DOI Team recommends that establishing a Statewide or range-wide GRSG population objective or target should be pursued.

- iii. The primary issue relative to predation is the recent emergence of predation by species with which GRSG either did not evolve or did not confront in current numbers. Among these are corvid species, such as ravens. Excessive predation by avian and/or mammalian predators may be occurring in localized settings but is not a uniform pressure across the landscape or range-wide. Localized predation can be a significant threat for small, isolated, or reintroduced populations. Even in those circumstances, however, predator control should be simultaneous with efforts to address the underlying reasons for predator population growth or concentration in localized areas of concern for GRSG. Control of multiple factors that provide predator subsidies, such as open landfills or unneeded infrastructure that provides nesting or perching sites, is a low-cost, sustainable strategy. The SGTF requests the DOI work with the States to investigate options for corvid control, including streamlining approval and reporting requirements in compliance with current law and international treaties. It is important that predator control efforts be evaluated for effectiveness to inform future decisions about how to prioritize available funding.
- iv. Hunting is an adequately regulated activity managed by States to avoid additive mortality (above and beyond natural annual mortality) so that it does not contribute to population declines. Common techniques implemented by States include short seasons, low limits of take, and permit-only hunt systems. Harvest strategies in many States can be considered more conservative than guidelines suggest. In addition to these conservative strategies, providing hunting opportunities, when appropriate and sustainable, provides an avenue to better help support the use of Pittman-Robertson wildlife restoration grant funding. In turn, this supports a multitude of conservation efforts related to GRSG, including inventory and monitoring, local conservation planning and project implementation, and research, among other endeavors, that provides States with much needed information on the status of the species.

Appendix C provides a summary of potential next steps for wildlife management.

d. Data Management and the Use of Science (Addressing Section 4a of the Order and Other Requests by the DOI Team)

Addressing priority science needs of managers and sharing high-quality science and information, including locally collected monitoring and assessment data, among all entities can further the application of a data-driven approach to the conservation and management of GRSG and the sagebrush ecosystem. Continued development and integration of local data and information, peer-reviewed science, and other high-quality information forms the

foundation for management decisions and identifies the need for new science and information. Attributes to assess the quality and reliability of new science and information include peer review, repeatability of methods and analyses, strength of evidence, and relevance to local conditions.

Increasing opportunities and reducing barriers for sharing science, information, and data can help facilitate ongoing GRSG and sagebrush management efforts. Data sharing currently is conducted through multiple mechanisms including one-on-one communication, agency-to-agency agreements, and online data catalogs (both public and private). Updating information sharing processes and procedures across organizations can improve the use of new information, increase the use of shared information during decision-making processes, reduce the potential for conflicting decisions for similar issues, and provide opportunities for inclusion of local and traditional ecological knowledge.

Following a review of submitted input and ongoing conversations with States, the DOI Team makes the following recommendations to increase the use of science and reduce barriers to data sharing (see also Appendix D):

- Implement the “IRFMS Actionable Science Plan.”
- Coordinate research efforts among agencies and organizations, including science needs related to human dimensions and economics.
- Develop processes to use data from a variety of sources including peer-reviewed journals, agency data, and locally collected partner information.
- Work to provide policymakers and managers with science and data in a form most useful to decision-making.
- Continue to emphasize the need for locally relevant science and data to inform implementation of management actions.
- Establish data standards and data sharing agreements, resolve barriers to data sharing, and improve procedures for maintaining and updating data.
- Develop methods to gather and use local and traditional ecological knowledge.

V. NEXT STEPS

In addition to recommendations on specific actions, the DOI Team recommends the following next steps:

- Reaffirm DOI and State commitments to the SGTF to assist in coordination of State and Federal sagebrush conservation activities. Review and update the SGTF’s charter as needed. Coordinate with individual States to determine the need for and, as appropriate, develop MOUs for plan implementation and mitigation.
- Work with the USFS to fully engage and evaluate the proposed recommendations in this report, considering the USFS’s unique plans and associated decisions, laws, and regulations. Work to align recommendations and future actions to the maximum extent possible.
- Continue to work with the States to further refine the options in this report and identify multistate or State-specific solutions as needed.
- In coordination with the SGTF, initiate additional discussions with Congressional delegations, counties, local governments, and tribes, as well as ranchers, landowners, industries, conservation organizations, and other interested parties, to review the issues

and recommendations included in this report, and identify any additional issues or recommendations for consideration. The DOI Team recommends that this outreach begin as soon as practicable after the report is submitted, continuing for approximately 2 months.

- Develop the evaluations, policies, and clarifications identified as short term options in this report to address improvements that can be quickly implemented. Continue to work with the States and other partners to identify other clarifications or policy approaches that could address and resolve issues. This work is recommended to follow the public outreach phase.
- Further evaluate whether clarification and policy actions sufficiently address the issues identified by the States and other partners or if additional actions should be considered. For longer term options that include potential plan amendments, further refine the issues and potential solutions, including evaluating State-specific solutions and assessing potential additive effects of the proposed changes and the continued ability to achieve conservation of GRSG. This work is recommended to follow the public outreach phase.
- Review input from other partners, and make any further adjustments to recommendations at the SGTF meeting scheduled after the public outreach phase (estimated October or November 2017).
- Review short term actions and evaluate the need for additional short or long term actions, including potential plan amendments as appropriate, in collaboration with the SGTF (estimated in January 2018).

APPENDIX A – 2015 GREATER SAGE-GROUSE PLANS AND STATE PLAN CONSISTENCY REVIEW

TOPIC AREA: OIL AND GAS STIPULATIONS, LEASING IM, DENSITY AND DISTURBANCE				
Issue	Discussion	Short-Term Option	Long-Term Option	Scale
Sagebrush focal areas (SFAs) and no surface occupancy (NSO) stipulations	Determine if SFA designations are required through further work with each State to evaluate whether general habitat management area (GHMA) and priority habitat management area (PHMA) stipulations already provide for the durable and effective conservation of the species.	Complete a crosswalk analysis with the States.	If PHMA/GHMA provide needed durability, potential plan amendment to consider eliminating or reducing the SFAs and changes to stipulations. May be State-specific outcome.	Multistate
General habitat management area (GHMA) stipulations (vary by State)	On a State-by-State basis, complete an evaluation of the GHMA stipulation to determine if a stipulation provides for the conservation of the species, incentive to develop outside of priority habitat management area (PHMA), and informs industry of expectations.	Clarify management flexibility in applying stipulations, and issue State-specific policy as needed; determine if a controlled surface use (CSU) stipulation could be changed without a plan amendment action.	Depending on outcome of short term recommendation, a potential plan amendment to consider changing the CSU may be appropriate.	Multistate (Utah in particular)
Priority habitat management area (PHMA) no surface occupancy (NSO) and waiver, exception, and modification (WEM) language	Work with the States to develop new WEM language for PHMAs, which recognizes the State’s mitigation hierarchy, maintains collaborative approach, and removes U.S. Fish and Wildlife Service (FWS) role in approving WEMs. Short term option to clarify which mechanism to modify WEMs is identified as an immediate action item. Then work with the States to engage with partners and stakeholders on the short term evaluation or potential adjustment process.	Determine if the modification of WEMs are plan maintenance or a plan amendment. Evaluate the efficacy of existing WEMs, and work with the States to adjust or add as necessary.	Depending on outcome of short term recommendation, a potential plan amendment to consider changing the WEMs may be appropriate.	Multistate

TOPIC AREA: OIL AND GAS STIPULATIONS, LEASING IM, DENSITY AND DISTURBANCE - CONTINUED

Issue	Discussion	Short-Term Option	Long-Term Option	Scale
<p>Lease prioritization instruction memorandum (IM)</p>	<p>Clarify to BLM staff that the plans currently allow leasing in all Greater Sage-Grouse habitat categories using GRSG plan lease stipulations.</p> <p>Short term option to clarify to staff leasing is not restricted in GRSG habitat. Identified as an immediate action item by some States.</p> <p>Rescind the national IM.</p> <p>Then issue State-level IMs to address recommended changes to national IM and include State-specific solutions.</p> <p>Short term option identified as an immediate action item by some States.</p>	<p>Clarify that all habitat types are open for leasing. Modify and reissue IM to address other concerns</p>	<p>None at this time</p>	<p>Multistate</p>
<p>Density and disturbance</p>	<p>There is variation between the States on what counts as a disturbance and towards a density cap, the level of disturbance that is allowed, and the scales the caps apply to (project or biologically significant unit - BSU). There is a need for a consolidated (BLM/State) process so industry knows where to start and the steps to follow.</p> <p>On a State-by-State basis, develop a crosswalk to explore the potential to develop a density and disturbance process that recognizes State-specific issues and needed flexibilities.</p> <ul style="list-style-type: none"> • Include recommendations based on science for the difference in calculation of the cap, or what counts for disturbance and density, and the appropriate scale (e.g., project or BSU). 	<p>Rescind the National IM, and develop BLM State-specific IMs that include all habitat types are open for leasing and other State-specific concerns.</p> <p>If no inconsistencies, then solidify through BLM State-level IMs and MOUs to share disturbance data.</p> <p>Clarify/train staff and partners on what types of disturbances are included in the calculation.</p> <p>In cooperation with the State, investigate opportunity to accelerate restoration and recovery efforts in areas in which the caps are being approached.</p>	<p>If the BLM State-level IMs do not address the issues, then consider a potential plan amendment to address concerns.</p> <p>If inconsistencies, then resolve through using best available science and/or initiate new research to further clarify disturbance and density requirements for different types of uses, which may require future consideration of a plan amendment process.</p>	<p>Multistate</p>

TOPIC AREA: MITIGATION AND NET CONSERVATION GAIN				
Issue	Discussion	Short-Term Option	Long-Term Option	Scale
Inconsistent mitigation standards	<p>BLM plans have a net conservation gain standard while the State mechanisms have adopted differing standards. There is confusion on the definition of net conservation gain. The States wish to use the State mitigation approach to achieve a seamless mitigation standard and approach across State, private, and Federal lands. States have various definitions for their mitigation standard including net gain, habitat assurance, no net loss, no net loss with conservation benefit, and others. Many of the State standards also account for the risk of the action to achieve the desired environmental benefit.</p> <p>Removing the net conservation gain language creates issues for some States as they have adopted that language as the standard for their State mitigation mechanism.</p> <p>States want to apply mitigation actions on Federal lands while meeting the mitigation principles in the Sage-Grouse Task Force (SGTF) GRSG compensatory mitigation report.</p> <p>Recognize that Federal land users must also comply with State requirements, when applicable.</p> <p>Recognize that the DOI is currently reviewing its mitigation policies, including the compensatory mitigation standards and may issue revised policy, including consideration of a 1:1 ratio, equivalent value, no net loss, or other standard.</p>	<p>Define net conservation gain for the BLM plans.</p> <p>Evaluate and document each State's mitigation approach to determine if it meets the intent of net conservation gain.</p> <p>Consider policy on options to use the State's mitigation standard if it meets the intent of the mitigation standard in the GRSG plans.</p>	<p>If policy does not address the concern, then consider a potential plan amendment to change the net conservation gain standard. Options to further evaluate could include using each State's standard (may vary by State), setting a minimum standard for public lands and using the State standard if it is higher, or setting a standard for public lands while the State standard applies to State and private lands.</p> <p>Evaluate need for plan modifications to comply with DOI policy on mitigation.</p>	Multistate

TOPIC AREA: MITIGATION AND NET CONSERVATION GAIN - CONTINUED

Issue	Discussion	Short-Term Option	Long-Term Option	Scale
State mitigation plans	Use the State mechanisms that conform to the SGTF, Sage-Grouse Mitigation Report to ensure consistency and application of mitigation requirements including the use of debit and credit calculations.	<p>Complete an MOU with each State on application of the State mitigation approach if it is consistent with the BLM plans and meets the principles in the SGTF Mitigation Report and DOI policy</p> <p>If MOUs do not address the issues, develop policy providing direction on how to use each State's mitigation approach.</p>	None at this time	Multistate
Regional mitigation strategies	In coordination with the States, determine where mitigation should occur based on what would be most beneficial for the species.	Include in the State Mitigation Plan MOU.	None at this time	Multistate

TOPIC AREA: HABITAT ASSESSMENT FRAMEWORK, HABITAT OBJECTIVE TABLE EFFECTIVENESS MONITORING				
Issue	Discussion	Short-Term Option	Long-Term Option	Scale
How are habitat objectives; plan effectiveness reporting; Assessment, Inventory, and Monitoring (AIM) data; and Habitat Assessment Framework (HAF) assessments related?	<p>Clarify how to integrate habitat objectives, land health standards, and land use plan effectiveness.</p> <p>Clarify how to use existing data, legacy data, and other monitoring efforts, specifically AIM and HAF during the land health standards evaluation and management decisions.</p> <p>Clarification on scales and the appropriate data for use at each scale.</p> <p>HAF and AIM are one piece of the puzzle; money and effort needs to be allotted to other monitoring as well.</p> <p>Issuance of policy identified as an immediate action item by some States.</p>	<p>Issue IMs to provide additional clarification and training on using habitat objectives to inform evaluation of land health standards; use habitat objectives at the land use plan scale to evaluate plan effectiveness.</p> <p>Continue outreach and training on use of AIM data in conjunction with other data and monitoring information.</p>	None at this time	Multistate
Implementation of the Habitat Assessment Framework (HAF)	<p>Clarify how the field should prioritize HAF assessments (e.g., areas that have hit soft or hard triggers, lesser quality habitat).</p> <p>Clarify how to integrate relevant studies and supplemental data with AIM and HAF into land health standards.</p> <p>Clearly articulate the use of HAF for all resource decisions, not just grazing.</p> <p>Integrate training, including how to determine if adequate data is available, with the BLM, other agencies, and States, including the Department of Agriculture.</p>	<p>Issue new HAF IM to clarify the purpose of the HAF and the relationship between AIM and HAF, as well as how these relate to the habitat objectives table.</p> <p>Internal and external training once this relationship has been clarified.</p>	None at this time	Multistate

TOPIC AREA : HABITAT ASSESSMENT FRAMEWORK, HABITAT OBJECTIVE TABLE EFFECTIVENESS MONITORING - CONTINUED

Issue	Discussion	Short-Term Option	Long-Term Option	Scale
<p>Implementation of the Habitat Assessment Framework (HAF) - Continued</p>	<p>Explore use of and continue the development of tools to streamline habitat assessments (e.g., remote sensing) for rapid assessment of habitat conditions.</p> <p>Issuance of new HAF IM identified as an immediate action item by some States.</p>	<p>Continue to learn from the pilot studies (e.g., Oregon State and Transition Model) and other tools to streamline habitat assessments, and advance or integrate outcomes into BLM's approach to HAF and related work through IM or other policy clarification and training.</p>	<p>None at this time</p>	<p>Multistate</p>
<p>Proper use of land use plan effectiveness data (AIM)</p>	<p>Provide transparency and ensure understanding of the intended use of AIM data. Review plan effectiveness policy to ensure that lessons learned are incorporated.</p> <p>Clarify that additional funding is set aside for AIM data collection so it is not taking money away from other monitoring efforts.</p> <p>Improve coordination between the National Operations Center (NOC) and field offices.</p> <p>Clarification was identified as an immediate action item by some States.</p>	<p>Issue clarification that addresses concerns; provide training.</p>	<p>None at this time</p>	<p>Multistate</p>

TOPIC AREA : HABITAT ASSESSMENT FRAMEWORK, HABITAT OBJECTIVE TABLE EFFECTIVENESS MONITORING - CONTINUED			
Issue	Discussion	Short-Term Option	Long-Term Option
Adjusting the habitat objectives tables	<p>Codify guidance issued on habitat objectives tables in an IM which clarifies the appropriate use, scale, and importance of the ecological site and the current ecological state of the monitoring site.</p> <p>Define a process to allow updates to habitat objectives tables as new information becomes available.</p> <p>Ensure objectives in habitat objectives tables are consistent with unique landscapes and habitat conditions (e.g., Utah captures variations through various delineations).</p> <p>Explore an option to match the habitat objectives with the States' plan, where available (not all States have quantitative objectives).</p> <p>Explore the possibility to remove the habitat objectives tables from the plans, and determine what would be required to address the habitat requirement, as described in 43 CFR 4180.</p> <p>Clarification was identified as an immediate action item by some States.</p>	<p>Policy and clarification on the intent, purpose, and use of habitat objectives tables, and flexibility provided in the plan and BLM processes to adjust the habitat objectives based on ecological site potential.</p> <p>Investigate opportunity for plan maintenance to further explain flexibility in plans.</p>	<p>Continue research on habitat requirements for GRSG, if new science warrants changes in habitat objectives beyond flexibility currently provided in plan. An amendment to consider updating habitat objectives may be appropriate.</p> <p>Multistate</p>

TOPIC AREA: ADAPTIVE MANAGEMENT

Issue	Discussion	Short-Term Option	Long-Term Option	Scale
Causal factor analysis	Work with States to identify a causal factor analysis process for both hard and soft triggers.	Work with each State to complete a process for causal factor analysis. Clarify in IM that causal factor analysis is required for hard and soft triggers. Evaluate plans to determine which do not have a “reversion” clause and whether each plan provides any flexibility to address through policy.	None at this time	Multistate
Reversion of trigger responses when conditions improve	Work with States on process to revert to previous management, or change the response based on positive habitat/population response.		Potential plan amendment to consider allowing reversion to less restrictive decisions when habitat/population recovers to above original trigger.	Multistate
Implementation of hard trigger responses	Work with States to develop a process to ensure responses to hard triggers are pertinent to the cause of the population or habitat decline. Short term option was identified as an immediate action item by some States.	Work with States on development of the process in the recommendation.	Potential plan amendment to consider options for alternative approaches to hitting a hard trigger, such as a temporary suspension of authorizations while causal analysis occurs and responses are developed, or implement hard trigger responses while causal analysis occurs and release those not needed to address the threat.	Multistate
Adaptive management policy (IM 2016-140):	Modify IM 2016-140 or issue BLM State-specific IM to address advance coordination with the States and partners beginning with Step 1 in the IM.	Modify the current IM.	None at this time	Multistate

TOPIC AREA: ADAPTIVE MANAGEMENT - CONTINUED

Issue	Discussion	Short-Term Option	Long-Term Option	Scale
<p>Research and data collection needs</p>	<p>Emphasize working with States and Federal partners to identify a rapid assessment process that could identify when a population or habitat trigger is being approached. Identify appropriate management actions to be taken immediately to address the decline in population or habitat and avoid the need to implement predefined plan adaptive management responses. Research could help identify multiprong impacts to populations.</p> <p>Clarify the requirements data. Must meet in order to be used to inform the causal factor analysis.</p>	<p><i>Defer to "Data Management and the Use of Science" topic in the report for recommendation.</i></p>		
<p>Sagebrush focal areas (SFAs) are inconsistent with the state plan</p>	<p>Clarify that adaptive management triggers should not be tied to SFAs in any way, and reiterate the habitat management hierarchy set forth in the Idaho State Plan.</p>	<p>Clarify triggers are not related to SFA boundaries.</p>	<p>Potential plan amendment to consider removing SFAs, as needed.</p>	<p>Idaho</p>

TOPIC AREA: GRAZING

Issue	Discussion	Short-Term Option	Long-Term Option	Scale
<p>Need to clearly articulate that proper livestock grazing is compatible with enhancing or maintaining Greater Sage-Grouse (GRSG) habitat.</p>	<p>Modify language to communicate that properly managed grazing is compatible with GRSG habitat. Focus on identified threats (fire and invasive species/fragmentation).</p> <p>Should not be spending a lot of time monitoring and inspecting allotments that are providing good quality sagebrush habitat.</p> <p>Incorporate guidance for potential use of livestock grazing as a tool.</p> <p>Incentivize stewardship and grazing practices that result in improved conditions for GRSG.</p>	<p>Revise and clarify IMs related to grazing. Clearly articulate that proper livestock grazing is compatible with and can be beneficial to manage for quality GRSG habitat.</p> <p>Revise prioritization IM to develop methods to quickly assess and report conditions on areas where proper grazing is occurring and supporting quality habitat, and focus on problem areas.</p> <p>Continue to move forward with targeted grazing and outcome-based grazing pilots to further demonstrate methods to use grazing to control fuels and improve habitat condition.</p> <p>Clarify existing policy and regulations that allow animal unit months (AUMs) to increase based on forage availability.</p>	<p>None at this time</p>	<p>Multistate</p>

TOPIC AREA: GRAZING - CONTINUED

Issue	Discussion	Short-Term Option	Long-Term Option	Scale
Causal factor analysis must be completed and grazing determined to be a causal factor prior to making changes to grazing permits.	Follow current process to complete a causal factor analysis prior to modifying grazing permit.	Reinforce/offer training on how to modify a permit as described in current guidance.	None at this time	Multistate
Sagebrush focal area (SFA) prioritization strategy	Incorporate flexibility in the allotment prioritization process.	Revise allotment prioritization IM. Develop a strategy to use existing data for a rapid assessment in SFAs.	None at this time	Multistate
Removal of livestock grazing from research natural areas (RNAs)	The Oregon Approved Resource Management Plans and Amendments (ARMPA) identifies key RNAs that will be unavailable to livestock grazing. While the general issue of research within RNAs, including with varying levels of livestock use, is not something Oregon opposes, the State Action Plan does not include having RNAs unavailable for grazing. The State is concerned about potential loss of animal unit months (AUMs), economic losses, allotments containing RNAs that are subject to livestock operators on grazing, especially if unsupported by indications of adverse habitat impacts caused by livestock grazing management.	Work with Oregon to evaluate RNAs and grazing closures.	To be determined based on outcome of short term option.	Single State (Oregon)

TOPIC AREA: GRAZING - CONTINUED

Issue	Discussion	Short-Term Option	Long-Term Option	Scale
<p>Voluntary grazing permit relinquishment and relationship to future grazing, grass banks, or other uses.</p>	<p>When grazing permits or leases are voluntarily relinquished or where allotments otherwise become vacant, current Oregon ARMPA language would make retirement of permits an option under these circumstances. The steps BLM takes pursuant to current and ARMPA-adopted language at the point in time following voluntary relinquishment or vacancy should not run counter to State interests in working lands and habitat health.</p>	<p>Ensure LG/RM 15 language in the Oregon ARMPA is consistent with regulation and as needed develop State-specific policy on its use.</p>	<p>To be determined based on outcome of short term option.</p>	<p>Single State (Oregon)</p>
<p>Habitat objectives table is too rigid and prescriptive to cover the broad range of landscapes in the West.</p>	<p>See <i>“Habitat Assessment, Habitat Objectives Tables, and Effectiveness Monitoring”</i> section in the report.</p>			
<p>Lek buffers for range improvements may be inconsistent with State plans.</p>	<p>See the <i>“Other Minerals, Energy, and Lands”</i> section in the report.</p>			

TOPIC AREA: EXCLUSION/AVOIDANCE LAND USE PLAN DESIGNATIONS

Issue	Discussion	Short-Term Option	Long-Term Option	Scale
Designation of exclusion areas may sometimes differ from the State's approach.	States take various approaches to what activities to exclude from certain habitat types and in their exemption processes. Working with State partners, evaluate if the States' plans would provide durable and effective conservation while providing exceptions to activities.	On a State-by-State basis, complete an evaluation of State approaches and plan flexibilities.	If short term flexibilities do not resolve concerns, evaluate a potential plan amendment to consider adjusting exclusion boundaries and/or evaluate different restrictions for different uses based on threats and impacts.	Multistate
Maintenance and production activities	Need to provide clarification that maintenance and production activities for already authorized uses are allowed in the plans.	Provide IM to allow for maintenance of existing development.	None at this time.	Multistate
Mineral materials sales (sand and gravel)	Allow mineral material sales in priority habitat management areas (PHMAs) under the use of the State's stipulations.	Conduct an evaluation of mechanisms to provide conservation while accommodating need for mineral material sales.	Based upon the evaluation, a plan amendment may be necessary.	Multistate
Valid existing rights	Need to clarify under what circumstances or how the plans recognize valid existing rights.	Provide clarification to staff, partners, and industry so there is a clear and consistent understanding of application of plan actions to valid existing rights and existing authorizations.	None at this time.	Multistate

TOPIC AREA: EXCLUSION/AVOIDANCE LAND USE PLAN DESIGNATIONS - CONTINUED

Issue	Discussion	Short-Term Option	Long-Term Option	Scale
<p>Misinterpretation of “avoidance” in the field</p>	<p>Need to develop training and policy to ensure consistent interpretation and approval of activities in an avoidance area (see Colorado and Nevada for examples) that allows activities with the application of the mitigation hierarchy.</p>	<p>Provide clarification for the definition of avoidance area including resources that use different terminology.</p> <p>Issue State-specific policy as needed to explain avoidance criteria and how to evaluate the need to provide exceptions to allow uses.</p> <p>Provide training for staff and partners for how to implement avoidance areas.</p>	<p>Determine if existing management flexibility on avoidance areas are adequate without a potential plan amendment.</p>	<p>Multistate</p>
<p>Plans do not recognize the State’s guidance that some activities are “de minimus” (negligible or no impact to GRSG).</p>	<p>Need to develop an approach that streamlines approvals for projects with negligible or no impact to GRSG.</p> <p>Long term option was identified as an immediate action item by some States.</p>	<p>Evaluate “de minimus” activities as defined in State plans, and evaluate against Federal plans, laws, and regulations.</p> <p>Determine if any tools are available for use in Federal processes to streamline approval of these activities.</p> <p>Possible development of templates and streamlined processes to standardize the evaluation of projects.</p>	<p>Development of programmatic National Environmental Policy Act (NEPA) documents to analyze the impacts for tiering of future projects.</p> <p>Identification of categorical exclusions for “de minimus” activities.</p>	<p>Multistate</p>

TOIPIC AREA: REQUIRED DESIGN FEATURES (e.g., TIMING AND TALL STRUCTURES)

Issue	Discussion	Short-Term Option	Long-Term Option	Scale
Need greater flexibility in using State-developed required design features (RDFs).	Need to streamline the process so that known and effective design features, outside those identified in the current plans, can be used without further analysis by the BLM. Design features selected should help to encourage development in lower quality habitat (e.g., in general habitat management areas instead of priority habitat management areas).	Clarify that the plans provide flexibility to select RDFs appropriate to project and to use other RDFs, including State RDFs, if they achieve equal or better conservation purpose.	None at this time	Multistate
Requirement to include discussion on all required design features (RDFs) in the project-level NEPA document	Need to allow the flexibility to only apply those design features that are appropriate to a project without having to justify why other design features were not used.	Evaluate need for templates and streamlined processes to standardize the evaluation of design features.	None at this time	Multistate
Lack of consistent application of required design features (RDFs) in the field.	Provide clarification to staff and external partners when and how to use RDFs (including timing and tall structures).	Provide guidance that RDFs are not a “one size fits all” and do not apply to all activities.	As evaluation of RDFs continues, a plan amendment may be considered to reflect which RDFs are commonly used, to align with measures in State plans, and avoid repeated consideration of RDFs that are never used.	Multistate

TOPIC AREA: LEK BUFFERS

Issue	Discussion	Short-Term Option	Long-Term Option	Scale
<p>Lek buffer distances are incompatible with State buffer distances for some types of development (e.g., range improvements).</p>	<p>Use the best available information to inform decisions in habitat, which could include using the lek buffer science as well as adjusting the size of the buffer based on local data and information.</p> <p>Suggest a two-step process of clarifying justifiable departures and then streamline the process using local information.</p> <p>Need to revisit the scientific literature pertaining to lek buffers ahead of initiating new science for buffers.</p>	<p>Provide clarification to staff and external partners regarding the use of lek buffers and justifiable departures. Evaluate each plan to ensure adequate flexibility to address project-specific information is available.</p> <p>Revisit the scientific literature pertaining to lek buffers.</p>	<p>If needed, initiate additional research to evaluate lek buffer distance requirements for applicable uses, and identify any potential changes to plans.</p> <p>If the developed policy does not provide the mechanism to address the issue, then evaluate a potential plan amendment or maintenance action to consider adjusting lek buffers based on new science and high quality information.</p>	<p>Multistate</p>
<p>Clarify how to apply lek buffers (e.g., distance for National Environmental Policy Act analysis vs. distance to restrict activities).</p>	<p>Provide clarification to staff and external partners for how the lek buffer appendix and record of decision (ROD) description should be used and to potentially adjust lek buffers noted in the plan based on project-specific information.</p>	<p>Develop policy to ensure consistent application and interpretation, and clarify language in ROD and plan.</p> <p>Evaluate need for templates, streamlined processes, and programmatic analysis to standardize the evaluation of lek buffers, including justifiable departures, in project-level analysis.</p>	<p>None at this time</p>	<p>Multistate</p>

TOPIC AREA: HABITAT MANAGEMENT BOUNDARIES (INCLUDING SAGEBRUSH FOCAL AREAS)

Issue	Discussion	Short-Term Option	Long-Term Option	Scale
<p>Sagebrush focal area (SFA) designations</p>	<p>Remove all SFAs and the management actions tied to SFAs. Short term option was identified as an immediate action item by some States.</p>	<p>Determine the habitat type and associated management actions that would be applicable to the area to ensure durable and effective conservation of the species.</p>	<p>Potential plan amendment to consider removing SFA designation and either replace SFA management actions with the underlying habitat type (e.g., PHMA, IHMA, GHMA) and associated management actions, or change those SFA management actions as described elsewhere in this table.</p>	<p>Multistate</p>
<p>Need flexibility to change priority habitat management area (PHMA)/general habitat management area (GHMA) boundaries.</p>	<p>Habitat is being updated regularly based on additional on-the-ground surveys and improved understanding of GRSG habitat needs. Plans do not provide the flexibility to adopt these new habitat areas and apply the appropriate management actions to those habitats. Add flexibility for future updates when new science would cause changes, such as during the 5-year plan review cycle. Short term option was identified as an immediate action item by some States.</p>	<p>Evaluate the ability to adjust PHMA/GHMA boundaries and associated management decisions to match revised habitat maps without a plan amendment. Develop policy on how to apply management decisions, such as stipulations, waivers, exceptions, modifications, exclusion and avoidance, etc., in areas where PHMA or GHMA plan allocations do not match habitat maps.</p>	<p>Potential plan amendment to consider aligning PHMA, GHMA, IHMA, etc., and associated management actions to revised habitat maps and develop criteria for making future adjustments (e.g., when habitat maps have been adjusted through on-the-ground surveys, improved understanding of habitat needs, etc.) to habitat management area boundaries.</p>	<p>Multistate</p>

TOPIC AREA: HABITAT MANAGEMENT BOUNDARIES (INCLUDING SAGEBRUSH FOCAL AREAS) - CONTINUED

Issue	Discussion	Short-Term Option	Long-Term Option	Scale
<p>General habitat management area (GHMA) is inconsistent with Utah's plan.</p>	<p>GHMA is unnecessary in Utah because the areas have few birds and leks and are already heavily impacted by development.</p>	<p>Evaluate the Federal plan to determine if durability and conservation of the species can be achieved without GHMA designations and associated GHMA management actions or with revised GHMA boundaries.</p> <p>Also, consider the application of the State mitigation plan to address concerns with habitat impacts in areas currently allocated as GHMA.</p>	<p>Based upon the short term outcome, may need to pursue a potential State-specific plan amendment.</p>	<p>Utah specific</p>

APPENDIX B – WILDLAND FIRE AND INVASIVE SPECIES ISSUES

TOPIC: WILDLAND FIRE AND INVASIVE SPECIES	
Issue/Comment	Recommended Additional Steps
Not all affected States provided feedback.	Incorporate additional information received from States and other stakeholders.
Continue to address challenges and barriers to wildfire and/or invasive species management, and provide recommendations to improve management.	Continue work on unfinished/incomplete/ongoing “Integrated Rangeland Fire Management Strategy” (IRFMS) action items. Complete the Western Association of Fish and Wildlife Agencies (WAFWA) “Sagebrush Conservation Strategy.”
Continue engaging other organizations in support of the “Integrated Rangeland Fire Management Strategy.”	Support Intermountain West Joint Venture and others to implement the “Sagebrush Ecosystem Communications Framework” (SageWest). Support development and implementation of WAFWA’s “Sagebrush Conservation Strategy.”
	Support the development and implementation of Western Association of State Departments of Agriculture’s (WASDA) “Western Invasive Weed Action Plan.”
	Support implementation of the “National Seed Strategy for Rehabilitation and Restoration.”
	Support the memorandum of understanding between the BLM, USFS, and NRCS to improve coordination with private landowners, and promote cross-boundary projects that address invasive species and wildland fire.
	Reinstate grant authority and authority to surplus excess equipment to cooperators.
Increase support to wildland fire cooperators.	Address the General Services Administration policy that prevents excess Federal firefighting equipment (e.g., engines, radios) from going directly to partners, such as rangeland fire protection associations (RFPAs) and rural fire departments (RFDs). Explore options for shared funded positions to enhance cooperative efforts (e.g., RFPA support). Continue to support and develop additional RFPAs.

TOPIC: WILDLAND FIRE AND INVASIVE SPECIES

Issue/Comment	Recommended Additional Steps
<p>Consider related Western Governors’ Association (WGA) efforts that enhance implementation of the “Integrated Rangeland Fire Management Strategy.”</p>	<p>Further action items in the WGA’s National Forest and Rangeland Management Initiative, such as: expanding good neighbor authority use; developing comprehensive (wildland fire) protection agreements; applying consistent fire operations best management practices; coordinating Federal, State, and local partners fire response in sagebrush rangelands; and flexibilities in grazing management.</p>
<p>Improve coordination with States on fuel/vegetation treatments, wildfire response, and post-fire recovery.</p>	<p>Promote increased coordination and collaboration, including through the framework in the “National Cohesive Wildland Fire Management Strategy.”</p>
<p>Ensure funding for fire, fuels, and restoration projects.</p>	<p>Explore options for multijurisdictional funding, multiyear funding, and shared funding across jurisdictional boundaries, including private and public lands for fuels/vegetation and post-fire recovery projects.</p> <p>Continue to move to a risk-based funding approach in the DOI. The risk-based funding modeling shows that the BLM receives substantially less funding in fuels and fire preparedness than its fire risk warrants. The BLM should be receiving between 65-75% of fuels and fire preparedness funding but is currently receiving only about 50%.</p>
<p>Streamline and improve restoration success.</p>	<p>Conduct research, testing, and implementation, particularly restoration projects (e.g., biopesticides and herbicides, seed coating technology, prescribed fire use).</p> <p>Continue investigating the use of targeted grazing and other tools to manage fuels and create fuels breaks.</p>
<p>Expedite use of emerging weed treatment technologies.</p>	<p>Work with appropriate Departments, agencies, offices, and companies to gain approval of concurrent Environmental Protection Agency (EPA) registration and field-testing of biopesticides and chemical herbicides to incorporate DOI-specific field testing needs into the early experimental testing conducted prior to registration. This would reduce the amount of time to use a pesticide or herbicide after receiving EPA registration</p>

APPENDIX C – WILDLIFE MANAGEMENT

TOPIC: WILDLIFE MANAGEMENT	
Issue or Need	Recommended Additional Steps
Captive breeding and population augmentation	<p>If captive rearing is pursued, efforts should use experimental design to build on already-available information and data, including addressing knowledge and data gaps, to effectively rear Greater Sage-Grouse (GRSG) in captivity for successful release or reintroduction into the wild.</p> <p>Adhere to all relevant State laws and other authorities for potential releases/reintroductions.</p>
Predator control	<p>Continue to communicate outcomes of past predator control efforts, including methods, species controlled, and the short- and long term results.</p> <p>Conduct additional research into both lethal and non-lethal predator control techniques.</p>
Population targets and species management	<p>Continue to support collaborative efforts with the States to develop rangewide, state-level, and local population estimates.</p> <p>Support development of a framework to assess GRSG population trends, determine biological effectiveness of management actions, and identify emerging issues to adaptively conserve the species and its habitat.</p> <p>Work collaboratively with the States and Federal partners to develop new or improve existing processes to evaluate GRSG population information, habitat conditions, and conservation efforts.</p>

APPENDIX D – SCIENCE AND DATA ISSUES

TOPIC: SCIENCE AND DATA ISSUES	
Issue/Comment	Recommended Additional Steps
<p>Address priority science needs, and increase opportunities for coordination and sharing of science and research efforts.</p>	<p>Implement the “Integrated Rangeland Fire Management Strategy Actionable Science Plan.” Actions include: coordination of research efforts (prioritization, funding, implementation, and analysis) among State and Federal agencies and other organizations; implementation of research efforts, as funding allows; and development of a tracking mechanism for publications and products.</p> <p>In collaboration with the Western Association of Fish and Wildlife Agencies (WAFWA) Sagebrush Science Initiative and other similar efforts, identify and prioritize science needs related to human dimensions and economics in the sagebrush ecosystem, and address prioritized science needs, as funding allows.</p> <p>Develop processes to receive, aggregate, and review monitoring data and other information from entities other than Federal or State agencies to ensure it meets quality, reliability, and relevance standards for use.</p> <p>Develop processes to receive, aggregate, and review monitoring data to identify new potential science needs that can be addressed using formal experimental or other scientific investigations.</p> <p>Work to increase development of information products that translate and synthesize peer-reviewed science into more accessible formats for decision-makers, and improve access to peer-reviewed science journals for those who need that level of information.</p> <p>Continue to emphasize the need for locally relevant peer-reviewed science, high-quality information, and local on-the-ground data that is pertinent to implementation of management actions.</p> <p>Evaluate use of the Sage-Grouse Task Force (SGTF) as the coordinating body for the intersection of science with policy and management and to identify priority science and data needs to inform management and policy.</p>

TOPIC: SCIENCE AND DATA ISSUES

Issue/Comment	Recommended Additional Steps
<p>Increase opportunities and reduce barriers to data sharing.</p>	<p>Establish data sharing agreements between Federal and State agencies, tribes, and other entities.</p> <p>Develop and maintain a multiagency directory of data stewards and technical experts to improve coordination and collaboration between Federal and State agencies, tribes, and other entities.</p> <p>Improve procedures for maintaining and updating data/information in a mutually developed data catalog(s), ensuring that nonproprietary/sensitive tabular or geospatial data can be shared and accessed.</p> <p>Increase use of common communications tools, such as SageWest and Great Basin Fire Science Exchange, to increase awareness of new information.</p> <p>Establish and communicate minimum data standards and information requirements for information included in shared data catalogs and information gathered by third party sources for potential inclusion in agency databases or use in decision-making.</p> <p>Identify multiscale spatial units that could be used to aggregate data to increase opportunities for use of information when raw data contains sensitive or proprietary information, when appropriate.</p> <p>Continue to work with the States and other partners to identify barriers to data sharing and options to remove those barriers.</p> <p>Work with the States and tribes to explore options to improve or develop data sharing mechanisms for capturing observations of species, as well as local and traditional ecological knowledge.</p>

APPENDIX E – OTHER ISSUES IDENTIFIED NOT SPECIFICALLY RELATED TO THE 2015 SAGE-GROUSE PLANS

OTHER ISSUES IDENTIFIED NOT SPECIFICALLY RELATED TO THE 2015 SAGE-GROUSE PLANS				
Issue	Discussion	Short-Term Option	Long-Term Option	Scale
Reserve common allotments	Reserve common allotments are a tool available on public lands that could be used to provide alternative locations for grazing permittees/leases when their allotment is unavailable due to fire, restoration activities, or other reasons. However, there are concerns that designation of allotments as reserve common allotments could take those allotments out of regular use and result in economic loss. Further investigation with the BLM, Sage-Grouse Task Force (SGTF), ranchers, and other stakeholders is warranted to determine if and how reserve common allotments should be considered.	Engage with the SGTF, counties, Public Lands Council, ranchers, and other stakeholders to determine if and how reserve common allotments should be used.		Multistate
Water rights	There is concern that the BLM may be managing water rights they do not own by limiting new water development projects and modifications to existing developments. This may be a result of conflict between State water laws and BLM policy, but this issue is not expressed in the 2015 Sage-Grouse Plans.	Provide further investigation and clarification, as needed.		Multistate: Utah, Idaho, Nevada
Changes in grazing management following natural events	Clarify options for changes in grazing management following natural events if continuation of grazing would result in loss of habitat. Provide flexibility at the state, district, or field level.	Provide further investigation and clarification, as needed.		Multistate
Wild horse and burro: appropriate management level (AML) achievement	Verify that the BLM has the tools and funding to achieve AML across the West. Evaluate priorities (e.g., Priority given to sagebrush focal areas (SFAs) potentially limits funding and staff to initiate gathers in priority habitat management areas (PHMAs)).	BLM state offices reassess their 3-5 year gather plans to validate AML will be met. Collaborate with States. Elevate unresolved issue to management.	Legislative solution and additional increased funding is necessary for long term resolution.	Multistate
Herd management areas and associated appropriate management level (AML) may need to be analyzed for adjustments	Implement solutions for reaching current AML prior to reevaluating herd management areas and AML.	Implement solutions to reach current AML.	Analyze boundaries and AML adjustments in the future once current AML is reached.	Multistate

APPENDIX F: TECHNICAL WHITE PAPERS FROM THE WESTERN ASSOCIATION OF FISH AND WILDLIFE AGENCIES

White Paper Titles

1. Augmenting Sage-Grouse Populations through Captive Breeding and Other Means (3 pages)
2. Population and Habitat-Based Approaches to Management of Sage-Grouse (2 pages)
3. Predator Control as a Conservation Measure for Sage-Grouse (2 pages)
4. Hunting Sage-Grouse, Impacts and Management (2 pages)
5. Literature Cited in WAFWA Tech. Committee White Papers on Predator Control, Captive Breeding and Population and Habitat Management

AUGMENTING SAGE-GROUSE POPULATIONS THROUGH CAPTIVE BREEDING AND OTHER MEANS

WESTERN ASSOCIATION OF FISH AND WILDLIFE AGENCIES

Augmentation of sage-grouse populations has been a management strategy used by state wildlife agencies in limited circumstances since the 1930s. Augmentation has been employed to bolster small and isolated populations, to re-establish populations in historic habitats, or to establish new populations. Augmentation for these purposes has been conducted through transplants of adult and yearling birds, usually trapped on or near leks. Reese and Connelly (1997) reviewed published literature and unpublished reports describing 56 transplants of 7,200 individual sage-grouse conducted in seven states and one Canadian province prior to 1997. They concluded only transplants in Colorado, Idaho, and Utah appeared successful, and populations remained small. More recently, Colorado Parks and Wildlife (CPW) has demonstrated some success enhancing genetic diversity of small populations by translocating Gunnison sage-grouse from a source population in the Gunnison Basin to smaller satellite populations. The Utah Division of Wildlife Resources coupled predator control with a transplant of sage-grouse into a population near Strawberry Reservoir with some success (Baxter et al. 2007).

Reasons for relatively low success rates for transplants are complex and not well documented or necessarily understood. Commonly, large post-release movements can lead to high mortality, and hens may not breed or attempt to nest in the spring following release. In general, if environmental conditions that precipitated sage-grouse declines have not been mitigated, transplants of additional and locally naïve birds is not likely to succeed. Refinements to transplant protocols to address these issues, such as supportive predator control (Baxter et al. 2007), artificial insemination prior to release (Mathews et al. 2016), and transplants of juveniles or yearlings are being incorporated in augmentations and will likely increase success rates.

Sage-grouse have been maintained, hatched and bred in captivity successfully, but only in research settings (Pyrah 1961; Johnson and Boyce 1990, 1991; Spurrier and Boyce 1994, Huwer 2004; Oesterle et al. 2005; Huwer et al. 2008; Thompson et al. 2015; Apa and Wiechman 2015, 2016). Sage-grouse captured in the wild do not adapt well to captive conditions (Ligon 1946, Pyrah 1961, Oesterle et al. 2005). Many adult, and to a lesser degree juvenile, sage-grouse brought into captivity are flighty and stressed, which leads to high mortality rates (Remington and Braun 1988, Oesterle et al. 2005, Apa and Wiechman 2015). Consequently, the most effective approach to establishing a captive breeding flock would start with collection and incubation of eggs from wild nests. Large-scale, programmatic captive breeding efforts have never been attempted for sage-grouse. Attwater's prairie-chicken, listed as endangered since 1967, are sustained through a captive breeding (at seven facilities) and release program facilitated by the U.S. Fish and Wildlife Service. They have effectively been extirpated from almost all of their former range and persist on about 200,000 fragmented acres.

There has only been one published study that evaluated survival of sage-grouse chicks produced in captivity and released to the wild (Thompson et al. 2015). In this study, 1-10 day-old sage-grouse chicks produced in captivity from wild-collected eggs were released to radio-marked hens with an existing brood. Adoption rates overall were 89%; releases in the evening and of chicks younger than 5 days were the most likely to result in successful adoption. Survival of adopted chicks was comparable to that of wild chicks. Although successful, this technique is limited to situations where surrogate hens with broods are available and locatable at short notice (i.e., radio-marked). A more generally applicable approach would be to raise chicks to 12-16 weeks old and release them when they are capable of surviving without a brood hen. There has been no research conducted on survival rates of juvenile (12-16 week old) sage-grouse raised in captivity and released to the wild. Colorado Division of Wildlife did successfully rear Gunnison sage-grouse chicks in captivity to 5- and 7- weeks post-hatch when they were released to the wild,

**AUGMENTING SAGE-GROUSE POPULATIONS
THROUGH CAPTIVE BREEDING AND OTHER MEANS**

however, none survived (T. Apa, pers. comm.). Survival of male and female wild juvenile sage-grouse in two study areas in Colorado was only 61% from 1 September to 31 March (calculated from Apa et al. 2017). Based on literature related to survival of juvenile ring-necked pheasant over-winter, survival of captive-bred juvenile sage-grouse is likely to be much lower than that of wild juveniles.

The number of sage-grouse or sage-grouse eggs needed to provide 50 sage-grouse for augmentation purposes (a relatively small number) at the beginning of the breeding season from translocation and captive rearing, and the number of birds or eggs required from source populations for each method can be estimated for illustrative and comparative purposes using published estimates of survival, hatchability, and re-nesting rates of wild hens (Table 1). A captive flock of 50 to 150 hens would be required to produce the 429-1,286 eggs needed to produce enough juveniles for release at 12 weeks of age that would result in 50 birds alive and able to breed in March. This estimate assumes post-release survival rates between 10% (based on experiences with game farm pheasants) and 30% (best case; based on Attwater's prairie-chicken long-term average survival given extended soft release protocol and supportive predator control). Establishing a captive flock of this size would require collecting 123 to 369 eggs from the wild, under the simplifying assumption that all birds surviving to 12 weeks survive to lay clutches (this likely greatly overestimates contribution of captive-reared birds to reproduction as Leif (1994) found that captive-reared hen pheasants contributed less than 10% of the reproductive output that wild hens did given much lower survival during the nesting and brood-rearing period and lower nest initiation/incubation rates. There is potential for impacts to source populations in the establishment of a captive flock large enough to provide the number of eggs needed (Table 1). This would be an initial impact that would not recur, although additional removals from source populations would be expected to offset inbreeding depression and loss of genetic diversity in captive flocks.

Number of Sage-grouse or sage-grouse eggs needed to result in 50 sage-grouse at start of breeding season (31 Mar)

Method	Hatchability	Survival to release	Post-release survival to 31 Mar.	Number of birds or eggs needed	Net Removal from source population
Spring transplant	NA	0.95	0.50	105 birds	105 birds
Collect wild eggs, release progeny ≤ 10 days old	0.745	0.792	0.22	378 eggs	239 eggs
Collect wild eggs, release progeny ~ 12 weeks old	0.745	0.52	0.1-0.3	429-1,286 eggs	272-816 eggs
Eggs from captive flock, release progeny ≤ 10 days old	0.565	0.792	0.22	498 eggs	443 eggs
Eggs from captive flock, release progeny ≥ 12 weeks old	0.565	0.52	0.1-0.3	565-1696 eggs	503-1508 eggs

It is likely that with experience, hatchability and chick survival in captive-rearing facilities could be improved, which would reduce the number of eggs needed somewhat. Sage-grouse are determinate layers, meaning each individual female will contribute only about 7-10 eggs per year. That, along with relatively high chick mortality and juvenile mortality following release suggests relatively large breeding flocks would need to be maintained and periodically augmented.

**AUGMENTING SAGE-GROUSE POPULATIONS
THROUGH CAPTIVE BREEDING AND OTHER MEANS**

Other Considerations. Collection of eggs and/or adult sage-grouse would require permits from state wildlife agencies and, if taken from Federal land, from land management agencies. State regulations, laws and attitudes about private possession of wildlife vary, so this may or may not require regulatory change or legislative approval based on the state. Sage-grouse of all ages are very susceptible to West Nile Virus (WNV), so if a captive flock is established precautions should be taken to prevent exposure of birds to mosquitoes that may carry the WNV by physical enclosures or placement of the facility in areas where WNV is not prevalent. Captive sage-grouse also seem susceptible to salmonella, aspergillosis, and other bacterial, fungal, and viral diseases, so precautions should be taken to prevent introduction of these diseases into wild populations if captive birds are released. Captive breeding facilities for Attwater's prairie-chicken have experienced outbreaks of Reticulendotheliosis viruses (REV), which has resulted in transmission to wild birds upon release (Morrow 2017).

Conclusions

- Sage-grouse can be artificially incubated, hatched, reared, maintained, and bred, and will produce viable eggs in captivity.
- Relatively low hatchability and survival rates in captivity suggest egg collections from wild clutches could be substantial to produce a sizable captive flock for captive egg production.
- Release of 1-5-day old captive-reared chicks to existing brood hens is effective, but is not likely to be a strategy that could be scaled up. Survival of sage-grouse juveniles released at 8-12 weeks has not been evaluated but should be evaluated if releases at this age are contemplated.
- Techniques for captive rearing of sage-grouse are still in their infancy although significant strides have been made in the last 10 years. Methods associated with artificial insemination, controlling bacterial disease, disease prevention and control, and other aspects of husbandry need additional research. Zoos or other conservation partners with a similar mission, in collaboration with state or provincial wildlife agencies, may be in the best position to fund and staff this kind of research.
- Pending refinement and demonstration of the effectiveness of captive breeding and release of sage-grouse, other approaches to augmentation appear to be more certain and likely to be less costly and impactful to source populations.
- Sage-grouse population size varies substantially over time in response to environmental stochasticity. Augmentations by any means are not necessary for recovery from declines in relatively large contiguous habitats in good conditions. Augmentations are unlikely to have any success in small and isolated populations until and unless the environmental conditions that precipitated sage-grouse declines have been mitigated.

Literature cited can be found under the Sagebrush Ecosystem Initiative tab at wafwa.org



WESTERN ASSOCIATION OF FISH AND WILDLIFE AGENCIES
POPULATION AND HABITAT-BASED APPROACHES TO MANAGEMENT OF SAGE-GROUSE

Interest in establishment of population goals, and use of population-based approaches for management of sage-grouse is high, but raises questions about feasibility, efficacy, and authorities. Sage-grouse are uniquely adapted to, and dependent on sagebrush habitats (Strategy 2006). Management approaches must include conservation of seasonal sagebrush habitats to be successful, a point emphasized in the Range-wide Sage-Grouse Conservation Strategy developed by the Western Association of Fish and Wildlife Agencies: “The overall goal of the range-wide Strategy is to maintain and enhance populations and distribution of sage-grouse *by protecting and improving sagebrush habitats and ecosystems that sustain these populations* (emphasis added).

When managing State or Federal trust species, a mix of habitat- and population-based approaches is typically employed. Population-based approaches are used in several situations. First, for species of economic importance where harvest is the predominant impact on populations: deer, elk, pronghorn, etc. Population objectives are typically set through some sort of public process and attempt to balance hunter demand with concerns relative to habitat or game damage. Population-based approaches are also used for many conservation reliant species, particularly endangered species with recovery plans. Typically, population and habitat goals are established, and potentially the full suite of habitat and population tools may be employed to overcome threats, including predator control and captive breeding. Attwater’s prairie chicken are a good example of this. Finally, population-based tools are employed by states when recreational demand exceeds or creates demand, for example state (or private) game farm production and release of native or non-native species such as pheasants, rainbow trout, walleyes, etc.

Sage-grouse have become a conservation reliant species, at least to deter listing under the Endangered Species Act. Setting and monitoring progress towards state-level (or other) population goals (if technically feasible) could be an effective way to:

1. Ensure (through state public processes) public participation in setting population objectives and a transparent view of real and opportunity costs these goals represent
2. Prioritize investment of conservation dollars (to areas below population goals)
3. Explicitly define when conservation goals will be met, quantitatively assess progress towards goals, and inform adaptive management constructs so course corrections can be made

If population goals are set, they should recognize state and federal authorities in management of state public trust species. The Fish and Wildlife Conservation Act: (16 U.S.C. §§ 2901-2911, September 29, 1980, as amended 1986, 1988, 1990 and 1992) states “Nothing in the Act should be construed as affecting: the authority, jurisdiction or responsibility of the states to manage, control or regulate fish and resident wildlife under state law...” (WAFWA 2011). Establishment of population goals for sage-grouse are the responsibility of states. However, realization of these goals cannot be achieved without habitat management and restoration on private lands and on Federal lands, so collaboration with local working groups and Federal land management agencies in goal setting is paramount.

Setting and managing to population goals is not realistic unless we have the capability to estimate sage-grouse population size. Breeding population size and trends have been modeled for the bi-state population of greater sage-grouse from lek count data and estimates of survival, nest success and other demographic parameters from telemetry data (Coates et al. 2015). Data for this type of model are not presently available range-wide, but McCaffery et al.

POPULATION AND HABITAT-BASED APPROACHES TO MANAGEMENT OF SAGE-GROUSE

(2016) have developed a modeling approach to correct for males not detected during peak counts and estimate total number of male sage-grouse, and an integrated population model (IPM) to estimate total population (of males and females) using available data (McCaffery and Lukacs 2016). WAFWA is working with researchers from the University of Montana, USGS, FWS, and state agencies to develop a secure platform where state agencies can estimate sage-grouse population size and trends using the best available data. Initial estimates of minimum population size and trend at state and range-wide scales are feasible within the next year or two, but additional work will likely be needed to estimate total population size, refine demographic estimates that are input to models, and account for leks that are currently unknown and therefore not counted.

Other Considerations. While setting and working towards specific sage-grouse population goals has utility, the value of population-level strategies such as captive breeding, predator control, and eliminating hunting is less certain (see companion WAFWA white papers on these topics). Population-based management strategies employed to benefit sage-grouse would also fall under state, and not federal authority. Any, or all of these strategies can only be effective if sufficient quantity and quality of habitat is maintained.

Conservation efforts for sage-grouse, a large-landscape obligate of sagebrush habitats, also provide habitat for many of the 350 species that depend on sagebrush habitats (Rowland et al. 2006, Hanser and Knick 2011, Copeland et al. 2014). Sagebrush is a critical component of migration corridors and winter range for big game populations (Copeland et al. 2014) in much of the west. Population level management actions to benefit sage-grouse don't provide benefits to other sagebrush dependent species, particularly if they are used to mitigate for loss or degradation of habitat. For this reason, any significant retraction of habitat-based protections afforded in BLM Land Use Plan Amendments or Forest Plan Revisions may lead to additional petitions on sagebrush species of conservation concern such as pygmy rabbits. Effects of lethal control of sage-grouse predators on other sagebrush dependent species would be highly variable, uncertain, and potentially negative.

Conclusions:

- Establishment of sage-grouse population goals through a collaborative process led by states has utility to clearly delineate what success looks like and to aid in prioritization of investments in conservation. This will be technically feasible in the next year or two. Goals should be population ranges that recognize and account for the large population fluctuations (cycles) typical for this species.
- Efforts to enhance, restore, and protect habitats from conversion and degradation will be necessary to achieve population goals that are in aggregate sufficient to deter listing. Habitat efforts will benefit other sagebrush obligates and make petitions and listing of these species less likely.

Literature cited can be found under the Sagebrush Ecosystem Initiative tab at wafwa.org



WESTERN ASSOCIATION OF FISH AND WILDLIFE AGENCIES
PREDATOR CONTROL AS A CONSERVATION MEASURE FOR SAGE-GROUSE

Predator control is a technique that has been applied in research settings and on a limited basis at local scales as a tool to benefit sage-grouse populations. The cause of mortality for most sage-grouse is predation (Bergerud 1988), whether as an egg, chick, juvenile or adult. What is relevant to the long-term sustainability of sage-grouse populations is not how birds die, but rather the rate at which mortality including predation occurs and whether recruitment exceeds mortality.

Sage-grouse are not the primary prey for any predator, but instead predators that typically prey on rodents, rabbits, and hares also take sage-grouse (Schroeder et al. 1999, Hagen 2011). Eggs, chicks, and males on leks are most vulnerable to predation (Hagen 2011). Females have their highest mortality during the breeding season (Davis et al. 2014). Predators of chicks and adult sage-grouse include coyotes, red fox, badgers, bobcats, and several species of raptors, while egg depredation is frequently attributed to weasels, raccoon, common ravens, black-billed magpies, coyotes, badgers, bobcats, and snakes (Baxter et al. 2007, Coates et al. 2008, Coates and Delehanty 2010, Hagen 2011, Lockyer et al. 2013, Orning 2014).

Sage-grouse have co-evolved with the normal complement of predators in sagebrush habitats. However, populations that are isolated due to habitat fragmentation or those in degraded habitats (Baxter et al. 2007) may be more vulnerable to predation. Predation on nests and chicks can be high where habitat is depleted or where predators are over abundant (Gregg et al. 1994, Aldridge and Brigham 2001, Schroeder and Baydack 2001, Coates 2007, Coates et al. 2008, Lockyer et al. 2013). Altered habitats influence distribution and abundance of predator populations in the following ways:

- Predators benefit from human-supplied food and water, such as road-killed carrion, artificial water sources, landfills, livestock carcasses, and cereal crops (Boarman et al. 2006, Baxter et al. 2007, Bui et al. 2010, Esque et al. 2010, Newsome et al. 2013, Coates et al. 2016).
- Human structures provide denning, roosting, nesting, and perching sites that did not previously exist for predators in sagebrush landscapes (Coates et al. 2014a;b, Howe et al. 2014).
- Predators achieve greater hunting efficiency in fragmented or degraded landscapes (Vander Haegen et al. 2002, Coates et al. 2014a;b, Howe et al. 2014).
- Human subsidies are linked to increased raven populations which have increased an estimated ≥ 4 -fold in the western U.S. over the last 40 years (Boarman et al. 2006, Sauer et al. 2011, Howe et al. 2014).
- Increases in red fox and raccoon have also been attributed to human-induced landscape changes and subsidies (Fichter and Williams 1967, Bunnell 2000, Connelly et al. 2000, Baxter et al. 2007).

Predator control activities to benefit sage-grouse have been implemented and evaluated on a limited basis by management agencies, usually in a small-scale research setting or to support a reintroduction or augmentation effort. Some significant sage-grouse predators are protected by Federal law and cannot be (easily) lethally controlled, such as great horned owls, golden eagles, and other raptors. Results of predator control efforts have varied. Coyote removal in Wyoming improved hen survival during the nesting period; however, annual hen survival remained unchanged and nest success was higher in untreated sites (Orning 2014). In another study in southwest Wyoming, there was no measurable effects on nest and chick survival between coyote removal and non-removal areas (Slater 2003). Sage-grouse reproductive success and survival improved during an 8-year study which removed both terrestrial (primarily red fox) and avian (corvid) predators in Strawberry Valley, Utah (Baxter et al. 2007). Several studies have evaluated raven control because of concern over increasing raven populations in sage-grouse habitats. Increased sage-grouse nest success has been documented after raven removal in some studies, but they lacked a comparison to control areas (Batterson and Morse 1948, Coates and Delehanty 2004, Baxter et al. 2007). In Wyoming, sage-grouse nest success was higher in areas of raven removal than in non-treatment areas, but raven numbers rebounded once control efforts ceased (Dinkins et al. 2014). A separate Wyoming study found that

PREDATOR CONTROL AS A CONSERVATION MEASURE FOR SAGE-GROUSE

sustained raven removal at high levels increased nest success and may increase sage-grouse populations (Peebles 2015).

Other Considerations. Lethal removal of predators is controversial and likely to engender local and broader opposition. Non-lethal control efforts such as aversive conditioning (Conover and Lyons 2003), hazing, or contraception are likely to have greater public acceptance but we are not aware of any studies that evaluated efficacy of any of these methods in reducing depredation on sage-grouse. Lethal removal of predators in large landscapes is not likely to be practical or cost effective (Willis et al. 1993), and complete removal of the target predator is unlikely. Predator populations are capable of rebounding quickly once removal stops (Gregg et al. 1994, Witmer et al. 1996, Côté and Sutherland 1997, Crooks and Soule 1999, Mezquita et al. 2006, Baxter et al. 2007, Clark 2014, Orning 2014, Dinkins et al. 2014, Dinkins et al. 2016), so control efforts must be sustained if benefits are to persist. Lethal removal may result in unintended consequences such as increases in other, potentially more effective predator species (Mezquida et al. 2006) which may shift predation to other predators or life stages rather than reducing it.

A predator management approach that could achieve long-term conservation goals would include; 1) addressing habitat conditions that ultimately limit sage-grouse production (e.g. hiding cover, food resources) and that provide advantages to predators (e.g. fragmented habitat, non-native vegetation); and 2) eliminating human subsidies that artificially support predator populations. Predator removal, in conjunction with habitat improvement and elimination of predator subsidies could be an appropriate short-term management action to address localized and critical population declines or during sage-grouse translocation programs.

Conclusions:

- Large-scale, sustained lethal predator control programs for sage-grouse are likely to engender significant public opposition (Messmer et al. 1999), will be very expensive, and unlikely to be effective unless habitat deficiencies are corrected. In areas where seasonal habitats are in good condition, predator control is not likely to be needed to sustain desirable densities of sage-grouse.
- Predator removal programs can achieve short-term benefits, but their ultimate utility as a long-term conservation tool to increase sage-grouse populations is less well established (Côté and Sutherland 1997, Dinkins et al. 2014, Orning 2014, Conover and Roberts 2017).
- Predator removal may be useful as a short-term management tool to increase nest success and survival when localized sage-grouse populations are declining and have reached a critically low level (Baxter et al. 2007, Conover and Roberts 2017).
- In degraded habitats, sustained predator control and removal of predator subsidies may increase nest success and chick survival to prevent further population declines allowing time for habitat improvement (USFWS 2013).
- Lethal predator control prior to and after releases of sage-grouse may increase survival of translocated sage-grouse in reintroductions or augmentations of local populations. Translocated birds are more vulnerable to predation (Musil et al. 1993, Stephenson et al. 2011).

Literature Cited is available under the Sagebrush Ecosystem Initiative tab at the WAFWA website.



WESTERN ASSOCIATION OF FISH AND WILDLIFE AGENCIES
HUNTING SAGE-GROUSE, IMPACTS AND MANAGEMENT

Ten of 11 states where Greater Sage-grouse occur allow hunting of sage-grouse. Sage-grouse have been state-listed as Threatened in Washington since 1998, and have not been hunted since 1990. Although sage-grouse were found not warranted for listing under the Endangered Species Act in 2015 (FR 80:59858-59942), concern over the potential consequences of a Federal listing have raised questions about the potential impact of hunting on sage-grouse populations. It is important to note that the Fish and Wildlife Service, in their assessment of threats in the 2015 not-warranted listing decision, did not view regulated hunting as a significant threat to the species, but described the need for continued close attention by state wildlife agencies to monitor population trends and adjust seasons if needed (FR 80:59924). This paper reviews scientific information pertaining to impacts of regulated hunting on sage-grouse populations and describes measures states have taken to minimize potential impacts of sage-grouse hunting.

Dinkins and Beck (personal comm.) analyzed sage-grouse lek data and harvest estimates from 1995-2013 provided by states and two Canadian provinces in an attempt to elucidate patterns between relative harvest and lek trends. While analysis of these data continues, they have concluded that discontinuing harvest in smaller populations did not result in positive lek trends; however, discontinuing hunting seasons with relatively higher harvest pressure in the largest population in their analyses resulted in higher population growth rates. They also concluded that State and provincial wildlife agencies were adept in changing harvest regulations to prevent hunting sage-grouse populations facing significant lek trend declines.

Historically, sport harvest of sage-grouse and other upland birds was viewed as compensatory mortality (meaning it replaced natural mortality and was not additive to it), and had little or no impact on subsequent population sizes (Connelly and Reese 2008). Recently the idea that all harvest of sage-grouse or other upland birds is compensatory has been replaced by the idea that low levels of harvest may be compensatory, but higher levels of harvest may be at least partially additive to natural mortality (Connelly et al. 2003, Reese and Connelly 2011). Based on a review of the literature, Connelly et al. (2000) suggested that no more than 10% of the autumn population be removed through harvest, and that populations of fewer than 300 birds (100 males counted on leks) should not be hunted. Sedinger et al. (2010), based on an analysis of 18 years of band recovery data in Colorado, found strong evidence that harvest rates near 10% were compensatory and not additive.

States have responded to concern about sage-grouse status and to declining populations by adopting more conservative approaches to regulating hunting based on the Connelly et al. (2000) guidelines (responses through 2007 reviewed in Reese and Connelly 2008). All states now evaluate sage-grouse seasons annually and make modifications, if needed, based on trends in counts of males on leks. Wyoming, which has more birds over larger areas than any other state, has shifted opening dates later, reduced season length from 31 to 11 days, and reduced bag limits from 3 birds daily and 6 in possession to 2 birds daily and 4 in possession in an effort to reduce potential impacts to sage-grouse. Wyoming also closes areas with fewer than 300 birds, and recommends more conservative seasons ranging from closures to reduced season lengths and bag limits if populations are declining. Colorado evaluates 3-year moving average high male counts (HMC) against triggers in local conservation plans to recommend closure or modifications of hunting seasons and bags, with a maximum season length of 7 days and bag of 2 and 4 compared to historical season lengths of 30 days and bags of 3 daily and 9 in possession. Idaho uses an explicit Adaptive Harvest Management (AHM) approach where season length and bag limits are either: Closed, Restrictive (7-day season, bag of 1 and 2), or Standard (21-day season, bag of 2 and 4) based on how 3-year average trends in HMC within each of 14 management zones relate to a baseline. Montana reduced sage-grouse season length from 62 to 30 days in 2014, and has implemented their conservative bag limit (2 daily,

HUNTING SAGE-GROUSE, IMPACTS AND MANAGEMENT

4 in possession) since 2007. Hunting is closed in any unit where average HMC is 45% or more below the long-term average for 3 or more consecutive years. Oregon establishes a maximum harvest of 5% of a management unit population estimate, then issues limited tags to maintain harvest below the 5% threshold. California has closed hunting in the Bi-State population of sage-grouse, hunting permit numbers in other areas are adjusted based on male counts and fall population estimates. The California Fish and Game Commission responded to low lek counts this Spring and closed seasons for 2017 based on a recommendation from the California Department of Fish and Wildlife. Nevada has also closed hunting to Bi-State sage-grouse, seasons in other areas are adjusted to conform to the Connelly et al. (2000) guidelines. Nevada estimates statewide harvest of sage-grouse has been between 2% and 6% of the estimated fall population annually, and has closed sage-grouse seasons in five counties including 23 separate hunt units since 1997 in response to local, short-term declines. South Dakota issues limited permits with a bag and possession limit of 1, and closes hunting seasons when less than 250 males are counted on leks in the spring. The sage-grouse hunting season will be closed in 2017 in South Dakota. North Dakota has also closed sage-grouse hunting seasons for the past several years because the number of males on leks has fallen below levels that will support hunting.

Other Considerations. Sage-grouse hunters and sportsmen in general represent a constituency of sage-grouse and sagebrush advocates. Hunting license fees and matching Federal aid dollars are used by state wildlife agencies for conservation and restoration activities on sagebrush rangelands that benefit sage-grouse, sagebrush dependent wildlife and grazing interests. Sage-grouse hunting also represents an economic boost to local communities. In addition, sex and age-ratios obtained from hunter-collected wings provide information that will be critical to estimation of sage-grouse population size and trends now and in the future. State wildlife agencies have thresholds and other means to close hunting seasons when necessary to prevent impacts to sage-grouse populations which increases public confidence; widespread closures of hunting when not needed may send a message that populations are far more imperiled than they are, which could lead to further land use restrictions.

Conclusions:

- Sage-grouse hunting is managed conservatively by state wildlife agencies consistent with established and scientifically supported guidelines, including closures when populations decline below levels that can support hunting.
- Sage-grouse hunting, as currently regulated, is likely compensatory in most areas and therefore not likely to increase overall mortality rates.
- State wildlife agencies continue to support research on effects of hunting and will continue to incorporate new information into hunting season recommendations in the future.
- Sage-grouse hunters have been, and remain an important ally in sage-grouse conservation efforts with a vested interest in insuring populations remain not warranted for listing.

Literature Cited is available under the Sagebrush Ecosystem Initiative tab at the WAFWA website



Literature Cited in WAFWA Tech. Committee White Papers on Predator Control, Captive Breeding and Population and Habitat Management

- Aldridge, C. L. and R. M. Brigham. 2001. Nesting and reproductive activities of greater sage-grouse in a declining northern fringe population. *The Condor* 103:537-543.
- Apa, A. D., and L. A. Wiechman. 2015. Captive-rearing of Gunnison sage-grouse from egg collection to adulthood to foster proactive conservation and recovery of a conservation-reliant species. *Zoo Biology* 34:438-452.
- Apa, A. D., and L. A. Wiechman. 2016. Captive-breeding of captive and wild-reared Gunnison sage-grouse. *Zoo Biology* 35:70-75.
- Apa, A. D., T. R. Thompson, and K. P. Reese. 2017. Juvenile greater sage-grouse survival, movements, and recruitment in Colorado. *Journal of Wildlife Management* 81:652-668.
- Baxter, R. J., K. D. Bunnell, J. T. Flinders, and D. L. Mitchell. 2007. Impacts of predation on greater sage-grouse in Strawberry Valley, Utah. *Transactions of the 72nd North American Wildlife and Natural Resources Conference* 72:258-269
- Batterson, W. M., and W. B. Morse. 1948. Oregon sage grouse. *Fauna Series Number 1*. Oregon State Game Commission, Portland, OR.
- Baxter, R. J., K. D. Bunnell, J. T. Flinders, and D. L. Mitchell. 2007. Impacts of predation on Greater Sage-Grouse in Strawberry Valley, Utah. *Transactions of the 72nd North American Wildlife and Natural Resources Conference* 72:258-269.
- Bergerud, A. T. 1988. Mating systems in grouse. in A. T. Bergerud and M. W. Gratson, editors. *Adaptive strategies and population ecology of northern grouse*. University of Minnesota Press, Minneapolis, MN, USA.
- Boarman, W., M. Patten, R. Camp, and S. Collis. 2006. Ecology of a population of subsidized predators: Common ravens in the central Mojave Desert, California. *Journal of Arid Environments* 67:248-261.
- Bui, T.-V. D., J. M. Marzluff, and B. Bedrosian. 2010. Common raven activity in relation to land use in western Wyoming: implications for greater sage-grouse reproductive success. *The Condor* 112:65-78.
- Bump, G., R. W. Darrow, F. C. Edminster, and W. F. Crissey. 1947. *The ruffed grouse. Life history-propagation-management*. 915 pp. State of New York Conservation Department, New York
- Bunnell, K. D. 2000. *Ecological factors limiting sage grouse recovery and expansion in Strawberry Valley, Utah*. M.S. Thesis, Brigham Young University, Provo, UT
- Clark, D. 2014. *Implications of cougar prey selection and demography on population dynamics of elk in northeast Oregon*. PhD, Oregon State University, Corvallis, Oregon USA.
- Coates, P. S., and D. J. Delehanty. 2004. The effects of raven removal on sage-grouse nest success. *Proceedings Vertebrate Pest Conference* 21:17.

- Coates, P. S. 2007. Greater Sage-Grouse (*Centrocercus urophasianus*) nest predation and incubation behavior. Dissertation, Idaho State University, Pocatello, Idaho, USA.
- Coates, P. S., J. W. Connelly, and D. J. Delehanty. 2008. Predators of Greater Sage-Grouse nests identified by video monitoring. *Journal of Field Ornithology* 79:421-428.
- Coates, P. S., B. E. Brussee, K. B. Howe, K. B. Gustafson, M. L. Casazza, and D. J. Delehanty. 2016. Landscape characteristics and livestock presence influence common ravens: relevance to greater sage-grouse conservation. *Ecosphere* 7:1-20.
- Coates, P. S. and D. J. Delehanty. 2010. Nest predation of greater sage-grouse in relation to microhabitat factors and predators. *Journal of Wildlife Management* 74:240-248.
- Coates, P. S., B. J. Halstead, E. J. Blomberg, B. Brussee, K. B. Howe, L. Wiechman, J. Tebbenkamp, K. P. Reese, S. C. Gardner, and M. L. Casazza. 2014. A hierarchical integrated population model for Greater Sage-Grouse (*Centrocercus urophasianus*) in the Bi-State Distinct Population Segment, California and Nevada. U.S. Geological Survey Open-File Report 2014-1165, 34 p., <http://dx.doi.org/10.3133/ofr20141165>.
- Coates, P. S., K. B. Howe, M. L. Casazza, and D. J. Delehanty. 2014a. Common raven occurrence in relation to energy transmission line corridors transiting human-altered sagebrush steppe. *Journal of Arid Environments* 111:68-78.
- _____. 2014b. Landscape alterations influence differential habitat use of nesting buteos and ravens within sagebrush ecosystem: Implications for transmission line development. *The Condor* 116:341-356.
- Connelly, J. W., A. D. Apa, R. B. Smith, and K. P. Reese. 2000. Effects of predation and hunting on adult sage grouse *Centrocercus urophasianus* in Idaho. *Wildlife Biology* 6:227-232.
- Connelly, J. W., C. A. Hagen, and M. S. Schroeder. 2011. Characteristics and dynamics of greater sage-grouse populations. in *Greater Sage-Grouse: ecology and conservation of a landscape species and its habitat*. Studies in Avian Biology 38. University of California Press, Berkeley, California, USA.
- Conover, M.R., and A.J. Roberts. 2017. Predators, predator removal, and Sage-Grouse: A review. *The Journal of Wildlife Management* 81:7-15.
- Copeland, H. E., H. Sawyer, K. L. Monteith, D. E. Naugle, A. Pocewicz, N. Graf, and M. J. Kauffman. 2014. Conserving migratory mule deer through the umbrella of sage-grouse. *Ecosphere* 5:117. <http://dx.doi.org/10.1890/ES14-00186.1>
- Côté, I. M. and W. J. Sutherland. 1997. The effectiveness of removing predators to protect bird populations. *Conservation Biology* 11:395-405.
- Crooks, K. R. and M. E. Soule. 1999. Meso-predator release and avifaunal extinctions in a fragmented system. *Nature* 400:563-566.
- Davis, D.M., K. P. Reese, S. C. Gardner. 2014. Demography, reproductive ecology, and variation in survival of greater sage-grouse in Northeastern California. *Journal of Wildlife Management*. 78:1343-1355.
- Dinkins, J.B., M.R. Conover, C.P. Kiroj, J.L. Beck, and S.N. Frey. 2014. Effects of common raven removal and temporal variation in weather on greater sage-grouse nesting success. 29th Western Agencies Sage and Columbian Sharp-tailed Grouse Workshop. June 17-19, 2014, Elko, NV.

- Dinkins, J. B., M. R. Conover, C. P. Kiroi, J. L. Beck, and S. N. Frey. 2016. Effects of common raven and coyote removal and temporal variation in climate on greater sage-grouse nesting success. *Biological Conservation* 202:50–58.
- Esque, T. C., K. E. Nussear, K. Drake, A. D. Walde, K. H. Berry, R. C. Averill-Murray, A. Woodman, W. I. Boarman, P. A. Medica, and J. Mack. 2010. Effects of subsidized predators, resource variability, and human population density on desert tortoise populations in the Mojave Desert, USA. *Endangered Species Research* 12:167-177.
- Fichter E., and R. Williams. 1967. Distribution and status of the red fox in Idaho. *Journal of Mammalogy*. 48:219-230.
- Gregg, M. A., J. A. Crawford, M. S. Drut, and A. K. DeLong. 1994. Vegetational cover and predation of sage grouse nests in Oregon. *The Journal of Wildlife Management*:162-166.
- Hagen, C. 2011a. Predation on greater sage grouse: facts, process, and effects. in *Greater Sage-Grouse: ecology and conservation of a landscape species and its habitat*. Studies in Avian Biology 38. University of California Press, Berkeley, California, USA.
- Hanser, S. E., and S. T. Knick. 2011. Greater sage-grouse as an umbrella species for shrubland passerine birds: a multiscale assessment. *Studies in Avian Biology* 38:475-488.
- Howe, K. B., P. S. Coates, and D. J. Delehanty. 2014. Selection of anthropogenic features and vegetation characteristics by nesting Common Ravens in the sagebrush ecosystem. *The Condor* 116:35-49.
- Huwer, S. L. 2004. Evaluating greater sage-grouse brood habitat using human-imprinted chicks. Thesis, Colorado State University, Fort Collins, USA.
- Huwer, S. L., D. R. Anderson, T. E. Remington and G. C. White. 2008. Using human-imprinted chicks to evaluate the importance of forbs to sage-grouse. *Journal of Wildlife Management* 72:1622-1627.
- Johnson, G. D., and M. S. Boyce. 1990. Feeding trials with insects in the diet of Sage-Grouse chicks. *Journal of Wildlife Management* 54:89-91.
- Johnson, G. D., and M. S. Boyce. 1991. Survival, growth, and reproduction of captive-reared sage-grouse. *Wildlife Society Bulletin* 19:88-93.
- Leif, A. P. 1994. Survival and reproduction of wild and pen-reared ring-necked pheasants. *Journal of Wildlife Management* 58:501-506.
- Ligon J.S. 1946. Upland game bird restoration through transplanting. 108p. N. Mexico Dept. Game and Fish.
- Lockyer, Z. B., P. S. Coates, M. L. Casazza, S. Espinosa, and D. J. Delehanty. 2013. Greater Sage-Grouse Nest Predators in the Virginia Mountains of Northwestern Nevada. *Journal of Fish and Wildlife Management* 4:242-255.
- Matthews, S. R., P. S. Coates, M. L. Casazza, and D. J. Delehanty. 2014. Using artificial insemination to promote fertilization of translocated female Columbian sharp-tailed grouse. *Transactions of the 29th Sage- and Columbian Sharp-tailed Grouse Workshop*. Abstract only.

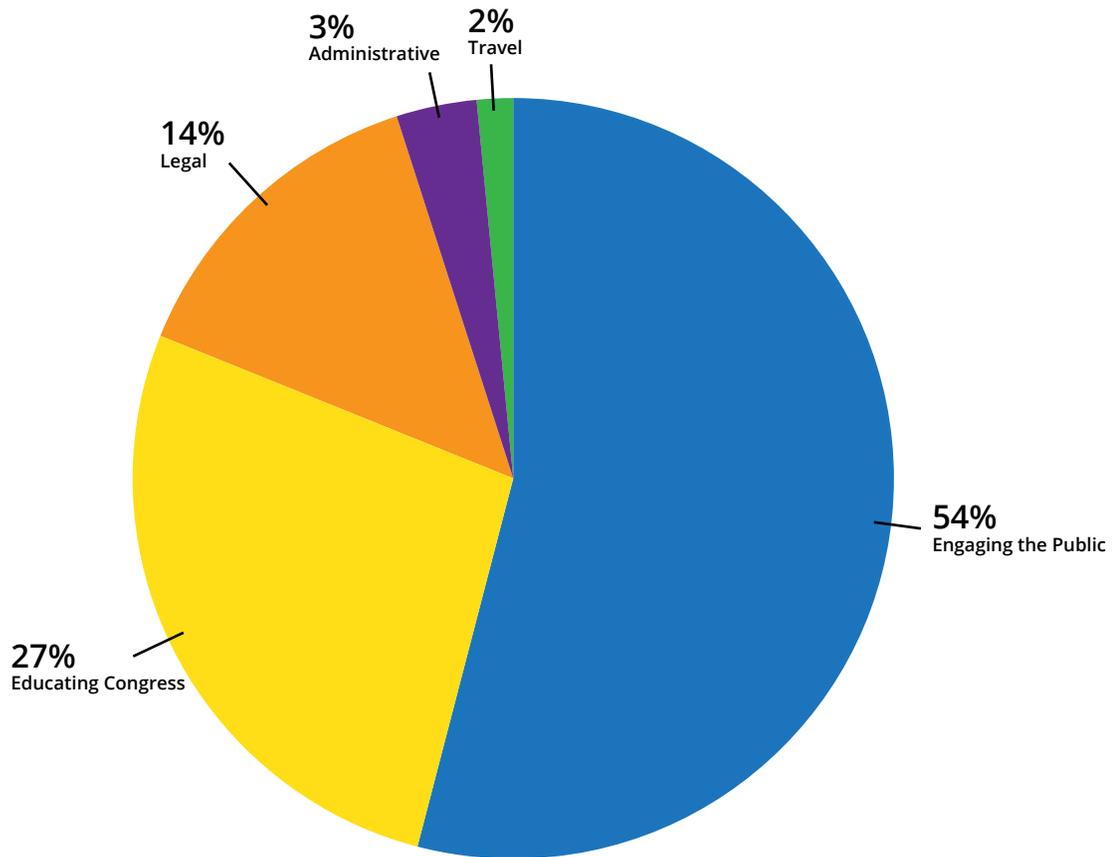
- McCaffery, R., J. J. Nowak, and P. M. Lukacs, P. M. 2016. Improved analysis of lek count data using N-mixture models. *Journal of Wildlife Management* 80:1011–1021.
- McCaffery, R., and P. M. Lukacs. 2016. A generalized integrated population model to estimate greater sage-grouse population dynamics. *Ecosphere* 7: e01585
- Messmer, T. A., M. W. Brunson, D. Reiter, and D. G. Hewitt. 1999. United States public attitudes regarding predators and their management to enhance avian recruitment. *Wildlife Society Bulletin* 27:75-85.
- Mezquida, E. T., S. J. Slater, and C. W. Benkman. 2006. Sage-grouse and indirect interactions: potential implications of coyote control on sage-grouse populations. *Condor* 108:747-759.
- Morrow, M. E. 2017. Attwater's prairie chicken recovery, January 1 to December 31, 2016. Unpublished report, United States Fish and Wildlife Service. 51 pp.
- Musil, D. D., J. W. Connelly, and K. P. Reese. 1993. Movements, survival, and reproduction of greater sage-grouse translocated into central Idaho. *Journal of Wildlife Management*. 57:85-91
- Newsome, T. M., J. A. Dellinger, C. R. Pavey, W. J. Ripple, C. R. Shores, A. J. Wirsing, and C. R. Dickman. 2014. The ecological effects of providing resource subsidies to predators. *Global Ecology and Biogeography*.
- Oesterle, P., R. McLean, M. Dunbar, and L. Clark. 2005. Husbandry of wild-caught greater sage-grouse. *Wildlife Society Bulletin* 33:1055-1061.
- Orning, E. K. 2014. Effect of predator removal on greater sage-grouse (*Centrocercus urophasianus*) ecology in the Bighorn Basin Conservation Area of Wyoming. Thesis, Utah State University, Logan, Utah, USA.
- Peebles, L.W. 2015. Winter ecology of common ravens in southern Wyoming and the effects of raven removal on greater sage-grouse populations. Thesis Utah State University, Logan Utah, USA.
- Pyrah, D. B. 1961. Artificial propagation of sage grouse for experimental purposes. Federal Aid Project 125-R-1, Idaho Department of Fish and Game. 14 pp.
- Reese, K. P., and J. W. Connelly. 1997. Translocations of Sage Grouse *Centrocercus urophasianus* in North America. *Wildlife Biology* 3:235-241.
- Remington, T. E., and C. E. Braun. 1988. Carcass composition and energy reserves of sage grouse during winter. *Condor*: 90:15-19.
- Rowland, M. M., M. J. Wisdom, L. H. Suring, and C. W. Meinke. 2006. Greater sage-grouse as an umbrella species for sagebrush-associated vertebrates. *Biological Conservation* 129:323-335.
- Sauer, J. R., J. E. Hines, J. E. Fallon, K. L. Pardieck, D. J. Ziolkowski Jr., and W. A. Link. 2011. The North American breeding bird survey, results and analysis 1966-2009. USGS Patuxent Wildlife Research Center, Laurel, MD, USA.
- Schroeder, M. A. and R. K. Baydack. 2001. Predation and the management of prairie grouse. *Wildlife Society Bulletin* 29:24-32.

- Schroeder, M. A., J. R. Young, and C. E. Braun. 1999. Sage-grouse (*Centrocercus urophasianus*). in A. Poole and F. Gill, editors. The Birds of North America, Number 425. The Academy of Natural Sciences, Philadelphia, PA, USA.
- Slater, S. J. 2003. Sage-grouse (*Centrocercus urophasianus*) use of different-aged burns and the effects of coyote control in southwestern Wyoming. M. S. Thesis, University of Wyoming, Laramie.
- Spurrer, M. F., M. S. Boyce, and B. F. J. Manly. 1994. Lek behaviour in captive sage grouse *Centrocercus urophasianus*. *Animal Behaviour* 47: 303-310.
- Stephensen, J., K. P. Reese, P. Zager, P. E. Heekin, P. J. Nelle, and A. Martens. 2011. Factors influencing survival of native and translocated mountain quail in Idaho and Washington. *Journal of Wildlife Management* 75:1315-1323.
- Thompson, T. R., A. D. Apa, K. P. Reese, and K. M. Tadvick. 2015. Captive rearing sage-grouse for augmentation of surrogate wild broods: evidence for success. *Journal of Wildlife Management* 79:998-1013.
- U.S. Fish and Wildlife Service. 2013. Greater sage-grouse (*Centrocercus urophasianus*) conservation objectives: final report. U.S. Fish and Wildlife Service, Denver, CO, USA.
- Vander Haegen, W. M., M. A. Schroeder, and R. M. DeGraaf. 2002. Predation on real and artificial nests in shrubsteppe landscapes fragmented by agriculture. *The Condor* 104:496-506.
- Willis, M. J., G. P. Keister, Jr., D. A. Immell, D. M. Jones, R. M. Powell, and K. R. Durbin. 1993. Sage grouse in Oregon - Wildlife Research Report No. 15. Oregon Department Fish and Wildlife, Portland, OR, USA.
- Witmer, G. W., J. L. Bucknall, T. H. Fritts, and D. G. Moreno. 1996. Predator management to protect endangered avian species. *Transactions of the North American Wildlife and Natural Resources Conference* 61:102-108.

EXHIBIT J

*UTAH SAGE-GROUSE
MANAGEMENT CONTRACT
BUDGET EXPENDITURES*

CONTRACT BUDGET EXPENDITURES



July 1, 2018 - June 30, 2019

Total Expenditures (12 months)	\$983,636
Engaging the Public in the Process	\$532,037
Educating Members of Congress	\$266,078
Legal	\$136,691
Administrative	\$32,868
Travel	\$15,962

Stag Consulting

SAGE GROUSE

———— QUARTERLY REPORT ————

Contract No. 146311