

SYSTEMATIC CONSERVATION PLANNING IN THE  
**Wyoming Basins**



Protecting nature. Preserving life.™

Kei Sochi, Michael Heiner, Holly Copeland, Amy Pocewicz and Joseph Kiesecker • 2013

## Acknowledgements

We wish to thank all those who contributed to the completion of this project. We are grateful to the Wyoming Natural Diversity Database (WYNDD), the Colorado Natural Heritage Program (CNHP), the Utah Conservation Data Center, the Montana Natural Heritage Program, Colorado Parks and Wildlife, and the Wyoming Game and Fish Department for providing advice and spatial data. We thank our colleagues in the Wyoming, Colorado, Utah, Idaho and Montana chapters of The Nature Conservancy for providing review and data to the effort. In particular, the decisions made at different stages of the planning process were greatly improved by the insights and knowledge of Terri Schulz, Chris Pague, John Sanderson and Betsy Neely (The Nature Conservancy), Renee Ronadeau (CNHP) and Gary Beauvais, George Jones, Bonnie Heidel, Doug Keinath, Mark Anderson and Melanie Arnett (WYNDD). Funding for this project was provided by QEP Resources (formerly Questar Corporation).

The Nature Conservancy  
2424 Spruce Street  
Boulder, CO 80302  
[www.nature.org/smart-development](http://www.nature.org/smart-development)

The Nature Conservancy, Development by Design  
117 E Mountain Avenue, Suite 201  
Fort Collins, CO 80524  
[www.nature.org/smart-development](http://www.nature.org/smart-development)

The Nature Conservancy, Wyoming Program  
258 Main Street, Suite 200  
Lander, WY 82520  
[www.nature.org/wyoming](http://www.nature.org/wyoming)

Cover image: Wyoming's Red Desert (Joe Kiesecker)

# SYSTEMATIC CONSERVATION PLANNING IN THE **Wyoming Basins**

INTRODUCTION .....	6
Purpose of this study:.....	6
Project Benefits: .....	6
The Study Area.....	7
Development by Design.....	9
Conservation Planning.....	10
Previous regional conservation plans.....	11
METHODS.....	12
Overview.....	12
Biodiversity Targets .....	13
Focal Species (fine-filter) .....	14
Terrestrial Ecosystems (coarse-filter).....	15
Representation Goals .....	16
Disturbance Index.....	20
Analysis framework .....	23
Site Selection .....	23
Portfolio Design .....	24
Conflicts with energy development.....	24
RESULTS & DISCUSSION.....	27
Portfolio with Standard Ecoregional Goals.....	27
Disturbance Index and Optimicity Results.....	30
Land Management, Ownership and GAP status.....	32
Sage Grouse 75% core areas solution .....	33
Conflicts with energy development.....	35
Conflicts with projected wind energy development .....	36
Conclusion .....	36
REFERENCES.....	39

## List of tables/figures

Table 1.	Land ownership in the Wyoming Basins
Table 2.	GAP status categories and distribution across the Wyoming Basins
Table 3.	Summary of fine filter targets by taxonomic group
Table 4.	Terrestrial ecosystems
Table 5.	Disturbance index components and data sources
Table 6.	Summary of targets captured within the portfolio
Table 7.	Distribution of disturbance index values
Table 8.	Percent planning units selected by number of optimicity scenarios
Table 9a.	Pattern of land ownership within the portfolio
Table 9b.	GAP status within the portfolio

## List of Figures

Figure 1.	Wyoming Basins Ecoregion
Figure 2.	Land ownership in the Wyoming Basins Ecoregion
Figure 3.	Portfolio design process
Figure 4.	Terrestrial Ecosystems: Matrix-forming ecological systems Terrestrial Ecosystems: Wetland ecological systems Terrestrial Ecosystems: Other ecological systems
Figure 5.	Landform classification based on elevation and topography
Figure 6.	Infrastructure and land use
Figure 7.	Disturbance index
Figure 8.	Planning units
Figure 9a.	Potential oil and gas development
Figure 9b.	Potential wind development
Figure 10.	Portfolio of conservation areas
Figure 11.	Portfolio of conservation areas compared to 2001 assessment
Figure 12.	Conservation areas and the disturbance index
Figure 13.	Optimicity
Figure 14.	Distribution of matrix terrestrial systems and Greater Sage Grouse by GAP status
Figure 15.	Portfolio & Greater Sage Grouse 75% core areas
Figure 16a.	Conflicts with potential oil and gas development (base scenario)
Figure 16b.	Conflicts with potential oil and gas development (unconstrained scenario)
Figure 17.	Revised conservation areas with oil and gas vulnerability (base scenario)
Figure 18.	Portfolio & current development – oil and wind

## Appendices

Appendix A.	Conservation targets and data sources
Appendix B.	Conservation target goals and portfolio results
Appendix C.	Conservation areas and distribution of targets
Appendix D.	Conservation areas and land ownership
Appendix E.	Distribution of targets within the portfolio that overlap with projected oil and gas development (base scenario)
Appendix F.	Distribution of targets within the portfolio that overlap with projected oil and gas development (unconstrained scenario)
Appendix G.	Portfolio of conservation areas (large format map)
Appendix H.	Conservation area summaries

## Executive Summary

1. The Wyoming Basins Ecoregion (WBE) comprises 13.3 million hectares of basin, plain, desert, and “island” mountains in Wyoming, Montana, Idaho, Colorado, and Utah (Bailey 1996). The area is a stronghold for the greater sage-grouse (*Centrocercus urophasianus*), an emblematic native game bird now being considered for listing under the Endangered Species Act. The WBE is also home to some of the western United States richest oil and gas deposits (Copeland et al. 2009) and best wind resources (Kiesecker et al. 2011b) including some that intersect areas selected in the ecoregional assessment conducted in 2001 (Freilich et al. 2001).

2. We identified a set of areas that could maintain the biodiversity and ecological processes representative of the region, given adequate protection and management as high quality core habitat within a larger landscape matrix that supports habitat use and movement. This set of priority conservation areas is referred to as a portfolio. The methods that we used were developed to address the scope and scale of conservation planning across the study area using available data. Focal biodiversity elements, or targets, are 108 focal species, including Sage Grouse core areas, and a mapped ecosystem classification that consists of three levels: biogeographic zones, ecosystems based on vegetation, and landforms. We designed the portfolio to a) meet representation goals for the amount and distribution of each focal species and ecosystem type and b) optimize for ecological condition based on a GIS index of disturbance and cumulative anthropogenic impacts. To ensure long-term viability of biodiversity, additional consideration should be given to the maintenance of connectivity between sites

3. The portfolio includes a) lands in GAP status 1 and 2 and b) sites selected with the conservation planning software MARXAN to meet representation goals for ecosystems and target species while optimizing ecological condition. The portfolio covers 5,931,000 ha, or 43 % of the study area, and consists of 132 sites that range in size from 1,000 ha to 804,000ha. Lands in gap status 1 and 2 make up 10% of the portfolio area. Sage Grouse core areas make up 54% of the portfolio and 60% of the Sage Grouse core areas can be found in the portfolio. 62% of the portfolio is either a Sage Grouse Core Area or Gap status 1 and 2 lands. To evaluate the significance to conservation of all planning units across the study area, we developed an index of the relative contribution of each planning unit to the MARXAN optimization.

4. We identified areas of potential conflict between the conservation portfolio and areas leased for wind or petroleum development. Approximately 10% of the portfolio lies in areas of potential oil and gas or wind development. In portfolio areas that contain occurrences of very rare species, and are therefore critical to maintaining the viability of the targets, the overlap with oil, gas and wind development is less (2%). In these critical areas, development should be avoided or minimized to the degree necessary to maintain the viability of the targets. Energy development will still pose a significant challenge for the ecoregion given potential cumulative impacts.

## INTRODUCTION

### Purpose of this study:

Estimates suggest that the Wyoming Basins Ecoregion has only seen 10-20% of the energy development projected over the next 30 years (Copeland et al. 2009, 2011, Kiesecker et al. 2011b). Ideally, the scientific analysis of where and how to compensate for energy development will be developed early in the development process. The current study addresses those questions at a landscape, or ecoregional, scale. Going forward, TNC hopes its conservation science will influence the siting of development to avoid conflict within the most sensitive areas. The primary goal of this study was to assess the spatial distribution needs of biological targets and energy development in the Wyoming Basins Ecoregion and identify potential conflicts between the two. The result is a framework for evaluating strategies to circumvent these conflicts. These strategies include avoidance, minimization and offsite mitigation. The landscape-level perspective is essential to ensure that cumulative impacts are considered and field-level assessments align with ecoregional goals.

Offsite mitigation is currently one tool that is being used to abate impacts associated with oil and gas development in the Wyoming Basins Ecoregion (Kiesecker et al. 2009). One of the key questions concerning the use of offsite mitigation is when it can and when it cannot be used. The Nature Conservancy's ecoregional planning process provides a framework to address this important question (Kiesecker et al. 2010, Heiner et al. 2011). Because this process is goal-driven, it provides a framework with which to guide the decisions regarding offsite mitigation. For example, a proposed development project may occur in an area that is critical to meeting the viability goals of one or more focal targets. If the portfolio cannot be re-designed to meet representation and viability goals elsewhere and loss of this area would make meeting viability goals for this target impossible, then this site should be considered for avoidance or minimization of impacts in order to ensure continued viability of this target.

Conservation scientists and practitioners have used regional conservation assessments around the world to support and guide comprehensive and representative biodiversity protection (e.g. Cowling and Pressey 2003; Noss 2003; Groves 2003; Groves et al. 2002; Dinerstein et al. 2000; Margules and Pressey 2000). In addition to identifying important places, these assessments help organize and update biodiversity information; develop, implement and prioritize strategies; evaluate success, and inform adaptive management of conservation investments and actions. The Nature Conservancy and its partners have completed over 100 ecoregional assessments around the world over the past 20 years. By considering future land use changes that will drive mitigation decisions, these assessments can identify important synergies that will produce better outcomes for conservation and business (Kiesecker et al. 2010, Kiesecker et al. In Press).

### Project Benefits:

- Conservation action directed from an ecoregional perspective ensures long-term viability of biological targets and provides a better return on conservation investments.
- Identifying conflict areas upfront provides industry with information that can be used in making *business decision on where and when to develop areas, providing industry with better risk management.*

## The Study Area

**Figure 1. Wyoming Basins Ecoregion**



The Wyoming Basins Ecoregion (WBE) comprises 13.3 million hectares of basin, plain, desert, and “island” mountains in Wyoming, Montana, Idaho, Colorado, and Utah (Bailey 1996). The Wyoming Basins Ecoregion (WBE) was defined and delineated first by Bailey et al. (1994) and incorporated into a global map of terrestrial ecoregions (Olson et al. 2001). The boundary has since been refined by The Nature Conservancy (2009), as shown in Figure 1. The WBE lies on the continental divide and contains headwaters of the Big Horn, Platte, Green, and Yampa Rivers. The area is a stronghold for the greater sage-grouse

(*Centrocercus urophasianus*), an emblematic native game bird now being considered for listing under the Endangered Species Act (FWS 2010). The ecoregion provides critical habitat for migratory big game, songbirds and raptors within the reaches of the Greater Yellowstone Ecosystem. Some of the world’s largest herds of mule deer (*Odocoileus hemionus*) and pronghorn antelope (*Antilocarpa americana*) winter here, relying on the snow-free forage to get them through harsh winter weather.

Over 60% of the ecoregion is publicly owned and managed (56% federal and 7% state) with an additional 34% in private and 6% in tribal ownership (see Table 1, Figure 2). The largest public land manager is the Bureau of Land Management which is responsible for 51% of the ecoregion. While a portion of those BLM lands (e.g., ACECs, Wilderness Areas) are managed for biodiversity, the bulk are managed for multiple uses and are subject to extractive uses. Tribal lands within the ecoregion include the Uintah and Ouray Indian Reservation in Utah and the Wind River Reservation in Wyoming.

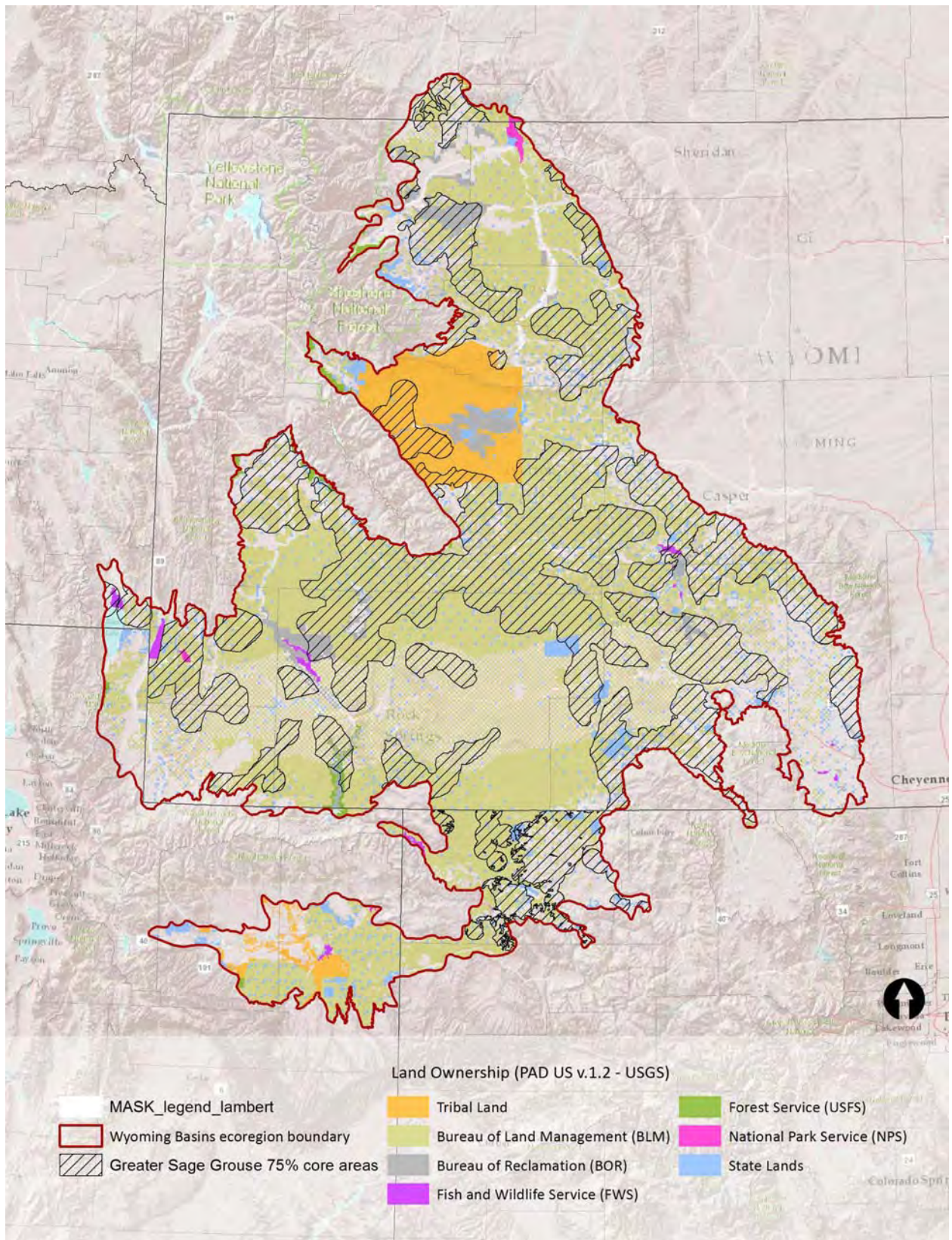
The WBE is also home to some of the western United States richest oil and gas deposits (US DOI 2006) including some that intersect areas selected in the ecoregional assessment. In fact, the expected to increase over the next 30 years (Copeland et al. 2007, Doherty et al. 2009).

**Table 1. Land ownership in the Wyoming Basins ecoregion (source: USGS 2011)**

	Land Ownership	Hectares	Acres	% of Ecoregion
Federal	Bureau of Land Management (BLM)	6,762,058	16,709,044	51%
	Bureau of Reclamation (BOR)	309,848	765,634	2%
	Fish and Wildlife Service (FWS)	46,065	113,826	< 1%
	Forest Service (USFS)	77,278	190,954	1%
	National Park Service (NPS)	20,061	49,570	< 1%
State	State Lands	899,056	2,221,566	7%
Private	Private Conservation Land	93,625	231,346	1%
	Private (Unprotected)	4,459,499	11,019,421	33%
Tribal	Native American Lands	746,320	1,844,157	6%



Figure 2. Land ownership in the Wyoming Basins Ecoregion





Conservation of the biological diversity in this ecoregion is in question, in part, because the U.S. government has authorized exploration and development in 4 million of the 8 million ha (52%) of the federal mineral estate within the ecoregion (Doherty et al. 2009).

## Development by Design

The Nature Conservancy is working to balance development with conservation through a science-based approach called “Development by Design” (Kiesecker et al. 2009, Kiesecker et al. 2010, McKenney and Kiesecker 2010, Kiesecker et al 2011a). Development by Design (DbyD) blends landscape conservation planning with the mitigation hierarchy – avoid, minimize, restore, or offset – to identify situations where development plans and conservation outcomes may be in conflict, and to identify which step of the mitigation hierarchy is consistent with conservation goals. For development impacts that are consistent with conservation goals, DbyD seeks to maximize the return to conservation provided by compensatory mitigation, or biodiversity offsets. The four-step DbyD framework supports sound land use planning, helping decision-makers avoid and mitigate conflicts between development impacts and conservation priorities, and supporting the use of compensating conservation actions (offsets) to achieve better outcomes for people and nature.

DbyD is applied for two distinct spatial scales. First, DbyD focuses at a landscape level (see Study Area below) to evaluate conservation priorities, assess cumulative impacts in the region, identify potential conflicts between development and conservation goals, and inform decision-making about where avoidance and minimization of impacts should be a priority consideration (Steps 1 & 2). Second, DbyD is applied at a project or site level (mining or energy site) to assess project impacts and their suitability for offsets, and where appropriate support design of an offsets strategy for mitigating these impacts (Steps 3 & 4).

### Landscape Level:

1. Develop a landscape conservation plan (or use an existing conservation plan such as an Ecoregional Assessment)
2. Blend landscape planning with the mitigation hierarchy to evaluate conflicts based on vulnerability and irreplaceability

### Project Level:

3. Determine residual impacts associated with development and select optimal offset portfolio.
4. Estimate offset contribution to conservation goals

This study focuses on providing a landscape-level analysis, as this is essential for addressing the first critical question concerning the application of mitigation: when should impacts from planned developments (mining, energy) be avoided altogether, minimized onsite, or offset (Kiesecker et al. 2010, Thorne et al. 2009)? Conservation planning, in particular the ecoregional assessment (e.g. Groves 2003) carried out for this study, provides the structure to ensure mitigation is consistent with conservation goals, maintaining large and resilient ecosystems to support human communities and healthy wildlife habitat. Blending the mitigation hierarchy with landscape planning offers distinct advantages over the traditional project-by-project approach because it: 1) considers the cumulative impacts of both current and projected development; 2) provides regional context to better guide which step of the mitigation hierarchy should be applied (i.e. avoidance versus offsets); and 3) offers increased flexibility for choosing offsets that

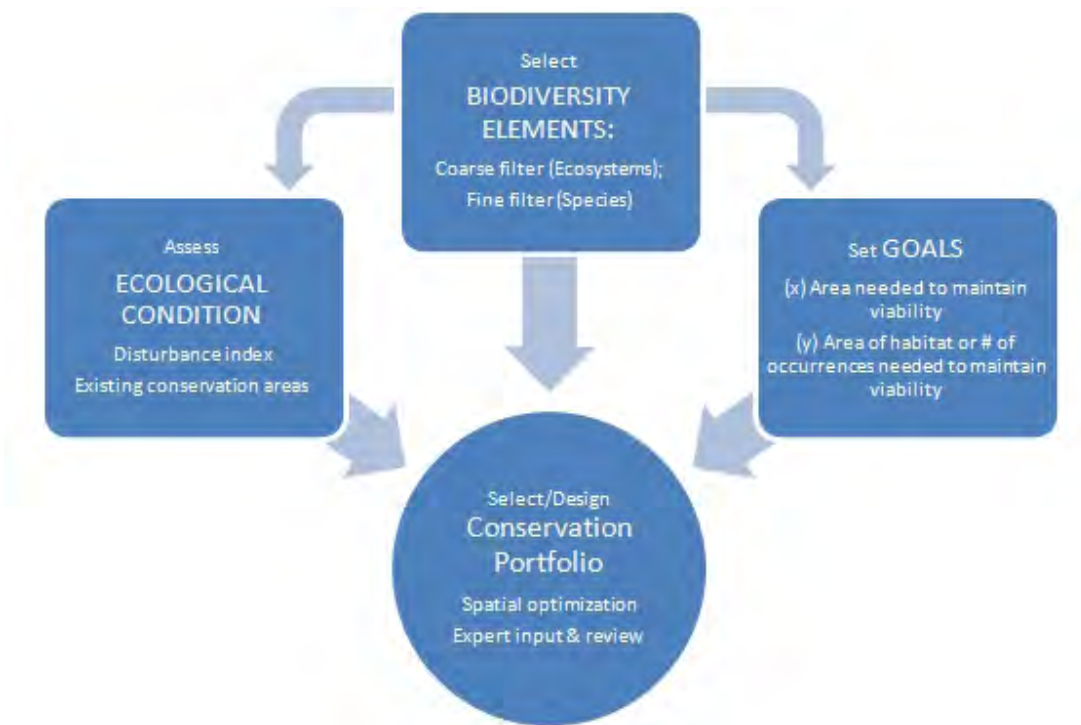
can maximize conservation return by focusing efforts towards the most threatened ecosystems or species.

## Conservation Planning

Systematic conservation planning is a methodical and comprehensive process for identifying a set of places or areas that, together, represent the majority of species, natural communities, and ecological systems found within a planning area. Landscape-level planning and action is rapidly emerging as a necessary strategy for achieving conservation results (Olson et al. 2001). A conservation portfolio of priority sites, the end product of conservation planning, is a set of areas selected to represent the full distribution and diversity of these systems (e.g. Noss et al. 2002). Often systematic conservation plans utilize an optimization approach automated with spatial analysis tools such as MARXAN (Ball and Possingham 2000), where the design of the portfolio is meant to meet the minimum viability needs of each biological target in a configuration that minimizes the amount of area selected (Pressey et al. 1997, Ball 2000, Ball and Possingham 2000). Thus, even though areas outside of a portfolio have not been selected they may still have value at meeting biodiversity goals.

The key feature of a conservation plan is the clear articulation of a biodiversity vision that incorporates the full range of biological features, how they are currently distributed, and what minimum needs each feature has to maintain long-term persistence (i.e. Lovejoy 1980, Armbruster and Lande 1993, Doncaster et al. 1996). The creation of a vision and the implementation of the conservation strategy depend on the active involvement of host governments, experts of many disciplines, development organizations, and citizens of countries or states within the region. The ultimate goal is a conservation strategy with specific action plans that are widely embraced and implemented by the stakeholders.

Figure 3. Portfolio Design Process



This approach is based on ecoregional assessment practices and standards described by Groves *et al.* (2002), Groves (2003) and Higgins & Esselman (2006). The basic components of these approaches are: (1) define and map a suite of biodiversity targets including species, ecosystems or other features that collectively represent the biological diversity of the study area; (2) set quantitative goals for the estimated abundance and distribution of biodiversity targets necessary to maintain ecological and evolutionary potential over time; (3) evaluate the relative viability and ecological integrity of, and threats to, occurrences (populations and examples of communities and ecosystems) of the suite of biodiversity targets; (4) use this information to identify the occurrences of biodiversity targets that collectively meet representation goals and are the most likely to persist, i.e. are viable, with highest relative ecological integrity and minimal risk from future threats. A diagram illustrating this process is shown in Figure 3.

## Previous regional conservation plans

A number of regional planning efforts have been completed for the Wyoming Basins and have made important contributions to conservation efforts in the region, but none have examined the intersection between future energy development and conservation priorities. In 2001, TNC completed the original Wyoming Basins Ecoregional Plan (Freilich et al 2001). The portfolio of sites identified by the 2001 plan (Freilich et al. 2000) totals 3.5 million hectares or 27% of the total area in the ecoregion. This assessment is due for revision because during the ten years since completion, new biological information is available and there has been a dramatic acceleration of energy development in the ecoregion. The Wyoming State Wildlife Action Plan (SWAP), published in 2005, was produced to provide a long-term coordinated strategy across the state for species of greatest conservation need (WGFD 2010). The Wyoming SWAP identified species of greatest conservation need (SGCN), important habitat types and priority conservation areas. A 2011 assessment of the Wyoming Basins led by the USGS (Hanser et al 2011) produced a series of analyses and distribution models for species associated with the sagebrush system but did not identify priority conservation areas.

# METHODS

## Overview

Our objective was to identify a portfolio of sites that support the native biodiversity and ecological processes representative of the Wyoming Basins. To define biodiversity elements, we compiled information to represent the distributions of 75 focal species, including Sage Grouse core areas, and developed a terrestrial ecosystem classification based on biogeographic zones, ecological systems based on vegetation and landforms. We designed the portfolio to meet the following criteria:

- **Representation:** meet goals for a specified number or amount of each biodiversity element needed to maintain their ecological and evolutionary potential over time. We defined biodiversity elements to include 75 focal species and 33 ecosystems, and set representation goals for area and amount of each element.
- **Ecological Condition:** ensure that the selected areas contain biodiversity targets that have the highest relative viability or ecological integrity, as measured by an index of disturbance from human impacts.
- **Efficiency:** The portfolio contains the least area and number of sites that meet biodiversity goals.
- **Connectivity:** where there is a choice, select adjacent planning units in contiguous groups, following the general principle that a portfolio consisting of fewer, larger contiguous sites is preferable to one consisting of many, smaller sites. This does not consider landscape connectivity beyond adjacent first-order neighbors.

We designed the portfolio in two stages:

1. **Existing protected areas.** We identified areas already managed primarily for the maintenance of biodiversity and with protections against land conversion using the USGS GAP land status rankings within the Wyoming Basins (USGS 2011). Specifically, lands ranked as GAP status 1 and 2 (see Table 2 for expanded definitions) were used as a foundation, or starting point, for portfolio design. These lands included Research Natural Areas, Wilderness areas, National Monuments, Areas of Critical Environmental Concern, selected habitat management areas and state parks and privately conserved lands (including TNC preserves and conservation easements).

2. **Site selection.** Through a GIS analysis, we identified a set of areas that, in combination with existing protected areas would meet representation goals for species and ecosystems. This analysis involved four steps. First, compile data describing the distribution of focal species. Second, develop a **terrestrial ecosystem classification** to define and map terrestrial habitat types based on a hierarchy of biogeographic zones; ecosystem types based on vegetation; and landforms. Third, develop an **index of ecological disturbance** derived from spatial data representing current human impacts, to identify areas that are ecologically degraded and areas with competing economic values. Fourth, conduct **site selection** using a conservation planning software (MARXAN) to identify a set of planning units that, in combination with existing protected areas, meets representation goals for focal species and ecosystems in a configuration



**Table 2. GAP status categories and distribution across the Wyoming Basins**  
(see [http://www.gap.uidaho.edu/padus/PADUS1\\_2\\_metadata\\_html.html](http://www.gap.uidaho.edu/padus/PADUS1_2_metadata_html.html))

GAP status	Definition	Hectares
Status 1	An area having permanent protection from conversion of natural land cover and a mandated management plan in operation to maintain a natural state within which disturbance events (of natural type, frequency, intensity, and legacy) are allowed to proceed without interference or are mimicked through management. <i>(examples include: Research Natural Areas, National Wildlife Refuges, selected private conservation lands)</i>	39,970
Status 2	An area having permanent protection from conversion of natural land cover and a mandated management plan in operation to maintain a primarily natural state, but which may receive uses or management practices that degrade the quality of existing natural communities, including suppression of natural disturbance. <i>(examples include: Areas of Critical Environmental Concern, Wilderness Areas, Habitat or Species Management Areas)</i>	482,231
Status 3	An area having permanent protection from conversion of natural land cover for the majority of the area, but subject to extractive uses of either a broad, low-intensity type (e.g., logging, OHV recreation) or localized intense type (e.g., mining). It also confers protection to federally listed endangered and threatened species throughout the area. <i>(examples include: State Parks, State Trust Lands, Recreation Management Areas)</i>	7,691,989
Status 4	There are no known public or private institutional mandates or legally recognized easements or deed restrictions held by the managing entity to prevent conversion of natural habitat types to anthropogenic habitat types. The area generally allows conversion to unnatural land cover throughout or management intent is unknown. <i>(examples include: Private land with no designation, undesignated BLM lands)</i>	5,201,987

that optimizes for ecological condition and connectivity (contagion).

## Biodiversity Targets

The essential feature of systematic conservation planning is the clear articulation of a biodiversity vision that incorporates the full range of biological features, how they are currently distributed, and the minimum needs of each feature to maintain long-term persistence. Given the complex organization of biological systems and the limits of existing data and knowledge, it is neither feasible nor desirable to analyze individually the many thousands of biodiversity targets for a given region. Therefore, we must select an effective representative subset of species and environmental features, or biodiversity targets, a) that best represents the broad range of native biodiversity and b) for which data exists to map current distributions.

Biodiversity is expressed at a variety of spatial scales and ecological levels of organization. Therefore, a comprehensive regional vision must consider spatial scales and levels of organization from species to ecosystems (Noss 1996, Margules and Pressey 2003, Groves 2003). Biodiversity targets can be organized by spatial scale in a framework created by Poiani et al (2000) that defines local, intermediate, coarse and regional scales.

Regional conservation plans often apply a ‘coarse filter / fine filter approach’ to define biodiversity targets. This includes treatment of all ecosystem types (the coarse-filter) and a subset of natural communities and species which will not be well represented by ecosystems alone (the fine filter), such as those that are rare, with highly specific habitat requirements, or are migratory over long distances (Groves et al 2002; Groves 2003). The coarse-filter premise is that conserving representative ecosystems conserves many common species and communities, species that are unknown or poorly sampled, and the environments in which they evolve (Jenkins et al 1976, Hunter 1991). A sole focus on species is not adequate because species sampling data does not represent the environmental matrix and broad-scale processes necessary to maintain habitat.

This coarse filter/fine filter approach has ecological advantages in that it considers multiple scales of organization, environmental patterns and processes that influence habitat structure and function. Choosing targets that represent the range of environmental gradients and settings is a way to address the dynamic nature of ecosystems and the uncertain impacts of climate change (Hunter 1988, Halpin 1998, Groves 2003, Beier & Brost 2010, Anderson & Ferree 2010).

This approach also has practical advantages in that it makes best use of available data to represent the full range of representative biodiversity with a practical number of targets. Our knowledge regarding species ranges and habitat needs will always be incomplete. As coarse filter targets, ecosystems can often be mapped with available GIS data. This alone provides a basis for conservation planning and fills a significant information gap. Fine-filter species and natural community data are typically more limited and dependent on survey effort, and therefore vary in geographic coverage. Thus, the coarse but geographically consistent ecosystem classification complements the locally accurate but uneven coverage of species data.

## Focal Species (fine-filter)

We used several criteria to select fine-filter targets for the Wyoming Basins (see Appendix A for a list of species targets, their associated G ranks, and source data). These criteria included:

1. **Imperiled species:** species that have a global rank of G1-G2 (T1-T2) as defined by NatureServe (<http://www.natureserve.org/explorer/ranking.htm>) and considered critically imperiled across its entire range;
2. **Endangered and threatened species:** species that are federally listed or proposed for listing under the Endangered Species Act (ESA);
3. **Species of special concern:** Species that are ranked G3 (vulnerable) – G5 (secure) by NatureServe, but warrant consideration based on additional considerations, such as:
  - a. **Declining species:** species that are exhibiting significant, long-term declines in habitat and/or population numbers and are facing continued high levels of threats. We referred to published findings, Partner in Flight ranks, and expert opinion to determine which species were declining.
  - b. **Endemic species:** species restricted to the ecoregion and therefore are likely to be more vulnerable than species more broadly distributed.
  - c. **Disjunct species:** species that have populations that are geographically isolated from its primary range.
  - d. **Limited species:** species that occur in the ecoregion and only within a few other adjacent ecoregions.

- e. **Wide-ranging:** species that typically depend on large areas but may not be well-captured by the coarse-filter targets because they tend to range across multiple coarse filter types.
- f. **Species aggregations:** critical migratory stopover sites that contain significant numbers of migratory individuals of any species.

We identified 75 focal species (fine filter targets), listed in Table 3, that meet at least one of the criteria above and for which sufficient data was available to reliably map distribution across the WBE. A full list of all species conservation targets and their associated global ranks, distributions and data sources is in Appendix A.

Of the 57 plant species, 53 are considered globally imperiled (<20 occurrences) and 12 endemic to the ecoregion. Eight species listed by the U.S. Fish and Wildlife Service as endangered and threatened were also included (e.g., Wyoming Toad, Black-footed ferret). Several species, although considered to be widespread, were also included due to known declines or significant threats, such as Pronghorns and the Ferruginous Hawk. Several other species were also considered for inclusion but not incorporated into analysis due to a lack of data of known occurrences (in particular, invertebrates).

**Table 3. Summary of fine filter targets by taxonomic group**

Taxonomic Group	Total Number	G1-G2/T1-T2 ranked species (n)
Amphibians	2	1
Birds	5	0
Mammals	11	3
Plants	57	53
Total:	75	

## Terrestrial Ecosystems (coarse-filter)

To define and map coarse-filter biodiversity targets, we developed an ecosystem classification that is organized as a hierarchy of biogeographic zones, terrestrial ecological systems based on vegetation and geomorphology, and landforms. This classification describes 224 ecosystem types, or unique combinations of biogeographic zones, terrestrial ecological systems and landforms, as described in Table 4 and listed in Appendix A

### Tier I: Biogeographic Zones

To divide the WBE into biogeographic zones, we used a map of ecoregional sub-regions developed by Bailey et al. (1994). Sub-regions, or sections, are the finest level of Bailey’s Ecoregions and Sub-regions of the US, and are delineated based on land cover and terrain features. The WBE contains five sub-regions, as shown in Figure 4 and listed in Table 4.

### Tier II: Terrestrial Ecological Systems

Ecosystems are generally defined as a biotic component (vegetation) and abiotic component (physical environmental features and processes). To represent terrestrial ecosystems, we used a

mapped classification of Ecological Systems developed by NatureServe. This dataset maps 44 types within the WBE. We revised this classification based on expert advice to map 33 types, as shown in Figure 4 and listed in Table 4.

### Tier III: Landforms

Five matrix-forming ecosystem types, shown in Figure 4, occupy almost 63% of the study area, but are a heterogeneous, patchy matrix of plant communities formed by topography, disturbance regimes and successional cycles. Patterns of plant species composition within these matrix-forming ecosystems generally follow topographic environmental gradients. To capture this ecological, environmental and genetic diversity, we stratified these widespread steppe ecosystem types by landforms. We defined and mapped eight landforms according to a cluster analysis of elevation, insolation (Rich et al. 1995) and a topographic index (Moore et al. 1991), as shown in Figure 5.

The three factors – elevation, insolation and topographic position - are known to influence temperature and moisture regimes that influence the spatial distribution of plant communities and biogeography in general. We derived all three measures from a digital elevation model at 90 meter resolution, produced by the Shuttle Radar Tomography Mission (SRTM) and modified for HydroSHEDs (Lehner et al. 2008). To estimate insolation, we calculated an index of clear sky solar radiation using a computer program named SOLARFLUX (Rich et al. 1995). SOLARFLUX will estimate clear-sky solar radiation for a given time period based on slope, aspect and sun angle. Because our goal was to roughly estimate and map the pattern of annual solar radiation, and because the calculation requires a long processing time, we calculated solar radiation for two dates, the spring equinox and the summer solstice. To measure the influence of topography on soil moisture, we calculated a topographic moisture index named the Compound Topographic Index, or CTI (Tarboton 1997, Gessler et al. 1995, Moore et al. 1993). Finally, we defined and map landforms with a migrating means cluster analysis available in the ESRI ArcInfo GIS software (ESRI, 2011). Because our goal was to create a simple, coarse-scale classification of characteristic environmental settings, we chose a small number of classes or clusters (n=8). The result is shown in Figure 5.

## Representation Goals

Choosing a preliminary set of quantitative representation goals is an elementary step in any portfolio design, and necessary for optimized site selection. Quantitative goals provide transparent, flexible measures of representation and progress that are essential to the iterative, adaptive process of portfolio design, review, data collection, analysis and revision (Carwardine *et al.*, 2009). For fine-filter targets, we chose representation goals based on established TNC standards (Higgins & Esselman 2006; Groves 2003), other ecoregional assessments, state wildlife action plans, and species range-wide conservation plans. For 57 critically imperiled or imperiled species and subspecies (G1-G2/T1-T2), representation goals were set at 100% of all known records. For other focal species, representation goals ranged from 50-75% of known records or areal extents. We assigned a 100% goal to the Wyoming Ground Squirrel (*Spermophilus elegans*), ranked as a G5, because is considered endemic at the subspecies level in the WBE. For a full list of fine filter targets and their associated representation goals, see Appendix A.



**Table 4. Terrestrial ecosystems (coarse-filter targets)**

Name	Ecoregion sub-sections					Patch type
	BB	CB	GR	BL	UB	
Inter-Mountain Basins Active & Stabilized Dune	o	o*	o*	o		Matrix
Colorado Plateau Pinyon-Juniper Woodland, Shrubland & Savanna			o*		o*	Matrix
Inter-Mountain Basins Mixed Salt Desert Scrub	o*	o*	o*	o	o	Matrix
Inter-Mountain Basins Big Sagebrush Steppe & Shrubland	o*	o*	o*	o	o*	Matrix
Northwestern Great Plains Mixedgrass Prairie	o	o*	o	o		Matrix
Rocky Mountain Foothill Limber Pine-Juniper Woodland	o	o	o	o		Large
Inter-Mountain Basins Montane Sagebrush Steppe	o	o	o	o	o	Large
Inter-Mountain Basins Mat Saltbush Shrubland	o	o	o	o	o	Large
Wyoming Basins Dwarf Sagebrush Shrubland & Steppe	o	o	o	o	o	Large
Inter-Mountain Basins Semi-Desert Grassland			o		o	Large
Inter-Mountain Basins Greasewood Flat	o	o	o	o	o	Large
Riparian Woodland & Shrubland	o	o	o	o	o	Linear
Western Great Plains Floodplain	o	o	o	o		Linear
Inter-Mountain Basins Cliff & Canyon	o	o	o	o	o	Small
Colorado Plateau Mixed Bedrock Canyon & Tableland			o		o	Small
Inter-Mountain Basins Shale Badland	o	o	o	o	o	Small
Rocky Mountain Aspen Forest & Woodland	o	o	o	o		Small
Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland & Shrubland	o	o	o	o		Small
Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	o	o	o	o	o	Small
Rocky Mountain Lodgepole Pine Forest	o	o	o	o		Small
Rocky Mountain Ponderosa Pine Woodland & Savanna	o	o	o			Small
Rocky Mountain Subalpine Dry-Mesic Spruce-Fir Forest and Woodland	o	o	o	o		Small
Rocky Mountain Lower Montane-Foothill Shrubland		o	o			Small
Rocky Mountain Gambel Oak-Mixed Montane Shrubland			o	o	o	Small
Northern Rocky Mountain Lower Montane, Foothill & Valley Grassland	o	o	o	o		Small
Southern Rocky Mountain Montane-Subalpine Grassland	o	o	o	o	o	Small
North American Arid West Emergent Marsh	o	o	o	o	o	Small
Inter-Mountain Basins Interdunal Swale Wetland	o	o	o	o	o	Small
Rocky Mountain Alpine-Montane Wet Meadow	o	o	o	o	o	Small
Western Great Plains Open Freshwater Depression Wetland	o	o	o	o		Small
Columbia Plateau Vernal Pool	o	o	o	o		Small
Western Great Plains Saline Depression Wetland	o	o	o	o		Small

Ecoregion subsections:

BB - Bighorn Basin and Owl Creek Mountains;

CB - Central Basin and Hills;

GR - Green River Basin;

BL - Bear Lake;

UB - Uinta Basin.

o occupied

o\* occupied & stratified by landform

**Figure 4. Terrestrial ecological systems in the Wyoming Basins**

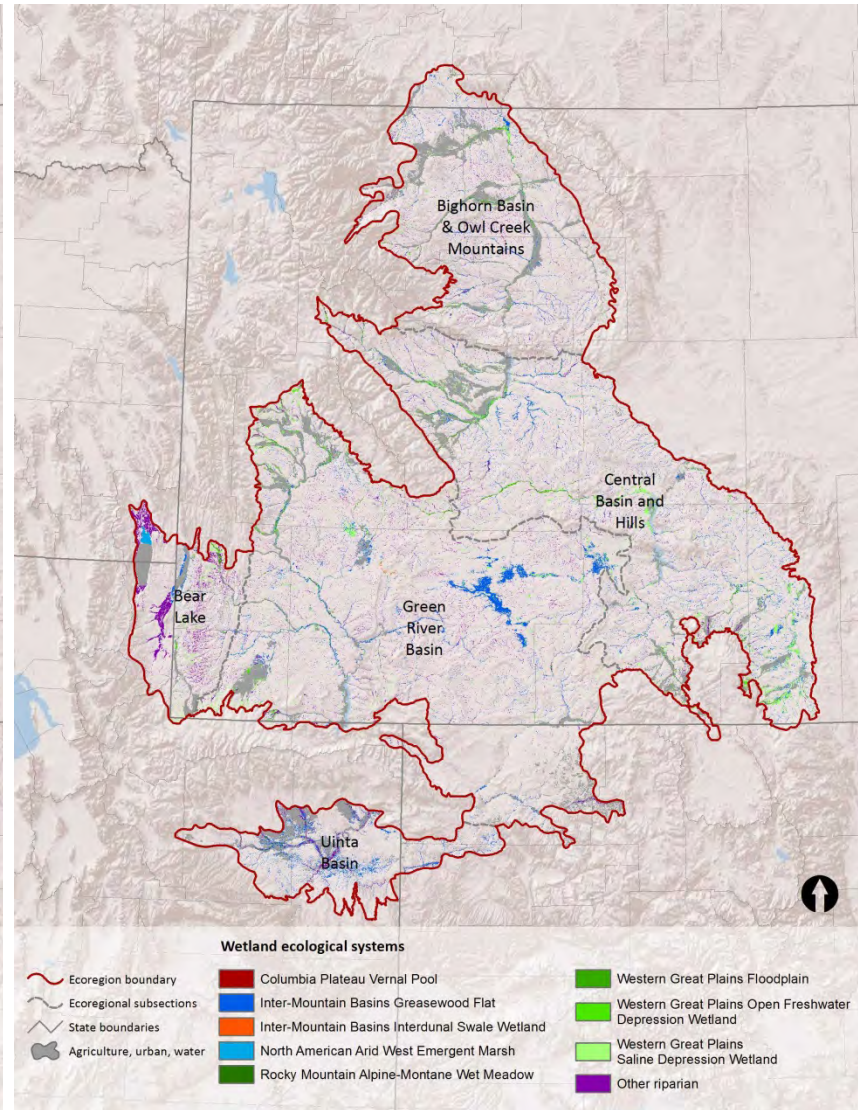
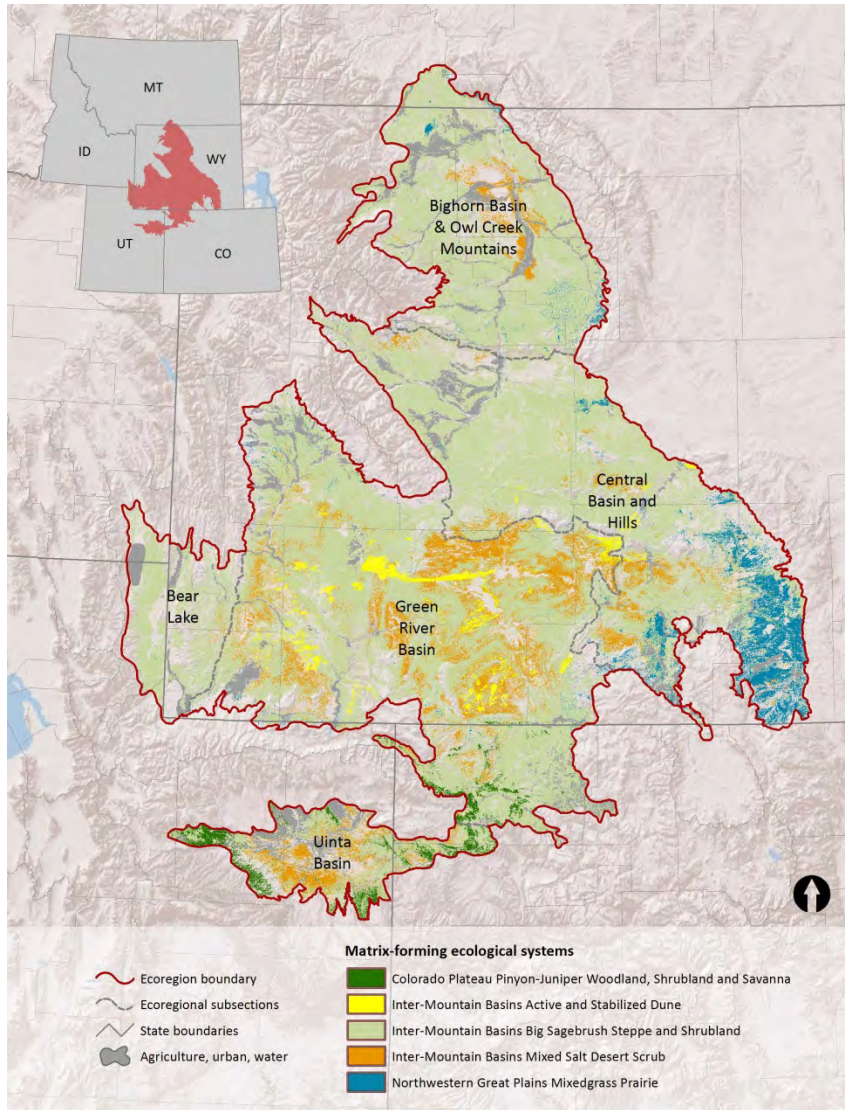




Figure 4 (continued) Terrestrial ecological systems in the Wyoming Basins

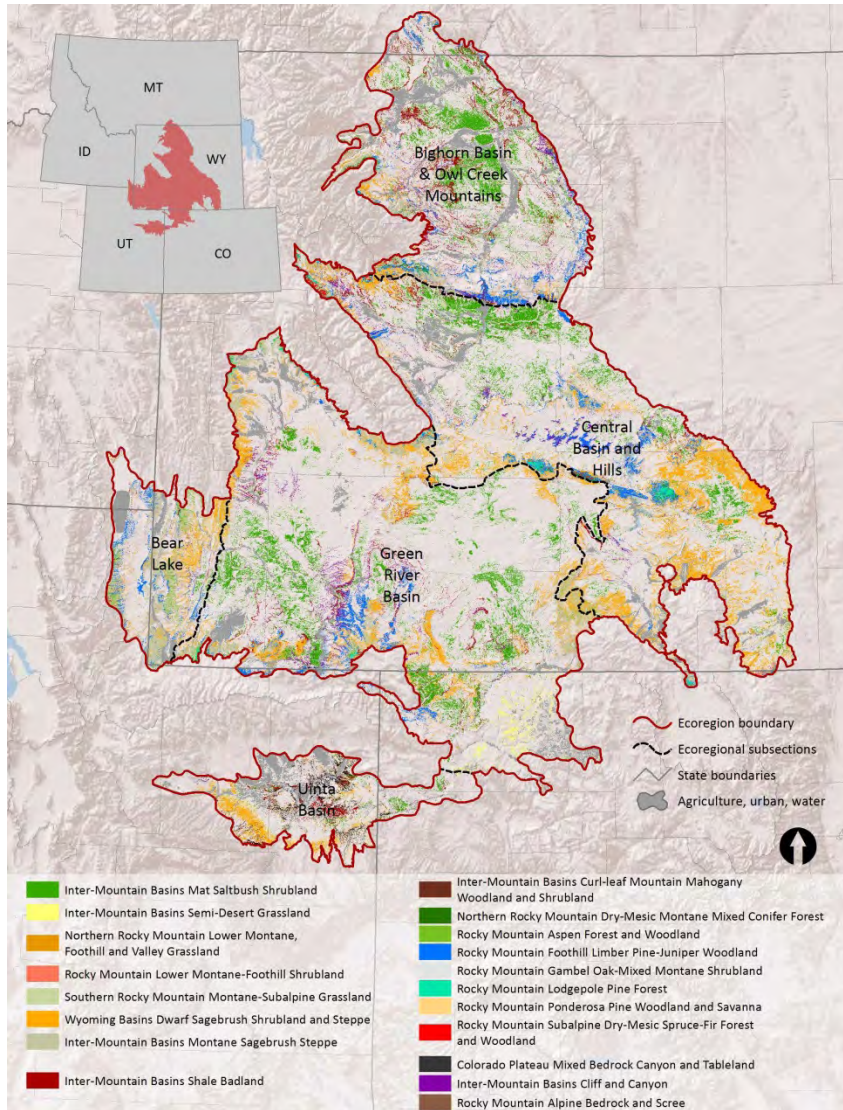
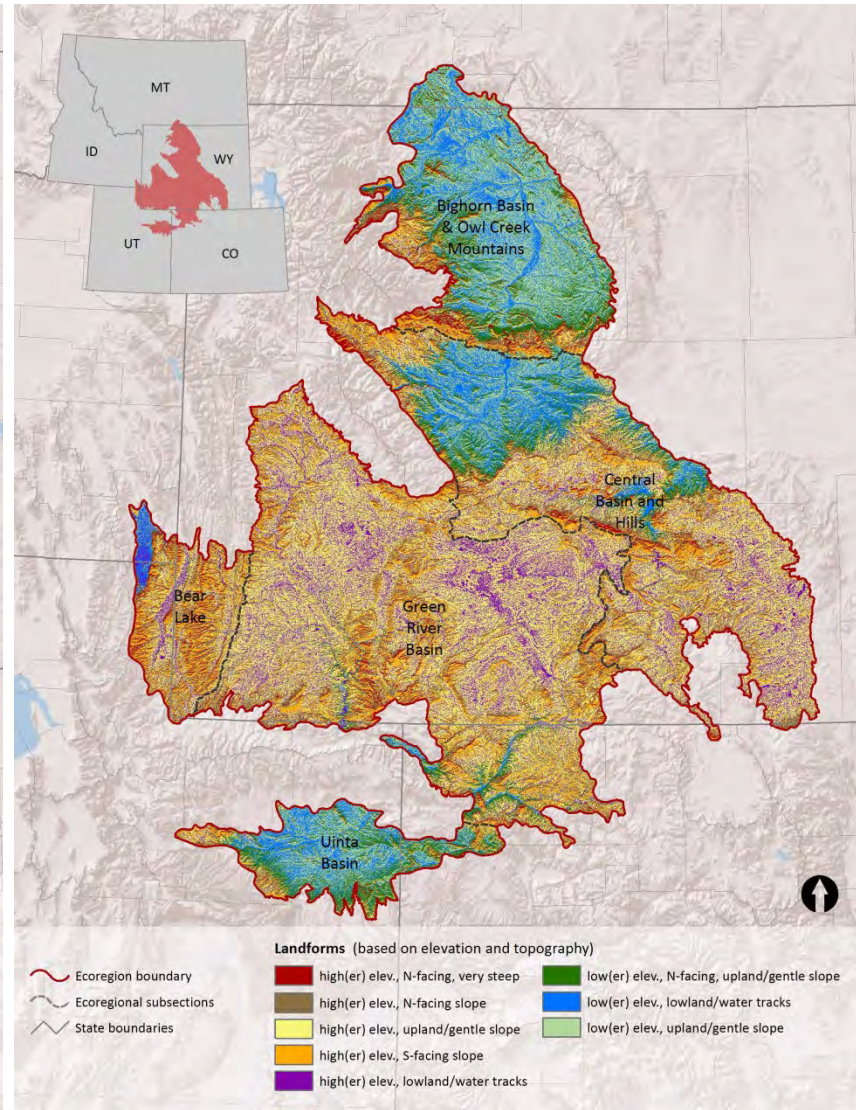


Figure 5. Landform classification based on elevation & topology



For coarse-filter targets, we chose representation goals as 30% of existing area distribution of each ecosystem type. Many regional conservation plans have also set coarse filter goals as 30% of historic areal extent, based loosely on the species-area relationships derived from studies of island biogeography and “habitat islands” (MacArthur & Wilson, 1967; Dobson, 1996; Groves 2003). Loss of habitat tends, over time, to result in the loss of species within an approximate range. The species/area relationship adapted from Dobson (1996), suggests that coarse filter representation within the range of 10%-30% of historic extent of each ecosystem type would retain approximately 55%-85% of native species.

Setting goals is a challenge because both knowledge and supporting data are limited. Few species have been studied thoroughly enough to estimate population size, number of populations and habitat distribution required for long-term persistence. Therefore, representation goals are an initial estimate of the amount and distribution required to support the long-term persistence of species and ecological processes, and working hypotheses that provide the basis for adaptive management. Meeting goals does not necessarily mean that terrestrial systems or species populations are necessarily adequately conserved and stated goals should be taken as a starting point and revised as more information becomes available. Our intent was to identify a set of areas that represent the full range of habitat and environmental settings with sufficient redundancy to withstand current and future threats.

## Disturbance Index

In order to measure cumulative human impacts as an indirect measure of ecological integrity, or departure from historic or natural conditions, we calculated an index of disturbance derived from available GIS data for sources and types of current human disturbance. Source data are listed in Table 5 and included agricultural lands, irrigated lands, developed areas, active and inactive mine sites, active and inactive oil and gas wells, current wind turbine locations, roads, natural gas pipelines and transmission lines (Figure 6). The resulting disturbance index is shown in Figure 7.

**Table 5. Disturbance index components and data sources**

Disturbance	Data Source
Development (a) High/Medium (b) Low	Davidson, A., J. Aycrigg, E. Grossmann, J. Kagan, S. Lennartz, S. McDonough, T. Miewald, J. Ohmann, A. Radel, T. Sajwaj, C. Tobalske. 2009. Digital Land Cover Map for the Northwestern United States. Northwest Gap Analysis Project: USGS GAP Analysis Program. <a href="http://www.gap.uidaho.edu/Northwest/data.htm">http://www.gap.uidaho.edu/Northwest/data.htm</a> .
Mines (a) active (b) inactive	(1) Mineral Resources Data System (MRDS - USGS) <a href="http://tin.er.usgs.gov/mrds/">http://tin.er.usgs.gov/mrds/</a> (2) Wyoming Mines PSOC (WY DEQ)
Oil and Gas wells (a) active (b) inactive	(1) Colorado Oil and Gas Conservation Commission ( <a href="http://cogcc.state.co.us/">http://cogcc.state.co.us/</a> ) (2) DNRC Montana Board of Oil and Gas ( <a href="http://www.bogc.dnrc.mt.gov/online_data.asp">http://www.bogc.dnrc.mt.gov/online_data.asp</a> ) (3) Division of Oil, Gas and Mining - Department of Natural Resources (UT) ( <a href="http://oilgas.ogm.utah.gov/Data_Center/DataCenter.cfm">http://oilgas.ogm.utah.gov/Data_Center/DataCenter.cfm</a> ) (4) Wyoming Oil and Gas Commission (WY) ( <a href="http://wogcc.state.wy.us/">http://wogcc.state.wy.us/</a> )
Pipelines	Ventyx 2011-03. Energy Velocity Energy Map data.
Roads (a) Primary/Secondary (b) Local/Primitive	TIGER/Line files 2006 Second Edition <a href="http://www.census.gov/geo/www/tiger/tiger2006se/tgr2006se.html">http://www.census.gov/geo/www/tiger/tiger2006se/tgr2006se.html</a>
Transmission Lines	Ventyx 2011-03. Energy Velocity Energy Map data.
Wind farms	FAA obstructions data (1992-2010) Wyoming built turbines database (O'Donnell & Francher 2010)



Figure 6. Disturbance index components

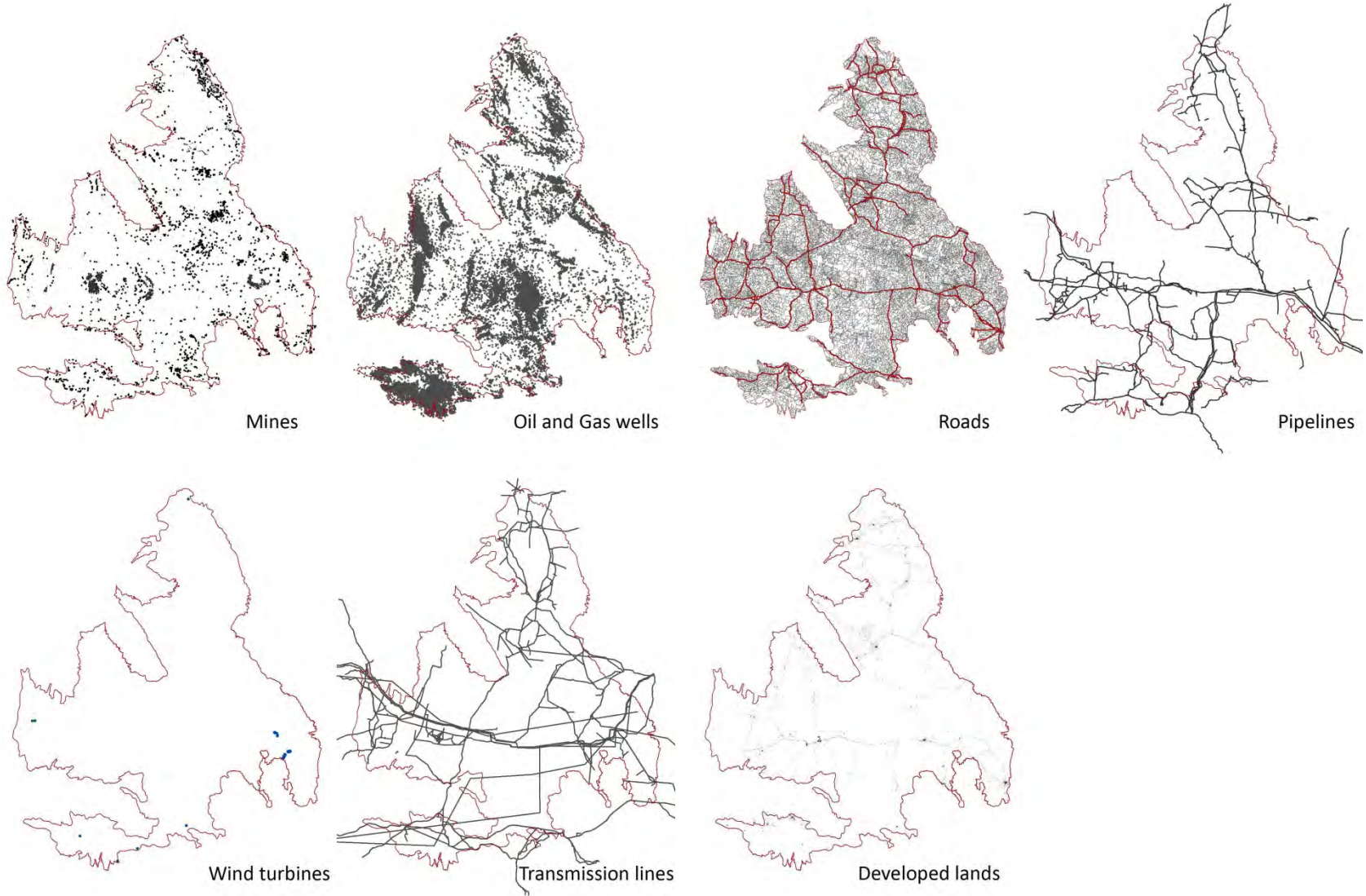
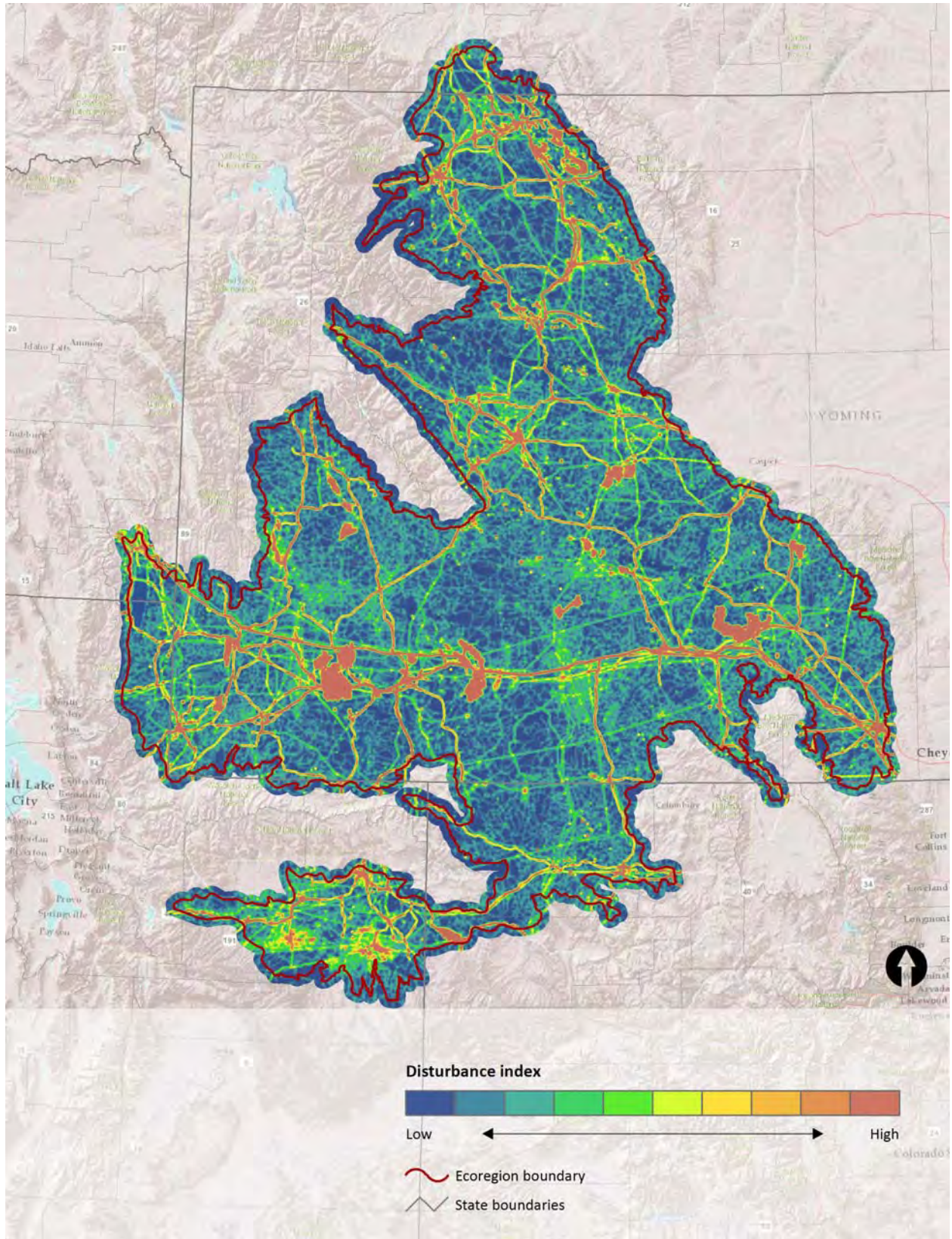




Figure 7. Disturbance index



We designed this index to maximize selection of un-disturbed occurrences of biodiversity targets, i.e. those in good ecological condition, and minimize selection of areas with competing economic values, such as areas densely populated with active oil and gas wells. As such, the index functions as a measure of ecological disturbance and a generalized, coarse-scale measure of relative cost of conservation effort and investment.

## Analysis framework

To create a GIS framework for site selection analysis, we divided the study area into approximately 14,000 planning units of uniform shape (hexagons) and size (1,000 ha). This layer of planning units (PUs) is shown in Figure 8. We then populated this PU framework as follows:

- identified PUs containing lands in Gap status 1 & 2;
- calculated cost/condition value of each PU by summarizing disturbance index;
- calculated amount (area or count) of each focal species and ecosystem type in each PU

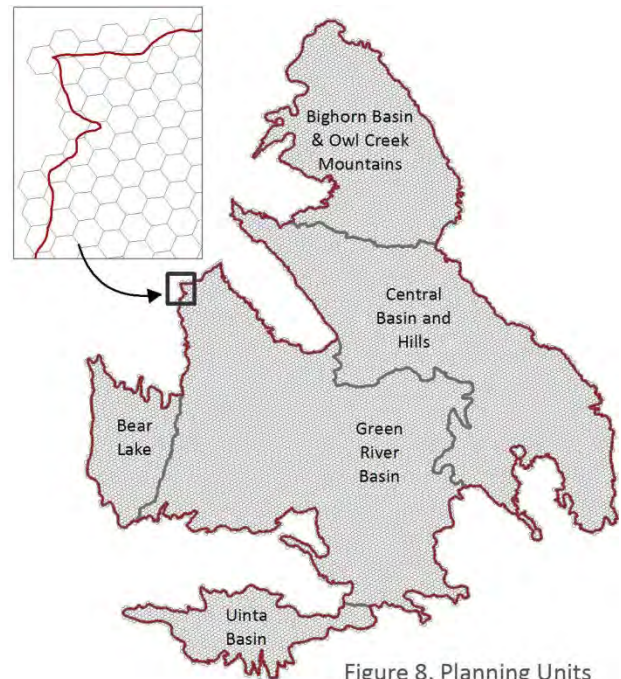


Figure 8. Planning Units

## Site Selection

MARXAN is a software package developed for conservation planning that optimizes site selection to meet user-defined representation goals for biodiversity targets while optimizing for minimal user-defined planning unit cost (Ball & Possingham, 2000; Possingham, Ball & Andelman, 2000). The MARXAN cost function includes an optional connectivity component that provides a cost savings for sites that share a boundary. This has the effect of driving site selection towards configurations that include more connected sites and fewer isolated sites. The MARXAN cost function is explained in Ball & Possingham (2000) and Game & Grantham (2008).

In this analysis, the 14,000 hexagons form the planning unit framework. The biodiversity targets are the 75 focal species and the 75 ecosystem types defined and mapped by the ecosystem classification. Planning unit cost was derived from the cost/condition index by summarizing disturbance index (see Figure 8). Lands in Gap status 1 & 2 were the initial set locked into the site selection optimization, which added planning units to meet ecosystem representation goals. Through MARXAN analysis, we designed a portfolio of sites that includes the Lands in Gap status 1 & 2 and meets the representation goals for focal species and ecosystem types while optimizing for efficiency and condition (based on the cost/condition index) and a configuration that maximizes adjacency or contagion among PUs. This initial portfolio is shown in Figure 9.



For a given set of input parameters (biodiversity targets, goals, cost index, boundary lengths and weighting coefficients), a MARXAN analysis will generate multiple possible solutions, and report the results as a 'best solution' and a 'sum of solutions.' Each individual solution is a set of sites identified by the MARXAN algorithm to optimize for the lowest combination of planning unit cost (based on disturbance index), target shortfall and boundary length. The 'best' solution is the solution with the lowest combined score relative to the other individual solutions that were evaluated. The 'sum of solutions' is the frequency with which each planning unit was selected. These two results are both useful and serve complementary purposes. The best solution identifies one optimal, efficient configuration of planning units that collectively meets representation goals, while the sum of solutions is a measure of the relative contribution of any planning units towards an optimal solution. Because data representing biodiversity targets and ecological condition are always limited and incomplete, and because portfolio design must continually adapt to new data and changing land uses, the sum of solutions is a useful measure of the relative conservation value of any part of the study area, and useful for visualizing alternative portfolio designs.

The sum of solutions is derived from a single set of MARXAN parameters, and a single set of representation goals. Wilhere et al. (2008) designed an index for site prioritization using MARXAN that is a measure of relative contribution to an optimal solution, but is independent of a single set of goals. This measure, called optimacy, is calculated as the sum of solutions across the full range of goals, from zero to 100%. Therefore, optimacy is a measure of the relative value of any part of the study area towards an optimal solution regardless of the representation goal. We calculated optimacy as the sum of the sum of solutions at nine goals levels: 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80% and 90%. The result is shown in Figure 10.

## Portfolio Design

Considerations of future conservation actions in the Wyoming Basins cannot ignore two large and important issues playing out within the landscape: the threatened listing of the Greater Sage Grouse under the Endangered Species Act (see Knick and Connelly 2011 for a detailed discussion) and the accelerating pace of projected energy development. For portfolio design we considered two scenarios: first, a standard portfolio design intended to meet standard target goals for both coarse filter and fine filter targets and second, with goals driven by the Greater Sage Grouse 75% core areas as defined by Doherty et al. (2011) and then revised at the state level by individual state planning processes. For both scenarios we considered conflicts between conservation priorities and projected oil and gas and wind development.

## Conflicts with energy development

We examined the intersection between conservation priorities identified as part of this analysis and patterns of future oil and gas development forecasted by Copeland et al (2009 & *in review*) and proposed wind development farms compiled by the Wyoming Department of Environmental Quality and Wyoming Chapter of TNC in June 2011 (see Figures 9a and 9b). These proposed wind farms correspond to other estimate of potential wind development in Wyoming (Kiesecker et al 2001b, Copeland et al., *In Review.*). In looking specifically at the potential conflicts between projected oil and gas development and conservation areas, we used the vulnerability function within Marxan to consider trade-offs in the selection of a planning unit to the final solution



against a weighted likelihood of development occurring. Marxan then optimizes the selection of a reserve network configuration to minimize the tradeoffs involved.

Figure 9a. Potential oil and gas development scenarios

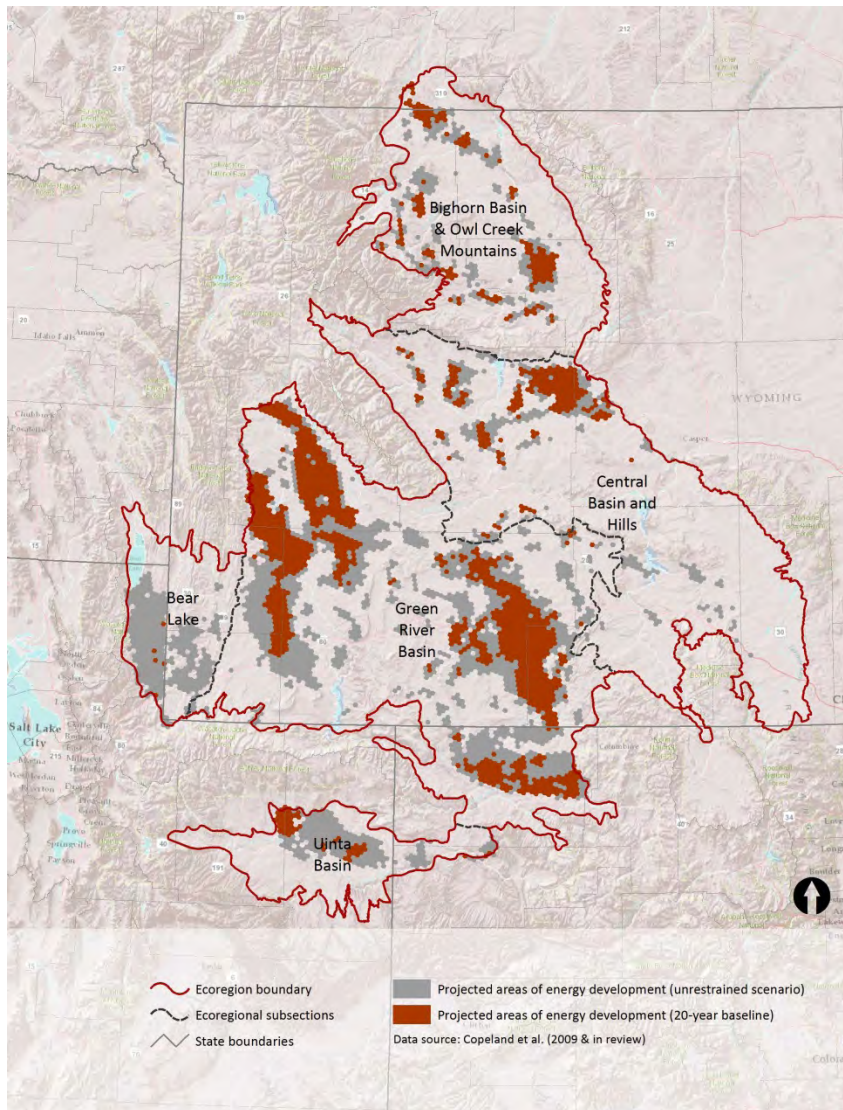
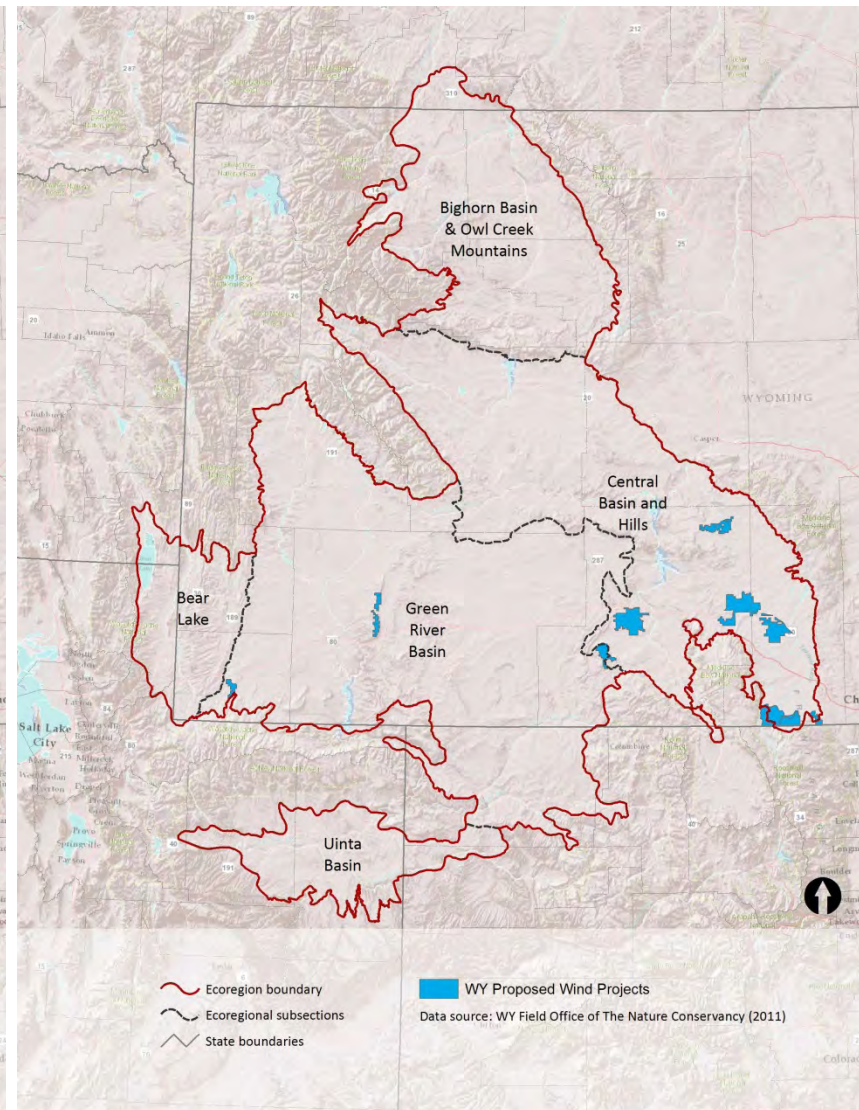


Figure 9b. Proposed wind development



## RESULTS & DISCUSSION

### Portfolio with Standard Ecoregional Goals

The portfolio of conservation areas defined by fine and coarse filter goals as stated in Appendix A, covers 5.9 million ha, or 43% of the study area, and consists of 132 sites that range in size from 1,000 ha to 804,000 ha (Figure 10). In comparison, the suite of priority conservation areas identified in the 2001 Wyoming Basins ecoregional assessment covered 352,000 ha, or 27% of the study area and consisted of 76 conservation areas that ranged in size from 48 ha to 516,000 ha. The two priority conservation areas are coincident over 2 million hectares. In other words, 56% of the conservation areas identified in the 2001 assessment are also part of the conservation solution in this revised analysis (Figure 11).

We achieve all representation goals set for terrestrial ecosystems broadly across the ecoregion (table 6), although we fall short of achieving at least 95% of our stated goals on a by-section level for 4 coarse filter small-patch targets. For example, although we meet our 30% representation goal for Rocky Mountain Lower Montane-Foothill Shrublands at the ecoregional scale, we only achieve 78% and 80% of our 30% goals in the Central Basin and Hills (#2) and the Uinta Basin (#5) sections respectively. There are no terrestrial ecosystems for which we fail to reach at least 75% of our stated goals.

Similarly, we achieve all representation goals with two exceptions for fine filter targets broadly across the ecoregion – the Pygmy Rabbit (94%) and Swift Fox (85%). We fail to meet at least 95% of our by section goals for an additional two species targets - Bald Eagle and Mountain Plover. On the whole however, we achieve almost all of our conservation goals with the current portfolio configuration. For a full list of conservation goals met by section by target, please refer to Appendix B.

**Table 6. Summary of targets captured within the portfolio**

		Targets (n)	Target meeting goal (n)	% targets meeting goal
Terrestrial Ecosystems	Matrix	5	5	100%
	Large	6	6	100%
	Linear	3	3	100%
	Small Patch	19	19	100%
Species	Amphibians	2	2	100%
	Birds	5	3	60%
	Mammals	11	9	82%
	Plants	57	57	100%

Of the 132 sites selected as part of the portfolio of conservation areas, 46 consist of a single planning unit. All but 2 of these sites were selected to meet goals for fine filter targets for which we set a goal of capturing all known occurrences. These include the suite of globally rare or imperiled plant and mammal targets. The other 2 sites, # 131 (John Weller Mesa) and #132 (Halfway Hollow North), were selected because they represented the best occurrences of two small patch terrestrial ecosystems (Rocky Mountain Ponderosa Pine Woodland and Savanna and



Figure 10. Portfolio of conservation areas

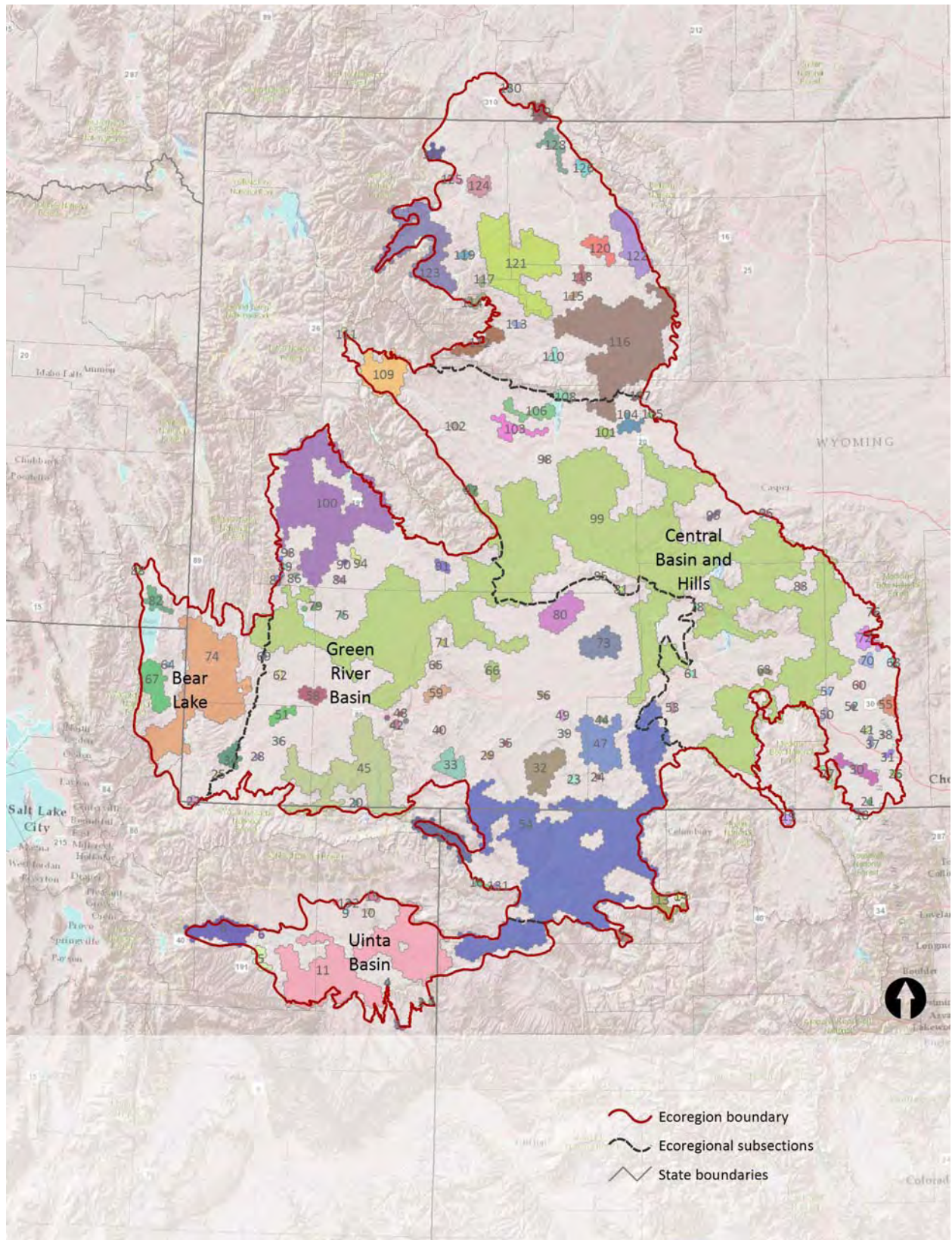
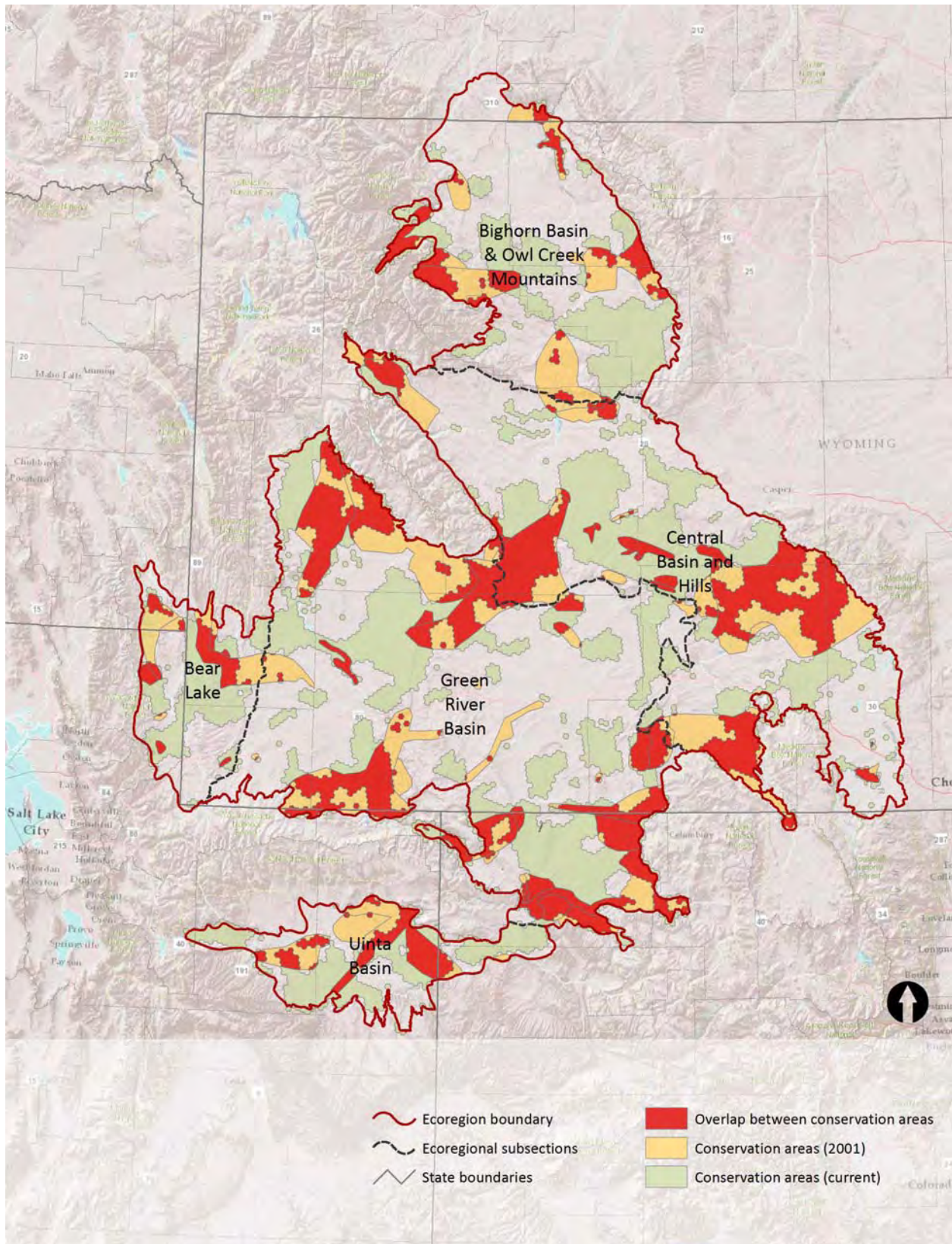




Figure 11. Portfolio of conservation areas compared to 2001 portfolio of conservation areas



Southern Rocky Mountain Montane-Subalpine Grassland) in the ecoregion. For a summary of number of targets and areas size by conservation area, see Appendix C.

## Disturbance Index and Optimicity Results

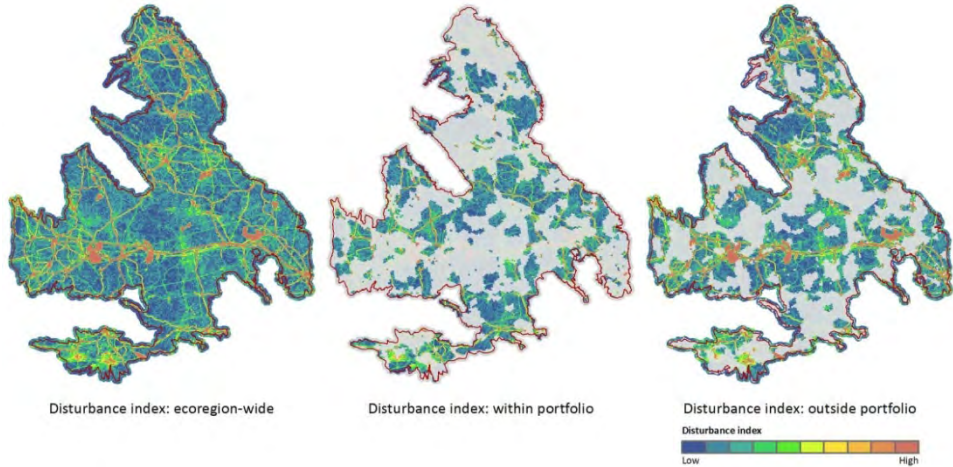
### Disturbance Index

We compared the distribution of disturbance index values within the portfolio against areas outside the portfolio and against the ecoregion as a whole. Lower average and sums of disturbance index values suggests that areas captured in any subset are likely to be in better ecological condition relative to other subsets. Values in table 7 suggest that the portfolio selection process succeeded in meeting conservation goals in areas with lower disturbance values. Figure 12 also compares the areas within and outside the portfolio relative to the disturbance index.

**Table 7. Distribution of disturbance index values ecoregion-wide, within the portfolio, and outside of the portfolio**

	Ecoregion - wide	Inside Portfolio	Outside Portfolio
Minimum value	0	0	0
Maximum value	3,411	2,699	3,411
Range	3,411	2,699	3,411
Mean	134	105	152
Median	71	66	76
Sum	22,882,703,360	6,920,954,368	15,961,749,504

**Figure 12. Conservation areas and the disturbance index**

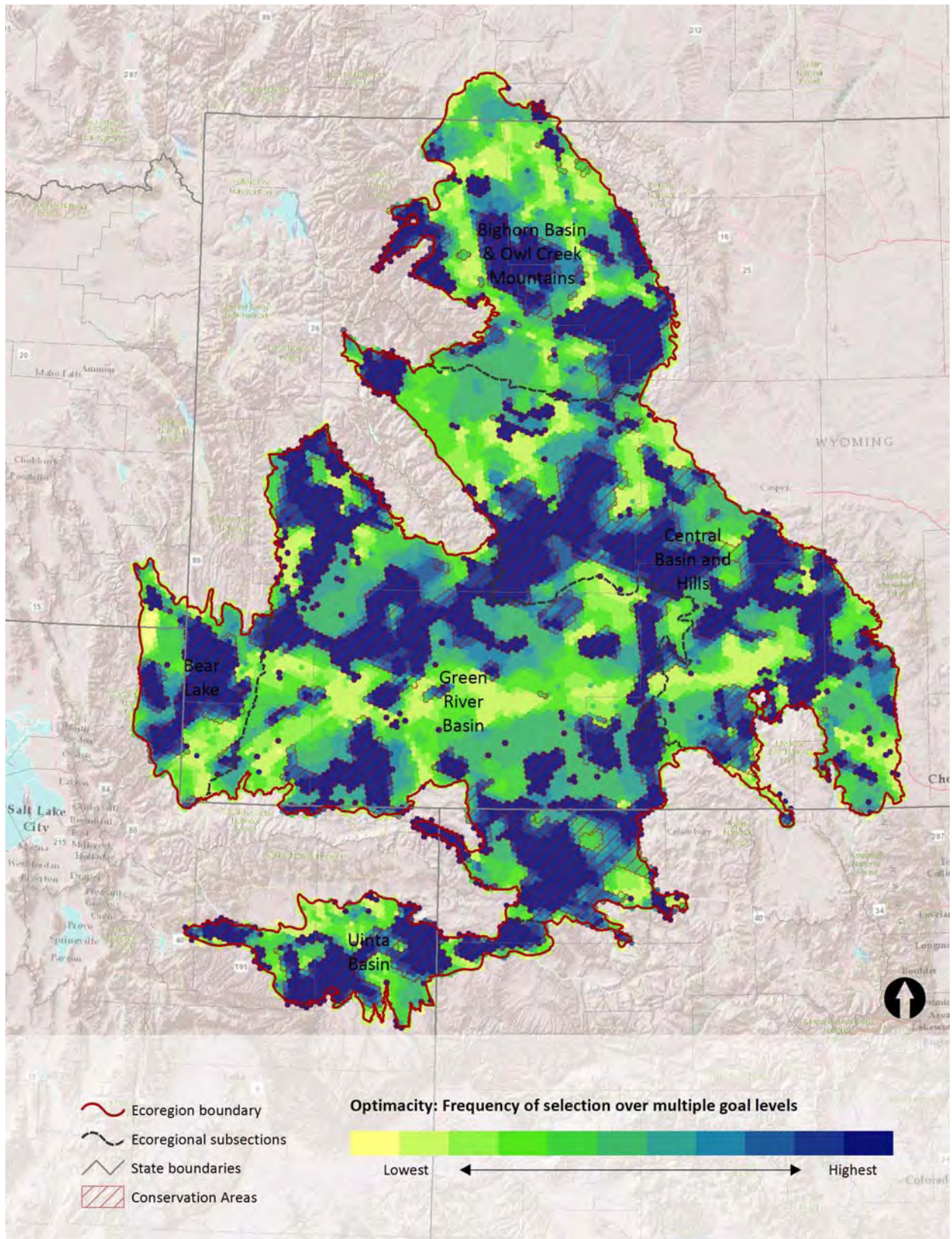


### Optimicity

To evaluate the relative contribution of each planning units to the overall solution set of conservation areas, we calculated the optimicity index (Wilhere et al. 2008) (figure 13). High optimicity scores for a planning unit suggest that it likely contain one or more rare targets



Figure 13. Optimacity



and/or contain a large set of important targets in relatively good condition. Optimacy scores for planning units can be used to prioritize places for conservation within a portfolio of conservation areas as well as areas outside of the portfolio. In table X4 below, planning units with a score of 100 are those selected in every alternate solution considered at every goal representation level. 58% of the planning units selected as part of the final solution were selected in 100% of the optimacy runs considered. Of the planning units within the ecoregion selected at every representation level, 99% were included within the final portfolio solution set.

**Table 8. Percent planning units elected by number of optimacy scenarios**

# of runs selected:	0	< 10	10	20	30	40	50	60	70	80	90	100
ecoregion - wide	0.3%	0.0%	13.6%	7.9%	8.9%	10.0%	10.8%	6.7%	4.9%	4.2%	8.1%	24.4%
within portfolio	0.0%	0.0%	0.1%	0.2%	0.5%	1.5%	1.9%	4.3%	6.4%	8.5%	18.6%	58.1%

## Land Management, Ownership and GAP status

The distribution of ownership and management of lands within the portfolio does not differ significantly from the distribution across the ecoregion (Table 8a). Federal and state agencies own or manage 70% of the lands within the portfolio. The largest manager of the portfolio conservation areas is the Bureau of Land Management (BLM). Private lands encompass 29% of the portfolio area. For a summary of land ownership by conservation area, see Appendix D.

Approximately 30% of the lands within the portfolio fall within GAP status 4 with no known mandate for protection (Table 8b). An additional 10% are managed in some manner for biodiversity, with the remaining majority of lands managed for multiple uses.

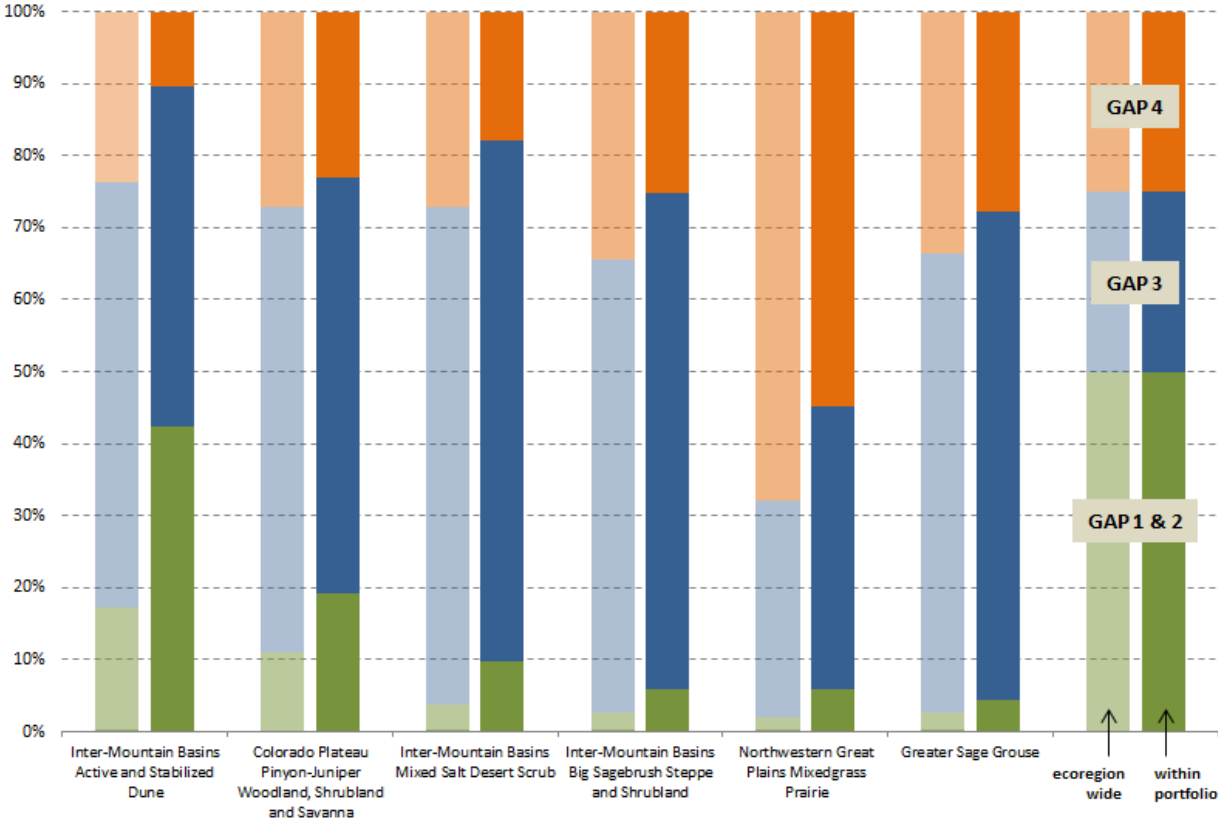
**Table 9a. Pattern of land ownership within the portfolio**

	Land Ownership	Hectares	Acres	% of Portfolio
Federal	Bureau of Land Management (BLM)	3,339,522	8,251,959	56%
	Bureau of Reclamation (BOR)	139,699	345,197	2%
	Fish and Wildlife Service (FWS)	46,161	114,063	1%
	Forest Service (USFS)	101,417	250,600	2%
	National Park Service (NPS)	18,666	46,124	< 1%
State	State Lands	544,890	1,346,424	9%
Private	Private Conservation Land	99,988	247,070	2%
	Private (Unprotected)	1,633,500	4,036,380	27%
Tribal	Native American Lands	60,744	150,100	1%

**Table 9b. GAP status within the portfolio**

GAP code	Management Description	Hectares	Acres	% of Portfolio
1	1 - managed for biodiversity - disturbance events proceed or are mimicked	53,580	132,400	1%
2	2 - managed for biodiversity – disturbance events suppressed	536,213	1,325,012	9%
3	3 - managed for multiple uses – subject to extractive (e.g. mining or logging) or OHV use	3,689,116	9,116,003	62%
4	4 - no known mandate for protection	1,705,679	4,214,825	29%

**Figure 14. Distribution of matrix terrestrial systems and Greater Sage Grouse by GAP status**



We examined the distribution of the matrix terrestrial systems (5) and the Greater Sage Grouse core areas across the ecoregion and within the portfolio across the GAP status categories (Figure 14). Of the matrix systems, the Northwestern Great Plains Mixedgrass Prairie is the least protected with over half of its distribution across the ecoregion (274,000 of 403,000 hectares) and within the portfolio (72,000 of 132,000 hectares) in GAP 4 status. For the Greater Sage Grouse, 68% of areas identified as core habitat that was also captured within the ecoregion are managed for multiple uses (GAP 3) with less than 10% of core areas in either GAP status 1 or 2.

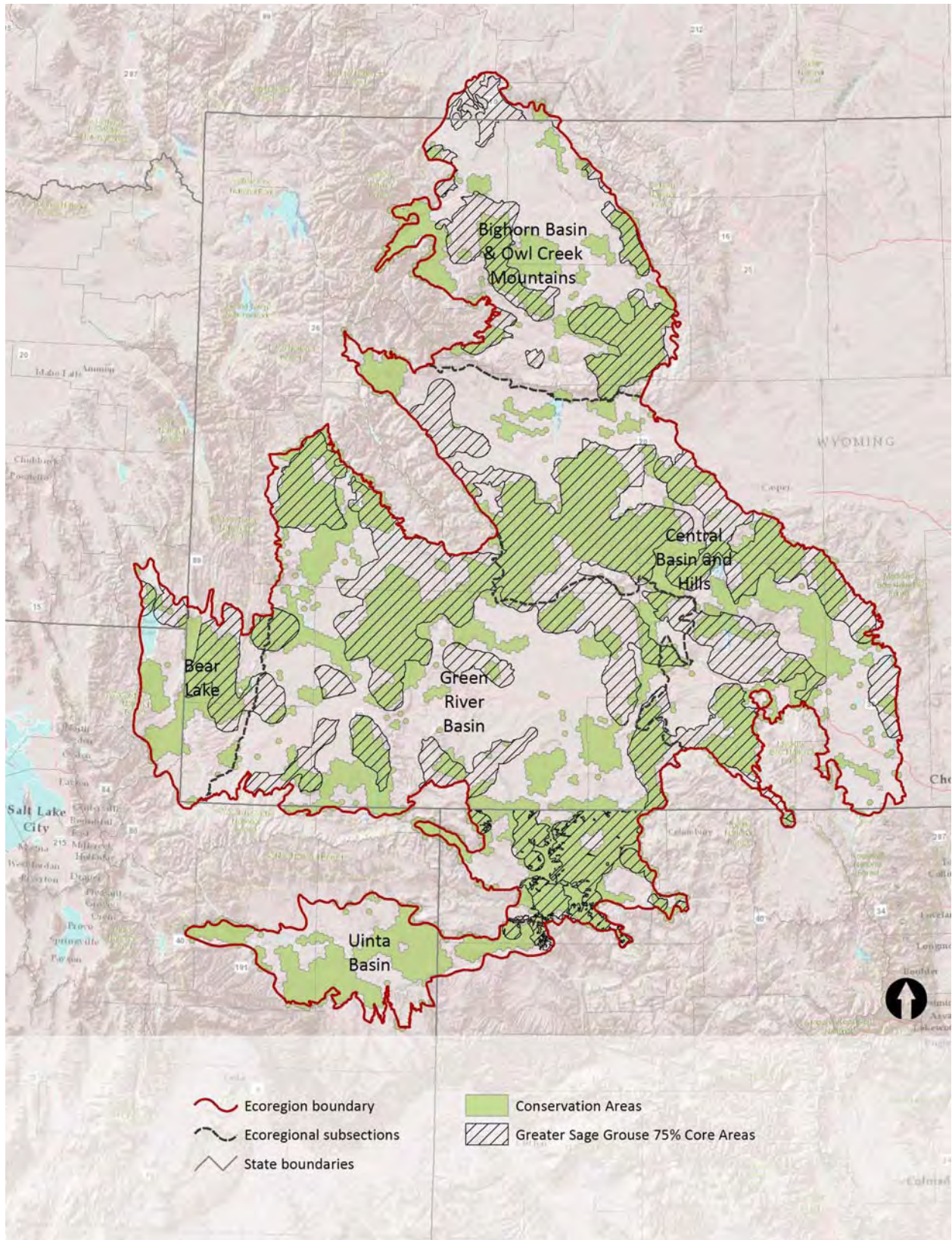
### Sage Grouse 75% core areas solution

How much of our ecoregional goals do we meet if we were to default to the Greater Sage Grouse 75% core areas alone? The 75% core areas represent an area of approximately 5.8 million hectare or about 44% of the ecoregion boundary. 60% of the Greater Sage Grouse core areas (or 3.2 million hectares) overlaps with the conservation areas selected (figure 15).

Given the extensive reach of these core areas, how well does the Greater Sage Grouse function as an umbrella species for extending conservation action to the other species and terrestrial ecosystem targets in the assessment? The results, not surprisingly are mixed. Of the 659 planning units with targets whose goals were set at 100% of known records, only 40% were captured within the core areas.



Figure 15. Portfolio of conservation areas and Greater Sage Grouse 75% core areas



While the core areas do well in meeting goals for a small set of targets, the majority fall short for a number of reasons. First, because the core areas tend to be concentrated in Wyoming, they do a poor job of meeting goals for targets that we stratified across ecoregional sections. Second, many of our fine filter targets were selected precisely because they were considered to be inadequately captured by a coarse filter approach alone. In many cases, these endemic and imperiled species have severely constrained known distributions outside of the sagebrush ecosystem and so it is not surprising that the Greater Sage Grouse core areas do a poor job in sweeping in this suite of targets.

## Conflicts with energy development

Baseline projections of potential oil and gas build-out in the foreseeable future intersected with 493,000 hectares, or 8% of the conservation priorities identified in this analysis (Figure 16a). The areas of potential conflict impact critical winter ranges for wide-ranging species such as Elk, Pronghorn, and Mule Deer as well as known nest areas for Bald Eagle and Ferruginous Hawk and core areas for the Greater Sage Grouse (Appendix E). In particular 40% of the ecoregion-wide representation goals set for Mountain Plover and 57% of goals for the Pygmy Rabbit overlap with areas of projected future baseline level of development. Importantly, 12% of the overlap of potential oil and gas development areas with the portfolio of conservation areas also coincide with known locations of globally imperiled species for which we assigned a representation goal of protecting all currently known occurrences. These include close to half of the current occurrences for the Wyoming Pocket Gopher and substantive proportions of known occurrences of rare or globally imperiled (G1-G2 ranked) plants such as Porters Sagebrush (*Artemisia porteri*), Big Piney Milkvetch (*Astragalus drabelliformis*), Large-fruited Bladderpod (*Lesquerella macrocarpa*), and Beaver Rim Phlox (*Phlox pungens*). These conflicts in particular should be highlighted for avoidance or minimization of potential impacts from development.

Conservation areas with large extents overlapping potential development include Mexican Flats (#52), Hams Fork (#58), Upper Green River (#100) and Alkali Flats (#104).

A more expansive estimate of potential oil and gas build-out (unconstrained scenario), allowing development in the highest quintile of oil and gas potential areas, intersected with an additional 902,000 hectares which altogether represents approximately 24% of the area identified as conservation priorities in the Wyoming Basins (Figure 16b). Under this unconstrained development scenario, over 40% of the ecoregion-wide goals set for the terrestrial systems (and captured with the current conservation area configuration) Rocky Mountain Aspen Forest and Woodland and Inter-Mountain Basins Mixed Salt Desert Scrub, 62% of the Colorado Plateau Mixed Bedrock Canyon and Tableland and 146% of the Inter-Mountain Basins Semi-Desert Grassland overlap with areas of potential development (Appendix F). The area of development also overlaps with all currently known occurrences of the G1-ranked Hamiltons Milkvetch (*Astragalus hamiltonii*) and G2-ranked Goodrich's Penstemon (*Penstemon goodrichii*).

We re-ran the Marxan analysis deploying base levels of projected oil and gas development as an additional weighted future threat vulnerability layer to examine what trade-offs might be made to avoid conflicts with development while still meeting our conservation goals as efficiently as possible. The resulting network of conservation areas dropped certain areas of the original portfolio while adding in other areas, amounting to a net additional land area of 61,000 hectares (Figure 17). 95% of the original portfolio of conservation areas selected were also selected in

the revised analysis. Ecoregion-wide conservation goals were met for all biodiversity targets with small exceptions at the stratified section level. The disturbance index summed across the planning units included in the revised conservation areas is slightly greater than the value for the original set of conservation areas.

Of the area in the original set of conservation areas that overlapped with projected areas of development, 96% were also selected as part of the revised network of conservation areas. Although the increased areal extent and disturbance index score suggests a drop in the efficiency of the revised network of the conservation areas, overall there appears to be few tradeoffs to be found in the final solution set. There are two possible explanations for these results. First, it may be that the probability weighting of future development needs to be increased. However, it's more likely that we see few changes because there are few viable alternatives to be considered. Of the planning units in the original set of conservation areas that were also in conflict with future base levels of development, 71% were selected in the optimality analysis across all representation goal scenarios. This suggests that these areas are important because they contain occurrences of rare targets with high conservation goals or they contain an unusually large number of targets in relatively good ecological condition.

## Conflicts with projected wind energy development

The potential wind farms extend over approximately 242,000 hectares in the ecoregion, of which 76,000 hectares overlap with conservation priorities identified in this analysis (Figure 18). In total, 1.3% of the overall conservation priorities overlap with currently known locations of potential wind development areas. Less than 0.5 % of the conservation portfolio with known locations of imperiled fine filter species for which we assigned a goal of 100% of all known occurrences overlap with areas at risk for wind development.

## Conclusion

This ecoregional portfolio is a starting point to support long-term conservation of the ecoregion's biodiversity. This analysis was completed also to help direct investments in conservation to places that advance regional conservation goal, especially in the context of current Greater Sage Grouse conservation efforts and forecasts of future energy development. Conservation areas defined at the ecoregional level are large and complex and often include areas that are not suitable for conservation as well as areas that are suitable for multiple uses, and we expect local planners to refine boundaries accordingly. Still, the ecoregional approach is useful for informing smaller scale conservation decisions by highlighting the regional importance of any particular place and in considering trade-offs as the landscape of opportunities and challenges for implementing conservation actions across the ecoregion shift over time.



Figure 16a. Conflicts with potential oil and gas development (base scenario)

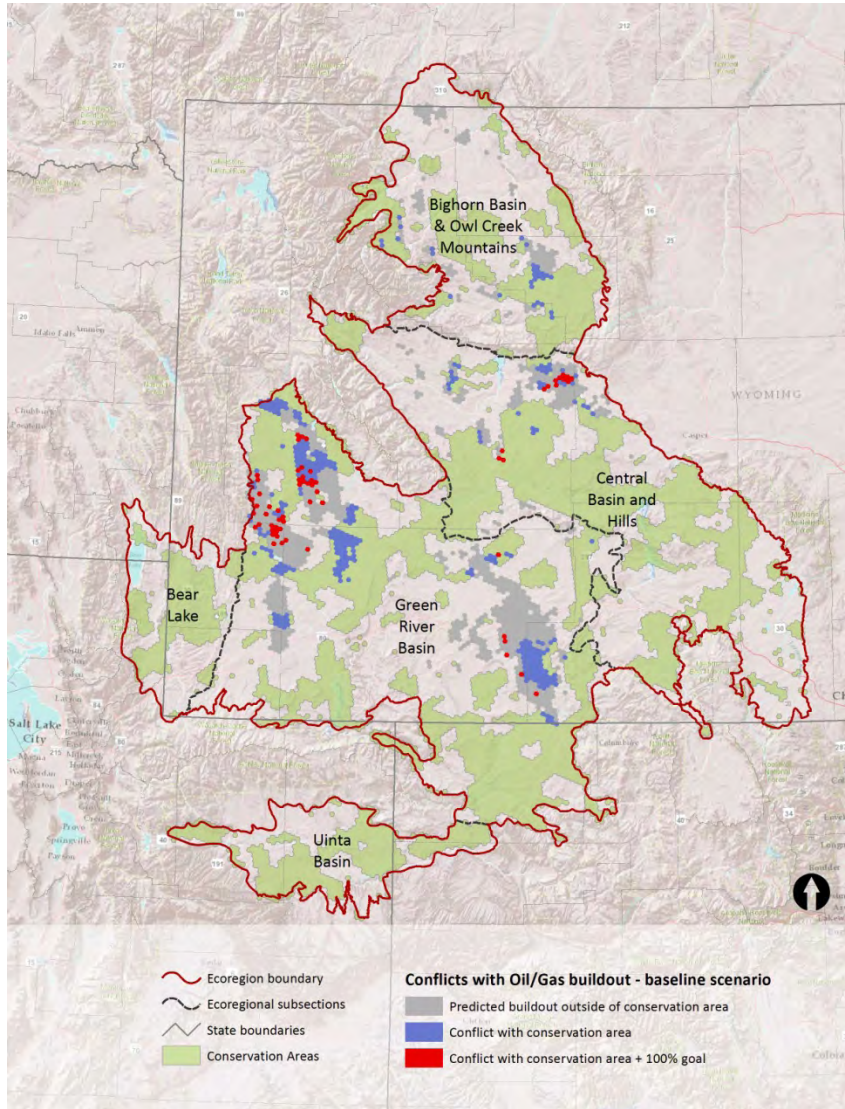


Figure 16b. Conflicts with potential oil and gas development (unconstrained scenario)

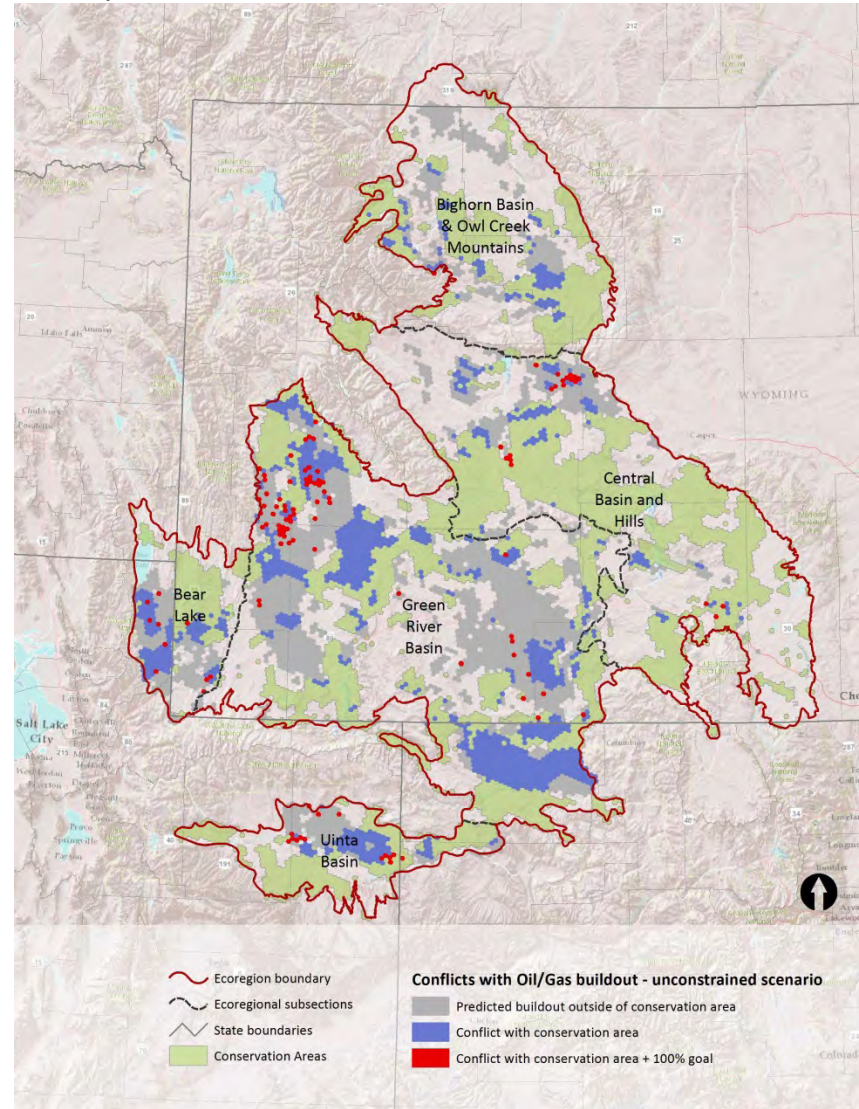




Figure 17. Revised conservation areas with oil and gas vulnerability

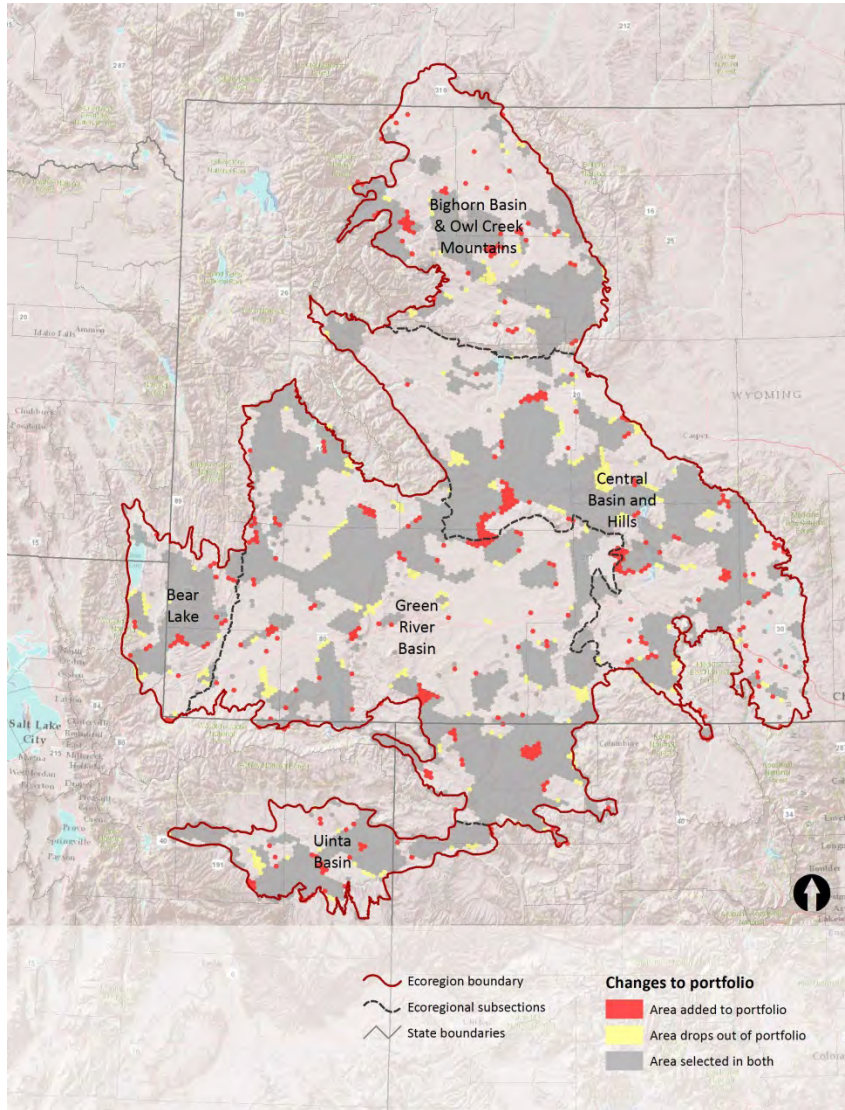
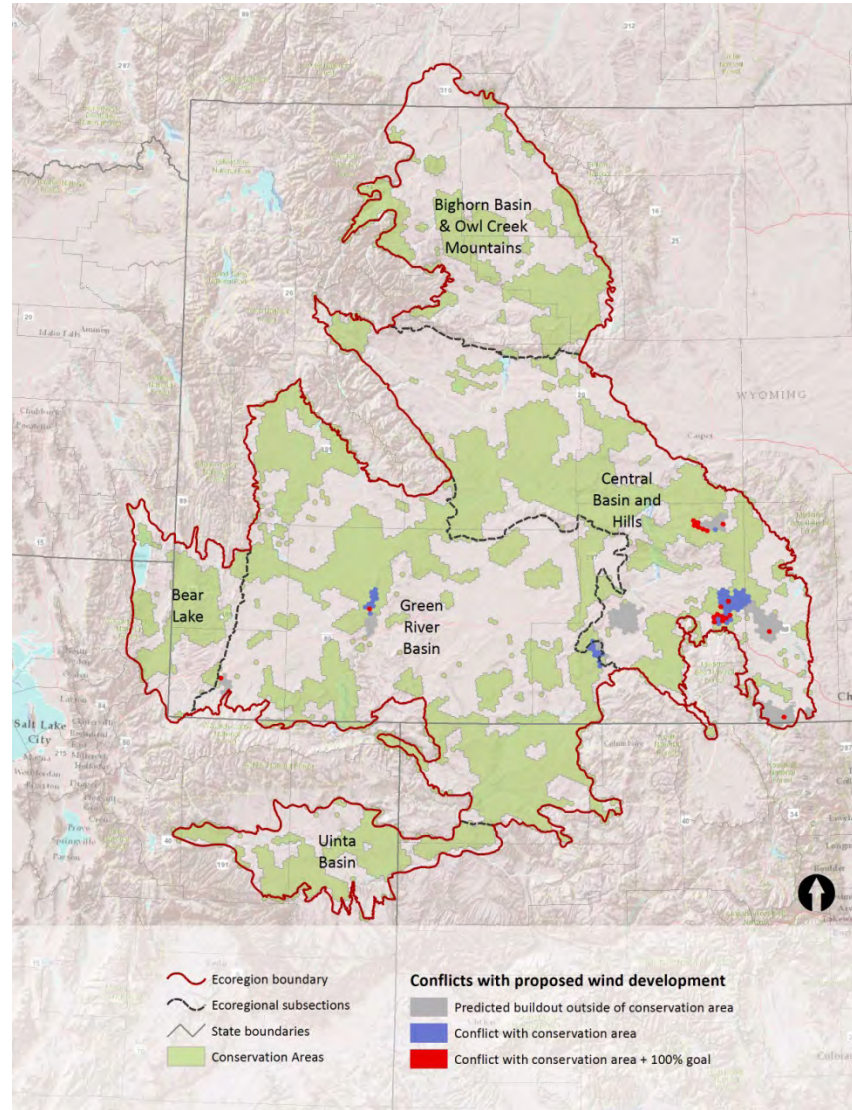


Figure 18. Conflicts with wind energy development



## REFERENCES

- Anderson MG, Ferree CE (2010) Conserving the Stage: Climate Change and the Geophysical Underpinnings of Species Diversity. *PLoS One* 5.
- Bailey, R.G., McNab, W.H., Avers, P.E., and King, T., 1994, *Ecoregions and Subregions of the United States (Lower 48)*: USDA Forest Service, Washington, DC.
- Ball IR. (2000) *Mathematical applications for conservation ecology: the dynamics of tree hollows and the design of nature reserves*. PhD Thesis, The University of Adelaide.
- Ball IR & Possingham HP (2000) MARXAN (V1.8.2): Marine Reserve Design Using Spatially Explicit Annealing, a Manual. Available online at <http://www.ecology.uq.edu.au/index.html?page=27710>
- Bartelmus P (1997) Measuring sustainability: data linkage and integration, pp110-118 in Moldan and Billharz *Sustainability Indicators: Report of the Project on Indicators of Sustainable Development*, Countryside Commission, Cheltenham.
- Beier P & Brost B (2010) Use of Land Facets to Plan for Climate Change: Conserving the Arenas, Not the Actors. *Conservation Biology*, DOI: 10.1111/j.1523-1739.2009.01422.x
- Carwardine J, Klein CJ, Wilson KA, Pressey RL & Possingham HP (2009) Hitting the target and missing the point: target-based conservation planning in context. *Conservation Letters*, 2, 3–10.
- Copeland HE, Doherty KE, Naugle DE, Pocewicz A, and Kiesecker JM (2009) Mapping Oil and Gas Development Potential in the US Intermountain West and Estimating Impacts to Species. *PLoS ONE* 4(10): e7400. doi:10.1371/journal.pone.0007400
- Copeland, HE, Pocewicz A & Kiesecker JM (2011) Geography of energy development in Western North America: Potential impacts to terrestrial ecosystems. Chapter in: *Energy development and wildlife conservation in Western North America* (Edited by DE Naugle)
- Copeland HE, Pocewicz A, Naugle DE, Griffith, T, Keinath D, & J.S. Evans. *In Review*. Quantifying the benefits of the core area policy and conservation easements to sage-grouse in Wyoming. *PLoS ONE in review*.
- Copeland HE, Tessman SA, Girvetz EH, Roberts L, Enquist C, Orabona A, Patla S, and JM Kiesecker. 2010. A geospatial assessment on the distribution, condition, and vulnerability of Wyoming's wetlands *Ecological Indicators* 10: 869-879.
- Dobson A (1996) *Conservation and Biodiversity*. Scientific American Library, New York. page 66.
- Doherty, K. E., D. E. Naugle, H. E. Copeland, A. Pocewicz, and J. M. Kiesecker. 2011. Energy development and conservation tradeoffs: systematic planning for Greater Sage-Grouse in their eastern range. Pp. 505–516 in S. T. Knick and J. W. Connelly (editors). *Greater Sage-Grouse*:

ecology and conservation of a landscape species and its habitats. *Studies in Avian Biology* (vol. 38), University of California Press, Berkeley, CA.

Doherty KE, Tack JD, Evans JE, and DE Naugle (2010). Mapping breeding densities of greater sage-grouse: A tool for range-wide conservation planning. BLM Completion Report. Interagency Agreement #LPOPG00911.

Fish and Wildlife Service (2010). 12-Month Findings for Petitions to List the Greater Sage-Grouse (*Centrocercus urophasianus*) as Threatened or Endangered, Department of Interior. 50 CFR Part 17.

Game ET & Grantham HS (2008) Marxan User Manual: For Marxan version 1.8.10. University of Queensland, St. Lucia, Queensland, Australia, and Pacific Marine Analysis and Research Association, Vancouver, British Columbia, Canada.

Gessler, P.E., I.D. Moore, N.J. McKenzie, and P.J. Ryan. 1995. Soil-landscape modeling and spatial prediction of soil attributes. *International Journal of GIS*. Vol 9, No 4, 421-432.

Grand J, Cummings MP, Rebelo TG, Ricketts TH & Neel MC (2007) Biased data reduce efficiency and effectiveness of conservation reserve networks. *Ecology Letters*, 10, 364-374.

Groves C, Jensen D, Valutis L, Redford K, Shaffer M, Scott J, Baumgartner J, Higgins J, Beck M & Anderson M (2002) Planning for biodiversity conservation: Putting conservation science into practice. *BioScience*, 52, 499-512.

Groves C (2003) *Drafting a Conservation Blueprint: A Practitioner's Guide to Planning for Biodiversity*. Island Press, Washington.

Halpin PN (1997) "Global climate change and natural-area protection: Management responses and research directions." *Ecological Applications* 7(3): 828-843.

Hanser, S. E., M. Leu, S. T. Knick, and C. L. Aldridge (editors). 2011. *Sagebrush ecosystem conservation and management: ecoregional assessment tools and models for the Wyoming Basins*. Allen Press, Lawrence, KS.

Higgins J & Esselman R (2006) *Ecoregional Assessment Toolbox*. The Nature Conservancy, Arlington, VA. Available online at <http://conservationgateway.org/era>.

Hoekstra JM, Boucher TM, Ricketts TH, Roberts C. 2005. Confronting a biome crisis: global disparities of habitat loss and protection. *Ecology Letters* 8: 23-29.

Hunter ML, Jacobson Jr. GL & Webb T (1988) Paleocology and the coarse filter approach to maintaining biological diversity. *Conservation Biology*, 2, 375-385.

Hunter ML (1991) Coping with ignorance: The coarse filter strategy for maintaining biodiversity. In: *Balancing on the Brink of Extinction* (Ed. K.A. Kohm), pp. 266-281. Island Press, Washington.

International Energy Agency (2007) *World Energy Outlook 2007*. Paris, France.



- Jenkins RE (1976) Maintenance of natural diversity: approach and recommendations. In: K. Sabol (ed.) Transactions—Forty-first North American Wildlife and Natural Resources Conference. Washington, D. C. March 21-25, 1976. Pp. 441-451.
- Kiesecker JM, Copeland H, Pocewicz A, Nibbellink N & McKenney B (2009) A framework for implementing biodiversity offsets: selecting sites and determining scale. *Bioscience* 59: 77-84.
- Kiesecker JM, Copeland H, Pocewicz A & McKenney B (2010) Development by design: blending landscape-level planning with the mitigation hierarchy. *Frontiers in Ecology and the Environment* 8: 261-266.
- Kiesecker JM, Copeland H, McKenney B, Pocewicz A, and K Doherty (In Press) Energy by Design: Making mitigation work for conservation and development. Chapter in: *Energy development and wildlife conservation in Western North America* (Edited by DE Naugle)
- Kiesecker, J.M., Evans, J.S., Fargione, J., Doherty, K., Foresman, K.R., et al. 2011b. Win-Win for Wind and Wildlife: A Vision to Facilitate Sustainable Development. *PLoS ONE* 6: e17566. doi:10.1371/journal.pone.0017566
- Kiesecker JM, Sochi K, Heiner M, McKenney B, Evans J, H Copeland. (In Press) Development by Design: Using a Revisionist History to Guide a Sustainable Future. Chapter in: *The Encyclopedia of Biodiversity* (Edited by Simon Levin and Peter Kareiva)
- Knick, S.T. and J. W. Connelly (editors). 2011. *Greater Sage-Grouse: ecology and conservation of a landscape species and its habitats*. Studies in Avian Biology (vol. 38), University of California Press, Berkeley, CA.
- Lehner, B., Verdin, K., Jarvis, A. (2008): New global hydrography derived from spaceborne elevation data. *Eos, Transactions, AGU*, 89(10): 93-94.
- MacArthur RH & Wilson EO (1967) *The Theory of Island Biogeography*. Princeton University Press, Princeton, NJ.
- Margules CR & Pressey RL (2000) Systematic conservation planning. *Nature*, 405, 243-253.
- McKenney B, & Kiesecker JM (2010) Policy Development for Biodiversity Offsets: A Review of Offset Frameworks. *Environmental Management* 45:165–176.
- Moore, ID., Gessler, P.E., Nielsen, G.A., and Petersen, G.A. 1993 Terrain attributes: estimation methods and scale effects. In *Modeling Change in Environmental Systems*, edited by A.J. Jakeman M.B. Beck and M. McAleer (London: Wiley), pp. 189 - 214.
- Moore ID, Grayson RB & Ladson AR (1991) Digital Terrain Modelling: A Review of Hydrological, Geomorphological, and Biological Applications. *Hydrological Processes*, 5:3-30.
- Noss RF (1996) "Ecosystems as Conservation Targets." *Trends in Ecology and Evolution* 11: 351.
- O'Donnell M.S. & Francher T.S. (2010) Spatial mapping and attribution of Wyoming wind turbines: U.S. Geological Survey Data Series 524.

Olson DM, Dinerstein E, Wikramanayake ED, Burgess ND, Powell GVN, Underwood EC, D'Amico JA, Itoua I, Strand HE, Morrison JC, Loucks CJ, Allnutt TF, Ricketts TH, Kura Y, Lamoreux JF, Wettengel WW, Hedao P, & Kassem KR. Terrestrial Ecoregions of the World: A New Map of Life on Earth. *BioScience* 51:933-938.

Poiani K, Richter B, Anderson M, & Richter H (2000) Biodiversity Conservation at Multiple Scales. *Bioscience* 50 (2). 133-146.

Possingham HP, Ball IR & Andelman S (2000) Mathematical methods for identifying representative reserve networks. In: *Quantitative Methods for Conservation Biology* (Eds S. Ferson & M. Burgman), pp. 291-305. Springer-Verlag, New York.

Pressey RL, and Bottrill MC (2008) Opportunism, threats, and the evolution of systematic conservation planning. *Conserv. Biol.* 22: 1340-1345.

Pressey RL, Possingham HP, and Day JR (1997) Effectiveness of alternative heuristic algorithms for identifying indicative minimum requirements for conservation reserves. *Biol Conserv* **80** :207-19.

Pritchard D (1993) Towards sustainability in the planning process: the role of EIA. *ECOS: A Rev of Conserv* 14:3-15.

Rich PM, Hetrick WA & Savings SC (1995) Modelling topographical influences on solar radiation: manual for the SOLARFLUX model. LA-12989-M, Los Alamos National Laboratories, Los Alamos.

Tarboton, D. G., (1997), A New Method for the Determination of Flow Directions and Contributing Areas in Grid Digital Elevation Models, *Water Resources Research*, 33(2): 309-319.

Tear TH, Karieva P, Angermeier PL, Comer P, Czech B, Kautz R, Landon L, Mehlman D, Murphy K, Ruckleshaus M, Scott JM, & Wilhere G (2005) How Much is Enough?: The Recurrent Problem of Setting Quantitative Objectives in Conservation. *BioScience* Vol. 55, No. 10, pp. 835-849.

Thorne JH, Huber PR, Girvetz EH, Quinn J, & McCoy MC (2009) Integration of Regional Mitigation Assessment and Conservation Planning. *Ecology and Society* 14(1): 47-63.

US Geological Survey, Gap Analysis Program (GAP). February 2011. Protected Areas Database of the United States (PADUS), version 1.2.

Wilhere G, Goering M & Wang H (2008) Average optimacity: An index to guide site prioritization for biodiversity conservation. *Biological Conservation*, 141, 770-781.

Wyoming Game and Fish Department (2010) State Wildlife Action plan. Wyoming Game and Fish Department, Cheyenne WY. website:  
[http://wgfd.wyo.gov/web2011/Departments/Wildlife/pdfs/SWAP\\_2012\\_FULL0002194.pdf](http://wgfd.wyo.gov/web2011/Departments/Wildlife/pdfs/SWAP_2012_FULL0002194.pdf)

**Appendix A. Conservation targets for the Wyoming Basins Ecoregion and data sources**

Tax. Group	Scientific Name	Common Name	Global Rank	Distrib	USFWS - ESA	Data Source	Data by State				
							CO	ID	MT	UT	WY
Amphibian	<i>Rana pipiens</i>	Northern leopard frog	G5	W	Petitioned	Natural Heritage Program data	-	X	-	X	X
Amphibian	<i>Bufo baxteri</i>	Wyoming toad	G1	E	Endangered	Natural Heritage Program data	-	-	-	-	X
Bird	<i>Haliaeetus leucocephalus</i>	Bald eagle	G5	W		Natural Heritage Program data (filtered for nests) CDOW Bald Eagle Active Nest Sites ( <a href="http://cogcc.state.co.us/">http://cogcc.state.co.us/</a> )	X	X	-	X	X
Bird	<i>Tympanuchus phasianellus columbianus</i>	Columbian sharp-tailed grouse	G4T3	E	Petitioned	Natural Heritage Program data CDOW CSTGR Production Areas ( <a href="http://ndis.nrel.colostate.edu/ftp/index.html">http://ndis.nrel.colostate.edu/ftp/index.html</a> )	X	-	-	-	X
Bird	<i>Buteo regalis</i>	Ferruginous hawk	G4	W		Natural Heritage Program data (filtered for nests) CDOW Ferruginous Hawk Active Nest Sites ( <a href="http://cogcc.state.co.us/">http://cogcc.state.co.us/</a> )	X	X	-	X	X
Bird	<i>Centrocercus urophasianus</i>	Greater sage grouse - core areas	G4	W	Candidate	CO: Greater Sage Grouse Priority Habitat areas ( <a href="http://www.arcgis.com/home/item.html?id=32687e3f2a95432dbc6428f5bde7af29">http://www.arcgis.com/home/item.html?id=32687e3f2a95432dbc6428f5bde7af29</a> ) ID: 75% Sage Grouse core areas (Doherty et al 2010) MT: Sage Grouse core areas ( <a href="http://fwp.mt.gov/gisData/metadata/sgcore.htm">http://fwp.mt.gov/gisData/metadata/sgcore.htm</a> ) WY: WG	X	X	X	X	X
Bird	<i>Charadrius montanus</i>	Mountain plover	G3	L	Listing being reconsidered	Natural Heritage Program data	-	-	X	X	X
Mammals	<i>Mustela nigripes</i>	Black-footed ferret - poly	G1	L	Endangered	CO: Black-footed Ferrets release sites (CDOW) UT: White-tailed Prairie Dog colonies (UTDWR) matched against UTNHP data with BFF occurrences (per recommendation of UTDWR) WY: Black-footed Ferret occupied colonies, release site, colonies with high probabili	X	-	-	X	X
Mammals	<i>Cervus canadensis</i>	Elk	G5	W		CO: Elk Winter Concentration + Severe Winter Range (CDOW - NDIS) UT: Elk Critical Range: (UTDWR) WY: Elk Crucial Range Boundaries for Wyoming (WGFD)	X	-	-	X	X
Mammals	<i>Thomomys idahoensis</i>	Idaho pocket gopher - SDM	G4	L		ID: Idaho pocket gopher (AMAFX01070) wildlife habitat model ( <a href="http://www.wildlife.uidaho.edu/idgap.htm">http://www.wildlife.uidaho.edu/idgap.htm</a> ) SWReGAP: Idaho Pocket Gopher Animal Habitat Model (180225) ( <a href="http://fws-nmcfwru.nmsu.edu/swregap/habitatreview/ModelQuery.asp">http://fws-nmcfwru.nmsu.edu/swregap/habitatreview/ModelQuery.asp</a> ) WY: SGCN Habitat Models (	X	X	-	X	X
Mammals	<i>Odocoileus hemionus</i>	Mule Deer	G5	W		CO: Mule Deer Winter Concentration Areas + Severe Winter Range + Critical Winter Range (CDOW) ID: Western States and Provinces Mule Deer Habitat Mapping Project Class D/E polygons ( <a href="http://www.gis.usu.edu/current_proj/muledeer.html">http://www.gis.usu.edu/current_proj/muledeer.html</a> ) WY: Mule Deer Crucial Ra	X	X	X	X	X

Appendix A. Conservation targets for the Wyoming Basins and their data sources (continued)

Tax. Group	Scientific Name	Common Name	Global Rank	Distrib	USFWS - ESA	Data Source	Data by State				
							CO	ID	MT	UT	WY
Mammals	<i>Zapus hudsonius preblei</i>	Preble's meadow jumping mouse	G5T2	L	Threatened (de-listed in WY)	Natural Heritage Program data	-	-	-	-	X
Mammals	<i>Antilocapra americana</i>	Pronghorn	G5	W		CO: Pronghorn Winter Concentration + Severe Winter Range (CDOW - NDIS) UT: Pronghorn crucial habitat (UTDWR) WY: 2006 Pronghorn Crucial Range Boundaries For Wyoming (WGFD)	X	-	-	X	X
Mammals	<i>Brachylagus idahoensis</i>	Pygmy rabbit	G4	D	Petitioned	Natural Heritage Program data	-	X	-	X	X
Mammals	<i>Vulpes velox</i>	Swift fox	G3	L		Natural Heritage Program data	-	-	-	-	X
Mammals	<i>Cynomys leucurus</i>	White tailed Prairie dog - poly	G4	L		Natural Heritage Program data CDOW White-tailed Prairie Dog colonies, NW populations	X	-	-	X	X
Mammals	<i>Spermophilus elegans</i>	Wyoming ground squirrel	G5	L		Natural Heritage Program data	-	-	-	-	X
Mammals	<i>Thomomys clusius</i>	Wyoming pocket gopher	G2	E		Natural Heritage Program data	-	-	-	-	X
Plants	<i>Antennaria arcuata</i>	Meadow Pussytoes	G2			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Artemisia porteri</i>	Porter's Sagebrush	G2			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Astragalus detritalis</i>	Debris Milkcatch	G3	L		Natural Heritage Program data	-	-	-	X	-
Plants	<i>Astragalus diversifolius</i> var. <i>diversifolius</i>	Mesic Milkvetch	G2			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Astragalus drabelliformis</i>	Big Piney Milkvetch	G2G3	E		Natural Heritage Program data	-	-	-	-	X
Plants	<i>Astragalus duchesnensis</i>	Duchesne milkvetch	G3	E		Natural Heritage Program data	X	-	-	-	-
Plants	<i>Astragalus gilviflorus</i> var. <i>purpureus</i>	Dubois Milkvetch	G5T2			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Astragalus hamiltonii</i>	Hamilton's Milkvetch	G1			Natural Heritage Program data	-	-	-	X	-
Plants	<i>Astragalus jejunus</i> var. <i>articulatus</i>	Hyattville Milkvetch	G3T1			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Astragalus proimanthus</i>	Precocious Milkvetch	G1			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Astragalus racemosus</i> var. <i>treleasei</i>	Trelease's Racemose Milkvetch	G5T2			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Boechera crandallii</i>	Crandall's Rockcress	G2			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Boechera pusilla</i>	Small Rockcress	G1		Candidate	Natural Heritage Program data	-	-	-	-	X
Plants	<i>Cirsium pulcherrimum</i> var. <i>aridum</i>	Cedar Rim Thistle	G2Q	E		Natural Heritage Program data	-	-	-	-	X
Plants	<i>Cleome multicaulis</i>	Many-stemmed Spider-flower	G2G3			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Cryptantha subcapitata</i>	Owl Creek Miner's Candle	G2			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Cymopterus evertii</i>	Evert's Waferparsnip	G2G3			Natural Heritage Program data	-	-	-	-	X



Appendix A. Conservation targets for the Wyoming Basins and their data sources (continued)

Tax. Group	Scientific Name	Common Name	Global Rank	Distrib	USFWS - ESA	Data Source	Data by State				
							CO	ID	MT	UT	WY
Plants	<i>Descurainia torulosa</i>	Wyoming Tansymustard	G1			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Elymus simplex</i> var. <i>luxurians</i>	Dune Wildrye	G4T1	E		Natural Heritage Program data	-	-	-	-	X
Plants	<i>Ericameria discoidea</i> var. <i>winwardii</i>	Winward's Goldenweed	GNRT1	E		Natural Heritage Program data	-	-	-	-	X
Plants	<i>Lepidium integrifolium</i> var. <i>integrifolium</i>	Entire-leaved Peppergrass	G2G3T2T3			Natural Heritage Program data	-	-	-	X	X
Plants	<i>Lesquerella fremontii</i>	Fremont Bladderpod	G2			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Lesquerella lesicii</i>	Pryor Mountains Bladderpod	G1			Natural Heritage Program data	-	-	X	-	-
Plants	<i>Lesquerella macrocarpa</i>	Large-fruited Bladderpod	G2			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Lesquerella prostrata</i>	Prostrate Bladderpod	G2G3			Natural Heritage Program data	-	-	-	X	X
Plants	<i>Oenothera acutissima</i>	narrow-leaf evening primrose	G2	E		Natural Heritage Program data	X	-	-	-	-
Plants	<i>Oenopsis wardii</i>	Ward's Goldenweed	G3	E		Natural Heritage Program data	-	-	-	-	X
Plants	<i>Oxytropis besseyi</i> var. <i>obnapiformis</i>	Maybell Locoweed, Bessey Locoweed	G5T2			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Penstemon absarokensis</i>	Absaroka Beardtongue	G2			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Penstemon acaulis</i> var. <i>acaulis</i>	Stemless Beardtongue	G3T2			Natural Heritage Program data	-	-	-	X	X
Plants	<i>Penstemon flowersii</i>	Flower's Penstemon	G1			Natural Heritage Program data	-	-	-	X	-
Plants	<i>Penstemon gibbensii</i>	Gibbens' Beardtongue	G1G2	E		Natural Heritage Program data	X	-	-	-	X
Plants	<i>Penstemon goodrichii</i>	Goodrich's Penstemon	G2			Natural Heritage Program data	-	-	-	X	-
Plants	<i>Penstemon grahamii</i>	Graham beardtongue	G2	E	Proposed Threatened	Natural Heritage Program data	X	-	-	-	-
Plants	<i>Penstemon haydenii</i>	Blowout Pentemon	G1		Endangered	Natural Heritage Program data	-	-	-	-	X
Plants	<i>Penstemon scariosus</i> var. <i>albifluvis</i>	White River penstemon	G4T1	E	Candidate	Natural Heritage Program data	X	-	-	X	-
Plants	<i>Phacelia glandulosa</i> var. <i>deserta</i>	Desert Glandular Phacelia	G4T1T2			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Phlox pungens</i>	Beaver Rim Phlox	G2			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Physaria condensata</i>	Tufted Twinpod	G2			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Physaria dornii</i>	Dorn's Twinpod	G1			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Physaria eburniflora</i>	Devil's Gate Twinpod	G2G3	E		Natural Heritage Program data	-	-	-	-	X
Plants	<i>Physaria saximontana</i> var. <i>saximontana</i>	Rocky Mountain Twinpod	G3T2			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Pyrrocoma carthamoides</i> var. <i>subsquarrosa</i>	Absaroka Goldenweed	G4G5T2T3			Natural Heritage Program data	-	-	X	-	-

Appendix A. Conservation targets for the Wyoming Basins and their data sources (continued)

Tax. Group	Scientific Name	Common Name	Global Rank	Distrib	USFWS - ESA	Data Source	Data by State				
							CO	ID	MT	UT	WY
Plants	<i>Pyrocoma clementis</i> var. <i>villosa</i>	Hairy Tranquil Goldenweed	G3G4T1			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Schoenocrambe argillacea</i>	Clay Reed-mustard	G1		Threatened	Natural Heritage Program data	-	-	-	X	-
Plants	<i>Sclerocactus brevispinus</i>	Pariette Cactus	G1			Natural Heritage Program data	-	-	-	X	-
Plants	<i>Sclerocactus wetlandicus</i>	Uinta Basin Hookless Cactus	G3	E	Threatened	Natural Heritage Program data	-	-	-	X	-
Plants	<i>Shoshonea pulvinata</i>	Shoshonea	G2G3			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Sphaeromeria simplex</i>	Laramie False Sagebrush	G2			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Spiranthes diluvialis</i>	Ute's Ladies Tresses	G2G3		Threatened	Natural Heritage Program data	X	-	-	X	-
Plants	<i>Thelesperma caespitosum</i>	Green River Greenthread	G1			Natural Heritage Program data	-	-	-	X	X
Plants	<i>Thelesperma pubescens</i>	Uinta Greenthread	G1			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Townsendia condensata</i> var. <i>anomala</i>	North Fork Easter Daisy	G4T2			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Townsendia microcephala</i>	Cedar Mountain Easter Daisy	G1			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Trifolium barnebyi</i>	Barneby's Clover	G1			Natural Heritage Program data	-	-	-	-	X
Plants	<i>Yermo xanthocephalus</i>	Desert Yellowhead	G1		Threatened	Natural Heritage Program data	-	-	-	-	X
Plants	<i>Yucca harrimaniae</i> var. <i>sterilis</i>	Spanish Bayonet	G4G5T1T2			Natural Heritage Program data	-	-	-	X	-

**Appendix B. Conservation Targets, Representation Goals, and Distribution in the Portfolio**

Tax. Group	Target Common Name (Scientific Name)	Goal (%)	Section	Goal (amount)	Metric	Amount Available	Amount in Portfolio	% Goal Met
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	30%	1	92	ha	306	143	156%
			2	4,165	ha	13,881	7,039	169%
			3	51,577	ha	171,922	67,366	131%
			4	83	ha	277	94	114%
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	30%	1	7,734	ha	25,778	11,989	155%
			2	10,492	ha	34,972	20,951	200%
			3	18,289	ha	60,964	27,299	149%
			4	1,203	ha	4,010	2,237	186%
			5	361	ha	1,202	847	235%
Terr Ecosys	Colorado Plateau Mixed Bedrock Canyon and Tableland	30%	3	627	ha	2,089	1,261	201%
			5	12,568	ha	41,893	22,235	177%
Terr Ecosys	Inter-Mountain Basins Shale Badland	30%	1	31,291	ha	104,303	41,482	133%
			2	10,983	ha	36,612	11,081	101%
			3	15,073	ha	50,244	20,760	138%
			4	285	ha	950	444	156%
			5	7,589	ha	25,297	13,731	181%
Terr Ecosys	Rocky Mountain Aspen Forest and Woodland	30%	1	292	ha	973	510	175%
			2	1,826	ha	6,088	3,280	180%
			3	3,924	ha	13,079	4,471	114%
			4	7,103	ha	23,677	10,194	144%
Terr Ecosys	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	30%	1	2,821	ha	9,404	5,357	190%
			2	743	ha	2,478	1,245	168%
			3	174	ha	579	215	123%
			4	681	ha	2,271	1,017	149%
Terr Ecosys	Colorado Plateau Pinyon-Juniper Woodland Shrubland and Savanna	30%	3	16,548	ha	55,162	36,108	218%
			5	36,269	ha	120,898	63,202	174%
Terr Ecosys	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	30%	1	2,193	ha	7,312	3,581	163%
			2	1,834	ha	6,115	2,035	111%
			3	348	ha	1,159	956	275%
			4	327	ha	1,090	357	109%
			5	49	ha	164	69	141%
Terr Ecosys	Rocky Mountain Foothill Limber Pine-Juniper Woodland	30%	1	22,295	ha	74,318	22,477	101%
			2	31,093	ha	103,645	56,242	181%
			3	25,219	ha	84,064	25,714	102%
			4	11,849	ha	39,496	14,177	120%
Terr Ecosys	Rocky Mountain Lodgepole Pine Forest	30%	1	1,590	ha	5,301	2,494	157%
			2	5,836	ha	19,455	5,919	101%
			3	2,972	ha	9,906	2,979	100%
			4	413	ha	1,376	656	159%

Appendix B. Conservation Targets, Representation Goals, and Distribution in the Portfolio

Tax. Group	Target Common Name (Scientific Name)	Goal (%)	Section	Goal (amount)	Metric	Amount Available	Amount in Portfolio	% Goal Met
Terr Ecosys	Rocky Mountain Ponderosa Pine Woodland and Savanna	30%	1	648	ha	2,159	1,395	215%
			2	862	ha	2,873	965	112%
			3	233	ha	776	307	132%
Terr Ecosys	Rocky Mountain Subalpine Dry-Mesic Spruce-Firt Forest and Woodland	30%	1	1,082	ha	3,607	1,843	170%
			2	2,199	ha	7,329	4,934	224%
			3	324	ha	1,081	480	148%
			4	227	ha	757	234	103%
Terr Ecosys	Inter-Mountain Basins Mixed Salt Desert Scrub	30%	1	22,036	ha	73,451	21,621	98%
			2	43,478	ha	144,927	47,186	109%
			3	198,228	ha	660,764	231,229	117%
			4	1,008	ha	3,360	1,833	182%
			5	39,290	ha	130,965	89,463	228%
Terr Ecosys	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	30%	1	390,347	ha	1,301,156	488,586	125%
			2	597,198	ha	1,990,659	952,061	159%
			3	823,815	ha	2,746,050	1,211,044	147%
			4	118,571	ha	395,236	181,719	153%
			5	78,979	ha	263,263	153,030	194%
Terr Ecosys	Inter-Mountain Basins Montane Sagebrush Steppe	30%	1	24,025	ha	80,082	34,799	145%
			2	21,835	ha	72,783	29,073	133%
			3	60,961	ha	203,205	87,134	143%
			4	38,380	ha	127,933	57,294	149%
			5	878	ha	2,925	2,669	304%
Terr Ecosys	Inter-Mountain Basins Mat Saltbush Shrubland	30%	1	67,334	ha	224,448	66,080	98%
			2	75,422	ha	251,405	107,137	142%
			3	109,753	ha	365,844	139,349	127%
			4	1,749	ha	5,829	3,192	183%
			5	5,489	ha	18,295	10,937	199%
Terr Ecosys	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	30%	1	12,023	ha	40,076	13,121	109%
			2	132,734	ha	442,448	202,118	152%
			3	84,257	ha	280,857	133,561	159%
			4	21,769	ha	72,563	43,764	201%
			5	20,526	ha	68,419	42,291	206%
Terr Ecosys	Rocky Mountain Lower Montane-Foothill Shrubland	30%	2	1,282	ha	4,272	1,002	78%
			3	2,119	ha	7,064	3,047	144%
Terr Ecosys	Rocky Mountain Gambel Oak-Mixed Montane Shrubland	30%	5	37	ha	122	29	80%
			3	1,064	ha	3,547	1,194	112%
			4	72	ha	241	63	88%

Sections: 1 = Bighorn Basin & Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin



Appendix B. Conservation Targets, Representation Goals, and Distribution in the Portfolio

Tax. Group	Target Common Name (Scientific Name)	Goal (%)	Section	Goal (amount)	Metric	Amount Available	Amount in Portfolio	% Goal Met
Terr Ecosys	Northern Rocky Mountain Lower Montane Foothill and Valley Grassland	30%	5	155	ha	517	459	296%
			1	2,564	ha	8,546	4,940	193%
			2	1,580	ha	5,266	3,263	206%
			3	133	ha	445	317	239%
			4	292	ha	973	295	101%
Terr Ecosys	Southern Rocky Mountain Montane-Subalpine Grassland	30%	1	734	ha	2,447	954	130%
			2	1,424	ha	4,746	1,618	114%
			3	223	ha	744	299	134%
			4	169	ha	565	198	117%
			5	88	ha	293	104	118%
Terr Ecosys	Inter-Mountain Basins Semi-Desert Grassland	30%	3	11,151	ha	37,169	31,668	284%
			5	1,904	ha	6,347	4,275	225%
Terr Ecosys	Northwestern Great Plains Mixedgrass Prairie	30%	1	9,188	ha	30,628	13,087	142%
			2	103,354	ha	344,513	104,921	102%
			3	7,950	ha	26,501	13,014	164%
			4	612	ha	2,040	775	127%
Terr Ecosys	North American Arid West Emergent Marsh	30%	1	27	ha	89	85	314%
			2	1	ha	3	1	81%
			3	5	ha	16	11	218%
			4	1,989	ha	6,629	6,311	317%
			5	17	ha	56	27	159%
Terr Ecosys	Inter-Mountain Basins Interdunal Swale Wetland	30%	3	279	ha	931	774	277%
Terr Ecosys	Rocky Mountain Alpine-Montane Wet Meadow	30%	1	177	ha	590	407	230%
			2	282	ha	940	291	103%
			3	521	ha	1,735	743	143%
			4	175	ha	582	313	179%
			5	646	ha	2,152	675	105%
Terr Ecosys	Western Great Plains Open Freshwater Depression Wetland	30%	1	903	ha	3,011	933	103%
			2	3,494	ha	11,647	3,662	105%
			3	3,049	ha	10,162	5,317	174%
			4	595	ha	1,983	446	75%
Terr Ecosys	Columbia Plateau Vernal Pool	30%	1	4	ha	13	10	254%
			2	1	ha	2	1	90%
			3	1	ha	4	2	243%
Terr Ecosys	Western Great Plains Saline Depression Wetland	30%	1	3,531	ha	11,771	4,649	132%
			2	23,416	ha	78,054	29,178	125%
			3	19,389	ha	64,629	29,919	154%

Sections: 1 = Bighorn Basin & Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin

Appendix B. Conservation Targets, Representation Goals, and Distribution in the Portfolio

Tax. Group	Target Common Name (Scientific Name)	Goal (%)	Section	Goal (amount)	Metric	Amount Available	Amount in Portfolio	% Goal Met
Terr Ecosys	Riparian	30%	4	3,970	ha	13,232	5,157	130%
			1	9,095	ha	30,318	12,506	138%
			2	14,551	ha	48,503	22,447	154%
			3	26,556	ha	88,521	31,232	118%
			4	19,416	ha	64,721	19,199	99%
Terr Ecosys	Inter-Mountain Basins Greasewood Flat	30%	5	3,994	ha	13,315	4,586	115%
			1	11,961	ha	39,869	13,438	112%
			2	29,921	ha	99,736	39,634	132%
			3	39,569	ha	131,897	42,681	108%
			4	2,508	ha	8,359	5,197	207%
Terr Ecosys	Western Great Plains Floodplain	30%	5	14,927	ha	49,756	22,799	153%
			1	2,290	ha	7,634	2,408	105%
			2	6,299	ha	20,996	9,876	157%
			3	2,665	ha	8,884	5,226	196%
			4	574	ha	1,913	559	97%
Amphibian	Northern Leopard Frog ( <i>Rana pipiens</i> )	50%	1	44	count	89	84	191%
			2	6	count	11	6	100%
			3	4	count	7	6	150%
			4	13	count	26	14	108%
			5	14	count	29	14	100%
Amphibian	Wyoming Toad ( <i>Bufo baxteri</i> )	100%		246	count	246	246	100%
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )	75%	1	380	count	507	371	98%
			2	270	count	360	267	99%
			3	408	count	544	408	100%
			4	102	count	136	87	85%
			5	82	count	109	82	100%
Bird	Columbian Sharp-tailed Grouse ( <i>Tympanuchus phasianellus columbianus</i> )	75%	3	35,756	ha	47,675	35,794	100%
			1	12	count	23	13	108%
			2	233	count	466	281	121%
Bird	Ferruginous Hawk ( <i>Buteo regalis</i> )	50%	3	210	count	421	210	100%
			4	1	count	20	7	700%
			5	306	count	611	538	176%
			1	439,733	ha	732,889	439,776	100%
			2	1,203,983	ha	2,006,638	1,202,430	100%
Bird	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )	60%	3	1,368,667	ha	2,281,111	1,367,940	100%
			4	164,327	ha	273,878	182,036	111%
			5	13,675	ha	22,791	20,340	149%

Sections: 1 = Bighorn Basin & Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin

Appendix B. Conservation Targets, Representation Goals, and Distribution in the Portfolio

Tax. Group	Target Common Name (Scientific Name)	Goal (%)	Section	Goal (amount)	Metric	Amount Available	Amount in Portfolio	% Goal Met
Bird	Mountain Plover ( <i>Charadrius montanus</i> )	75%	1	56	count	74	52	93%
			2	454	count	606	404	89%
			3	508	count	678	493	97%
			5	184	count	246	210	114%
Mammals	Black-footed Ferret ( <i>Mustela nigripes</i> )	100%		54,645	ha	54,645	54,645	100%
Mammals	Elk ( <i>Cervus canadensis</i> )	75%	1	115,993	ha	154,657	116,117	100%
			2	84,220	ha	112,294	83,837	100%
			3	567,964	ha	757,286	567,419	100%
			4	73,238	ha	97,651	73,456	100%
			5	129,529	ha	172,705	129,593	100%
Mammals	Idaho Pocket Gopher ( <i>Thomomys idahoensis</i> )	50%	3	293,434	ha	586,868	292,855	100%
			4	330,588	ha	661,177	328,624	99%
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )	50%	1	302,208	ha	604,415	317,723	105%
			2	186,898	ha	373,797	253,090	135%
			3	471,630	ha	943,260	567,957	120%
			4	121,642	ha	243,284	140,263	115%
			5	114,284	ha	228,569	116,548	102%
Mammals	Preble's Meadow Jumping Mouse ( <i>Zapus hudsonius preblei</i> )	100%		6	count	6	6	100%
Mammals	Pronghorn ( <i>Antilocapra americana</i> )	75%	1	200,400	ha	267,200	200,498	100%
			2	477,748	ha	636,998	475,696	100%
			3	739,949	ha	986,599	738,125	100%
			4	45,976	ha	61,301	46,072	100%
			5	266,320	ha	355,093	266,346	100%
Mammals	Pygmy Rabbit ( <i>Brachylagus idahoensis</i> )	50%	2	144	count	287	145	101%
			3	3,236	count	6,472	3,010	93%
			4	338	count	677	333	99%
Mammals	Swift Fox ( <i>Vulpes velox</i> )	75%	1	2	count	2	2	100%
			2	83	count	111	70	84%
			3	2	count	3	2	100%
Mammals	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )	75%	1	4,163	ha	5,551	4,039	97%
			2	3,146	ha	4,194	3,146	100%
			3	42,898	ha	57,198	42,925	100%
			4	122	ha	163	163	134%
			5	42,498	ha	56,664	41,601	98%
Mammals	Wyoming Ground Squirrel ( <i>Spermophilus elegans</i> )	100%		59	count	59	59	100%
Mammals	Wyoming Pocket Gopher ( <i>Thomomys clusius</i> )	100%		11	count	11	11	100%
Plants	Meadow Pussytoes ( <i>Antennaria arcuata</i> )	100%		78	count	78	78	100%

Sections: 1 = Bighorn Basin & Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin

Appendix B. Conservation Targets, Representation Goals, and Distribution in the Portfolio

Tax. Group	Target Common Name (Scientific Name)	Goal (%)	Section	Goal (amount)	Metric	Amount Available	Amount in Portfolio	% Goal Met
Plants	Porters Sagebrush ( <i>Artemisia porteri</i> )	100%		217	count	217	217	100%
Plants	Debris Milkvetch ( <i>Astragalus detritalis</i> )	100%		2	count	3	3	150%
Plants	Mesic Milkvetch ( <i>Astragalus diversifolius</i> var. <i>diversifolius</i> )	100%		22	count	22	22	100%
Plants	Big Piney Milkvetch ( <i>Astragalus drabelliformis</i> )	100%		40	count	40	40	100%
Plants	Duchesne Milkvetch ( <i>Astragalus duchesnensis</i> )	100%		1	count	1	1	100%
Plants	Dubois Milkvetch ( <i>Astragalus gilviflorus</i> var. <i>purpureus</i> )	100%		120	count	120	120	100%
Plants	Hamiltons Milkvetch ( <i>Astragalus hamiltonii</i> )	100%		1	count	1	1	100%
Plants	Hyattville Milkvetch ( <i>Astragalus jejunus</i> var. <i>articulatus</i> )	100%		19	count	19	19	100%
Plants	Precocious Milkvetch ( <i>Astragalus proimanthus</i> )	100%		23	count	23	23	100%
Plants	Treleases Racemose Milkvetch ( <i>Astragalus racemosus</i> var. <i>treleasei</i> )	100%		44	count	44	44	100%
Plants	Crandalls Rockcress ( <i>Boechera crandallii</i> )	100%		4	count	4	4	100%
Plants	Small Rockcress ( <i>Boechera pusilla</i> )	100%		18	count	18	18	100%
Plants	Cedar Rim Thistle ( <i>Cirsium pulcherrimum</i> var. <i>aridum</i> )	100%		54	count	54	54	100%
Plants	Many-stemmed Spider-flower ( <i>Cleome multicaulis</i> )	100%		16	count	16	16	100%
Plants	Owl Creek Miners Candle ( <i>Cryptantha subcapitata</i> )	100%		18	count	18	18	100%
Plants	Everts Waferparsnip ( <i>Cymopterus evertii</i> )	100%		22	count	22	22	100%
Plants	Wyoming Tansymustard ( <i>Descurainia torulosa</i> )	100%		4	count	4	4	100%
Plants	Dune Wildrye ( <i>Elymus simplex</i> var. <i>luxurians</i> )	100%		7	count	7	7	100%
Plants	Winwards Goldenweed ( <i>Ericameria discoidea</i> var. <i>winwardii</i> )	100%		3	count	3	3	100%
Plants	Entire-leaved Peppergrass ( <i>Lepidium integrifolium</i> var. <i>integrifolium</i> )	100%		39	count	39	39	100%
Plants	Fremont Bladderpod ( <i>Lesquerella fremontii</i> )	100%		13	count	13	13	100%
Plants	Pryor Mountains Bladderpod ( <i>Lesquerella lesicii</i> )	100%		11	count	11	11	100%
Plants	Large-fruited Bladderpod ( <i>Lesquerella macrocarpa</i> )	100%		75	count	75	75	100%
Plants	Prostrate Bladderpod ( <i>Lesquerella prostrata</i> )	100%		63	count	63	63	100%
Plants	Narrow-leaf evening Primrose ( <i>Oenothera acutissima</i> )	100%		1	count	1	1	100%
Plants	Wards Goldenweed ( <i>Oenopsis wardii</i> )	75%		22	count	30	23	105%
Plants	Maybell Locoweed ( <i>Oxytropis besseyi</i> var. <i>obnapiformis</i> )	100%		4	count	4	4	100%
Plants	Absaroka Beardtongue ( <i>Penstemon absarokensis</i> )	100%		14	count	14	14	100%
Plants	Stemless Beardtongue ( <i>Penstemon acaulis</i> var. <i>acaulis</i> )	100%		45	count	45	45	100%
Plants	Flowers Penstemon ( <i>Penstemon flowersii</i> )	100%		28	count	28	28	100%
Plants	Gibbens Beardtongue ( <i>Penstemon gibbensii</i> )	100%		90	count	90	90	100%
Plants	Goodrichs Penstemon ( <i>Penstemon goodrichii</i> )	100%		1	count	1	1	100%
Plants	Graham beardtongue ( <i>Penstemon grahamii</i> )	100%		7	count	7	7	100%
Plants	Blowout Pentemon ( <i>Penstemon haydenii</i> )	100%		4	count	4	4	100%
Plants	White River Penstemon ( <i>Penstemon scariosus</i> var. <i>albifluvis</i> )	100%		30	count	30	30	100%
Plants	Desert Glandular Phacelia ( <i>Phacelia glandulosa</i> var. <i>deserta</i> )	100%		24	count	24	24	100%
Plants	Beaver Rim Phlox ( <i>Phlox pungens</i> )	100%		344	count	344	344	100%

Sections: 1 = Bighorn Basin & Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin



Appendix B. Conservation Targets, Representation Goals, and Distribution in the Portfolio

Tax. Group	Target Common Name (Scientific Name)	Goal (%)	Section	Goal (amount)	Metric	Amount Available	Amount in Portfolio	% Goal Met
Plants	Tufted Twinpod ( <i>Physaria condensata</i> )	100%		65	count	65	65	100%
Plants	Dorns Twinpod ( <i>Physaria dornii</i> )	100%		105	count	105	105	100%
Plants	Devils Gate Twinpod ( <i>Physaria eburniflora</i> )	100%		53	count	53	53	100%
Plants	Rocky Mountain Twinpod ( <i>Physaria saximontana</i> var. <i>saximontana</i> )	100%		26	count	26	26	100%
Plants	Absaroka Goldenweed ( <i>Pyrrocoma carthamoides</i> var. <i>subsquarrosa</i> )	100%		1	count	1	1	100%
Plants	Hairy Tranquil Goldenweed ( <i>Pyrrocoma clementis</i> var. <i>villosa</i> )	100%		2	count	2	2	100%
Plants	Clay Reed-mustard ( <i>Schoenocrambe argillacea</i> )	100%		13	count	13	13	100%
Plants	Pariette Cactus ( <i>Sclerocactus brevispinus</i> )	100%		64	count	64	64	100%
Plants	Uinta Basin Hookless Cactus ( <i>Sclerocactus wetlandicus</i> )	100%		23	count	23	23	100%
Plants	Shoshonea ( <i>Shoshonea pulvinata</i> )	100%		17	count	17	17	100%
Plants	Laramie False Sagebrush ( <i>Sphaeromeria simplex</i> )	100%		276	count	276	276	100%
Plants	Utes Ladies Tresses ( <i>Spiranthes diluvialis</i> )	100%		29	count	29	29	100%
Plants	Green River Greenthread ( <i>Thelesperma caespitosum</i> )	100%		34	count	34	34	100%
Plants	Uinta Greenthread ( <i>Thelesperma pubescens</i> )	100%		41	count	41	41	100%
Plants	North Fork Easter Daisy ( <i>Townsendia condensata</i> var. <i>anomala</i> )	100%		15	count	15	15	100%
Plants	Cedar Mountain Easter Daisy ( <i>Townsendia microcephala</i> )	100%		21	count	21	21	100%
Plants	Barnebys Clover ( <i>Trifolium barnebyi</i> )	100%		28	count	28	28	100%
Plants	Desert Yellowhead ( <i>Yermo xanthocephalus</i> )	100%		17	count	17	17	100%
Plants	Spanish Bayonet ( <i>Yucca harrimaniae</i> var. <i>sterilis</i> )	100%		1	count	1	1	100%

Sections: 1 = Bighorn Basin & Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin

**Appendix C. Conservation area target summary – distribution of targets**

Cons Area ID	Conservation Area Name	Acres	Targets (n)	Terr Sys (n)	Amphib (n)	Birds (n)	Mammals (n)	Plants (n)	Greater Sage Grouse site?
90	Alkali Creek	2,471	8	7	0	0	0	1	
104	Alkali Flats	32,124	22	16	0	3	2	1	
79	Anderson Canyon	4,942	12	10	0	0	1	1	
71	Antelope Hills Dunes	2,471	15	12	0	0	2	1	
15	Ashley Valley	9,884	11	9	0	0	1	1	
25	Aspen Mountain	2,471	11	9	0	0	1	1	
10	Asphalt Ridge	2,471	9	7	0	0	1	1	
37	Bamforth Lake	4,942	13	10	0	0	3	0	
82	Bear Lake	37,066	17	13	1	1	2	0	Yes
51	Bigelow Bench	27,182	14	12	0	1	1	0	Yes
128	Bighorn Canyon	44,479	21	16	1	1	3	0	
115	Bighorn River - Horse Gulch	4,942	10	8	0	0	2	0	
118	Bighorn River - Tenmile/Sixmile Creeks	17,297	14	10	0	1	3	0	
1	Bitter Creek	7,413	9	7	0	0	2	0	
36	Blacks Fork	2,471	14	12	0	0	1	1	
35	Bone Draw	2,471	13	10	0	1	2	0	Yes
72	Box Canyon	37,066	18	13	0	3	1	1	Yes
108	Boysen	17,297	18	15	0	0	2	1	
78	Bradley Peak	2,471	14	13	0	0	0	1	
28	Bridger Butte	2,471	15	11	0	0	3	1	
17	Browns Park	103,784	24	15	1	1	4	3	
84	Buckhorn Draw	4,942	11	9	0	1	0	1	Yes
18	Bull Run Creek	4,942	13	11	0	0	2	0	
95	Burnt Wagon Draw	7,413	14	13	0	1	0	0	Yes
60	Cannonball Joe Cut	2,471	7	6	0	0	1	0	
105	Cedar Ridge	2,471	14	11	0	0	2	1	
27	Centennial Valley	9,884	12	10	0	1	1	0	
73	Chain Lakes Flat	96,371	18	12	0	3	2	1	Yes
44	Coal Gulch	4,942	12	10	0	1	1	0	
8	Cockey Hollow	128,495	21	16	1	1	2	1	
52	Cooper Lake	2,471	11	8	0	1	2	0	
33	Cooper Ridge	64,247	19	15	0	1	3	0	Yes
113	Cottonwood Creek	4,942	17	13	0	1	2	1	Yes
5	Coyote Canyon	27,182	18	12	0	1	2	3	
92	Cretaceous Mountain	2,471	18	15	0	0	1	2	
49	Delaney Rim	4,942	9	7	0	0	2	0	
16	Douglas Mountain	7,413	7	6	0	0	0	1	
93	Dry Basin	2,471	10	6	0	0	3	1	
126	Dry Bear Creek	17,297	21	15	0	3	3	0	Yes
91	Dry Sandy Creek	14,826	15	13	0	1	1	0	Yes
111	Du Noir Creek	7,413	15	14	0	1	0	0	

Appendix C. Conservation area target summary – distribution of targets (continued)

Cons Area ID	Conservation Area Name	Acres	Targets (n)	Terr Sys (n)	Amphib (n)	Birds (n)	Mammals (n)	Plants (n)	Greater Sage Grouse site?
75	Eightmile Creek	2,471	13	11	0	1	0	1	Yes
2	Evacuation Creek	2,471	10	8	0	0	1	1	
121	Fifteen Mile Creek	484,327	26	19	0	2	3	2	Yes
45	Flaming Gorge	543,632	43	26	1	4	6	6	Yes
20	Flaming Gorge - Henry's Fork	2,471	17	15	0	0	1	1	
24	Flat Top Mountain	2,471	10	8	0	0	0	2	
77	Fontelle Reservoir	2,471	13	11	0	0	1	1	
114	Gooseberry Creek - Enos Creek	14,826	17	14	0	0	2	1	
80	Great Divide Basin	116,140	19	13	0	3	2	1	Yes
42	Green River	7,413	15	13	0	0	0	2	
132	Halfway Hollow North	2,471	7	7	0	0	0	0	
9	Halfway Hollow South	2,471	10	9	0	0	0	1	
58	Hams Fork	39,537	18	12	0	3	3	0	Yes
125	Heart Mountain	9,884	13	12	0	1	0	0	Yes
22	Hilliard Flat	9,884	18	17	0	0	1	0	
87	Hogback Ridge	7,413	18	14	0	0	3	1	
131	John Weller Mesa	2,471	9	9	0	0	0	0	
98	Kirby Draw	2,471	7	5	0	0	2	0	
31	Laramie	4,942	15	11	1	1	2	0	
55	Laramie Plains	29,653	20	13	0	4	3	0	Yes
30	Laramie Plains Lakes	46,950	26	15	1	2	7	1	
38	Laramie River	2,471	10	9	0	0	1	0	
117	Little Buffalo Basin	4,942	19	18	0	0	1	0	
65	Long Canyon	2,471	9	7	0	0	2	0	
50	Lookout Mountain Foothill	7,413	14	10	0	0	4	0	
11	Lower Green River/Eight Mile Flat	869,811	33	16	1	3	5	8	
116	Lysite Mountain	803,092	35	24	0	4	4	3	Yes
124	McCullough Peaks	42,008	16	15	0	1	0	0	Yes
119	Meeteetse Rim	9,884	15	11	0	2	2	0	Yes
47	Mexican Flats	180,387	26	17	0	4	4	1	Yes
101	Moneta Hills	12,355	13	10	0	1	1	1	
67	Monte Cristo	106,255	30	22	0	1	5	2	
59	North Baxter Basin	27,182	14	12	0	1	1	0	
88	North Creek	4,942	15	14	0	0	1	0	
69	North Fork Alkali Creek	2,471	13	10	0	0	2	1	
76	North Laramie River	2,471	13	11	0	1	0	1	Yes
96	North Platte - Coal Creek	4,942	5	5	0	0	0	0	
19	North Platte - Threemile Creek	17,297	19	15	0	2	2	0	Yes

Appendix C. Conservation area target summary – distribution of targets (continued)

Cons Area ID	Conservation Area Name	Acres	Targets (n)	Terr Sys (n)	Amphib (n)	Birds (n)	Mammals (n)	Plants (n)	Greater Sage Grouse site?
123	North/South Fork Shoshone - Greybull	355,832	39	27	0	4	4	4	Yes
120	Nowood River	54,363	17	12	0	2	3	0	
103	Ocean Lake - Missouri Valley	54,363	14	11	1	2	0	0	
62	Opal	4,942	17	11	0	1	3	2	
3	Park Canyon	2,471	9	7	0	0	1	1	
127	Pat O'Hara Creek	19,768	17	13	0	3	1	0	Yes
57	Pierce Reservoir	2,471	12	10	0	1	1	0	
29	Pine Butte	2,471	16	13	0	1	1	1	Yes
89	Piney Creek	2,471	18	14	0	0	3	1	
129	Pryor Mountains	32,124	25	22	0	1	1	1	
112	Putney Flat	66,718	33	24	0	3	4	2	Yes
40	Quaking Aspen Mountain	2,471	16	15	0	0	0	1	
34	Ragan	42,008	24	16	0	1	4	3	
97	Red Butte	12,355	23	19	0	1	2	1	Yes
56	Red Wash Draw	4,942	12	10	0	0	2	0	
64	Rich Spring	2,471	10	7	0	0	2	1	
130	Sage Creek	2,471	8	7	0	0	0	1	
21	Sand Creek	2,471	15	12	0	1	2	0	
94	Sand Draw	9,884	14	8	0	2	2	2	
63	Sand Hills	7,413	14	11	0	2	1	0	Yes
106	Sand Mesa	51,892	13	13	0	0	0	0	
26	Sawmill Canyon	4,942	9	9	0	0	0	0	
85	Sheep Mountain	2,471	15	14	0	0	0	1	
83	Shirley Basin	2,471	6	5	0	0	0	1	
61	Sinclair	2,471	12	10	0	0	2	0	
32	Skull Creek Rim	128,495	16	12	0	2	2	0	
107	Snyder Creek	4,942	18	15	0	1	1	1	
7	Stinking Gulch	14,826	14	10	0	2	2	0	Yes
81	Stratton Rim	2,471	12	11	0	0	0	1	
99	Sweetwater River and Central Basins Megasite	5,503,037	64	28	1	4	9	22	Yes
46	Telephone Canyon	2,471	14	12	0	0	1	1	
53	Teton Reservoir	4,942	12	11	0	0	1	0	
12	Tridell	2,471	7	6	0	0	0	1	
66	Twelvemile Gulch	22,239	12	9	0	1	2	0	Yes
74	Upper Bear River	684,482	44	27	1	3	7	6	Yes
100	Upper Green River	884,637	43	25	1	4	5	8	Yes
109	Upper Wind River	172,974	32	26	0	1	4	1	
41	Watt Lake	4,942	7	6	0	0	1	0	
6	West Bench	2,471	9	7	0	0	1	1	



Appendix C. Conservation area target summary – distribution of targets (continued)

Cons Area ID	Conservation Area Name	Acres	Targets (n)	Terr Sys (n)	Amphib (n)	Birds (n)	Mammals (n)	Plants (n)	Greater Sage Grouse site?
68	West Bluegrass Creek	4,942	7	5	0	1	0	1	Yes
122	West slope - Bighorn Mountains	148,263	28	19	0	4	3	2	Yes
70	Wheatland Reservoir	14,826	19	12	0	4	3	0	Yes
48	White Mountain	2,471	14	12	0	0	1	1	
4	White River	2,471	13	10	0	0	2	1	
39	Wild Rose Draw	2,471	11	10	0	0	1	0	
86	Wildcat Canyon	2,471	13	10	0	0	2	1	
43	Wilkins Peak	2,471	10	9	0	0	0	1	
13	Williams Fork Mountain/Dill Gulch	49,421	17	13	0	3	1	0	Yes
23	Willow Creek	7,413	13	12	0	0	0	1	
102	Wind River - Martin Ponds	4,942	13	11	0	2	0	0	Yes
110	Wind River Canyon/ Bighorn River	9,884	14	12	0	1	1	0	
14	Yampa River	9,884	10	7	0	2	1	0	
54	Yampa River - Lower	1,986,727	42	28	0	5	7	2	Yes

**Appendix D. Conservation Areas and land ownership (hectares)**

**BLM**= Bureau of Land Management; **BOR**=Bureau of Reclamation; **FWS** = Fish & Wildlife Service; **USFS**=U.S. Forest Service; **NPS**=National Park

ID	Conservation Area Name	BLM	BOR	FWS	USFS	NPS	State	Private (protected)	Private	Native American	Total Size (Hectares)	Total Size (Acres)
1	Bitter Creek	363	0	0	0	0	2,443	0	194	0	3,000	7,413
2	Evacuation Creek	296	0	0	0	0	0	0	704	0	1,000	2,471
3	Park Canyon	45	0	0	0	0	0	0	955	0	1,000	2,471
4	White River	810	0	0	0	0	189	0	0	1	1,000	2,471
5	Coyote Canyon	0	0	0	0	0	2,906	0	3,157	4,938	11,000	27,182
6	West Bench	0	0	0	0	0	0	0	1,000	0	1,000	2,471
7	Stinking Gulch	509	0	0	0	0	265	0	5,226	0	6,000	14,826
8	Cockey Hollow	0	0	0	0	0	17,947	4,686	30,452	3,601	52,000	128,495
9	Halfway Hollow South	742	0	0	0	0	2	0	256	0	1,000	2,471
10	Asphalt Ridge	251	0	0	0	0	645	0	104	0	1,000	2,471
11	Lower Green River/Eight Mile Flat	238,331	0	3,555	0	3,329	32,625	0	48,565	25,877	352,000	869,811
12	Tridell	0	0	0	0	0	0	0	954	46	1,000	2,471
13	Williams Fork Mountain/Dill Gulch	470	0	0	0	0	4,010	48	15,520	0	20,000	49,421
14	Yampa River	0	0	0	0	0	358	1,770	3,019	0	4,000	9,884
15	Ashley Valley	389	0	0	0	0	145	0	3,466	0	4,000	9,884
16	Douglas Mountain	2,118	0	0	0	0	0	0	882	0	3,000	7,413
17	Browns Park	30,457	0	4,809	793	2,378	3,251	0	1,212	0	42,000	103,784
18	Bull Run Creek	498	0	0	0	0	61	0	1,441	0	2,000	4,942
19	North Platte - Threemile Creek	1,108	0	0	1,741	0	130	0	4,045	0	7,000	17,297
20	Flaming Gorge - Henry's Fork	570	0	0	0	0	258	0	172	0	1,000	2,471
21	Sand Creek	0	0	0	0	0	206	0	794	0	1,000	2,471
22	Hilliard Flat	0	0	0	0	0	259	403	3,339	0	4,000	9,884
23	Willow Creek	2,967	0	0	0	0	32	0	1	0	3,000	7,413
24	Flat Top Mountain	986	0	0	0	0	0	0	14	0	1,000	2,471
25	Aspen Mountain	354	0	0	0	0	5	0	641	0	1,000	2,471
26	Sawmill Canyon	77	0	0	0	0	1	1,010	912	0	2,000	4,942
27	Centennial Valley	0	0	0	761	0	531	977	2,120	0	4,000	9,884
28	Bridger Butte	104	0	0	0	0	0	0	896	0	1,000	2,471
29	Pine Butte	477	0	0	0	0	0	0	523	0	1,000	2,471
30	Laramie Plains Lakes	1,023	0	1,827	701	0	1,310	647	13,751	0	19,000	46,950
31	Laramie	0	0	0	0	0	55	0	1,945	0	2,000	4,942
32	Skull Creek Rim	50,223	0	0	0	0	137	0	1,640	0	52,000	128,495
33	Cooper Ridge	22,707	0	0	0	0	2,272	0	1,021	0	26,000	64,247
34	Ragan	5,451	0	0	0	0	610	0	10,939	0	17,000	42,008
35	Bone Draw	479	0	0	0	0	0	0	521	0	1,000	2,471
36	Blacks Fork	246	0	0	0	0	0	0	754	0	1,000	2,471

Appendix D. Conservation Areas and land ownership (hectares) – (continued)

BLM= Bureau of Land Management; BOR=Bureau of Reclamation; FWS = Fish & Wildlife Service; USFS=U.S. Forest Service; NPS=National Park

ID	Conservation Area Name	BLM	BOR	FWS	USFS	NPS	State	Private (protected)	Private	Native American	Total Size (Hectares)	Total Size (Acres)
37	Bamforth Lake	33	0	385	0	0	580	0	1,002	0	2,000	4,942
38	Laramie River	0	0	0	0	0	95	0	905	0	1,000	2,471
39	Wild Rose Draw	559	0	0	0	0	0	0	441	0	1,000	2,471
40	Quaking Aspen Mountain	369	0	0	0	0	0	0	631	0	1,000	2,471
41	Watt Lake	0	0	0	0	0	81	0	1,919	0	2,000	4,942
42	Green River	656	149	0	686	0	33	0	1,476	0	3,000	7,413
43	Wilkins Peak	544	0	0	0	0	0	0	456	0	1,000	2,471
44	Coal Gulch	953	0	0	0	0	29	0	1,017	0	2,000	4,942
45	Flaming Gorge	130,169	15,540	0	22,220	0	7,877	702	44,273	0	220,000	543,632
46	Telephone Canyon	32	0	0	0	0	0	0	968	0	1,000	2,471
47	Mexican Flats	52,554	0	0	0	0	1,795	0	18,651	0	73,000	180,387
48	White Mountain	523	0	0	0	0	0	0	477	0	1,000	2,471
49	Delaney Rim	850	0	0	0	0	0	0	1,150	0	2,000	4,942
50	Lookout Mountain Foothill	169	0	0	0	0	61	0	2,770	0	3,000	7,413
51	Bigelow Bench	4,635	0	0	0	0	489	0	5,876	0	11,000	27,182
52	Cooper Lake	0	0	0	0	0	0	0	1,000	0	1,000	2,471
53	Teton Reservoir	1,002	0	0	0	0	0	0	998	0	2,000	4,942
54	Yampa River - Lower	459,000	0	0	245	458	86,720	837	257,535	0	804,000	1,986,727
55	Laramie Plains	765	0	0	0	0	503	0	10,732	0	12,000	29,653
56	Red Wash Draw	938	0	0	0	0	0	0	1,062	0	2,000	4,942
57	Pierce Reservoir	0	0	0	0	0	24	0	976	0	1,000	2,471
58	Hams Fork	5,831	0	0	0	0	1,079	0	9,089	0	16,000	39,537
59	North Baxter Basin	4,345	0	0	0	0	306	0	6,349	0	11,000	27,182
60	Cannonball Joe Cut	118	0	0	0	0	200	0	681	0	1,000	2,471
61	Sinclair	150	0	0	0	0	0	0	850	0	1,000	2,471
62	Opal	551	0	0	0	0	153	0	1,297	0	2,000	4,942
63	Sand Hills	1,055	0	0	0	0	51	0	1,894	0	3,000	7,413
64	Rich Spring	989	0	0	0	0	0	0	11	0	1,000	2,471
65	Long Canyon	413	0	0	0	0	0	0	587	0	1,000	2,471
66	Twelvemile Gulch	4,476	0	0	0	0	0	0	4,524	0	9,000	22,239
67	Monte Cristo	26,620	0	0	2,425	0	2,127	0	11,828	0	43,000	106,255
68	West Bluegrass Creek	658	0	0	0	0	251	0	1,091	0	2,000	4,942
69	North Fork Alkali Creek	1,000	0	0	0	0	0	0	0	0	1,000	2,471
70	Wheatland Reservoir	1,002	0	0	0	0	292	0	4,706	0	6,000	14,826

Appendix D. Conservation Areas and land ownership (hectares) – (continued)

BLM= Bureau of Land Management; BOR=Bureau of Reclamation; FWS = Fish & Wildlife Service; USFS=U.S. Forest Service; NPS=National Park

ID	Conservation Area Name	BLM	BOR	FWS	USFS	NPS	State	Private (protected)	Private	Native American	Total Size (Hectares)	Total Size (Acres)
71	Antelope Hills Dunes	926	0	0	0	0	0	0	74	0	1,000	2,471
72	Box Canyon	4,618	0	0	0	0	1,487	0	8,895	0	15,000	37,066
73	Chain Lakes Flat	10,336	0	0	0	0	25,317	0	3,606	0	39,000	96,371
74	Upper Bear River	141,509	0	11,251	0	3,366	17,912	0	102,967	0	277,000	684,482
75	Eightmile Creek	1,000	0	0	0	0	0	0	0	0	1,000	2,471
76	North Laramie River	236	0	0	0	0	113	0	651	0	1,000	2,471
77	Fontelle Reservoir	562	366	0	0	0	72	0	0	0	1,000	2,471
78	Bradley Peak	270	0	0	0	0	250	0	480	0	1,000	2,471
79	Anderson Canyon	2,000	0	0	0	0	0	0	0	0	2,000	4,942
80	Great Divide Basin	44,046	0	0	0	0	2,815	0	139	0	47,000	116,140
81	Stratton Rim	878	0	0	0	0	118	0	4	0	1,000	2,471
82	Bear Lake	1,781	0	7,206	0	0	454	0	5,559	0	15,000	37,066
83	Shirley Basin	1,000	0	0	0	0	0	0	0	0	1,000	2,471
84	Buckhorn Draw	2,000	0	0	0	0	0	0	0	0	2,000	4,942
85	Sheep Mountain	778	0	0	0	0	0	0	222	0	1,000	2,471
86	Wildcat Canyon	1,000	0	0	0	0	0	0	0	0	1,000	2,471
87	Hogback Ridge	2,672	0	0	0	0	224	0	104	0	3,000	7,413
88	North Creek	0	0	0	0	0	0	0	2,000	0	2,000	4,942
89	Piney Creek	939	0	0	0	0	0	0	61	0	1,000	2,471
90	Alkali Creek	1,000	0	0	0	0	0	0	0	0	1,000	2,471
91	Dry Sandy Creek	5,390	0	0	0	0	546	0	65	0	6,000	14,826
92	Cretaceous Mountain	896	0	0	0	0	0	0	104	0	1,000	2,471
93	Dry Basin	1,000	0	0	0	0	0	0	0	0	1,000	2,471
94	Sand Draw	3,828	0	0	0	0	23	0	149	0	4,000	9,884
95	Burnt Wagon Draw	1,900	0	0	0	0	431	0	669	0	3,000	7,413
96	North Platte - Coal Creek	384	0	0	0	0	185	1,135	863	0	2,000	4,942
97	Red Butte	778	0	0	0	0	1,039	1,541	2,748	300	5,000	12,355
98	Kirby Draw	0	0	0	0	0	0	0	0	1,000	1,000	2,471
99	Sweetwater River and Central Basins Megasite	1,332,814	82,284	17,128	3,111	0	171,660	40,042	590,061	2,742	2,227,000	5,503,037
100	Upper Green River	183,753	0	0	16,535	0	20,209	22,438	133,839	0	358,000	884,637
101	Moneta Hills	3,464	0	0	0	0	657	0	879	0	5,000	12,355
102	Wind River - Martin Ponds	0	0	0	0	0	0	806	0	1,194	2,000	4,942
103	Ocean Lake - Missouri Valley	0	9,912	0	0	0	7,154	0	0	5,036	22,000	54,363
104	Alkali Flats	10,390	0	0	0	0	943	0	1,667	0	13,000	32,124



Appendix D. Conservation Areas and land ownership (hectares) – (continued)

BLM= Bureau of Land Management; BOR=Bureau of Reclamation; FWS = Fish & Wildlife Service; USFS=U.S. Forest Service; NPS=National Park

ID	Conservation Area Name	BLM	BOR	FWS	USFS	NPS	State	Private (protected)	Private	Native American	Total Size (Hectares)	Total Size (Acres)
105	Cedar Ridge	587	0	0	0	0	316	0	97	0	1,000	2,471
106	Sand Mesa	0	9,585	0	0	0	7,315	0	0	4,128	21,000	51,892
107	Snyder Creek	1,226	0	0	0	0	220	0	554	0	2,000	4,942
108	Boysen	4,360	75	0	0	0	964	0	278	1,324	7,000	17,297
109	Upper Wind River	11,111	0	0	14,878	0	21,567	5,472	9,539	8,071	70,000	172,974
110	Wind River Canyon/ Bighorn River	262	0	0	0	0	384	1	3,353	0	4,000	9,884
111	Du Noir Creek	0	0	0	2,689	0	0	0	311	0	3,000	7,413
112	Putney Flat	10,676	0	0	0	0	1,336	0	12,518	2,470	27,000	66,718
113	Cottonwood Creek	946	0	0	0	0	0	0	1,054	0	2,000	4,942
114	Gooseberry Creek - Enos Creek	2,903	0	0	0	0	716	968	2,381	0	6,000	14,826
115	Bighorn River - Horse Gulch	1,999	0	0	0	0	1	0	0	0	2,000	4,942
116	Lysite Mountain	213,905	637	0	0	0	29,988	2,180	78,667	0	325,000	803,092
117	Little Buffalo Basin	1,749	0	0	0	0	212	0	39	0	2,000	4,942
118	Bighorn River - Tenmile/Sixmile Creeks	5,817	131	0	0	0	0	0	1,053	0	7,000	17,297
119	Meeteetse Rim	830	0	0	0	0	610	0	2,560	0	4,000	9,884
120	Nowood River	16,456	779	0	0	0	869	0	3,896	0	22,000	54,363
121	Fifteen Mile Creek	143,496	16,162	0	0	0	8,957	3,647	25,563	0	196,000	484,327
122	West slope - Bighorn Mountains	41,571	0	0	0	0	9,527	837	8,091	0	60,000	148,263
123	North/South Fork Shoshone - Greybull	17,264	136	0	32,276	0	27,280	8,885	60,110	0	144,000	355,832
124	McCullough Peaks	14,476	954	0	0	0	545	0	1,025	0	17,000	42,008
125	Heart Mountain	684	13	0	0	0	264	957	2,082	0	4,000	9,884
126	Dry Bear Creek	6,200	0	0	0	0	462	0	338	0	7,000	17,297
127	Pat O'Hara Creek	2,252	2,943	0	0	0	448	0	2,357	0	8,000	19,768
128	Bighorn Canyon	4,181	0	0	0	7,641	7,765	0	2,918	0	18,000	44,479
129	Pryor Mountains	9,641	34	0	1,359	1,494	0	0	458	15	13,000	32,124
130	Sage Creek	0	0	0	997	0	0	0	3	0	1,000	2,471
131	John Weller Mesa	907	0	0	0	0	0	0	93	0	1,000	2,471
132	Halfway Hollow North	868	0	0	0	0	132	0	0	0	1,000	2,471

**Appendix E. Distribution of targets within conservation areas overlapping with projected oil and gas development (base scenario)**

Tax	Target Name	Amount Impacted	(metric)	Overall Goal impacted (%)
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	5,139.00	ha	9%
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	5,165.46	ha	14%
Terr Ecosys	Colorado Plateau Mixed Bedrock Canyon and Tableland	1,075.14	ha	8%
Terr Ecosys	Inter-Mountain Basins Shale Badland	5,086.53	ha	8%
Terr Ecosys	Rocky Mountain Aspen Forest and Woodland	289.35	ha	2%
Terr Ecosys	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	42.12	ha	1%
Terr Ecosys	Colorado Plateau Pinyon-Juniper Woodland Shrubland and Savanna	3,972.06	ha	8%
Terr Ecosys	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	51.21	ha	1%
Terr Ecosys	Rocky Mountain Foothill Limber Pine-Juniper Woodland	1,288.26	ha	1%
Terr Ecosys	Rocky Mountain Lodgepole Pine Forest	160.92	ha	1%
Terr Ecosys	Rocky Mountain Ponderosa Pine Woodland and Savanna	4.23	ha	0%
Terr Ecosys	Rocky Mountain Subalpine Dry-Mesic Spruce-Firt Forest and Woodland	60.39	ha	2%
Terr Ecosys	Inter-Mountain Basins Mixed Salt Desert Scrub	49,683.60	ha	16%
Terr Ecosys	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	271,297.98	ha	14%
Terr Ecosys	Inter-Mountain Basins Montane Sagebrush Steppe	7,834.77	ha	5%
Terr Ecosys	Inter-Mountain Basins Mat Saltbush Shrubland	46,416.96	ha	18%
Terr Ecosys	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	12,893.13	ha	5%
Terr Ecosys	Rocky Mountain Lower Montane-Foothill Shrubland	8.28	ha	0%
Terr Ecosys	Rocky Mountain Gambel Oak-Mixed Montane Shrubland	31.23	ha	2%
Terr Ecosys	Northern Rocky Mountain Lower Montane Foothill and Valley Grassland	65.79	ha	1%
Terr Ecosys	Southern Rocky Mountain Montane-Subalpine Grassland	23.76	ha	1%
Terr Ecosys	Inter-Mountain Basins Semi-Desert Grassland	9,950.13	ha	76%
Terr Ecosys	Northwestern Great Plains Mixedgrass Prairie	1,617.03	ha	1%
Terr Ecosys	Rocky Mountain Alpine-Montane Wet Meadow	33.57	ha	2%
Terr Ecosys	Western Great Plains Open Freshwater Depression Wetland	1,126.53	ha	14%
Terr Ecosys	Western Great Plains Saline Depression Wetland	6,478.11	ha	13%
Terr Ecosys	Riparian	7,167.60	ha	10%
Terr Ecosys	Inter-Mountain Basins Greasewood Flat	9,560.43	ha	10%
Terr Ecosys	Western Great Plains Floodplain	1,314.09	ha	11%
Amphibian	Northern Leopard Frog	2	count	2%
Bird	Bald Eagle	94	count	8%
Bird	Columbian Sharp-tailed Grouse	1,748.00	ha	5%
Bird	Ferruginous Hawk	66	count	9%
Bird	Greater Sage Grouse (core areas)	213,616.00	ha	7%
Bird	Mountain Plover	483	count	40%
Mammals	Elk	98,204.00	ha	10%
Mammals	Idaho Pocket Gopher	46,772.00	ha	8%
Mammals	Mule Deer	127,324.00	ha	11%
Mammals	Pronghorn	172,896.00	ha	10%

Appendix E. Distribution of targets within conservation areas overlapping with projected oil and gas development (base scenario) – (continued)

Tax	Target Name	Amount Impacted	(metric)	Overall Goal impacted (%)
Mammals	Pygmy Rabbit	2,130.00	count	57%
Mammals	White tailed Prairie Dog	8,525.00	ha	9%
Mammals	Wyoming Ground Squirrel	1	count	2%
Mammals	Wyoming Pocket Gopher	5	count	45%
Plants	Porters Sagebrush	172	count	79%
Plants	Mesic Milkvetch	4	count	18%
Plants	Big Piney Milkvetch	28	count	70%
Plants	Treleases Racemose Milkvetch	20	count	45%
Plants	Cedar Rim Thistle	3	count	6%
Plants	Large-fruited Bladderpod	43	count	57%
Plants	Gibbens Beardtongue	6	count	7%
Plants	Desert Glandular Phacelia	8	count	33%
Plants	Beaver Rim Phlox	172	count	50%
Plants	Tufted Twinpod	12	count	18%

**Appendix F. Distribution of targets within conservation areas overlapping with projected oil and gas development (unconstrained scenario)**

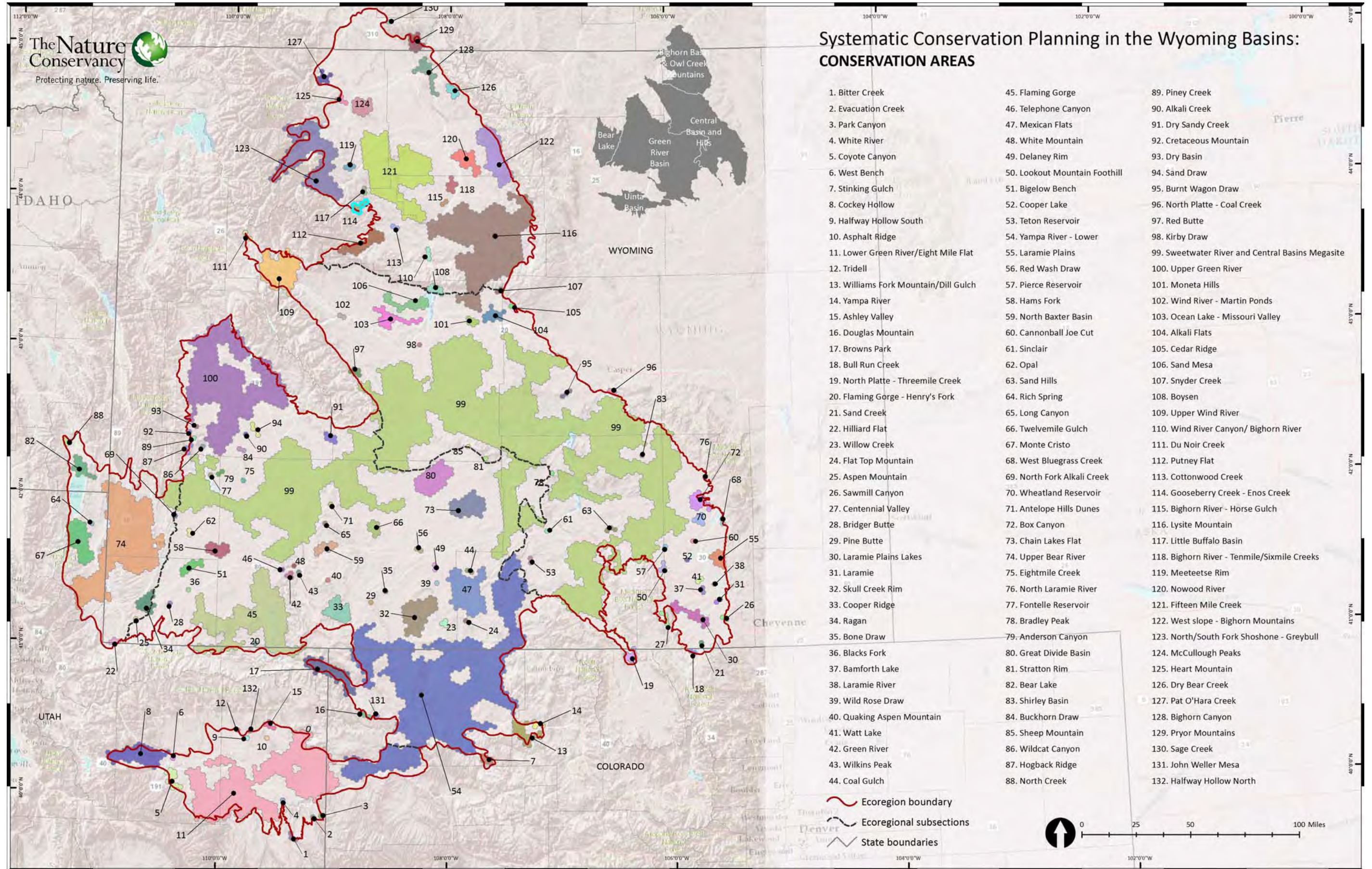
Taxonomic Group	Target Name	Amount Impacted	(metric)	Overall Goal impacted%
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	5,139.00	ha	9.2%
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	5,165.46	ha	13.6%
Terr Ecosys	Colorado Plateau Mixed Bedrock Canyon and Tableland	1,075.14	ha	8.1%
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	18,415.44	ha	33%
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	11,242.35	ha	30%
Terr Ecosys	Colorado Plateau Mixed Bedrock Canyon and Tableland	8,214.75	ha	62%
Terr Ecosys	Inter-Mountain Basins Shale Badland	18,666.99	ha	29%
Terr Ecosys	Rocky Mountain Aspen Forest and Woodland	5,236.74	ha	40%
Terr Ecosys	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	1,121.40	ha	25%
Terr Ecosys	Colorado Plateau Pinyon-Juniper Woodland Shrubland and Savanna	14,244.12	ha	27%
Terr Ecosys	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	437.49	ha	9%
Terr Ecosys	Rocky Mountain Foothill Limber Pine-Juniper Woodland	10,933.74	ha	12%
Terr Ecosys	Rocky Mountain Lodgepole Pine Forest	565.11	ha	5%
Terr Ecosys	Rocky Mountain Ponderosa Pine Woodland and Savanna	10.17	ha	1%
Terr Ecosys	Rocky Mountain Subalpine Dry-Mesic Spruce-Firt Forest and Woodland	145.08	ha	4%
Terr Ecosys	Inter-Mountain Basins Mixed Salt Desert Scrub	129,262.32	ha	43%
Terr Ecosys	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	788,719.14	ha	39%
Terr Ecosys	Inter-Mountain Basins Montane Sagebrush Steppe	30,891.15	ha	21%
Terr Ecosys	Inter-Mountain Basins Mat Saltbush Shrubland	91,293.66	ha	35%
Terr Ecosys	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	54,493.02	ha	20%
Terr Ecosys	Rocky Mountain Lower Montane-Foothill Shrubland	369	ha	11%
Terr Ecosys	Rocky Mountain Gambel Oak-Mixed Montane Shrubland	133.92	ha	10%
Terr Ecosys	Northern Rocky Mountain Lower Montane Foothill and Valley Grassland	760.14	ha	17%
Terr Ecosys	Southern Rocky Mountain Montane-Subalpine Grassland	395.91	ha	15%
Terr Ecosys	Inter-Mountain Basins Semi-Desert Grassland	19,008.63	ha	146%
Terr Ecosys	Northwestern Great Plains Mixedgrass Prairie	7,590.87	ha	6%
Terr Ecosys	North American Arid West Emergent Marsh	1.62	ha	0%
Terr Ecosys	Inter-Mountain Basins Interdunal Swale Wetland	37.8	ha	14%
Terr Ecosys	Rocky Mountain Alpine-Montane Wet Meadow	122.58	ha	7%
Terr Ecosys	Western Great Plains Open Freshwater Depression Wetland	2,242.26	ha	28%
Terr Ecosys	Columbia Plateau Vernal Pool	0.18	ha	3%
Terr Ecosys	Western Great Plains Saline Depression Wetland	15,403.77	ha	31%
Terr Ecosys	Riparian	22,768.11	ha	31%
Terr Ecosys	Inter-Mountain Basins Greasewood Flat	28,389.96	ha	29%
Terr Ecosys	Western Great Plains Floodplain	2,997.54	ha	25%
Amphibian	Northern Leopard Frog	6	count	7%
Bird	Bald Eagle	208	count	17%
Bird	Columbian Sharp-tailed Grouse	8,748.00	ha	24%
Bird	Ferruginous Hawk	307	count	40%



Appendix F. Distribution of targets within conservation areas overlapping with projected oil and gas development (unconstrained scenario) – (continued)

Taxonomic Group	Target Name	Amount Impacted	(metric)	Overall Goal impacted%
Bird	Greater Sage Grouse (core areas)	686,970.00	ha	22%
Bird	Mountain Plover	545	count	45%
Mammals	Black-footed Ferret	3,799.00	ha	7%
Mammals	Elk	258,647.00	ha	27%
Mammals	Idaho Pocket Gopher	194,393.00	ha	31%
Mammals	Mule Deer	339,333.00	ha	28%
Mammals	Pronghorn	492,746.00	ha	28%
Mammals	Pygmy Rabbit	2,829.00	count	76%
Mammals	Swift Fox	1	count	1%
Mammals	White tailed Prairie Dog	37,228.00	ha	40%
Mammals	Wyoming Ground Squirrel	4	count	7%
Mammals	Wyoming Pocket Gopher	6	count	55%
Plants	Meadow Pussytoes	9	count	12%
Plants	Porters Sagebrush	178	count	82%
Plants	Debris Milkvetch	1	count	50%
Plants	Mesic Milkvetch	4	count	18%
Plants	Big Piney Milkvetch	30	count	75%
Plants	Hamiltons Milkvetch	1	count	100%
Plants	Treleases Racemose Milkvetch	34	count	77%
Plants	Cedar Rim Thistle	12	count	22%
Plants	Owl Creek Miners Candle	1	count	6%
Plants	Everts Waferparsnip	1	count	5%
Plants	Entire-leaved Peppergrass	1	count	3%
Plants	Large-fruited Bladderpod	51	count	68%
Plants	Prostrate Bladderpod	32	count	51%
Plants	Flowers Penstemon	17	count	61%
Plants	Gibbens Beardtongue	33	count	37%
Plants	Goodrichs Penstemon	1	count	100%
Plants	Desert Glandular Phacelia	10	count	42%
Plants	Beaver Rim Phlox	203	count	59%
Plants	Tufted Twinpod	12	count	18%
Plants	Dorns Twinpod	3	count	3%
Plants	Utes Ladies Tresses	1	count	3%
Plants	Desert Yellowhead	7	count	41%







Appendix H. Conservation Area Summaries



**1 Bitter Creek**

Size (hectares): 3,000 State(s): Utah  
 Size (acres): 7,413 % Public: 94%

Section(s): 1 2 3 4 5  
 - - - - x

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		10 ha
	Colorado Plateau Mixed Bedrock Canyon and Tableland	Small		92 ha
	Colorado Plateau Pinyon-Juniper Woodland Shrubland and Savanna	Matrix		225 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		6 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		84 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		96 ha
	Inter-Mountain Basins Greasewood Flat	Large		2 ha
Mammals	Elk ( <i>Cervus canadensis</i> )		G5	204 ha
	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	453 ha



**2 Evacuation Creek**

Size (hectares): 1,000 State(s): Utah  
 Size (acres): 2,471 % Public: 30%

Section(s): 1 2 3 4 5  
 - - - - x

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Colorado Plateau Mixed Bedrock Canyon and Tableland	Small		101 ha
	Inter-Mountain Basins Shale Badland	Small		3 ha
	Colorado Plateau Pinyon-Juniper Woodland Shrubland and Savanna	Matrix		143 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		59 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		374 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		18 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		39 ha
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	726 ha
	Plants	White River Penstemon ( <i>Penstemon scariosus</i> var. <i>albifluvis</i> )	G4T1	6 count



**3 Park Canyon**

Size (hectares): 1,000 State(s): Utah  
 Size (acres): 2,471 % Public: 5%

Section(s): 1 2 3 4 5  
 - - - - x

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		3 ha
	Colorado Plateau Mixed Bedrock Canyon and Tableland	Small		52 ha
	Colorado Plateau Pinyon-Juniper Woodland Shrubland and Savanna	Matrix		117 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		3 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		584 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		62 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	Inter-Mountain Basins Greasewood Flat	Large		2	ha
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	825	ha
Plants	White River Penstemon ( <i>Penstemon scariosus</i> var. <i>albifluvis</i> )		G4T1	2	count



### 4 White River

Size (hectares): 1,000 State(s): Utah  
 Size (acres): 2,471 % Public: 100%

Section(s): 1 2 3 4 5  
 - - - - x

Tax Group	Target Name	Patch Type	G-rank	Amount	
Terr Ecosys	Colorado Plateau Mixed Bedrock Canyon and Tableland	Small		122	ha
	Inter-Mountain Basins Shale Badland	Small		11	ha
	Colorado Plateau Pinyon-Juniper Woodland Shrubland and Savanna	Matrix		23	ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		219	ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		340	ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		48	ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		97	ha
	Inter-Mountain Basins Semi-Desert Grassland	Large		28	ha
	Riparian	Linear		3	ha
	Inter-Mountain Basins Greasewood Flat	Large		75	ha
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	398	ha
	Pronghorn ( <i>Antilocapra americana</i> )		G5	735	ha
Plants	Uinta Basin Hookless Cactus ( <i>Sclerocactus wetlandicus</i> )		G3	1	count



### 5 Coyote Canyon

Size (hectares): 11,000 State(s): Utah  
 Size (acres): 27,182 % Public: 26%

Section(s): 1 2 3 4 5  
 - - - - x

Tax Group	Target Name	Patch Type	G-rank	Amount	
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		10	ha
	Colorado Plateau Mixed Bedrock Canyon and Tableland	Small		341	ha
	Colorado Plateau Pinyon-Juniper Woodland Shrubland and Savanna	Matrix		4,072	ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		101	ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		740	ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		2	ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		2,300	ha
	Southern Rocky Mountain Montane-Subalpine Grassland	Small		2	ha
	Inter-Mountain Basins Semi-Desert Grassland	Large		9	ha
	Rocky Mountain Alpine-Montane Wet Meadow	Small		1	ha
	Riparian	Linear		67	ha
	Inter-Mountain Basins Greasewood Flat	Large		344	ha
Bird	Ferruginous Hawk ( <i>Buteo regalis</i> )		G4	3	count
Mammals	Elk ( <i>Cervus canadensis</i> )		G5	4,533	ha
	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	5,013	ha
Plants	Debris Milkvetch ( <i>Astragalus detritalis</i> )		G3	1	count
	Utes Ladies Tresses ( <i>Spiranthes diluvialis</i> )		G2G3	4	count

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.



Appendix H. Conservation Area Summaries

Plants Green River Greenthread (*Thelesperma caespitosum*) G1 1 count



**6 West Bench**

Size (hectares): 1,000 State(s): Utah  
 Size (acres): 2,471 % Public: 0%

Section(s): 1 2 3 4 5  
 - - - - x

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Colorado Plateau Mixed Bedrock Canyon and Tableland	Small		1 ha
	Colorado Plateau Pinyon-Juniper Woodland Shrubland and Savanna	Matrix		138 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		561 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		39 ha
	Inter-Mountain Basins Semi-Desert Grassland	Large		1 ha
	Riparian	Linear		74 ha
	Inter-Mountain Basins Greasewood Flat	Large		13 ha
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	431 ha
Plants	Utes Ladies Tresses ( <i>Spiranthes diluvialis</i> )		G2G3	1 count



**7 Stinking Gulch**

Size (hectares): 6,000 State(s): Colorado  
 Size (acres): 14,826 % Public: 13%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Rocky Mountain Aspen Forest and Woodland	Small		4 ha
	Colorado Plateau Pinyon-Juniper Woodland Shrubland and Savanna	Matrix		11 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		1,381 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		734 ha
	Rocky Mountain Lower Montane-Foothill Shrubland	Small		16 ha
	Rocky Mountain Gambel Oak-Mixed Montane Shrubland	Small		608 ha
	Southern Rocky Mountain Montane-Subalpine Grassland	Small		1 ha
	Inter-Mountain Basins Semi-Desert Grassland	Large		21 ha
	Riparian	Linear		16 ha
	Inter-Mountain Basins Greasewood Flat	Large		5 ha
Bird	Columbian Sharp-tailed Grouse ( <i>Tympanuchus phasianellus columbianus</i> )		G4T3	3,818 ha
	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	3,545 ha
Mammals	Elk ( <i>Cervus canadensis</i> )		G5	1,599 ha
	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	3,668 ha



**8 Cockey Hollow**

Size (hectares): 52,000 State(s): Utah  
 Size (acres): 128,495 % Public: 32%

Section(s): 1 2 3 4 5  
 - - - - x

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		212 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	Colorado Plateau Mixed Bedrock Canyon and Tableland	Small	398	ha
	Rocky Mountain Aspen Forest and Woodland	Small	28	ha
	Colorado Plateau Pinyon-Juniper Woodland Shrubland and Savanna	Matrix	22,504	ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small	58	ha
	Rocky Mountain Ponderosa Pine Woodland and Savanna	Small	0	ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix	14	ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix	11,851	ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large	2,669	ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large	825	ha
	Rocky Mountain Gambel Oak-Mixed Montane Shrubland	Small	457	ha
	Southern Rocky Mountain Montane-Subalpine Grassland	Small	24	ha
	Inter-Mountain Basins Semi-Desert Grassland	Large	11	ha
	Rocky Mountain Alpine-Montane Wet Meadow	Small	103	ha
	Riparian	Linear	207	ha
	Inter-Mountain Basins Greasewood Flat	Large	133	ha
Amphibian	Northern Leopard Frog ( <i>Rana pipiens</i> )	G5	1	count
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )	G5	2	count
Mammals	Elk ( <i>Cervus canadensis</i> )	G5	38,522	ha
	Mule Deer ( <i>Odocoileus hemionus</i> )	G5	36,724	ha
Plants	Utes Ladies Tresses ( <i>Spiranthes diluvialis</i> )	G2G3	4	count



### 9 Halfway Hollow South

Size (hectares): 1,000 State(s): Utah  
 Size (acres): 2,471 % Public: 74%

Section(s): 1 2 3 4 5  
 - - - - x

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Colorado Plateau Mixed Bedrock Canyon and Tableland	Small		22 ha
	Colorado Plateau Pinyon-Juniper Woodland Shrubland and Savanna	Matrix		55 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		3 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		701 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		6 ha
	Southern Rocky Mountain Montane-Subalpine Grassland	Small		0 ha
	Inter-Mountain Basins Semi-Desert Grassland	Large		1 ha
	Riparian	Linear		1 ha
	Inter-Mountain Basins Greasewood Flat	Large		1 ha
Plants	Utes Ladies Tresses ( <i>Spiranthes diluvialis</i> )		G2G3	1 count



### 10 Asphalt Ridge

Size (hectares): 1,000 State(s): Utah  
 Size (acres): 2,471 % Public: 90%

Section(s): 1 2 3 4 5  
 - - - - x

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Colorado Plateau Mixed Bedrock Canyon and Tableland	Small		53 ha
	Colorado Plateau Pinyon-Juniper Woodland Shrubland and Savanna	Matrix		441 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		11 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix	374	ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large	60	ha
	Inter-Mountain Basins Semi-Desert Grassland	Large	6	ha
	Riparian	Linear	1	ha
Mammals	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )	G4	41	ha
Plants	Hamiltons Milkvetch ( <i>Astragalus hamiltonii</i> )	G1	1	count



### 11 Lower Green River/Eight Mile Flat

Size (hectares): 352,000 State(s): Colorado, Utah  
 Size (acres): 869,811 % Public: 79%

Section(s): 1 2 3 4 5  
 - - - - x

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		613 ha
	Colorado Plateau Mixed Bedrock Canyon and Tableland	Small		20,593 ha
	Inter-Mountain Basins Shale Badland	Small		13,004 ha
	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		8 ha
	Colorado Plateau Pinyon-Juniper Woodland Shrubland and Savanna	Matrix		17,444 ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		11 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		83,172 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		92,410 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		6,567 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		38,682 ha
	Rocky Mountain Gambel Oak-Mixed Montane Shrubland	Small		1 ha
	Southern Rocky Mountain Montane-Subalpine Grassland	Small		21 ha
	Inter-Mountain Basins Semi-Desert Grassland	Large		3,488 ha
	Rocky Mountain Alpine-Montane Wet Meadow	Small		551 ha
	Riparian	Linear		4,071 ha
	Inter-Mountain Basins Greasewood Flat	Large		19,187 ha
Amphibian	Northern Leopard Frog ( <i>Rana pipiens</i> )		G5	13 count
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )		G5	80 count
	Ferruginous Hawk ( <i>Buteo regalis</i> )		G4	402 count
	Mountain Plover ( <i>Charadrius montanus</i> )		G3	210 count
Mammals	Black-footed Ferret ( <i>Mustela nigripes</i> )		G1	9,103 ha
	Elk ( <i>Cervus canadensis</i> )		G5	21,799 ha
	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	37,721 ha
	Pronghorn ( <i>Antilocapra americana</i> )		G5	249,902 ha
	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )		G4	27,161 ha
Plants	Debris Milkvetch ( <i>Astragalus detritalis</i> )		G3	2 count
	Flowers Penstemon ( <i>Penstemon flowersii</i> )		G1	28 count
	Graham beardtongue ( <i>Penstemon grahamii</i> )		G2	7 count
	White River Penstemon ( <i>Penstemon scariosus</i> var. <i>albifluvis</i> )		G4T1	22 count
	Clay Reed-mustard ( <i>Schoenocrambe argillacea</i> )		G1	13 count
	Pariette Cactus ( <i>Sclerocactus brevispinus</i> )		G1	64 count
	Uinta Basin Hookless Cactus ( <i>Sclerocactus wetlandicus</i> )		G3	22 count
Spanish Bayonet ( <i>Yucca harrimaniae</i> var. <i>sterilis</i> )		G4G5T1	1 count	

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries



**12 Tridell**

Size (hectares): 1,000 State(s): Utah  
 Size (acres): 2,471 % Public: 0%

Section(s): 1 2 3 4 5  
 - - - - x

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Colorado Plateau Mixed Bedrock Canyon and Tableland	Small		1 ha
	Colorado Plateau Pinyon-Juniper Woodland Shrubland and Savanna	Matrix		73 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		25 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		1 ha
	Riparian	Linear		21 ha
	Inter-Mountain Basins Greasewood Flat	Large		3 ha
Plants	Goodrichs Penstemon (Penstemon goodrichii)		G2	1 count



**13 Williams Fork Mountain/Dill Gulch**

Size (hectares): 20,000 State(s): Colorado  
 Size (acres): 49,421 % Public: 22%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Rocky Mountain Aspen Forest and Woodland	Small		16 ha
	Colorado Plateau Pinyon-Juniper Woodland Shrubland and Savanna	Matrix		15 ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		4 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		2 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		4,740 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		1,241 ha
	Rocky Mountain Lower Montane-Foothill Shrubland	Small		35 ha
	Rocky Mountain Gambel Oak-Mixed Montane Shrubland	Small		256 ha
	Southern Rocky Mountain Montane-Subalpine Grassland	Small		1 ha
	Inter-Mountain Basins Semi-Desert Grassland	Large		47 ha
	North American Arid West Emergent Marsh	Small		3 ha
	Riparian	Linear		452 ha
	Inter-Mountain Basins Greasewood Flat	Large		3 ha
Bird	Bald Eagle (Haliaeetus leucocephalus)		G5	1 count
	Columbian Sharp-tailed Grouse (Tympanuchus phasianellus columbianus)		G4T3	12,636 ha
	Greater Sage Grouse (core areas) (Centrocercus urophasianus)		G4	8,254 ha
Mammals	Elk (Cervus canadensis)		G5	13,291 ha



**14 Yampa River**

Size (hectares): 4,000 State(s): Colorado  
 Size (acres): 9,884 % Public: 7%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Colorado Plateau Pinyon-Juniper Woodland Shrubland and Savanna	Matrix		2 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.



## Appendix H. Conservation Area Summaries

Terr Ecosys	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix	5	ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix	410	ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large	12	ha
	Rocky Mountain Gambel Oak-Mixed Montane Shrubland	Small	2	ha
	Riparian	Linear	265	ha
	Inter-Mountain Basins Greasewood Flat	Large	8	ha
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )	G5	3	count
	Columbian Sharp-tailed Grouse ( <i>Tympanuchus phasianellus columbianus</i> )	G4T3	909	ha
Mammals	Elk ( <i>Cervus canadensis</i> )	G5	2,525	ha



### 15 Ashley Valley

Size (hectares): 4,000 State(s): Utah  
 Size (acres): 9,884 % Public: 13%

Section(s): 1 2 3 4 5  
 - - - - x

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Colorado Plateau Mixed Bedrock Canyon and Tableland	Small		14 ha
	Colorado Plateau Pinyon-Juniper Woodland Shrubland and Savanna	Matrix		181 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		9 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		71 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		26 ha
	Southern Rocky Mountain Montane-Subalpine Grassland	Small		3 ha
	Rocky Mountain Alpine-Montane Wet Meadow	Small		20 ha
	Riparian	Linear		83 ha
	Inter-Mountain Basins Greasewood Flat	Large		45 ha
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	2,552 ha
Plants	Utes Ladies Tresses ( <i>Spiranthes diluvialis</i> )		G2G3	16 count



### 16 Douglas Mountain

Size (hectares): 3,000 State(s): Colorado  
 Size (acres): 7,413 % Public: 71%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Colorado Plateau Pinyon-Juniper Woodland Shrubland and Savanna	Matrix		351 ha
	Rocky Mountain Ponderosa Pine Woodland and Savanna	Small		47 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		568 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		3 ha
	Rocky Mountain Lower Montane-Foothill Shrubland	Small		9 ha
	Inter-Mountain Basins Semi-Desert Grassland	Large		26 ha
Plants	Narrow-leaf evening Primrose ( <i>Oenothera acutissima</i> )		G2	1 count

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries



**17 Browns Park**

Size (hectares): 42,000 State(s): Colorado, Utah  
 Size (acres): 103,784 % Public: 97%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		3 ha
	Inter-Mountain Basins Cliff and Canyon	Small		30 ha
	Colorado Plateau Mixed Bedrock Canyon and Tableland	Small		219 ha
	Inter-Mountain Basins Shale Badland	Small		294 ha
	Colorado Plateau Pinyon-Juniper Woodland Shrubland and Savanna	Matrix		2,790 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		2,695 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		2,174 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		15,162 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		6 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		365 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		9 ha
	Rocky Mountain Lower Montane-Foothill Shrubland	Small		0 ha
	Northern Rocky Mountain Lower Montane Foothill and Valley Grassland	Small		0 ha
	Riparian	Linear		222 ha
	Inter-Mountain Basins Greasewood Flat	Large		323 ha
Amphibian	Northern Leopard Frog ( <i>Rana pipiens</i> )		G5	1 count
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )		G5	24 count
Mammals	Elk ( <i>Cervus canadensis</i> )		G5	13,990 ha
	Idaho Pocket Gopher ( <i>Thomomys idahoensis</i> )		G4	11,615 ha
	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	20,936 ha
	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )		G4	365 ha
		Duchesne Milkvetch ( <i>Astragalus duchesnensis</i> )		G3
Plants	Gibbens Beardtongue ( <i>Penstemon gibbensii</i> )		G1G2	8 count
	Utes Ladies Tresses ( <i>Spiranthes diluvialis</i> )		G2G3	3 count



**18 Bull Run Creek**

Size (hectares): 2,000 State(s): Colorado  
 Size (acres): 4,942 % Public: 28%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		0 ha
	Rocky Mountain Aspen Forest and Woodland	Small		2 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		87 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		8 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		99 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		435 ha
	Rocky Mountain Lower Montane-Foothill Shrubland	Small		412 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		218 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		1 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	Western Great Plains Saline Depression Wetland	Small		8	ha
	Inter-Mountain Basins Greasewood Flat	Large		0	ha
Mammals	Elk ( <i>Cervus canadensis</i> )		G5	913	ha
	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	353	ha



### 19 North Platte - Threemile Creek

Size (hectares): 7,000 State(s): Colorado, Wyoming  
 Size (acres): 17,297 % Public: 42%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount	
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		2	ha
	Inter-Mountain Basins Shale Badland	Small		3	ha
	Rocky Mountain Aspen Forest and Woodland	Small		260	ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		69	ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		762	ha
	Rocky Mountain Lodgepole Pine Forest	Small		642	ha
	Rocky Mountain Subalpine Dry-Mesic Spruce-Firt Forest and Woodland	Small		52	ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		275	ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		2,669	ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		68	ha
	Rocky Mountain Lower Montane-Foothill Shrubland	Small		6	ha
	Rocky Mountain Gambel Oak-Mixed Montane Shrubland	Small		49	ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		130	ha
	Western Great Plains Saline Depression Wetland	Small		9	ha
	Riparian	Linear		9	ha
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )		G5	1	count
	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	2,869	ha
Mammals	Elk ( <i>Cervus canadensis</i> )		G5	2,678	ha
	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	347	ha



### 20 Flaming Gorge - Henry's Fork

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 83%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount	
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		115	ha
	Colorado Plateau Mixed Bedrock Canyon and Tableland	Small		44	ha
	Inter-Mountain Basins Shale Badland	Small		5	ha
	Colorado Plateau Pinyon-Juniper Woodland Shrubland and Savanna	Matrix		0	ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		107	ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		122	ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		327	ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		1	ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		133	ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		4	ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	Western Great Plains Open Freshwater Depression Wetland	Small	15	ha	
	Western Great Plains Saline Depression Wetland	Small	1	ha	
	Riparian	Linear	8	ha	
	Inter-Mountain Basins Greasewood Flat	Large	10	ha	
	Western Great Plains Floodplain	Linear	0	ha	
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	773	ha
Plants	Precocious Milkvetch ( <i>Astragalus proimanthus</i> )		G1	8	count



### 21 Sand Creek

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 21%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		0 ha
	Inter-Mountain Basins Cliff and Canyon	Small		3 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		1 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		1 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		48 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		4 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		452 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		378 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		9 ha
	Western Great Plains Saline Depression Wetland	Small		27 ha
	Riparian	Linear		31 ha
		Inter-Mountain Basins Greasewood Flat	Large	
Bird	Ferruginous Hawk ( <i>Buteo regalis</i> )		G4	2 count
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	821 ha
	Wyoming Ground Squirrel ( <i>Spermophilus elegans</i> )		G5	2 count



### 22 Hilliard Flat

Size (hectares): 4,000 State(s): Utah, Wyoming  
 Size (acres): 9,884 % Public: 6%

Section(s): 1 2 3 4 5  
 - - - x -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		7 ha
	Inter-Mountain Basins Shale Badland	Small		0 ha
	Rocky Mountain Aspen Forest and Woodland	Small		357 ha
	Rocky Mountain Bigtooth Maple Ravine Woodland	Linear		0 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		135 ha
	Rocky Mountain Lodgepole Pine Forest	Small		1 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		404 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		1,401 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		65 ha
	Rocky Mountain Lower Montane-Foothill Shrubland	Small		9 ha
	Rocky Mountain Gambel Oak-Mixed Montane Shrubland	Small		11 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.



## Appendix H. Conservation Area Summaries

Terr Ecosys	Southern Rocky Mountain Montane-Subalpine Grassland	Small	1	ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix	26	ha
	Rocky Mountain Alpine-Montane Wet Meadow	Small	2	ha
	Western Great Plains Open Freshwater Depression Wetland	Small	3	ha
	Western Great Plains Saline Depression Wetland	Small	601	ha
	Riparian	Linear	3	ha
Mammals	Idaho Pocket Gopher ( <i>Thomomys idahoensis</i> )	G4	3,166	ha



### 23 Willow Creek

Size (hectares): 3,000 State(s): Wyoming  
 Size (acres): 7,413 % Public: 100%

Section(s): 1 2 3 4 5  
 - - X - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		3 ha
	Inter-Mountain Basins Cliff and Canyon	Small		227 ha
	Inter-Mountain Basins Shale Badland	Small		187 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		6 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		867 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		331 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		1 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		1,161 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		12 ha
	Western Great Plains Saline Depression Wetland	Small		65 ha
	Riparian	Linear		37 ha
Plants	Inter-Mountain Basins Greasewood Flat	Large		105 ha
	Gibbens Beardtongue ( <i>Penstemon gibbensii</i> )		G1G2	36 count



### 24 Flat Top Mountain

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 99%

Section(s): 1 2 3 4 5  
 - - X - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		0 ha
	Inter-Mountain Basins Cliff and Canyon	Small		5 ha
	Inter-Mountain Basins Shale Badland	Small		64 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		679 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		6 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		3 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		241 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		1 ha
	Plants	Gibbens Beardtongue ( <i>Penstemon gibbensii</i> )		G1G2
Desert Glandular Phacelia ( <i>Phacelia glandulosa</i> var. <i>deserta</i> )			G4T1T2	4 count

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries



**25 Aspen Mountain**

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 36%

Section(s): 1 2 3 4 5  
 - - - x -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Shale Badland	Small		5 ha
	Rocky Mountain Aspen Forest and Woodland	Small		27 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		22 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		501 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		108 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		276 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		22 ha
	Western Great Plains Saline Depression Wetland	Small		2 ha
	Riparian	Linear		26 ha
Mammals	Idaho Pocket Gopher ( <i>Thomomys idahoensis</i> )		G4	1,004 ha
Plants	Prostrate Bladderpod ( <i>Lesquerella prostrata</i> )		G2G3	2 count



**26 Sawmill Canyon**

Size (hectares): 2,000 State(s): Wyoming  
 Size (acres): 4,942 % Public: 4%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		179 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		169 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		96 ha
	Rocky Mountain Lower Montane-Foothill Shrubland	Small		26 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		511 ha
	Western Great Plains Saline Depression Wetland	Small		0 ha
	Riparian	Linear		5 ha
	Inter-Mountain Basins Greasewood Flat	Large		30 ha
	Western Great Plains Floodplain	Linear		1 ha



**27 Centennial Valley**

Size (hectares): 4,000 State(s): Wyoming  
 Size (acres): 9,884 % Public: 29%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Rocky Mountain Aspen Forest and Woodland	Small		2 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		18 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		119 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		67 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		690 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	Western Great Plains Open Freshwater Depression Wetland	Small	69	ha
	Western Great Plains Saline Depression Wetland	Small	140	ha
	Riparian	Linear	21	ha
	Inter-Mountain Basins Greasewood Flat	Large	25	ha
	Western Great Plains Floodplain	Linear	72	ha
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )	G5	1	count
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )	G5	953	ha



### 28 Bridger Butte

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 10%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		2 ha
	Inter-Mountain Basins Cliff and Canyon	Small		1 ha
	Inter-Mountain Basins Shale Badland	Small		2 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		94 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		510 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		93 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		0 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		0 ha
	Western Great Plains Saline Depression Wetland	Small		19 ha
	Riparian	Linear		16 ha
Mammals	Inter-Mountain Basins Greasewood Flat	Large		0 ha
	Elk ( <i>Cervus canadensis</i> )		G5	169 ha
	Idaho Pocket Gopher ( <i>Thomomys idahoensis</i> )		G4	1,004 ha
Plants	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	957 ha
	Prostrate Bladderpod ( <i>Lesquerella prostrata</i> )		G2G3	2 count



### 29 Pine Butte

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 48%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		5 ha
	Inter-Mountain Basins Shale Badland	Small		36 ha
	Rocky Mountain Aspen Forest and Woodland	Small		13 ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		1 ha
	Rocky Mountain Lodgepole Pine Forest	Small		12 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		177 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		223 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		360 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		7 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		162 ha
Plants	Northwestern Great Plains Mixedgrass Prairie	Matrix		0 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	Riparian	Linear		0	ha
	Inter-Mountain Basins Greasewood Flat	Large		0	ha
Bird	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	1,000	ha
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	793	ha
Plants	Wyoming Tansymustard ( <i>Descurainia torulosa</i> )		G1	2	count



### 30 Laramie Plains Lakes

Size (hectares): 19,000 State(s): Wyoming  
 Size (acres): 46,950 % Public: 25%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		5 ha
	Inter-Mountain Basins Cliff and Canyon	Small		34 ha
	Rocky Mountain Aspen Forest and Woodland	Small		11 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		0 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		286 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		815 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		0 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		644 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		2,600 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		8,531 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		133 ha
	Western Great Plains Saline Depression Wetland	Small		2,547 ha
	Riparian	Linear		21 ha
	Inter-Mountain Basins Greasewood Flat	Large		798 ha
	Western Great Plains Floodplain	Linear		120 ha
Amphibian	Wyoming Toad ( <i>Bufo baxteri</i> )		G1	244 count
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )		G5	9 count
	Ferruginous Hawk ( <i>Buteo regalis</i> )		G4	1 count
Mammals	Elk ( <i>Cervus canadensis</i> )		G5	469 ha
	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	2,232 ha
	Preble's Meadow Jumping Mouse ( <i>Zapus hudsonius preblei</i> )		G5T2	6 count
	Pronghorn ( <i>Antilocapra americana</i> )		G5	4,450 ha
	Swift Fox ( <i>Vulpes velox</i> )		G3	2 count
	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )		G4	112 ha
	Wyoming Ground Squirrel ( <i>Spermophilus elegans</i> )		G5	3 count
Plants	Wards Goldenweed ( <i>Oonopsis wardii</i> )		G3	10 count



### 31 Laramie

Size (hectares): 2,000 State(s): Wyoming  
 Size (acres): 4,942 % Public: 3%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		1 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		3 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.



## Appendix H. Conservation Area Summaries

Terr Ecosys	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix	8	ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix	182	ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large	42	ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large	102	ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix	176	ha
	Western Great Plains Open Freshwater Depression Wetland	Small	5	ha
	Western Great Plains Saline Depression Wetland	Small	86	ha
	Inter-Mountain Basins Greasewood Flat	Large	110	ha
	Western Great Plains Floodplain	Linear	7	ha
Amphibian	Wyoming Toad ( <i>Bufo baxteri</i> )	G1	2	count
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )	G5	1	count
Mammals	Swift Fox ( <i>Vulpes velox</i> )	G3	1	count
	Wyoming Ground Squirrel ( <i>Spermophilus elegans</i> )	G5	2	count



### 32 Skull Creek Rim

Size (hectares): 52,000 State(s): Wyoming  
 Size (acres): 128,495 % Public: 97%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		12,471 ha
	Inter-Mountain Basins Cliff and Canyon	Small		246 ha
	Inter-Mountain Basins Shale Badland	Small		1,702 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		2 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		20,101 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		9,278 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		0 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		6,154 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		268 ha
	Western Great Plains Saline Depression Wetland	Small		534 ha
	Riparian	Linear		626 ha
	Inter-Mountain Basins Greasewood Flat	Large		616 ha
Bird	Ferruginous Hawk ( <i>Buteo regalis</i> )		G4	1 count
	Mountain Plover ( <i>Charadrius montanus</i> )		G3	12 count
Mammals	Pronghorn ( <i>Antilocapra americana</i> )		G5	6,179 ha
	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )		G4	28 ha



### 33 Cooper Ridge

Size (hectares): 26,000 State(s): Wyoming  
 Size (acres): 64,247 % Public: 96%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		5 ha
	Inter-Mountain Basins Cliff and Canyon	Small		101 ha
	Inter-Mountain Basins Shale Badland	Small		717 ha
	Rocky Mountain Aspen Forest and Woodland	Small		20 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		2,908	ha	
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		3,225	ha	
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		15,614	ha	
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		496	ha	
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		219	ha	
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		1,761	ha	
	Northwestern Great Plains Mixedgrass Prairie	Matrix		49	ha	
	Western Great Plains Open Freshwater Depression Wetland	Small		16	ha	
	Western Great Plains Saline Depression Wetland	Small		42	ha	
	Riparian	Linear		445	ha	
	Inter-Mountain Basins Greasewood Flat	Large		372	ha	
	Bird	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	20,368	ha
	Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	12,559	ha
		Pronghorn ( <i>Antilocapra americana</i> )		G5	15,774	ha
		Pygmy Rabbit ( <i>Brachylagus idahoensis</i> )		G4	1	count



### 34 Ragan

Size (hectares): 17,000 State(s): Wyoming  
 Size (acres): 42,008 % Public: 36%

Section(s): 1 2 3 4 5  
 - - x x -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		2 ha
	Inter-Mountain Basins Cliff and Canyon	Small		54 ha
	Inter-Mountain Basins Shale Badland	Small		6 ha
	Rocky Mountain Aspen Forest and Woodland	Small		95 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		1,705 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		11 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		11,446 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		43 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		26 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		2,211 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		18 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		33 ha
	Western Great Plains Saline Depression Wetland	Small		101 ha
	Riparian	Linear		541 ha
	Inter-Mountain Basins Greasewood Flat	Large		215 ha
	Western Great Plains Floodplain	Linear		44 ha
	Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )		G5
Mammals	Elk ( <i>Cervus canadensis</i> )		G5	1,960 ha
	Idaho Pocket Gopher ( <i>Thomomys idahoensis</i> )		G4	16,937 ha
	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	12,853 ha
	Pronghorn ( <i>Antilocapra americana</i> )		G5	3,285 ha
Plants	Prostrate Bladderpod ( <i>Lesquerella prostrata</i> )		G2G3	20 count
	Tufted Twinpod ( <i>Physaria condensata</i> )		G2	2 count
	Dorns Twinpod ( <i>Physaria dornii</i> )		G1	3 count

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries



**35 Bone Draw**

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 48%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		2 ha
	Inter-Mountain Basins Cliff and Canyon	Small		35 ha
	Inter-Mountain Basins Shale Badland	Small		97 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		131 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		685 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		20 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		25 ha
	Western Great Plains Saline Depression Wetland	Small		1 ha
	Riparian	Linear		0 ha
	Inter-Mountain Basins Greasewood Flat	Large		7 ha
Bird	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	792 ha
Mammals	Elk ( <i>Cervus canadensis</i> )		G5	935 ha
	Wyoming Pocket Gopher ( <i>Thomomys clusius</i> )		G2	1 count



**36 Blacks Fork**

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 25%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		15 ha
	Inter-Mountain Basins Cliff and Canyon	Small		1 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		7 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		43 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		203 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		6 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		1 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		7 ha
	Western Great Plains Saline Depression Wetland	Small		18 ha
	Riparian	Linear		69 ha
	Inter-Mountain Basins Greasewood Flat	Large		103 ha
	Western Great Plains Floodplain	Linear		1 ha
Mammals	Idaho Pocket Gopher ( <i>Thomomys idahoensis</i> )		G4	496 ha
Plants	Treleases Racemose Milkvetch ( <i>Astragalus racemosus</i> var. <i>treleasei</i> )		G5T2	2 count

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries



**37 Bamforth Lake**

Size (hectares): 2,000 State(s): Wyoming  
 Size (acres): 4,942 % Public: 50%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		96 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		256 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		155 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		534 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		187 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		2 ha
	Western Great Plains Saline Depression Wetland	Small		556 ha
	Riparian	Linear		10 ha
	Inter-Mountain Basins Greasewood Flat	Large		16 ha
	Western Great Plains Floodplain	Linear		0 ha
Mammals	Pronghorn ( <i>Antilocapra americana</i> )		G5	1,645 ha
	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )		G4	22 ha
	Wyoming Ground Squirrel ( <i>Spermophilus elegans</i> )		G5	1 count



**38 Laramie River**

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 9%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		3 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		46 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		0 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		33 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		563 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		2 ha
	Western Great Plains Saline Depression Wetland	Small		193 ha
	Inter-Mountain Basins Greasewood Flat	Large		119 ha
	Western Great Plains Floodplain	Linear		10 ha
	Mammals	Wyoming Ground Squirrel ( <i>Spermophilus elegans</i> )		G5



**39 Wild Rose Draw**

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 56%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		4 ha
	Inter-Mountain Basins Cliff and Canyon	Small		5 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	Inter-Mountain Basins Shale Badland	Small	8	ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix	296	ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix	554	ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large	0	ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large	102	ha
	Western Great Plains Saline Depression Wetland	Small	4	ha
	Riparian	Linear	21	ha
	Inter-Mountain Basins Greasewood Flat	Large	5	ha
Mammals	Wyoming Pocket Gopher ( <i>Thomomys clusius</i> )		G2	1 count



### 40 Quaking Aspen Mountain

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 37%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		9 ha
	Inter-Mountain Basins Shale Badland	Small		33 ha
	Rocky Mountain Aspen Forest and Woodland	Small		1 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		1 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		581 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		149 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		12 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		135 ha
	Rocky Mountain Lower Montane-Foothill Shrubland	Small		33 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		7 ha
	Rocky Mountain Alpine-Montane Wet Meadow	Small		11 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		1 ha
	Western Great Plains Saline Depression Wetland	Small		17 ha
	Riparian	Linear		9 ha
Inter-Mountain Basins Greasewood Flat	Large		7 ha	
Plants	Wyoming Tansymustard ( <i>Descurainia torulosa</i> )		G1	2 count



### 41 Watt Lake

Size (hectares): 2,000 State(s): Wyoming  
 Size (acres): 4,942 % Public: 4%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		16 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		183 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		1,245 ha
	Western Great Plains Saline Depression Wetland	Small		36 ha
	Inter-Mountain Basins Greasewood Flat	Large		80 ha
	Western Great Plains Floodplain	Linear		1 ha
Mammals	Wyoming Ground Squirrel ( <i>Spermophilus elegans</i> )		G5	2 count

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.



Appendix H. Conservation Area Summaries



**42 Green River**

Size (hectares): 3,000 State(s): Wyoming  
 Size (acres): 7,413 % Public: 51%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		6 ha
	Inter-Mountain Basins Cliff and Canyon	Small		436 ha
	Inter-Mountain Basins Shale Badland	Small		623 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		36 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		14 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		986 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		471 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		7 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		6 ha
	Western Great Plains Saline Depression Wetland	Small		77 ha
	Riparian	Linear		15 ha
	Inter-Mountain Basins Greasewood Flat	Large		194 ha
	Western Great Plains Floodplain	Linear		47 ha
Plants	Desert Glandular Phacelia (Phacelia glandulosa var. deserta)		G4T1T2	2 count
	Green River Greenthread (Thelesperma caespitosum)		G1	31 count



**43 Wilkins Peak**

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 54%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		5 ha
	Inter-Mountain Basins Cliff and Canyon	Small		80 ha
	Inter-Mountain Basins Shale Badland	Small		77 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		170 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		24 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		607 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		2 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		15 ha
	Riparian	Linear		5 ha
Plants	Desert Glandular Phacelia (Phacelia glandulosa var. deserta)		G4T1T2	2 count

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries



**44 Coal Gulch**

Size (hectares): 2,000 State(s): Wyoming  
 Size (acres): 4,942 % Public: 49%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		7 ha
	Inter-Mountain Basins Cliff and Canyon	Small		1 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		1 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		765 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		1,077 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		2 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		114 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		0 ha
	Western Great Plains Saline Depression Wetland	Small		2 ha
	Riparian	Linear		29 ha
Bird	Mountain Plover ( <i>Charadrius montanus</i> )		G3	14 count
Mammals	Pygmy Rabbit ( <i>Brachylagus idahoensis</i> )		G4	6 count



**45 Flaming Gorge**

Size (hectares): 220,000 State(s): Utah, Wyoming  
 Size (acres): 543,632 % Public: 80%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		4,301 ha
	Inter-Mountain Basins Cliff and Canyon	Small		5,771 ha
	Colorado Plateau Mixed Bedrock Canyon and Tableland	Small		430 ha
	Inter-Mountain Basins Shale Badland	Small		4,970 ha
	Rocky Mountain Alpine Bedrock and Scree	Small		6 ha
	Rocky Mountain Aspen Forest and Woodland	Small		341 ha
	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		27 ha
	Colorado Plateau Pinyon-Juniper Woodland Shrubland and Savanna	Matrix		84 ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		1 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		9,812 ha
	Rocky Mountain Lodgepole Pine Forest	Small		58 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		15,551 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		97,113 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		6,505 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		20,341 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		21,083 ha
	Rocky Mountain Lower Montane-Foothill Shrubland	Small		502 ha
	Rocky Mountain Gambel Oak-Mixed Montane Shrubland	Small		47 ha
	Inter-Mountain Basins Semi-Desert Grassland	Large		37 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		1,456 ha
Rocky Mountain Alpine-Montane Wet Meadow	Small		4 ha	

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	Western Great Plains Open Freshwater Depression Wetland	Small	427	ha
	Western Great Plains Saline Depression Wetland	Small	2,760	ha
	Riparian	Linear	2,624	ha
	Inter-Mountain Basins Greasewood Flat	Large	2,798	ha
	Western Great Plains Floodplain	Linear	172	ha
Amphibian	Northern Leopard Frog ( <i>Rana pipiens</i> )	G5	2	count
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )	G5	38	count
	Ferruginous Hawk ( <i>Buteo regalis</i> )	G4	4	count
	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )	G4	88,376	ha
	Mountain Plover ( <i>Charadrius montanus</i> )	G3	1	count
Mammals	Elk ( <i>Cervus canadensis</i> )	G5	29,379	ha
	Idaho Pocket Gopher ( <i>Thomomys idahoensis</i> )	G4	56,313	ha
	Mule Deer ( <i>Odocoileus hemionus</i> )	G5	59,713	ha
	Pronghorn ( <i>Antilocapra americana</i> )	G5	106,372	ha
	Pygmy Rabbit ( <i>Brachylagus idahoensis</i> )	G4	4	count
	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )	G4	1,208	ha
Plants	Precocious Milkvetch ( <i>Astragalus proimanthus</i> )	G1	15	count
	Crandalls Rockcress ( <i>Boechera crandallii</i> )	G2	4	count
	Stemless Beardtongue ( <i>Penstemon acaulis</i> var. <i>acaulis</i> )	G3T2	45	count
	Desert Glandular Phacelia ( <i>Phacelia glandulosa</i> var. <i>deserta</i> )	G4T1T2	2	count
	Uinta Greenthread ( <i>Thelesperma pubescens</i> )	G1	41	count
	Cedar Mountain Easter Daisy ( <i>Townsendia microcephala</i> )	G1	21	count



### 46 Telephone Canyon

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 3%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		0 ha
	Inter-Mountain Basins Cliff and Canyon	Small		56 ha
	Inter-Mountain Basins Shale Badland	Small		83 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		2 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		135 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		37 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		0 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		3 ha
	Western Great Plains Saline Depression Wetland	Small		14 ha
	Riparian	Linear		7 ha
	Inter-Mountain Basins Greasewood Flat	Large		60 ha
Western Great Plains Floodplain	Linear		14 ha	
Mammals	Pygmy Rabbit ( <i>Brachylagus idahoensis</i> )		G4	1 count
Plants	Green River Greenthread ( <i>Thelesperma caespitosum</i> )		G1	2 count

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries



**47 Mexican Flats**

Size (hectares): 73,000 State(s): Wyoming  
 Size (acres): 180,387 % Public: 74%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		1,726 ha
	Inter-Mountain Basins Cliff and Canyon	Small		195 ha
	Inter-Mountain Basins Shale Badland	Small		147 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		196 ha
	Rocky Mountain Ponderosa Pine Woodland and Savanna	Small		5 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		22,441 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		26,517 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		74 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		15,656 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		1,773 ha
	Rocky Mountain Lower Montane-Foothill Shrubland	Small		0 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		60 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		67 ha
	Western Great Plains Saline Depression Wetland	Small		561 ha
	Riparian	Linear		1,091 ha
Terr Ecosys	Inter-Mountain Basins Greasewood Flat	Large		1,907 ha
	Western Great Plains Floodplain	Linear		0 ha
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )		G5	5 count
	Ferruginous Hawk ( <i>Buteo regalis</i> )		G4	15 count
	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	2,316 ha
	Mountain Plover ( <i>Charadrius montanus</i> )		G3	311 count
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	8,779 ha
	Pronghorn ( <i>Antilocapra americana</i> )		G5	26,058 ha
	Pygmy Rabbit ( <i>Brachylagus idahoensis</i> )		G4	48 count
	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )		G4	1,152 ha
Plants	Desert Glandular Phacelia ( <i>Phacelia glandulosa</i> var. <i>deserta</i> )		G4T1T2	2 count



**48 White Mountain**

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 52%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		3 ha
	Inter-Mountain Basins Cliff and Canyon	Small		269 ha
	Inter-Mountain Basins Shale Badland	Small		83 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		27 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		29 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		301 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		141 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		27	ha
	Rocky Mountain Lower Montane-Foothill Shrubland	Small		53	ha
	Western Great Plains Saline Depression Wetland	Small		0	ha
	Riparian	Linear		0	ha
	Inter-Mountain Basins Greasewood Flat	Large		10	ha
Mammals	Pronghorn ( <i>Antilocapra americana</i> )		G5	863	ha
Plants	Desert Glandular Phacelia ( <i>Phacelia glandulosa</i> var. <i>deserta</i> )		G4T1T2	2	count



### 49 Delaney Rim

Size (hectares): 2,000 State(s): Wyoming  
 Size (acres): 4,942 % Public: 43%

Section(s): 1 2 3 4 5  
 - - X - -

Tax Group	Target Name	Patch Type	G-rank	Amount	
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		8	ha
	Inter-Mountain Basins Shale Badland	Small		12	ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		705	ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		1,069	ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		132	ha
	Riparian	Linear		68	ha
	Inter-Mountain Basins Greasewood Flat	Large		3	ha
Mammals	Pygmy Rabbit ( <i>Brachylagus idahoensis</i> )		G4	2	count
	Wyoming Pocket Gopher ( <i>Thomomys clusius</i> )		G2	4	count



### 50 Lookout Mountain Foothill

Size (hectares): 3,000 State(s): Wyoming  
 Size (acres): 7,413 % Public: 8%

Section(s): 1 2 3 4 5  
 - X - - -

Tax Group	Target Name	Patch Type	G-rank	Amount	
Terr Ecosys	Rocky Mountain Aspen Forest and Woodland	Small		4	ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		1	ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		186	ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		74	ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		695	ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		1,650	ha
	Western Great Plains Saline Depression Wetland	Small		30	ha
	Riparian	Linear		8	ha
	Inter-Mountain Basins Greasewood Flat	Large		129	ha
	Western Great Plains Floodplain	Linear		134	ha
Mammals	Elk ( <i>Cervus canadensis</i> )		G5	1,268	ha
	Pronghorn ( <i>Antilocapra americana</i> )		G5	1,533	ha
	Swift Fox ( <i>Vulpes velox</i> )		G3	3	count
	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )		G4	28	ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.



Appendix H. Conservation Area Summaries



**51 Bigelow Bench**

Size (hectares): 11,000 State(s): Wyoming  
 Size (acres): 27,182 % Public: 47%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		1,169 ha
	Inter-Mountain Basins Cliff and Canyon	Small		54 ha
	Inter-Mountain Basins Shale Badland	Small		85 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		793 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		5,346 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		2,220 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		1 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		24 ha
	Western Great Plains Saline Depression Wetland	Small		224 ha
	Riparian	Linear		227 ha
	Inter-Mountain Basins Greasewood Flat	Large		844 ha
	Western Great Plains Floodplain	Linear		11 ha
Bird	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	6,825 ha
Mammals	Pronghorn ( <i>Antilocapra americana</i> )		G5	7,434 ha



**52 Cooper Lake**

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 0%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		0 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		39 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		2 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		23 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		303 ha
	Western Great Plains Saline Depression Wetland	Small		41 ha
	Inter-Mountain Basins Greasewood Flat	Large		590 ha
	Western Great Plains Floodplain	Linear		0 ha
Bird	Mountain Plover ( <i>Charadrius montanus</i> )		G3	1 count
Mammals	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )		G4	24 ha
	Wyoming Ground Squirrel ( <i>Spermophilus elegans</i> )		G5	1 count

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries



**53 Teton Reservoir**

Size (hectares): 2,000 State(s): Wyoming  
 Size (acres): 4,942 % Public: 50%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		0 ha
	Inter-Mountain Basins Shale Badland	Small		0 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		901 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		568 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		94 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		257 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		3 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		3 ha
	Western Great Plains Saline Depression Wetland	Small		26 ha
	Riparian	Linear		21 ha
	Inter-Mountain Basins Greasewood Flat	Large		57 ha
Mammals	Wyoming Pocket Gopher ( <i>Thomomys clusius</i> )		G2	5 count



**54 Yampa River - Lower**

Size (hectares): 804,000 State(s): Colorado, Wyoming  
 Size (acres): 1,986,727 % Public: 68%

Section(s): 1 2 3 4 5  
 - x x - x

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		3,358 ha
	Inter-Mountain Basins Cliff and Canyon	Small		3,586 ha
	Colorado Plateau Mixed Bedrock Canyon and Tableland	Small		1,010 ha
	Inter-Mountain Basins Shale Badland	Small		5,837 ha
	Rocky Mountain Aspen Forest and Woodland	Small		3,869 ha
	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		41 ha
	Colorado Plateau Pinyon-Juniper Woodland Shrubland and Savanna	Matrix		49,968 ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		46 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		3,278 ha
	Rocky Mountain Lodgepole Pine Forest	Small		37 ha
	Rocky Mountain Ponderosa Pine Woodland and Savanna	Small		34 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		35,292 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		443,431 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		41,479 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		42,594 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		42,600 ha
	Rocky Mountain Lower Montane-Foothill Shrubland	Small		2,073 ha
	Rocky Mountain Gambel Oak-Mixed Montane Shrubland	Small		282 ha
	Southern Rocky Mountain Montane-Subalpine Grassland	Small		84 ha
	Inter-Mountain Basins Semi-Desert Grassland	Large		32,258 ha
Northwestern Great Plains Mixedgrass Prairie	Matrix		5,518 ha	

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	North American Arid West Emergent Marsh	Small	34	ha
	Rocky Mountain Alpine-Montane Wet Meadow	Small	89	ha
	Western Great Plains Open Freshwater Depression Wetland	Small	190	ha
	Western Great Plains Saline Depression Wetland	Small	2,458	ha
	Riparian	Linear	3,066	ha
	Inter-Mountain Basins Greasewood Flat	Large	8,810	ha
	Western Great Plains Floodplain	Linear	46	ha
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )	G5	48	count
	Columbian Sharp-tailed Grouse ( <i>Tympanuchus phasianellus columbianus</i> )	G4T3	18,431	ha
	Ferruginous Hawk ( <i>Buteo regalis</i> )	G4	181	count
	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )	G4	503,764	ha
	Mountain Plover ( <i>Charadrius montanus</i> )	G3	1	count
Mammals	Black-footed Ferret ( <i>Mustela nigripes</i> )	G1	20,933	ha
	Elk ( <i>Cervus canadensis</i> )	G5	425,939	ha
	Mule Deer ( <i>Odocoileus hemionus</i> )	G5	306,463	ha
	Pronghorn ( <i>Antilocapra americana</i> )	G5	190,074	ha
	Pygmy Rabbit ( <i>Brachylagus idahoensis</i> )	G4	3	count
	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )	G4	51,844	ha
	Wyoming Ground Squirrel ( <i>Spermophilus elegans</i> )	G5	1	count
Plants	Gibbens Beardtongue ( <i>Penstemon gibbensii</i> )	G1G2	35	count
	Desert Glandular Phacelia ( <i>Phacelia glandulosa</i> var. <i>deserta</i> )	G4T1T2	4	count



### 55 Laramie Plains

Size (hectares): 12,000 State(s): Wyoming  
 Size (acres): 29,653 % Public: 11%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		2 ha
	Rocky Mountain Ponderosa Pine Woodland and Savanna	Small		0 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		25 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		179 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		10 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		1,213 ha
	Rocky Mountain Lower Montane-Foothill Shrubland	Small		2 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		9,098 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		1 ha
	Western Great Plains Saline Depression Wetland	Small		105 ha
	Riparian	Linear		1 ha
	Inter-Mountain Basins Greasewood Flat	Large		81 ha
	Western Great Plains Floodplain	Linear		20 ha
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )		G5	1 count
	Ferruginous Hawk ( <i>Buteo regalis</i> )		G4	3 count
	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	10,821 ha
	Mountain Plover ( <i>Charadrius montanus</i> )		G3	4 count
Mammals	Pronghorn ( <i>Antilocapra americana</i> )		G5	5,293 ha
	Swift Fox ( <i>Vulpes velox</i> )		G3	4 count
	Wyoming Ground Squirrel ( <i>Spermophilus elegans</i> )		G5	5 count

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries



**56 Red Wash Draw**

Size (hectares): 2,000 State(s): Wyoming  
 Size (acres): 4,942 % Public: 47%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		423 ha
	Inter-Mountain Basins Cliff and Canyon	Small		1 ha
	Inter-Mountain Basins Shale Badland	Small		0 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		463 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		949 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		17 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		93 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		0 ha
	Riparian	Linear		47 ha
	Inter-Mountain Basins Greasewood Flat	Large		3 ha
Mammals	Pronghorn ( <i>Antilocapra americana</i> )		G5	1,954 ha
	Pygmy Rabbit ( <i>Brachylagus idahoensis</i> )		G4	18 count



**57 Pierce Reservoir**

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 2%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		1 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		1 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		411 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		0 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		66 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		141 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		2 ha
	Western Great Plains Saline Depression Wetland	Small		14 ha
	Riparian	Linear		5 ha
	Inter-Mountain Basins Greasewood Flat	Large		6 ha
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )		G5	9 count
Mammals	Wyoming Ground Squirrel ( <i>Spermophilus elegans</i> )		G5	1 count



**58 Hams Fork**

Size (hectares): 16,000 State(s): Wyoming  
 Size (acres): 39,537 % Public: 43%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		1,068 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small	52	ha
	Inter-Mountain Basins Shale Badland	Small	70	ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix	1,278	ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix	9,429	ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large	2,285	ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large	0	ha
	Western Great Plains Open Freshwater Depression Wetland	Small	11	ha
	Western Great Plains Saline Depression Wetland	Small	161	ha
	Riparian	Linear	247	ha
	Inter-Mountain Basins Greasewood Flat	Large	240	ha
Bird	Western Great Plains Floodplain	Linear	2	ha
	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )	G5	1	count
	Ferruginous Hawk ( <i>Buteo regalis</i> )	G4	1	count
Mammals	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )	G4	1,564	ha
	Pronghorn ( <i>Antilocapra americana</i> )	G5	14,941	ha
	Pygmy Rabbit ( <i>Brachylagus idahoensis</i> )	G4	7	count
	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )	G4	155	ha



### 59 North Baxter Basin

Size (hectares): 11,000 State(s): Wyoming  
 Size (acres): 27,182 % Public: 42%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		10 ha
	Inter-Mountain Basins Cliff and Canyon	Small		385 ha
	Inter-Mountain Basins Shale Badland	Small		192 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		6 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		5,290 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		1,989 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		13 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		2,611 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		11 ha
	Western Great Plains Saline Depression Wetland	Small		53 ha
Bird	Riparian	Linear		321 ha
	Inter-Mountain Basins Greasewood Flat	Large		118 ha
Bird	Mountain Plover ( <i>Charadrius montanus</i> )		G3	1 count
Mammals	Pronghorn ( <i>Antilocapra americana</i> )		G5	11,000 ha



### 60 Cannonball Joe Cut

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 32%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		108 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		0 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.



## Appendix H. Conservation Area Summaries

Terr Ecosys	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large	95	ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix	782	ha
	Western Great Plains Saline Depression Wetland	Small	12	ha
	Inter-Mountain Basins Greasewood Flat	Large	1	ha
Mammals	Wyoming Ground Squirrel ( <i>Spermophilus elegans</i> )		G5	1 count



### 61 Sinclair

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 15%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		1 ha
	Inter-Mountain Basins Shale Badland	Small		1 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		1 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		488 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		234 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		34 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		12 ha
	Western Great Plains Saline Depression Wetland	Small		63 ha
	Riparian	Linear		11 ha
	Inter-Mountain Basins Greasewood Flat	Large		30 ha
Mammals	Pronghorn ( <i>Antilocapra americana</i> )		G5	692 ha
	Wyoming Ground Squirrel ( <i>Spermophilus elegans</i> )		G5	1 count



### 62 Opal

Size (hectares): 2,000 State(s): Wyoming  
 Size (acres): 4,942 % Public: 35%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		2 ha
	Inter-Mountain Basins Cliff and Canyon	Small		16 ha
	Inter-Mountain Basins Shale Badland	Small		44 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		344 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		899 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		286 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		5 ha
	Western Great Plains Saline Depression Wetland	Small		53 ha
	Riparian	Linear		18 ha
	Inter-Mountain Basins Greasewood Flat	Large		44 ha
	Western Great Plains Floodplain	Linear		1 ha
Bird	Mountain Plover ( <i>Charadrius montanus</i> )		G3	1 count
Mammals	Idaho Pocket Gopher ( <i>Thomomys idahoensis</i> )		G4	284 ha
	Pronghorn ( <i>Antilocapra americana</i> )		G5	517 ha
	Pygmy Rabbit ( <i>Brachylagus idahoensis</i> )		G4	1 count
Plants	Large-fruited Bladderpod ( <i>Lesquerella macrocarpa</i> )		G2	8 count

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries

Plants Desert Glandular Phacelia (*Phacelia glandulosa* var. *deserta*) G4T1T2 2 count



**63 Sand Hills**

Size (hectares): 3,000 State(s): Wyoming  
 Size (acres): 7,413 % Public: 37%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Shale Badland	Small		1 ha
	Rocky Mountain Ponderosa Pine Woodland and Savanna	Small		1 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		21 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		2,238 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		2 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		446 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		14 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		11 ha
	Western Great Plains Saline Depression Wetland	Small		8 ha
	Riparian	Linear		13 ha
	Inter-Mountain Basins Greasewood Flat	Large		207 ha
Bird	Ferruginous Hawk ( <i>Buteo regalis</i> )		G4	1 count
	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	3,000 ha
Mammals	Wyoming Ground Squirrel ( <i>Spermophilus elegans</i> )		G5	3 count



**64 Rich Spring**

Size (hectares): 1,000 State(s): Utah  
 Size (acres): 2,471 % Public: 99%

Section(s): 1 2 3 4 5  
 - - - x -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		0 ha
	Inter-Mountain Basins Shale Badland	Small		1 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		0 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		982 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		14 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		0 ha
	Riparian	Linear		1 ha
Mammals	Idaho Pocket Gopher ( <i>Thomomys idahoensis</i> )		G4	998 ha
	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	948 ha
Plants	Prostrate Bladderpod ( <i>Lesquerella prostrata</i> )		G2G3	1 count

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries



**65 Long Canyon**

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 41%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Shale Badland	Small		101 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		4 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		856 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		19 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		11 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		0 ha
	Riparian	Linear		14 ha
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	1,000 ha
	Wyoming Ground Squirrel ( <i>Spermophilus elegans</i> )		G5	1 count



**66 Twelvemile Gulch**

Size (hectares): 9,000 State(s): Wyoming  
 Size (acres): 22,239 % Public: 50%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		1 ha
	Inter-Mountain Basins Shale Badland	Small		3 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		32 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		735 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		7,798 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		8 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		1 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		0 ha
	Riparian	Linear		426 ha
Bird	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	9,000 ha
Mammals	Elk ( <i>Cervus canadensis</i> )		G5	6,306 ha
	Pronghorn ( <i>Antilocapra americana</i> )		G5	1,189 ha



**67 Monte Cristo**

Size (hectares): 43,000 State(s): Utah  
 Size (acres): 106,255 % Public: 72%

Section(s): 1 2 3 4 5  
 - - - x -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		2 ha
	Inter-Mountain Basins Cliff and Canyon	Small		149 ha
	Inter-Mountain Basins Shale Badland	Small		30 ha
	Rocky Mountain Aspen Forest and Woodland	Small		1,778 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	Rocky Mountain Bigtooth Maple Ravine Woodland	Linear	0	ha
	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear	369	ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small	230	ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large	2,495	ha
	Rocky Mountain Lodgepole Pine Forest	Small	473	ha
	Rocky Mountain Subalpine Dry-Mesic Spruce-Firt Forest and Woodland	Small	172	ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix	1	ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix	26,614	ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large	4,645	ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large	36	ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large	2,150	ha
	Rocky Mountain Lower Montane-Foothill Shrubland	Small	34	ha
	Southern Rocky Mountain Montane-Subalpine Grassland	Small	40	ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix	62	ha
	Rocky Mountain Alpine-Montane Wet Meadow	Small	7	ha
	Western Great Plains Saline Depression Wetland	Small	114	ha
	Riparian	Linear	2,272	ha
	Inter-Mountain Basins Greasewood Flat	Large	0	ha
Bird	Ferruginous Hawk ( <i>Buteo regalis</i> )	G4	1	count
Mammals	Elk ( <i>Cervus canadensis</i> )	G5	1,990	ha
	Idaho Pocket Gopher ( <i>Thomomys idahoensis</i> )	G4	36,583	ha
	Mule Deer ( <i>Odocoileus hemionus</i> )	G5	22,594	ha
	Pronghorn ( <i>Antilocapra americana</i> )	G5	9,841	ha
	Pygmy Rabbit ( <i>Brachylagus idahoensis</i> )	G4	1	count
Plants	Entire-leaved Peppergrass ( <i>Lepidium integrifolium</i> var. <i>integrifolium</i> )	G2G3T2	1	count
	Prostrate Bladderpod ( <i>Lesquerella prostrata</i> )	G2G3	2	count



### 68 West Bluegrass Creek

Size (hectares): 2,000 State(s): Wyoming  
 Size (acres): 4,942 % Public: 45%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		1,332 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		101 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		17 ha
	Riparian	Linear		0 ha
	Inter-Mountain Basins Greasewood Flat	Large		35 ha
Bird	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	1,493 ha
Plants	Laramie False Sagebrush ( <i>Sphaeromeria simplex</i> )		G2	8 count

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries



**69 North Fork Alkali Creek**

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 100%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		6 ha
	Inter-Mountain Basins Cliff and Canyon	Small		7 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		299 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		67 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		2 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		537 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		26 ha
	Western Great Plains Saline Depression Wetland	Small		6 ha
	Riparian	Linear		15 ha
	Inter-Mountain Basins Greasewood Flat	Large		16 ha
Mammals	Idaho Pocket Gopher ( <i>Thomomys idahoensis</i> )		G4	998 ha
	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )		G4	28 ha
Plants	Tufted Twinpod ( <i>Physaria condensata</i> )		G2	4 count



**70 Wheatland Reservoir**

Size (hectares): 6,000 State(s): Wyoming  
 Size (acres): 14,826 % Public: 22%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		1 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		206 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		180 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		0 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		69 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		202 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		4,004 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		1 ha
	Western Great Plains Saline Depression Wetland	Small		684 ha
	Riparian	Linear		0 ha
	Inter-Mountain Basins Greasewood Flat	Large		134 ha
Bird	Western Great Plains Floodplain	Linear		3 ha
	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )		G5	5 count
	Ferruginous Hawk ( <i>Buteo regalis</i> )		G4	16 count
	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	180 ha
Mammals	Mountain Plover ( <i>Charadrius montanus</i> )		G3	4 count
	Swift Fox ( <i>Vulpes velox</i> )		G3	10 count
	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )		G4	3 ha
	Wyoming Ground Squirrel ( <i>Spermophilus elegans</i> )		G5	2 count

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.



Appendix H. Conservation Area Summaries



**71 Antelope Hills Dunes**

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 93%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		748 ha
	Inter-Mountain Basins Cliff and Canyon	Small		32 ha
	Inter-Mountain Basins Shale Badland	Small		1 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		6 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		146 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		4 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		6 ha
	Inter-Mountain Basins Interdunal Swale Wetland	Small		23 ha
	Rocky Mountain Alpine-Montane Wet Meadow	Small		26 ha
	Western Great Plains Saline Depression Wetland	Small		2 ha
	Riparian	Linear		7 ha
	Inter-Mountain Basins Greasewood Flat	Large		3 ha
Mammals	Elk ( <i>Cervus canadensis</i> )		G5	483 ha
	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	195 ha
Plants	Dune Wildrye ( <i>Elymus simplex</i> var. <i>luxurians</i> )		G4T1	2 count



**72 Box Canyon**

Size (hectares): 15,000 State(s): Wyoming  
 Size (acres): 37,066 % Public: 41%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		4 ha
	Inter-Mountain Basins Shale Badland	Small		0 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		78 ha
	Rocky Mountain Ponderosa Pine Woodland and Savanna	Small		19 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		1 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		5,483 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		33 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		3,604 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		2,702 ha
	Western Great Plains Saline Depression Wetland	Small		5 ha
	Riparian	Linear		38 ha
	Inter-Mountain Basins Greasewood Flat	Large		416 ha
	Western Great Plains Floodplain	Linear		13 ha
Bird	Ferruginous Hawk ( <i>Buteo regalis</i> )		G4	2 count
	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	7,616 ha
	Mountain Plover ( <i>Charadrius montanus</i> )		G3	2 count
Mammals	Swift Fox ( <i>Vulpes velox</i> )		G3	1 count
Plants	Laramie False Sagebrush ( <i>Sphaeromeria simplex</i> )		G2	95 count

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries



**73 Chain Lakes Flat**

Size (hectares): 39,000 State(s): Wyoming  
 Size (acres): 96,371 % Public: 91%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		1,098 ha
	Inter-Mountain Basins Cliff and Canyon	Small		14 ha
	Inter-Mountain Basins Shale Badland	Small		12 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		1 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		12,815 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		18,926 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		1,920 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		1 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		0 ha
	Western Great Plains Saline Depression Wetland	Small		1,636 ha
	Riparian	Linear		328 ha
Bird	Inter-Mountain Basins Greasewood Flat	Large		2,153 ha
	Ferruginous Hawk ( <i>Buteo regalis</i> )		G4	13 count
	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	18,581 ha
Mammals	Mountain Plover ( <i>Charadrius montanus</i> )		G3	6 count
	Pygmy Rabbit ( <i>Brachylagus idahoensis</i> )		G4	1 count
Plants	Swift Fox ( <i>Vulpes velox</i> )		G3	1 count
	Mesic Milkvetch ( <i>Astragalus diversifolius</i> var <i>diversifolius</i> )		G2	18 count



**74 Upper Bear River**

Size (hectares): 277,000 State(s): Idaho, Utah, Wyoming  
 Size (acres): 684,482 % Public: 63%

Section(s): 1 2 3 4 5  
 - - - x -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		90 ha
	Inter-Mountain Basins Cliff and Canyon	Small		1,976 ha
	Inter-Mountain Basins Shale Badland	Small		308 ha
	Rocky Mountain Aspen Forest and Woodland	Small		7,705 ha
	Rocky Mountain Bigtooth Maple Ravine Woodland	Linear		33 ha
	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		487 ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		86 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		9,695 ha
	Rocky Mountain Lodgepole Pine Forest	Small		135 ha
	Rocky Mountain Subalpine Dry-Mesic Spruce-Firt Forest and Woodland	Small		54 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		1,828 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		132,607 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		47,117 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		3,112 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		30,595 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	Rocky Mountain Lower Montane-Foothill Shrubland	Small	30	ha	
	Rocky Mountain Gambel Oak-Mixed Montane Shrubland	Small	52	ha	
	Northern Rocky Mountain Lower Montane Foothill and Valley Grassland	Small	14	ha	
	Southern Rocky Mountain Montane-Subalpine Grassland	Small	25	ha	
	Northwestern Great Plains Mixedgrass Prairie	Matrix	568	ha	
	North American Arid West Emergent Marsh	Small	508	ha	
	Rocky Mountain Alpine-Montane Wet Meadow	Small	77	ha	
	Western Great Plains Open Freshwater Depression Wetland	Small	410	ha	
	Western Great Plains Saline Depression Wetland	Small	4,032	ha	
	Riparian	Linear	13,546	ha	
	Inter-Mountain Basins Greasewood Flat	Large	4,860	ha	
	Western Great Plains Floodplain	Linear	532	ha	
	Amphibian	Northern Leopard Frog ( <i>Rana pipiens</i> )	G5	13	count
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )	G5	73	count	
	Ferruginous Hawk ( <i>Buteo regalis</i> )	G4	6	count	
Mammals	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )	G4	151,899	ha	
	Elk ( <i>Cervus canadensis</i> )	G5	57,211	ha	
	Idaho Pocket Gopher ( <i>Thomomys idahoensis</i> )	G4	255,275	ha	
	Mule Deer ( <i>Odocoileus hemionus</i> )	G5	102,151	ha	
	Pronghorn ( <i>Antilocapra americana</i> )	G5	33,743	ha	
	Pygmy Rabbit ( <i>Brachylagus idahoensis</i> )	G4	201	count	
	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )	G4	163	ha	
	Wyoming Ground Squirrel ( <i>Spermophilus elegans</i> )	G5	1	count	
	Plants	Winwards Goldenweed ( <i>Ericameria discoidea</i> var. <i>winwardii</i> )	GNRT1	3	count
		Entire-leaved Peppergrass ( <i>Lepidium integrifolium</i> var. <i>integrifolium</i> )	G2G3T2	38	count
Prostrate Bladderpod ( <i>Lesquerella prostrata</i> )		G2G3	36	count	
Beaver Rim Phlox ( <i>Phlox pungens</i> )		G2	9	count	
Tufted Twinpod ( <i>Physaria condensata</i> )		G2	45	count	
	Dorns Twinpod ( <i>Physaria dornii</i> )	G1	102	count	



### 75 Eightmile Creek

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 100%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		119 ha
	Inter-Mountain Basins Shale Badland	Small		56 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		67 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		675 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		11 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		1 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		1 ha
	Western Great Plains Saline Depression Wetland	Small		16 ha
	Riparian	Linear		44 ha
		Inter-Mountain Basins Greasewood Flat	Large	
	Western Great Plains Floodplain	Linear		2 ha
Bird	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	826 ha
Plants	Beaver Rim Phlox ( <i>Phlox pungens</i> )		G2	2 count

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries



**76 North Laramie River**

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 35%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Rocky Mountain Ponderosa Pine Woodland and Savanna	Small		7 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		4 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		1 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		295 ha
	Rocky Mountain Lower Montane-Foothill Shrubland	Small		2 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		16 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		0 ha
	Western Great Plains Saline Depression Wetland	Small		78 ha
	Riparian	Linear		3 ha
	Inter-Mountain Basins Greasewood Flat	Large		12 ha
Western Great Plains Floodplain	Linear		5 ha	
Bird	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	373 ha
Plants	Laramie False Sagebrush ( <i>Sphaeromeria simplex</i> )		G2	2 count



**77 Fontelle Reservoir**

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 100%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		1 ha
	Inter-Mountain Basins Cliff and Canyon	Small		69 ha
	Inter-Mountain Basins Shale Badland	Small		116 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		240 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		289 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		220 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		0 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		0 ha
	Western Great Plains Saline Depression Wetland	Small		5 ha
	Riparian	Linear		32 ha
Inter-Mountain Basins Greasewood Flat	Large		22 ha	
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	110 ha
Plants	Beaver Rim Phlox ( <i>Phlox pungens</i> )		G2	3 count

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries



**78 Bradley Peak**

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 52%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		85 ha
	Inter-Mountain Basins Cliff and Canyon	Small		1 ha
	Inter-Mountain Basins Shale Badland	Small		2 ha
	Rocky Mountain Aspen Forest and Woodland	Small		11 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		420 ha
	Rocky Mountain Lodgepole Pine Forest	Small		27 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		330 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		43 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		52 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		2 ha
	Western Great Plains Saline Depression Wetland	Small		1 ha
	Riparian	Linear		23 ha
	Inter-Mountain Basins Greasewood Flat	Large		2 ha
Plants	Blowout Pentemon (Penstemon haydenii)		G1	2 count



**79 Anderson Canyon**

Size (hectares): 2,000 State(s): Wyoming  
 Size (acres): 4,942 % Public: 100%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		0 ha
	Inter-Mountain Basins Cliff and Canyon	Small		173 ha
	Inter-Mountain Basins Shale Badland	Small		8 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		0 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		317 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		1,428 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		14 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		7 ha
	Western Great Plains Saline Depression Wetland	Small		2 ha
Riparian	Linear		43 ha	
Mammals	Pygmy Rabbit (Brachylagus idahoensis)		G4	2 count
Plants	Beaver Rim Phlox (Phlox pungens)		G2	9 count

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.



Appendix H. Conservation Area Summaries



**80 Great Divide Basin**

Size (hectares): 47,000 State(s): Wyoming  
 Size (acres): 116,140 % Public: 100%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		764 ha
	Inter-Mountain Basins Cliff and Canyon	Small		16 ha
	Inter-Mountain Basins Shale Badland	Small		1 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		3 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		26,519 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		11,608 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		4 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		6,215 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		4 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		0 ha
	Western Great Plains Saline Depression Wetland	Small		154 ha
	Riparian	Linear		743 ha
Bird	Inter-Mountain Basins Greasewood Flat	Large		936 ha
	Ferruginous Hawk ( <i>Buteo regalis</i> )		G4	11 count
	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	46,893 ha
Mammals	Mountain Plover ( <i>Charadrius montanus</i> )		G3	79 count
	Pygmy Rabbit ( <i>Brachylagus idahoensis</i> )		G4	45 count
Plants	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )		G4	454 ha
	Mesic Milkvetch ( <i>Astragalus diversifolius</i> var <i>diversifolius</i> )		G2	4 count



**81 Stratton Rim**

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 100%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		1 ha
	Rocky Mountain Aspen Forest and Woodland	Small		0 ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		1 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		96 ha
	Rocky Mountain Lodgepole Pine Forest	Small		26 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		133 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		253 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		460 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		22 ha
	Western Great Plains Saline Depression Wetland	Small		1 ha
	Inter-Mountain Basins Greasewood Flat	Large		5 ha
Plants	Devils Gate Twinpod ( <i>Physaria eburniflora</i> )		G2G3	2 count

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries



**82 Bear Lake**

Size (hectares): 15,000 State(s): Idaho  
 Size (acres): 37,066 % Public: 63%

Section(s): 1 2 3 4 5  
 - - - x -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		0 ha
	Inter-Mountain Basins Cliff and Canyon	Small		43 ha
	Inter-Mountain Basins Shale Badland	Small		85 ha
	Rocky Mountain Aspen Forest and Woodland	Small		4 ha
	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		87 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		212 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		5,349 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		325 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		11 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		212 ha
	Rocky Mountain Lower Montane-Foothill Shrubland	Small		1 ha
	North American Arid West Emergent Marsh	Small		5,803 ha
	Riparian	Linear		1,949 ha
Amphibian	Northern Leopard Frog ( <i>Rana pipiens</i> )		G5	1 count
Bird	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	13,364 ha
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	3,687 ha
	Pygmy Rabbit ( <i>Brachylagus idahoensis</i> )		G4	130 count



**83 Shirley Basin**

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 100%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		314 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		587 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		2 ha
	Riparian	Linear		11 ha
	Inter-Mountain Basins Greasewood Flat	Large		84 ha
Plants	Laramie False Sagebrush ( <i>Sphaeromeria simplex</i> )		G2	7 count



**84 Buckhorn Draw**

Size (hectares): 2,000 State(s): Wyoming  
 Size (acres): 4,942 % Public: 100%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		35 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		0 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix	108	ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix	1,722	ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large	2	ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large	2	ha
	Riparian	Linear	56	ha
	Inter-Mountain Basins Greasewood Flat	Large	71	ha
	Western Great Plains Floodplain	Linear	1	ha
Bird	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )	G4	827	ha
Plants	Beaver Rim Phlox ( <i>Phlox pungens</i> )	G2	13	count



### 85 Sheep Mountain

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 78%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		22 ha
	Inter-Mountain Basins Cliff and Canyon	Small		11 ha
	Inter-Mountain Basins Shale Badland	Small		19 ha
	Rocky Mountain Aspen Forest and Woodland	Small		2 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		55 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		2 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		445 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		43 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		23 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		354 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		3 ha
	Western Great Plains Saline Depression Wetland	Small		0 ha
	Riparian	Linear		16 ha
	Inter-Mountain Basins Greasewood Flat	Large		2 ha
Plants	Devils Gate Twinpod ( <i>Physaria eburniflora</i> )		G2G3	2 count



### 86 Wildcat Canyon

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 100%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		2 ha
	Inter-Mountain Basins Cliff and Canyon	Small		89 ha
	Inter-Mountain Basins Shale Badland	Small		37 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		8 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		170 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		612 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		7 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		52 ha
	Riparian	Linear		20 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	Inter-Mountain Basins Greasewood Flat	Large		2	ha
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	1,000	ha
	Pronghorn ( <i>Antilocapra americana</i> )		G5	223	ha
Plants	Treleases Racemose Milkvetch ( <i>Astragalus racemosus</i> var. <i>treleasei</i> )		G5T2	4	count



### 87 Hogback Ridge

Size (hectares): 3,000 State(s): Wyoming  
 Size (acres): 7,413 % Public: 97%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount	
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		1	ha
	Rocky Mountain Aspen Forest and Woodland	Small		21	ha
	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		10	ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		8	ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		90	ha
	Rocky Mountain Lodgepole Pine Forest	Small		80	ha
	Rocky Mountain Subalpine Dry-Mesic Spruce-Firt Forest and Woodland	Small		31	ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		223	ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		427	ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		695	ha
	Northern Rocky Mountain Lower Montane Foothill and Valley Grassland	Small		1	ha
	Southern Rocky Mountain Montane-Subalpine Grassland	Small		2	ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		58	ha
	Western Great Plains Saline Depression Wetland	Small		19	ha
Mammals	Elk ( <i>Cervus canadensis</i> )		G5	982	ha
	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	728	ha
	Pygmy Rabbit ( <i>Brachylagus idahoensis</i> )		G4	8	count
Plants	Big Piney Milkvetch ( <i>Astragalus drabelliformis</i> )		G2G3	2	count



### 88 North Creek

Size (hectares): 2,000 State(s): Idaho  
 Size (acres): 4,942 % Public: 0%

Section(s): 1 2 3 4 5  
 - - - x -

Tax Group	Target Name	Patch Type	G-rank	Amount	
Terr Ecosys	Inter-Mountain Basins Shale Badland	Small		0	ha
	Rocky Mountain Aspen Forest and Woodland	Small		10	ha
	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		58	ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		1	ha
	Rocky Mountain Lodgepole Pine Forest	Small		3	ha
	Rocky Mountain Subalpine Dry-Mesic Spruce-Firt Forest and Woodland	Small		0	ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		496	ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		54	ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		2	ha
	Northern Rocky Mountain Lower Montane Foothill and Valley Grassland	Small		262	ha
	Southern Rocky Mountain Montane-Subalpine Grassland	Small		89	ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	North American Arid West Emergent Marsh	Small	0	ha
	Rocky Mountain Alpine-Montane Wet Meadow	Small	177	ha
	Riparian	Linear	607	ha
Mammals	Idaho Pocket Gopher ( <i>Thomomys idahoensis</i> )		G4	120 ha



### 89 Piney Creek

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 94%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		1 ha
	Inter-Mountain Basins Cliff and Canyon	Small		6 ha
	Rocky Mountain Aspen Forest and Woodland	Small		0 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		0 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		150 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		17 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		0 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		759 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		7 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		1 ha
	Western Great Plains Saline Depression Wetland	Small		18 ha
	Riparian	Linear		3 ha
	Inter-Mountain Basins Greasewood Flat	Large		31 ha
	Western Great Plains Floodplain	Linear		1 ha
Mammals	Idaho Pocket Gopher ( <i>Thomomys idahoensis</i> )		G4	180 ha
	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	987 ha
	Wyoming Ground Squirrel ( <i>Spermophilus elegans</i> )		G5	1 count
Plants	Big Piney Milkvetch ( <i>Astragalus drabelliformis</i> )		G2G3	2 count



### 90 Alkali Creek

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 100%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		2 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		60 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		481 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		416 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		1 ha
	Western Great Plains Saline Depression Wetland	Small		2 ha
	Riparian	Linear		38 ha
Plants	Beaver Rim Phlox ( <i>Phlox pungens</i> )		G2	4 count

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.



Appendix H. Conservation Area Summaries



**91 Dry Sandy Creek**

Size (hectares): 6,000 State(s): Wyoming  
 Size (acres): 14,826 % Public: 99%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		0 ha
	Rocky Mountain Aspen Forest and Woodland	Small		3 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		1 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		2 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		3,829 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		444 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		1 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		1,323 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		29 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		2 ha
	Western Great Plains Saline Depression Wetland	Small		27 ha
	Riparian	Linear		318 ha
	Inter-Mountain Basins Greasewood Flat	Large		17 ha
Bird	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	6,000 ha
Mammals	Elk ( <i>Cervus canadensis</i> )		G5	5,532 ha



**92 Cretaceous Mountain**

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 90%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		1 ha
	Rocky Mountain Aspen Forest and Woodland	Small		17 ha
	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		18 ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		2 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		1 ha
	Rocky Mountain Lodgepole Pine Forest	Small		8 ha
	Rocky Mountain Subalpine Dry-Mesic Spruce-Firt Forest and Woodland	Small		18 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		19 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		312 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		465 ha
	Northern Rocky Mountain Lower Montane Foothill and Valley Grassland	Small		2 ha
	Southern Rocky Mountain Montane-Subalpine Grassland	Small		2 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		0 ha
	Western Great Plains Saline Depression Wetland	Small		9 ha
Riparian	Linear		1 ha	
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	319 ha
Plants	Big Piney Milkvetch ( <i>Astragalus drabelliformis</i> )		G2G3	2 count
	Treleases Racemose Milkvetch ( <i>Astragalus racemosus</i> var. <i>treleasei</i> )		G5T2	10 count

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries



**93 Dry Basin**

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 100%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Rocky Mountain Aspen Forest and Woodland	Small		0 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		275 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		638 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		42 ha
	Riparian	Linear		14 ha
	Inter-Mountain Basins Greasewood Flat	Large		36 ha
Mammals	Idaho Pocket Gopher ( <i>Thomomys idahoensis</i> )		G4	382 ha
	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	1,000 ha
	Pygmy Rabbit ( <i>Brachylagus idahoensis</i> )		G4	2 count
Plants	Big Piney Milkvetch ( <i>Astragalus drabelliformis</i> )		G2G3	2 count



**94 Sand Draw**

Size (hectares): 4,000 State(s): Wyoming  
 Size (acres): 9,884 % Public: 96%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		8 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		440 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		2,662 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		685 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		24 ha
	Western Great Plains Saline Depression Wetland	Small		1 ha
	Riparian	Linear		110 ha
	Inter-Mountain Basins Greasewood Flat	Large		9 ha
Bird	Ferruginous Hawk ( <i>Buteo regalis</i> )		G4	2 count
	Mountain Plover ( <i>Charadrius montanus</i> )		G3	1 count
Mammals	Pygmy Rabbit ( <i>Brachylagus idahoensis</i> )		G4	334 count
	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )		G4	319 ha
Plants	Cedar Rim Thistle ( <i>Cirsium pulcherrimum</i> var. <i>aridum</i> )		G2Q	11 count
	Beaver Rim Phlox ( <i>Phlox pungens</i> )		G2	2 count



**95 Burnt Wagon Draw**

Size (hectares): 3,000 State(s): Wyoming  
 Size (acres): 7,413 % Public: 78%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		2 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	Inter-Mountain Basins Shale Badland	Small	15	ha	
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large	17	ha	
	Rocky Mountain Ponderosa Pine Woodland and Savanna	Small	722	ha	
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix	0	ha	
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix	1,863	ha	
	Inter-Mountain Basins Montane Sagebrush Steppe	Large	0	ha	
	Inter-Mountain Basins Mat Saltbush Shrubland	Large	3	ha	
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large	315	ha	
	Western Great Plains Open Freshwater Depression Wetland	Small	0	ha	
	Western Great Plains Saline Depression Wetland	Small	2	ha	
	Riparian	Linear	18	ha	
	Inter-Mountain Basins Greasewood Flat	Large	43	ha	
	Bird	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	3,000



### 96 North Platte - Coal Creek

Size (hectares): 2,000 State(s): Wyoming  
 Size (acres): 4,942 % Public: 22%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		18 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		0 ha
	Riparian	Linear		1 ha
	Inter-Mountain Basins Greasewood Flat	Large		4 ha
	Western Great Plains Floodplain	Linear		1 ha



### 97 Red Butte

Size (hectares): 5,000 State(s): Wyoming  
 Size (acres): 12,355 % Public: 28%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		46 ha
	Inter-Mountain Basins Shale Badland	Small		34 ha
	Rocky Mountain Aspen Forest and Woodland	Small		18 ha
	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		181 ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		67 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		115 ha
	Rocky Mountain Lodgepole Pine Forest	Small		7 ha
	Rocky Mountain Subalpine Dry-Mesic Spruce-Firt Forest and Woodland	Small		0 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		2,840 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		184 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		2 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		109 ha
	Northern Rocky Mountain Lower Montane Foothill and Valley Grassland	Small		77 ha
	Southern Rocky Mountain Montane-Subalpine Grassland	Small		1 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		5 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	Western Great Plains Saline Depression Wetland	Small	5	ha
	Riparian	Linear	124	ha
	Inter-Mountain Basins Greasewood Flat	Large	11	ha
	Western Great Plains Floodplain	Linear	86	ha
Bird	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )	G4	4,113	ha
Mammals	Elk ( <i>Cervus canadensis</i> )	G5	737	ha
	Mule Deer ( <i>Odocoileus hemionus</i> )	G5	3,420	ha
Plants	Beaver Rim Phlox ( <i>Phlox pungens</i> )	G2	2	count



### 98 Kirby Draw

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 0%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		631 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		140 ha
	Western Great Plains Saline Depression Wetland	Small		17 ha
	Riparian	Linear		1 ha
	Inter-Mountain Basins Greasewood Flat	Large		210 ha
Mammals	Pronghorn ( <i>Antilocapra americana</i> )		G5	487 ha
	Wyoming Ground Squirrel ( <i>Spermophilus elegans</i> )		G5	1 count



### 99 Sweetwater River and Central Basins Megasite

Size (hectares): 2,227,000 State(s): Wyoming  
 Size (acres): 5,503,037 % Public: 72%

Section(s): 1 2 3 4 5  
 - x x x -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		45,962 ha
	Inter-Mountain Basins Cliff and Canyon	Small		28,516 ha
	Inter-Mountain Basins Shale Badland	Small		12,671 ha
	Rocky Mountain Aspen Forest and Woodland	Small		2,007 ha
	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		950 ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		2,267 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		53,856 ha
	Rocky Mountain Lodgepole Pine Forest	Small		3,589 ha
	Rocky Mountain Ponderosa Pine Woodland and Savanna	Small		202 ha
	Rocky Mountain Subalpine Dry-Mesic Spruce-Firt Forest and Woodland	Small		1,957 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		122,847 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		1,273,449 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		28,974 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		113,317 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		233,588 ha
	Rocky Mountain Lower Montane-Foothill Shrubland	Small		791 ha
	Northern Rocky Mountain Lower Montane Foothill and Valley Grassland	Small		512 ha
	Southern Rocky Mountain Montane-Subalpine Grassland	Small		95 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	Northwestern Great Plains Mixedgrass Prairie	Matrix	73,419	ha
	North American Arid West Emergent Marsh	Small	0	ha
	Inter-Mountain Basins Interdunal Swale Wetland	Small	751	ha
	Rocky Mountain Alpine-Montane Wet Meadow	Small	344	ha
	Western Great Plains Open Freshwater Depression Wetland	Small	3,830	ha
	Columbia Plateau Vernal Pool	Small	0	ha
	Western Great Plains Saline Depression Wetland	Small	32,304	ha
	Riparian	Linear	33,394	ha
	Inter-Mountain Basins Greasewood Flat	Large	53,836	ha
	Western Great Plains Floodplain	Linear	10,127	ha
Amphibian	Northern Leopard Frog ( <i>Rana pipiens</i> )	G5	7	count
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )	G5	380	count
	Ferruginous Hawk ( <i>Buteo regalis</i> )	G4	340	count
	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )	G4	1,629,702	ha
	Mountain Plover ( <i>Charadrius montanus</i> )	G3	301	count
Mammals	Black-footed Ferret ( <i>Mustela nigripes</i> )	G1	24,609	ha
	Elk ( <i>Cervus canadensis</i> )	G5	203,365	ha
	Idaho Pocket Gopher ( <i>Thomomys idahoensis</i> )	G4	47,272	ha
	Mule Deer ( <i>Odocoileus hemionus</i> )	G5	273,537	ha
	Pronghorn ( <i>Antilocapra americana</i> )	G5	744,355	ha
	Pygmy Rabbit ( <i>Brachylagus idahoensis</i> )	G4	533	count
	Swift Fox ( <i>Vulpes velox</i> )	G3	50	count
	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )	G4	4,622	ha
	Wyoming Ground Squirrel ( <i>Spermophilus elegans</i> )	G5	29	count
	Plants	Meadow Pussytoes ( <i>Antennaria arcuata</i> )	G2	63
Porters Sagebrush ( <i>Artemisia porteri</i> )		G2	43	count
Big Piney Milkvetch ( <i>Astragalus drabelliformis</i> )		G2G3	4	count
Small Rockcress ( <i>Boechera pusilla</i> )		G1	18	count
Cedar Rim Thistle ( <i>Cirsium pulcherrimum</i> var. <i>aridum</i> )		G2Q	36	count
Many-stemmed Spider-flower ( <i>Cleome multicaulis</i> )		G2G3	16	count
Dune Wildrye ( <i>Elymus simplex</i> var. <i>luxurians</i> )		G4T1	5	count
Fremont Bladderpod ( <i>Lesquerella fremontii</i> )		G2	13	count
Large-fruited Bladderpod ( <i>Lesquerella macrocarpa</i> )		G2	14	count
Wards Goldenweed ( <i>Oonopsis wardii</i> )		G3	13	count
Maybell Locoweed ( <i>Oxytropis besseyi</i> var. <i>obnapiformis</i> )		G5T2	4	count
Gibbens Beardtongue ( <i>Penstemon gibbensii</i> )		G1G2	5	count
Blowout Pentemon ( <i>Penstemon haydenii</i> )		G1	2	count
Desert Glandular Phacelia ( <i>Phacelia glandulosa</i> var. <i>deserta</i> )		G4T1T2	2	count
Beaver Rim Phlox ( <i>Phlox pungens</i> )		G2	138	count
Tufted Twinpod ( <i>Physaria condensata</i> )		G2	10	count
Devils Gate Twinpod ( <i>Physaria eburniflora</i> )		G2G3	48	count
Rocky Mountain Twinpod ( <i>Physaria saximontana</i> var. <i>saximontana</i> )		G3T2	20	count
Hairy Tranquil Goldenweed ( <i>Pyrrocoma clementis</i> var. <i>villosa</i> )		G3G4T1	2	count
Laramie False Sagebrush ( <i>Sphaeromeria simplex</i> )		G2	164	count
Barneby's Clover ( <i>Trifolium barnebyi</i> )	G1	28	count	
Desert Yellowhead ( <i>Yermo xanthocephalus</i> )	G1	17	count	

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.



Appendix H. Conservation Area Summaries



**100 Upper Green River**

Size (hectares): 358,000 State(s): Wyoming  
 Size (acres): 884,637 % Public: 59%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount	
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		1,073 ha	
	Inter-Mountain Basins Cliff and Canyon	Small		3,976 ha	
	Inter-Mountain Basins Shale Badland	Small		1,506 ha	
	Rocky Mountain Aspen Forest and Woodland	Small		1,222 ha	
	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		20 ha	
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		74 ha	
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		3,147 ha	
	Rocky Mountain Lodgepole Pine Forest	Small		2,152 ha	
	Rocky Mountain Subalpine Dry-Mesic Spruce-Firt Forest and Woodland	Small		94 ha	
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		7,124 ha	
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		175,513 ha	
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		29,338 ha	
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		5,152 ha	
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		17,668 ha	
	Northern Rocky Mountain Lower Montane Foothill and Valley Grassland	Small		202 ha	
	Southern Rocky Mountain Montane-Subalpine Grassland	Small		171 ha	
	Northwestern Great Plains Mixedgrass Prairie	Matrix		5,047 ha	
	North American Arid West Emergent Marsh	Small		1 ha	
	Rocky Mountain Alpine-Montane Wet Meadow	Small		501 ha	
	Western Great Plains Open Freshwater Depression Wetland	Small		3,745 ha	
	Columbia Plateau Vernal Pool	Small		2 ha	
	Western Great Plains Saline Depression Wetland	Small		10,744 ha	
	Riparian	Linear		6,266 ha	
	Inter-Mountain Basins Greasewood Flat	Large		5,647 ha	
	Western Great Plains Floodplain	Linear		2,808 ha	
	Amphibian	Northern Leopard Frog ( <i>Rana pipiens</i> )		G5	1 count
	Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )		G5	112 count
Ferruginous Hawk ( <i>Buteo regalis</i> )			G4	20 count	
Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )			G4	223,687 ha	
	Mountain Plover ( <i>Charadrius montanus</i> )		G3	7 count	
Mammals	Elk ( <i>Cervus canadensis</i> )		G5	5,622 ha	
	Idaho Pocket Gopher ( <i>Thomomys idahoensis</i> )		G4	188,852 ha	
	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	109,367 ha	
	Pronghorn ( <i>Antilocapra americana</i> )		G5	57,226 ha	
	Pygmy Rabbit ( <i>Brachylagus idahoensis</i> )		G4	2,140 count	
Plants	Meadow Pussytoes ( <i>Antennaria arcuata</i> )		G2	15 count	
	Big Piney Milkvetch ( <i>Astragalus drabelliformis</i> )		G2G3	28 count	
	Treeleases Racemose Milkvetch ( <i>Astragalus racemosus</i> var. <i>treleasei</i> )		G5T2	28 count	
	Cedar Rim Thistle ( <i>Cirsium pulcherrimum</i> var. <i>aridum</i> )		G2Q	7 count	
	Large-fruited Bladderpod ( <i>Lesquerella macrocarpa</i> )		G2	53 count	
	Desert Glandular Phacelia ( <i>Phacelia glandulosa</i> var. <i>deserta</i> )		G4T1T2	2 count	
	Beaver Rim Phlox ( <i>Phlox pungens</i> )		G2	162 count	

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries

Plants Tufted Twinpod (*Physaria condensata*) G2 4 count



**101 Moneta Hills**

Size (hectares): 5,000 State(s): Wyoming  
 Size (acres): 12,355 % Public: 82%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		69 ha
	Inter-Mountain Basins Shale Badland	Small		118 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		2,942 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		1 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		1,640 ha
	Southern Rocky Mountain Montane-Subalpine Grassland	Small		1 ha
	Western Great Plains Saline Depression Wetland	Small		1 ha
	Riparian	Linear		26 ha
	Inter-Mountain Basins Greasewood Flat	Large		93 ha
	Western Great Plains Floodplain	Linear		12 ha
Bird	Mountain Plover ( <i>Charadrius montanus</i> )		G3	60 count
Mammals	Pronghorn ( <i>Antilocapra americana</i> )		G5	476 ha
Plants	Porters Sagebrush ( <i>Artemisia porteri</i> )		G2	10 count



**102 Wind River - Martin Ponds**

Size (hectares): 2,000 State(s): Wyoming  
 Size (acres): 4,942 % Public: 0%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		9 ha
	Inter-Mountain Basins Shale Badland	Small		91 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		60 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		4 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		870 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		4 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		32 ha
	Western Great Plains Saline Depression Wetland	Small		45 ha
	Riparian	Linear		21 ha
	Inter-Mountain Basins Greasewood Flat	Large		75 ha
Bird	Western Great Plains Floodplain	Linear		222 ha
	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )		G5	1 count
	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	990 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries



**103 Ocean Lake - Missouri Valley**

Size (hectares): 22,000 State(s): Wyoming  
 Size (acres): 54,363 % Public: 77%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		1 ha
	Inter-Mountain Basins Shale Badland	Small		45 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		26 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		5,162 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		7 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		1,142 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		111 ha
	Western Great Plains Saline Depression Wetland	Small		1,293 ha
	Riparian	Linear		34 ha
	Inter-Mountain Basins Greasewood Flat	Large		494 ha
Western Great Plains Floodplain	Linear		15 ha	
Amphibian	Northern Leopard Frog ( <i>Rana pipiens</i> )		G5	1 count
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )		G5	1 count
	Mountain Plover ( <i>Charadrius montanus</i> )		G3	2 count



**104 Alkali Flats**

Size (hectares): 13,000 State(s): Wyoming  
 Size (acres): 32,124 % Public: 87%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		0 ha
	Inter-Mountain Basins Cliff and Canyon	Small		46 ha
	Inter-Mountain Basins Shale Badland	Small		111 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		2 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		69 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		6,250 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		2 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		5,729 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		0 ha
	Southern Rocky Mountain Montane-Subalpine Grassland	Small		1 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		0 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		13 ha
	Western Great Plains Saline Depression Wetland	Small		76 ha
	Riparian	Linear		275 ha
	Inter-Mountain Basins Greasewood Flat	Large		259 ha
Western Great Plains Floodplain	Linear		23 ha	
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )		G5	4 count
	Ferruginous Hawk ( <i>Buteo regalis</i> )		G4	6 count
	Mountain Plover ( <i>Charadrius montanus</i> )		G3	54 count

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )	G5	876	ha
	Pronghorn ( <i>Antilocapra americana</i> )	G5	5,797	ha
Plants	Porters Sagebrush ( <i>Artemisia porteri</i> )	G2	156	count



### 105 Cedar Ridge

Size (hectares): 1,000 State(s): Wyoming  
 Size (acres): 2,471 % Public: 90%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		0 ha
	Inter-Mountain Basins Cliff and Canyon	Small		11 ha
	Inter-Mountain Basins Shale Badland	Small		2 ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		1 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		618 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		25 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		319 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		21 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		2 ha
	Western Great Plains Saline Depression Wetland	Small		3 ha
	Inter-Mountain Basins Greasewood Flat	Large		2 ha
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	938 ha
	Pronghorn ( <i>Antilocapra americana</i> )		G5	368 ha
Plants	Devils Gate Twinpod ( <i>Physaria eburniflora</i> )		G2G3	1 count



### 106 Sand Mesa

Size (hectares): 21,000 State(s): Wyoming  
 Size (acres): 51,892 % Public: 80%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount	
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		0 ha	
	Inter-Mountain Basins Cliff and Canyon	Small		0 ha	
	Inter-Mountain Basins Shale Badland	Small		69 ha	
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		83 ha	
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		5,970 ha	
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		2 ha	
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		5,653 ha	
	Southern Rocky Mountain Montane-Subalpine Grassland	Small		906 ha	
	Western Great Plains Open Freshwater Depression Wetland	Small		77 ha	
	Western Great Plains Saline Depression Wetland	Small		973 ha	
	Riparian	Linear		112 ha	
		Inter-Mountain Basins Greasewood Flat	Large		619 ha
		Western Great Plains Floodplain	Linear		443 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries



**107 Snyder Creek**

Size (hectares): 2,000 State(s): Wyoming  
 Size (acres): 4,942 % Public: 72%

Section(s): 1 2 3 4 5  
 x x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		0 ha
	Inter-Mountain Basins Cliff and Canyon	Small		10 ha
	Inter-Mountain Basins Shale Badland	Small		2 ha
	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		24 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		141 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		136 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		719 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		4 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		486 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		262 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		20 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		4 ha
	Western Great Plains Saline Depression Wetland	Small		45 ha
	Riparian	Linear		79 ha
	Inter-Mountain Basins Greasewood Flat	Large		43 ha
Bird	Ferruginous Hawk ( <i>Buteo regalis</i> )		G4	1 count
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	629 ha
Plants	Porters Sagebrush ( <i>Artemisia porteri</i> )		G2	3 count



**108 Boysen**

Size (hectares): 7,000 State(s): Wyoming  
 Size (acres): 17,297 % Public: 77%

Section(s): 1 2 3 4 5  
 x - - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		508 ha
	Inter-Mountain Basins Shale Badland	Small		1,170 ha
	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		14 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		2,195 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		29 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		1,903 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		5 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		737 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		7 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		3 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		1 ha
	Western Great Plains Saline Depression Wetland	Small		11 ha
	Riparian	Linear		53 ha
	Inter-Mountain Basins Greasewood Flat	Large		45 ha
Western Great Plains Floodplain	Linear		3 ha	

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.



## Appendix H. Conservation Area Summaries

Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )	G5	1,434	ha
	Pronghorn ( <i>Antilocapra americana</i> )	G5	512	ha
Plants	Owl Creek Miners Candle ( <i>Cryptantha subcapitata</i> )	G2	14	count



### 109 Upper Wind River

Size (hectares): 70,000 State(s): Wyoming  
 Size (acres): 172,974 % Public: 67%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		36 ha
	Inter-Mountain Basins Cliff and Canyon	Small		3,017 ha
	Inter-Mountain Basins Shale Badland	Small		1,665 ha
	Rocky Mountain Alpine Bedrock and Scree	Small		1,031 ha
	Rocky Mountain Aspen Forest and Woodland	Small		103 ha
	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		225 ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		468 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		2,972 ha
	Rocky Mountain Lodgepole Pine Forest	Small		1,944 ha
	Rocky Mountain Subalpine Dry-Mesic Spruce-Firt Forest and Woodland	Small		3,134 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		274 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		23,550 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		5,463 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		44 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		6,424 ha
	Northern Rocky Mountain Lower Montane Foothill and Valley Grassland	Small		2,801 ha
	Southern Rocky Mountain Montane-Subalpine Grassland	Small		669 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		890 ha
	North American Arid West Emergent Marsh	Small		0 ha
	Rocky Mountain Alpine-Montane Wet Meadow	Small		87 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		115 ha
	Columbia Plateau Vernal Pool	Small		0 ha
	Western Great Plains Saline Depression Wetland	Small		196 ha
	Riparian	Linear		661 ha
	Inter-Mountain Basins Greasewood Flat	Large		695 ha
	Western Great Plains Floodplain	Linear		563 ha
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )	G5	11	count
Mammals	Elk ( <i>Cervus canadensis</i> )	G5	11,904	ha
	Mule Deer ( <i>Odocoileus hemionus</i> )	G5	33,941	ha
	Pronghorn ( <i>Antilocapra americana</i> )	G5	9,952	ha
	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )	G4	50	ha
Plants	Dubois Milkvetch ( <i>Astragalus gilviflorus</i> var. <i>purpureus</i> )	G5T2	41	count

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries



**110 Wind River Canyon/ Bighorn River**

Size (hectares): 4,000 State(s): Wyoming  
 Size (acres): 9,884 % Public: 16%

Section(s): 1 2 3 4 5  
 x - - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		12 ha
	Inter-Mountain Basins Shale Badland	Small		56 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		99 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		2,443 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		0 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		203 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		4 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		16 ha
	Western Great Plains Saline Depression Wetland	Small		55 ha
	Riparian	Linear		23 ha
	Inter-Mountain Basins Greasewood Flat	Large		49 ha
	Western Great Plains Floodplain	Linear		55 ha
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )		G5	15 count
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	2,845 ha



**111 Du Noir Creek**

Size (hectares): 3,000 State(s): Wyoming  
 Size (acres): 7,413 % Public: 90%

Section(s): 1 2 3 4 5  
 - x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Shale Badland	Small		0 ha
	Rocky Mountain Aspen Forest and Woodland	Small		23 ha
	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		3 ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		13 ha
	Rocky Mountain Lodgepole Pine Forest	Small		361 ha
	Rocky Mountain Subalpine Dry-Mesic Spruce-Firt Forest and Woodland	Small		136 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		112 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		121 ha
	Northern Rocky Mountain Lower Montane Foothill and Valley Grassland	Small		4 ha
	Southern Rocky Mountain Montane-Subalpine Grassland	Small		12 ha
	North American Arid West Emergent Marsh	Small		0 ha
	Rocky Mountain Alpine-Montane Wet Meadow	Small		22 ha
	Columbia Plateau Vernal Pool	Small		1 ha
	Riparian	Linear		5 ha
	Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )		G5

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries



**112 Putney Flat**

Size (hectares): 27,000 State(s): Wyoming  
 Size (acres): 66,718 % Public: 44%

Section(s): 1 2 3 4 5  
 x - - - -

Tax Group	Target Name	Patch Type	G-rank	Amount	
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		30 ha	
	Inter-Mountain Basins Cliff and Canyon	Small		783 ha	
	Inter-Mountain Basins Shale Badland	Small		612 ha	
	Rocky Mountain Alpine Bedrock and Scree	Small		38 ha	
	Rocky Mountain Aspen Forest and Woodland	Small		30 ha	
	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		210 ha	
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		545 ha	
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		1,072 ha	
	Rocky Mountain Lodgepole Pine Forest	Small		381 ha	
	Rocky Mountain Subalpine Dry-Mesic Spruce-Firt Forest and Woodland	Small		606 ha	
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		16 ha	
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		13,174 ha	
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		3,504 ha	
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		181 ha	
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		950 ha	
	Northern Rocky Mountain Lower Montane Foothill and Valley Grassland	Small		233 ha	
	Southern Rocky Mountain Montane-Subalpine Grassland	Small		347 ha	
	Northwestern Great Plains Mixedgrass Prairie	Matrix		57 ha	
	Rocky Mountain Alpine-Montane Wet Meadow	Small		5 ha	
	Western Great Plains Open Freshwater Depression Wetland	Small		163 ha	
	Western Great Plains Saline Depression Wetland	Small		70 ha	
	Riparian	Linear		307 ha	
	Inter-Mountain Basins Greasewood Flat	Large		444 ha	
	Western Great Plains Floodplain	Linear		201 ha	
	Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )		G5	1 count
		Ferruginous Hawk ( <i>Buteo regalis</i> )		G4	1 count
Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )			G4	19,970 ha	
Mammals	Elk ( <i>Cervus canadensis</i> )		G5	3,517 ha	
	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	17,517 ha	
	Pronghorn ( <i>Antilocapra americana</i> )		G5	477 ha	
	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )		G4	296 ha	
Plants	Rocky Mountain Twinpod ( <i>Physaria saximontana</i> var. <i>saximontana</i> )		G3T2	2 count	
	Shoshonea ( <i>Shoshonea pulvinata</i> )		G2G3	1 count	

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries



**113 Cottonwood Creek**

Size (hectares): 2,000 State(s): Wyoming  
 Size (acres): 4,942 % Public: 47%

Section(s): 1 2 3 4 5  
 x - - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		0 ha
	Inter-Mountain Basins Cliff and Canyon	Small		1 ha
	Inter-Mountain Basins Shale Badland	Small		163 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		55 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		0 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		1,224 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		5 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		128 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		5 ha
	Western Great Plains Saline Depression Wetland	Small		21 ha
	Riparian	Linear		86 ha
	Inter-Mountain Basins Greasewood Flat	Large		149 ha
	Western Great Plains Floodplain	Linear		38 ha
Bird	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	627 ha
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	1,375 ha
	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )		G4	52 ha
Plants	Rocky Mountain Twinpod ( <i>Physaria saximontana</i> var. <i>saximontana</i> )		G3T2	2 count



**114 Gooseberry Creek - Enos Creek**

Size (hectares): 6,000 State(s): Wyoming  
 Size (acres): 14,826 % Public: 52%

Section(s): 1 2 3 4 5  
 x - - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Shale Badland	Small		0 ha
	Rocky Mountain Aspen Forest and Woodland	Small		8 ha
	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		310 ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		174 ha
	Rocky Mountain Lodgepole Pine Forest	Small		149 ha
	Rocky Mountain Subalpine Dry-Mesic Spruce-Firt Forest and Woodland	Small		4 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		3,055 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		262 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		38 ha
	Northern Rocky Mountain Lower Montane Foothill and Valley Grassland	Small		312 ha
	Southern Rocky Mountain Montane-Subalpine Grassland	Small		3 ha
	North American Arid West Emergent Marsh	Small		0 ha
	Rocky Mountain Alpine-Montane Wet Meadow	Small		14 ha
	Riparian	Linear		20 ha
Mammals	Elk ( <i>Cervus canadensis</i> )		G5	2,754 ha
	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	3,027 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries

Plants Everts Waferparsnip (*Cymopterus evertii*) G2G3 8 count



**115 Bighorn River - Horse Gulch**

Size (hectares): 2,000 State(s): Wyoming  
 Size (acres): 4,942 % Public: 100%

Section(s): 1 2 3 4 5  
 x - - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Shale Badland	Small		82 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		774 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		990 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		4 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		134 ha
	Western Great Plains Saline Depression Wetland	Small		0 ha
	Riparian	Linear		8 ha
	Inter-Mountain Basins Greasewood Flat	Large		10 ha
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	528 ha
	Pronghorn ( <i>Antilocapra americana</i> )		G5	1,622 ha



**116 Lysite Mountain**

Size (hectares): 325,000 State(s): Wyoming  
 Size (acres): 803,092 % Public: 75%

Section(s): 1 2 3 4 5  
 x x - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		73 ha
	Inter-Mountain Basins Cliff and Canyon	Small		3,683 ha
	Inter-Mountain Basins Shale Badland	Small		8,559 ha
	Rocky Mountain Aspen Forest and Woodland	Small		4 ha
	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		326 ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		296 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		13,099 ha
	Rocky Mountain Lodgepole Pine Forest	Small		11 ha
	Rocky Mountain Ponderosa Pine Woodland and Savanna	Small		1,183 ha
	Rocky Mountain Subalpine Dry-Mesic Spruce-Firt Forest and Woodland	Small		12 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		4,780 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		219,714 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		8,005 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		27,603 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		2,748 ha
	Northern Rocky Mountain Lower Montane Foothill and Valley Grassland	Small		2 ha
	Southern Rocky Mountain Montane-Subalpine Grassland	Small		65 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		11,140 ha
	Rocky Mountain Alpine-Montane Wet Meadow	Small		2 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		282 ha
Western Great Plains Saline Depression Wetland	Small		638 ha	
Riparian	Linear		4,467 ha	

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.



## Appendix H. Conservation Area Summaries

Terr Ecosys	Inter-Mountain Basins Greasewood Flat	Large	5,971	ha
	Western Great Plains Floodplain	Linear	383	ha
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )	G5	40	count
	Ferruginous Hawk ( <i>Buteo regalis</i> )	G4	14	count
	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )	G4	237,930	ha
	Mountain Plover ( <i>Charadrius montanus</i> )	G3	35	count
Mammals	Elk ( <i>Cervus canadensis</i> )	G5	26,583	ha
	Mule Deer ( <i>Odocoileus hemionus</i> )	G5	120,728	ha
	Pronghorn ( <i>Antilocapra americana</i> )	G5	129,351	ha
	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )	G4	1,158	ha
Plants	Porters Sagebrush ( <i>Artemisia porteri</i> )	G2	5	count
	Dubois Milkvetch ( <i>Astragalus gilviflorus</i> var. <i>purpureus</i> )	G5T2	64	count
	Owl Creek Miners Candle ( <i>Cryptantha subcapitata</i> )	G2	4	count



### 117 Little Buffalo Basin

Size (hectares): 2,000 State(s): Wyoming  
 Size (acres): 4,942 % Public: 98%

Section(s): 1 2 3 4 5  
 x - - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		2 ha
	Inter-Mountain Basins Cliff and Canyon	Small		49 ha
	Inter-Mountain Basins Shale Badland	Small		45 ha
	Rocky Mountain Aspen Forest and Woodland	Small		10 ha
	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		9 ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		9 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		3 ha
	Rocky Mountain Lodgepole Pine Forest	Small		1 ha
	Rocky Mountain Subalpine Dry-Mesic Spruce-Firt Forest and Woodland	Small		2 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		1,472 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		141 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		47 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		59 ha
	Northern Rocky Mountain Lower Montane Foothill and Valley Grassland	Small		6 ha
	Southern Rocky Mountain Montane-Subalpine Grassland	Small		0 ha
	Western Great Plains Saline Depression Wetland	Small		0 ha
	Riparian	Linear		58 ha
Inter-Mountain Basins Greasewood Flat	Large		25 ha	
Mammals	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )		G4	313 ha



### 118 Bighorn River - Tenmile/Sixmile Creeks

Size (hectares): 7,000 State(s): Wyoming  
 Size (acres): 17,297 % Public: 85%

Section(s): 1 2 3 4 5  
 x - - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Shale Badland	Small		196 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix	4,550	ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix	732	ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large	17	ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large	482	ha
	Western Great Plains Open Freshwater Depression Wetland	Small	9	ha
	Western Great Plains Saline Depression Wetland	Small	33	ha
	Riparian	Linear	28	ha
	Inter-Mountain Basins Greasewood Flat	Large	115	ha
	Western Great Plains Floodplain	Linear	3	ha
	Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )	G5	2
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )	G5	1,456	ha
	Pronghorn ( <i>Antilocapra americana</i> )	G5	3,728	ha
	Swift Fox ( <i>Vulpes velox</i> )	G3	1	count



### 119 Meeteetse Rim

Size (hectares): 4,000 State(s): Wyoming  
 Size (acres): 9,884 % Public: 36%

Section(s): 1 2 3 4 5  
 x - - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		25 ha
	Inter-Mountain Basins Shale Badland	Small		65 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		20 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		3,229 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		2 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		268 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		0 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		1 ha
	Western Great Plains Saline Depression Wetland	Small		1 ha
	Riparian	Linear		66 ha
	Inter-Mountain Basins Greasewood Flat	Large		27 ha
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )		G5	1 count
	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	4,000 ha
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	3,935 ha
	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )		G4	141 ha



### 120 Nowood River

Size (hectares): 22,000 State(s): Wyoming  
 Size (acres): 54,363 % Public: 82%

Section(s): 1 2 3 4 5  
 x - - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		0 ha
	Inter-Mountain Basins Shale Badland	Small		448 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		2 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		6,605 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		9,589 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	Inter-Mountain Basins Montane Sagebrush Steppe	Large	58	ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large	1,818	ha
	Western Great Plains Open Freshwater Depression Wetland	Small	28	ha
	Western Great Plains Saline Depression Wetland	Small	140	ha
	Riparian	Linear	151	ha
	Inter-Mountain Basins Greasewood Flat	Large	355	ha
	Western Great Plains Floodplain	Linear	28	ha
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )		G5	31 count
	Mountain Plover ( <i>Charadrius montanus</i> )		G3	5 count
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	3,262 ha
	Pronghorn ( <i>Antilocapra americana</i> )		G5	14,694 ha
	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )		G4	198 ha



### 121 Fifteen Mile Creek

Size (hectares): 196,000 State(s): Wyoming  
 Size (acres): 484,327 % Public: 85%

Section(s): 1 2 3 4 5  
 x - - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		6 ha
	Inter-Mountain Basins Cliff and Canyon	Small		1,702 ha
	Inter-Mountain Basins Shale Badland	Small		19,416 ha
	Rocky Mountain Aspen Forest and Woodland	Small		1 ha
	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		5 ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		4 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		411 ha
	Rocky Mountain Lodgepole Pine Forest	Small		0 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		4,288 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		120,135 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		856 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		34,722 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		179 ha
	Northern Rocky Mountain Lower Montane Foothill and Valley Grassland	Small		66 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		63 ha
	Western Great Plains Saline Depression Wetland	Small		438 ha
	Riparian	Linear		4,217 ha
	Inter-Mountain Basins Greasewood Flat	Large		3,916 ha
	Western Great Plains Floodplain	Linear		567 ha
	Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )		G5
Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )			G4	117,865 ha
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	50,912 ha
	Pronghorn ( <i>Antilocapra americana</i> )		G5	57,074 ha
	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )		G4	283 ha
Plants	Everts Waferparsnip ( <i>Cymopterus evertii</i> )		G2G3	10 count
	Rocky Mountain Twinpod ( <i>Physaria saximontana</i> var. <i>saximontana</i> )		G3T2	2 count

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries



**122 West slope - Bighorn Mountains**

Size (hectares): 60,000 State(s): Wyoming  
 Size (acres): 148,263 % Public: 85%

Section(s): 1 2 3 4 5  
 x - - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		13 ha
	Inter-Mountain Basins Cliff and Canyon	Small		4,481 ha
	Inter-Mountain Basins Shale Badland	Small		1,496 ha
	Rocky Mountain Aspen Forest and Woodland	Small		21 ha
	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		2,224 ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		2 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		1,937 ha
	Rocky Mountain Ponderosa Pine Woodland and Savanna	Small		61 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		32,350 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		18 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		4,262 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		916 ha
	Northern Rocky Mountain Lower Montane Foothill and Valley Grassland	Small		6 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		69 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		51 ha
	Western Great Plains Saline Depression Wetland	Small		152 ha
	Riparian	Linear		204 ha
	Inter-Mountain Basins Greasewood Flat	Large		394 ha
Western Great Plains Floodplain	Linear		2 ha	
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )		G5	11 count
	Ferruginous Hawk ( <i>Buteo regalis</i> )		G4	1 count
	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	46,922 ha
	Mountain Plover ( <i>Charadrius montanus</i> )		G3	1 count
Mammals	Elk ( <i>Cervus canadensis</i> )		G5	11,153 ha
	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	18,935 ha
	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )		G4	363 ha
Plants	Dubois Milkvetch ( <i>Astragalus gilviflorus</i> var. <i>purpureus</i> )		G5T2	15 count
	Hyattville Milkvetch ( <i>Astragalus jejunus</i> var. <i>articulatus</i> )		G3T1	19 count



**123 North/South Fork Shoshone - Greybull**

Size (hectares): 144,000 State(s): Wyoming  
 Size (acres): 355,832 % Public: 53%

Section(s): 1 2 3 4 5  
 x - - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		21 ha
	Inter-Mountain Basins Cliff and Canyon	Small		218 ha
	Inter-Mountain Basins Shale Badland	Small		403 ha
	Rocky Mountain Alpine Bedrock and Scree	Small		109 ha
	Rocky Mountain Aspen Forest and Woodland	Small		436 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		2,136	ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		2,378	ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		2,983	ha
	Rocky Mountain Lodgepole Pine Forest	Small		1,950	ha
	Rocky Mountain Subalpine Dry-Mesic Spruce-Firt Forest and Woodland	Small		1,220	ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		526	ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		53,509	ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		21,451	ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		38	ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		7,198	ha
	Rocky Mountain Lower Montane-Foothill Shrubland	Small		1	ha
	Northern Rocky Mountain Lower Montane Foothill and Valley Grassland	Small		4,212	ha
	Southern Rocky Mountain Montane-Subalpine Grassland	Small		552	ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		186	ha
	North American Arid West Emergent Marsh	Small		85	ha
	Rocky Mountain Alpine-Montane Wet Meadow	Small		386	ha
	Western Great Plains Open Freshwater Depression Wetland	Small		46	ha
	Columbia Plateau Vernal Pool	Small		10	ha
	Western Great Plains Saline Depression Wetland	Small		959	ha
	Riparian	Linear		2,558	ha
	Inter-Mountain Basins Greasewood Flat	Large		305	ha
	Western Great Plains Floodplain	Linear		234	ha
	Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )		G5	217
Ferruginous Hawk ( <i>Buteo regalis</i> )			G4	1	count
Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )			G4	2,915	ha
Mountain Plover ( <i>Charadrius montanus</i> )			G3	1	count
Mammals	Elk ( <i>Cervus canadensis</i> )		G5	69,303	ha
	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	77,580	ha
	Swift Fox ( <i>Vulpes velox</i> )		G3	1	count
	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )		G4	1,263	ha
Plants	Everts Waferparsnip ( <i>Cymopterus evertii</i> )		G2G3	4	count
	Absaroka Beardtongue ( <i>Penstemon absarokensis</i> )		G2	14	count
	Shoshonea ( <i>Shoshonea pulvinata</i> )		G2G3	16	count
	North Fork Easter Daisy ( <i>Townsendia condensata</i> var. <i>anomala</i> )		G4T2	15	count



### 124 McCullough Peaks

Size (hectares): 17,000 State(s): Wyoming  
 Size (acres): 42,008 % Public: 94%

Section(s): 1 2 3 4 5  
 x - - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		1 ha
	Inter-Mountain Basins Cliff and Canyon	Small		279 ha
	Inter-Mountain Basins Shale Badland	Small		5,255 ha
	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		0 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		63 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		8,587 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		18 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		2,112 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.



## Appendix H. Conservation Area Summaries

Terr Ecosys	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large	243	ha	
	Northern Rocky Mountain Lower Montane Foothill and Valley Grassland	Small	6	ha	
	Western Great Plains Open Freshwater Depression Wetland	Small	1	ha	
	Western Great Plains Saline Depression Wetland	Small	8	ha	
	Riparian	Linear	147	ha	
	Inter-Mountain Basins Greasewood Flat	Large	157	ha	
	Western Great Plains Floodplain	Linear	3	ha	
Bird	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	1,175	ha



### 125 Heart Mountain

Size (hectares): 4,000 State(s): Wyoming  
 Size (acres): 9,884 % Public: 24%

Section(s): 1 2 3 4 5  
 x - - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		13 ha
	Inter-Mountain Basins Shale Badland	Small		146 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		71 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		1,156 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		0 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		44 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		1 ha
	Northern Rocky Mountain Lower Montane Foothill and Valley Grassland	Small		0 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		1 ha
	Western Great Plains Saline Depression Wetland	Small		6 ha
	Riparian	Linear		8 ha
Bird	Inter-Mountain Basins Greasewood Flat	Large		23 ha
	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	764 ha



### 126 Dry Bear Creek

Size (hectares): 7,000 State(s): Wyoming  
 Size (acres): 17,297 % Public: 95%

Section(s): 1 2 3 4 5  
 x - - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Active and Stabilized Dune	Matrix		0 ha
	Inter-Mountain Basins Cliff and Canyon	Small		402 ha
	Inter-Mountain Basins Shale Badland	Small		1,310 ha
	Rocky Mountain Aspen Forest and Woodland	Small		1 ha
	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		28 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		21 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		4,243 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		22 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		770 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		34 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		1 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		0 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	Western Great Plains Saline Depression Wetland	Small	1	ha
	Riparian	Linear	102	ha
	Inter-Mountain Basins Greasewood Flat	Large	53	ha
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )	G5	1	count
	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )	G4	1,917	ha
	Mountain Plover ( <i>Charadrius montanus</i> )	G3	2	count
Mammals	Elk ( <i>Cervus canadensis</i> )	G5	2,807	ha
	Mule Deer ( <i>Odocoileus hemionus</i> )	G5	5,865	ha
	Pronghorn ( <i>Antilocapra americana</i> )	G5	2,559	ha



### 127 Pat O'Hara Creek

Size (hectares): 8,000 State(s): Wyoming  
 Size (acres): 19,768 % Public: 71%

Section(s): 1 2 3 4 5  
 x - - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		0 ha
	Inter-Mountain Basins Shale Badland	Small		293 ha
	Rocky Mountain Aspen Forest and Woodland	Small		0 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		5,647 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		31 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		436 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		256 ha
	Northern Rocky Mountain Lower Montane Foothill and Valley Grassland	Small		95 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		19 ha
	Western Great Plains Saline Depression Wetland	Small		21 ha
	Riparian	Linear		280 ha
	Inter-Mountain Basins Greasewood Flat	Large		354 ha
	Western Great Plains Floodplain	Linear		140 ha
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )		G5	5 count
	Greater Sage Grouse (core areas) ( <i>Centrocercus urophasianus</i> )		G4	6,399 ha
	Mountain Plover ( <i>Charadrius montanus</i> )		G3	42 count
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )		G5	1,852 ha



### 128 Bighorn Canyon

Size (hectares): 18,000 State(s): Wyoming  
 Size (acres): 44,479 % Public: 87%

Section(s): 1 2 3 4 5  
 x - - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		9 ha
	Inter-Mountain Basins Shale Badland	Small		1,005 ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		2 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		27 ha
	Rocky Mountain Ponderosa Pine Woodland and Savanna	Small		53 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		65 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		6,575 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

## Appendix H. Conservation Area Summaries

Terr Ecosys	Inter-Mountain Basins Montane Sagebrush Steppe	Large	251	ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large	1,806	ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix	25	ha
	Rocky Mountain Alpine-Montane Wet Meadow	Small	0	ha
	Western Great Plains Open Freshwater Depression Wetland	Small	278	ha
	Western Great Plains Saline Depression Wetland	Small	2,137	ha
	Riparian	Linear	177	ha
	Inter-Mountain Basins Greasewood Flat	Large	1,503	ha
	Western Great Plains Floodplain	Linear	746	ha
	Amphibian	Northern Leopard Frog ( <i>Rana pipiens</i> )	G5	84
Bird	Bald Eagle ( <i>Haliaeetus leucocephalus</i> )	G5	39	count
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )	G5	2,414	ha
	Pronghorn ( <i>Antilocapra americana</i> )	G5	4,362	ha
	White tailed Prairie Dog ( <i>Cynomys leucurus</i> )	G4	28	ha



### 129 Pryor Mountains

Size (hectares):	13,000	State(s):	Montana, Wyoming	Section(s):	<u>1</u> <u>2</u> <u>3</u> <u>4</u> <u>5</u>
Size (acres):	32,124	% Public:	96%		x - - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Cliff and Canyon	Small		70 ha
	Inter-Mountain Basins Shale Badland	Small		1,267 ha
	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		59 ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		128 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		351 ha
	Rocky Mountain Lodgepole Pine Forest	Small		1 ha
	Rocky Mountain Ponderosa Pine Woodland and Savanna	Small		98 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		16 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		2,567 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		117 ha
	Inter-Mountain Basins Mat Saltbush Shrubland	Large		2,063 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		1 ha
	Rocky Mountain Lower Montane-Foothill Shrubland	Small		18 ha
	Northern Rocky Mountain Lower Montane Foothill and Valley Grassland	Small		2 ha
	Southern Rocky Mountain Montane-Subalpine Grassland	Small		2 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		1,575 ha
	North American Arid West Emergent Marsh	Small		0 ha
	Western Great Plains Open Freshwater Depression Wetland	Small		5 ha
	Western Great Plains Saline Depression Wetland	Small		33 ha
	Riparian	Linear		113 ha
Inter-Mountain Basins Greasewood Flat	Large		34 ha	
Western Great Plains Floodplain	Linear		105 ha	
Bird	Mountain Plover ( <i>Charadrius montanus</i> )	G3	1	count
Mammals	Mule Deer ( <i>Odocoileus hemionus</i> )	G5	7,446	ha
Plants	Pryor Mountains Bladderpod ( <i>Lesquerella lesicii</i> )	G1	11	count

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Appendix H. Conservation Area Summaries



**130 Sage Creek**

Size (hectares): 1,000 State(s): Montana, Wyoming  
 Size (acres): 2,471 % Public: 100%

Section(s): 1 2 3 4 5  
 x - - - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		11 ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		43 ha
	Rocky Mountain Foothill Limber Pine-Juniper Woodland	Large		6 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		0 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		39 ha
	Northwestern Great Plains Mixedgrass Prairie	Matrix		8 ha
	Western Great Plains Floodplain	Linear		3 ha
	Plants	Absaroka Goldenweed ( <i>Pyrocoma carthamoides</i> var. <i>subsquarrosa</i> )		G4G5T2



**131 John Weller Mesa**

Size (hectares): 1,000 State(s): Colorado  
 Size (acres): 2,471 % Public: 91%

Section(s): 1 2 3 4 5  
 - - x - -

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	Linear		2 ha
	Colorado Plateau Pinyon-Juniper Woodland Shrubland and Savanna	Matrix		499 ha
	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Small		8 ha
	Rocky Mountain Ponderosa Pine Woodland and Savanna	Small		236 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		122 ha
	Inter-Mountain Basins Montane Sagebrush Steppe	Large		2 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		3 ha
	Rocky Mountain Lower Montane-Foothill Shrubland	Small		116 ha
	Inter-Mountain Basins Semi-Desert Grassland	Large		11 ha



**132 Halfway Hollow North**

Size (hectares): 1,000 State(s): Utah  
 Size (acres): 2,471 % Public: 100%

Section(s): 1 2 3 4 5  
 - - - - x

Tax Group	Target Name	Patch Type	G-rank	Amount
Terr Ecosys	Colorado Plateau Mixed Bedrock Canyon and Tableland	Small		4 ha
	Colorado Plateau Pinyon-Juniper Woodland Shrubland and Savanna	Matrix		174 ha
	Inter-Mountain Basins Mixed Salt Desert Scrub	Matrix		3 ha
	Inter-Mountain Basins Big Sagebrush Steppe and Shrubland	Matrix		197 ha
	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	Large		59 ha
	Rocky Mountain Gambel Oak-Mixed Montane Shrubland	Small		0 ha
	Southern Rocky Mountain Montane-Subalpine Grassland	Small		54 ha

Sections: 1 = Bighorn Basin and Owl Creek Mountains; 2 = Central Basin and Hills; 3 = Green River Basin; 4 = Bear Lake; 5 = Uinta Basin.

Systematic Conservation Planning  
in the Wyoming Basins  
2013

