

COT Threat or Data Category	Data and/or Request
Base Data: Surface Ownership (update available October 2014)	
Base Data: Protected areas (PADUS/USGS)	
Conifer Encroachment: Model, Pinyon-Juniper (Conifer and Sagebrush interface, probable encroachment)	BLM Baseline Report 2013
Base Data: PAC, Population and WAFWA MZ boundaries	
Infrastructure: Wind, Communication Towers (FAA vertical structures points, communication towers, turbines, etc.)	
Infrastructure: Fences (range allotment/pasture boundaries used as a surrogate. Some criticism about using this as a source. Update may be available)	BLM Baseline Report 2013
Free-roaming equids: BLM and FS management areas (update may be available, Geocommunicator)	BLM Baseline Report 2013
Base Data: GRSF Current Range (Schroeder et al. 2004)	
Grazing: BLM and FS allotment boundaries (no AUM data, update may be available)	BLM Baseline Report 2013
Fire: Fire Potential Model	
Fire: Perimeters (MTBS 1984-2011, WFDSS 2000-2012, GeoMAC 2000-2013, updates may be available)	
Fire: Perimeters (MTBS 1984-2011, WFDSS 2000-2012, GeoMAC 2000-2013, updates may be available)	
Energy Renewable: BLM Wind ROW (update may be available)	BLM Baseline Report 2013
Energy Renewable: BLM Solar ROWs (update may be available)	BLM Baseline Report 2013
Energy Renewable: BLM Geothermal Leases (update may be available)	BLM Baseline Report 2013
Energy Non-renewable: BLM Mining (No update available, 10/24/14 email FQ)	BLM Baseline Report 2013

Energy Non-renewable: BLM Mining Locatables (Prospecting Permit Apps) (No update available, 10/24/14 email FQ)	BLM Baseline Report 2013
Energy Non-renewable: BLM Subsurface mineral administration (update may be available)	BLM Baseline Report 2013
Energy Non-renewable: BLM Oil Shale Leases (update may be available)	BLM Baseline Report 2013
Energy Non-renewable: BLM Oil and Gas Leases held by production (No update available, 10/24/14 email FQ)	BLM Baseline Report 2013
Energy Non-renewable: BLM Oil and Gas Leases (No update available, 10/24/14 email FQ)	BLM Baseline Report 2013
Energy Non-renewable: BLM Coal Leases (No update available, 10/24/14 email FQ)	BLM Baseline Report 2013
Energy Non-renewable: BLM Areas Closed to OG leasing (update should be available per RMP allocations)	BLM Baseline Report 2013
Energy Non-renewable & Energy Renewable: BLM Valid Existing Rights for Oil & Gas Leases, OG Leases Held by Production, Oil Shale, Federal Geothermal Leases, BLM Wind ROW (updates may be available)	BLM Baseline Report 2013

Base Data: Watershed boundaries - HUC 8

Other

Base Data: BLM Administrative areas

Model Input: Canopy Cover

Infrastructure: Communication Towers from FCC (updates may be available)

Base Data: County Boundaries

Base Data: Sage-Grouse current distribution

Model Input: Climate

Other

Other

Model Input: Disturbance

Base Data: BLM RMP/EIS boundaries

Model Input: Elevation

Other

Other

Fire: GeoMAC

Model Input: Grassland/Herbaceous

Grazing: Allotments not evaluated for LHS

BLM Baseline Report
2013

Grazing: Allotments not meeting LHS

BLM Baseline Report
2013

Climate Change

Climate Change

Climate Change

Base Data: GRSG PPH and PGH

Base Data: GRSG Historic Range

Base Data: GRSG Historic Range

Base Data: GRSG Historic Range

Base Data: GRSG Historic Range

Base Data: GRSG Historic Range

Base Data: GRSG Historic Range

Vegetation

Vegetation

Model Input: Climate

Other

Model Input: Elevation

Other

Other

Base Data: PACs from 2013 COT

Other

Other

Base Data: GRSG Breeding bird density

Model Inputs: Sagebrush

Base Data: GRSG population boundaries COT report

Other

Model Input: Slope percent

Model Input: Soil moisture and temperature

Base Data: State boundaries

Model Input: Terrain roughness

Model Input: Topographic wetness index

Base Data: USFS Ranger Districts

Base Data: USFS Administrative Boundaries

Base Data: WAFWA sage-grouse management zones

Energy Non-renewable: BLM Subsurface mineral administration (updated 2014 version)

Base Data: GRSB 2014 "Proposed" RMP PHMA and GHMA

Energy Non-renewable: Oil and gas pipelines and associated facilities

Population: Greater sage-grouse telemetry locations 2001-2014 at and in the vicinity of the North Antelope Rochelle Mine (NARM) near Wright, WY. Data Call (2014)

Energy Non-renewable & Energy Renewable; Oil and Gas, pipelines, wells, windfarms Data Call (2014)

Infrastructure: Montana Transportation data; Roads, Railroads, Trails Data Call (2014)

Agricultural Conversion: Existing cropland Data Call (2014)

Agricultural Conversion: Existing cropland Data Call (2014)

Agricultural Conversion: Existing cropland Data Call (2014)

Agricultural Conversion: Existing cropland	Data Call (2014)
Base Data: Sagebrush	Data Call (2014)
Fire: Burn severity perimeters	Data Call (2014)
Fire: Burn severity perimeters	Data Call (2014)
Fire: Burn severity perimeters	Data Call (2014)
Base Data: Sagebrush	Data Call (2014)
Fire: GeoMAC areas of wildland fires	Data Call (2014)
Fire: GeoMAC areas of wildland fires	Data Call (2014)
Fire: GeoMAC areas of wildland fires	Data Call (2014)
Base Data: Percent Impervious	Data Call (2014)
Energy Non-renewable: Currently Active Wells	Data Call (2014)
Energy Non-renewable: Wells active in the 10 years prior to 2013	Data Call (2014)
Energy Non-renewable: Wells Plugged and Abandoned in the 10 years prior to 2013	Data Call (2014)
Energy Renewable: Windmills	Data Call (2014)
Energy Non-renewable: Wells currently inactive but were active or producing within the last ten years	Data Call (2014)
Energy Renewable: Geothermal wells	Data Call (2014)
Energy Non-renewable: Wells that were listed as currently active as of 12/31/2013.	Data Call (2014)

Energy Non-renewable: Wells listed as Abandoned General or Plugged and Abandoned within the last ten years.	Data Call (2014)
Energy Non-renewable: Footprints of active coal mines	Data Call (2014)
Energy Non-renewable: Footprints of all of the non-coal producing mines	Data Call (2014)
Infrastructure: Railroads	Data Call (2014)
Infrastructure: Highways	Data Call (2014)
Infrastructure: Major roads	Data Call (2014)
Infrastructure: Surface Streets	Data Call (2014)
Grazing: Allotments that failed Land Health Standards from 1998 to 2012	Data Call (2014)
Grazing: BLM grazing allotment boundaries	Data Call (2014)
Grazing: BLM grazing pasture boundaries	Data Call (2014)
Base Data: BSU base data for Idaho	Data Call (2014)
Base Data: BSA proposed data for NV and CA	Data Call (2014)
Base Data: GRSB EIS management zones for Colorado	Data Call (2014)
Base Data: FEIS PAC for Oregon	Data Call (2014)
Base Data: BSUs for Utah	Data Call (2014)
Base Data: Core Areas for Wyoming	Data Call (2014)
Grazing: Allotments and Pastures Authorized and Billed for grazing	Data Call (2014)

Mining: Quarries, Strip Mines and Gravel Pits	Data Call (2014)
Infrastructure: Merged BLM Monitoring buffers for Oil/Gas, Coal, Windmills, Solar, Geothermal, Roads, Rail, Transmission Lines, Communication Towers, Other Vertical, Fire Perimeters and Other	Data Call (2014)
Base Data: GRSG 2015 Status Review IPAs	
Infrastructure: Merged BLM Monitoring buffers for Oil/Gas, Coal, Windmills, Solar, Geothermal, Roads, Rail, Transmission Lines, Communication Towers, Other Vertical, and Other	Data Call (2014)
Base Data: Sagebrush	Data Call (2014)
Conifer Encroachment: Conifer adjacent to sagebrush	Data Call (2014)
Infrastructure and Oil and Gas: Disturbance footprints for Oil and Gas and Wind Turbines	Data Call (2014)
Infrastructure: Points and Disturbance footprints for Vertical Structures, Railroad Lines	Data Call (2014)
Oil and Gas: Closed, Alternative A	Data Call (2014)
Population: Southern Nevada Water Authority Greater Sage-Grouse Telemetry Study in Spring Valley, Nevada, 2008-2010	Data Call (2014)
Disease or predation: West Nile Virus Monitoring and Management Program	Data Call (2014)
Infrastructure: other natural or man-made factors affecting a species' continued existence	Data Call (2014)
Energy: Natural Gas Power Plants buffered to BLM direct area of influence	Data Call (2014)
Energy: Oil Power Plants buffered to BLM direct area of influence	Data Call (2014)
Energy: Solar Power Plants buffered to BLM direct area of influence	Data Call (2014)
Energy: Wind Power Plants buffered to BLM direct area of influence	Data Call (2014)
Infrastructure: Power Lines	PLATTS data subscription: ONLY 5 FWS users

Infrastructure: Wind, Communication Towers (FAA vertical structures points, communication towers, turbines, etc.)

Input Directly

Title

Federal Surface Management Agency (from USGS OFR 2013-1098: Summary of Science; Activities; Programs and Policies that Influence the Rangewide Conservation of Greater Sage-Grouse)

USGS Protected Area Conservation Status (PADUS)

Sagebrush and PJ/Conifer Interface derived rasters

GRSG 2015 USFWS Status Review Base Data

Obstacles to Aviation Points; Processed Digital Obstacles File from the FAA
Fences (BLM) - Grazing Allotments and Pastures (from USGS OFR 2013-1098: Summary of Science; Activities; Programs and Policies that Influence the Rangewide Conservation of Greater Sage-Grouse)

Wild Horse and Burro management areas (USFS and BLM) (from USGS OFR 2013-1098: Summary of Science; Activities; Programs and Policies that Influence the Rangewide Conservation of Greater Sage-Grouse)

GRSG_2015_USFWS_StatusReview_CurrentRange
Grazing - Allotments (from USGS OFR 2013-1098: Summary of Science; Activities; Programs and Policies that Influence the Rangewide Conservation of Greater Sage-Grouse)

Wildland Fire Potential - Classified and Continuous data for the U.S.; v2012

Fire Perimeter and Conifer Expansion data sets (from Chambers et al. 2014)

WFDSS; MTBS; and GeoMAC Fire perimeter raster summaries for three time periods
Wind Energy Right of Ways - Approved and Authorized (from USGS OFR 2013-1098: Summary of Science; Activities; Programs and Policies that Influence the Rangewide Conservation of Greater Sage-Grouse)

Solar Right of Ways - Approved and Authorized (from USGS OFR 2013-1098: Summary of Science; Activities; Programs and Policies that Influence the Rangewide Conservation of Greater Sage-Grouse)

Geothermal Leases and Approved Projects (from USGS OFR 2013-1098: Summary of Science; Activities; Programs and Policies that Influence the Rangewide Conservation of Greater Sage-Grouse)

Locatable Mining Claims (from USGS OFR 2013-1098: Summary of Science; Activities; Programs and Policies that Influence the Rangewide Conservation of Greater Sage-Grouse)

Non-energy Minerals & Prospecting Permit Applications (from USGS OFR 2013-1098: Summary of Science; Activities; Programs and Policies that Influence the Rangewide Conservation of Greater Sage-Grouse)

BLM Subsurface Minerals Administration (from USGS OFR 2013-1098: Summary of Science; Activities; Programs and Policies that Influence the Rangewide Conservation of Greater Sage-Grouse)

Oil Shale Leases (from USGS OFR 2013-1098: Summary of Science; Activities; Programs and Policies that Influence the Rangewide Conservation of Greater Sage-Grouse)

Oil and Gas leases - Held by Production (from USGS OFR 2013-1098: Summary of Science, Activities, Programs and Policies that Influence the Rangewide Conservation of Greater Sage-Grouse)

Oil and Gas leases (from USGS OFR 2013-1098: Summary of Science; Activities; Programs and Policies that Influence the Rangewide Conservation of Greater Sage-Grouse)

Coal Leases (from USGS OFR 2013-1098: Summary of Science; Activities; Programs and Policies that Influence the Rangewide Conservation of Greater Sage-Grouse)

Federal Fluid Minerals - Areas Closed to Oil and Gas Leasing (from USGS OFR 2013-1098: Summary of Science; Activities; Programs and Policies that Influence the Rangewide Conservation of Greater Sage-Grouse)

BLM Valid Existing Rights, BER 2013

12 Digit Watershed Boundary Dataset in HUC8

Additional F&W Service GRSG Support

BLM Administrative Areas

Canopy Cover from LANDFIRE 1.2 Fuels database

Communication Tower Points from the FCC

County boundaries

Current Distribution of the Sage-grouse in North America

Degree-days > 5 degrees C

Distance From PACs to Nearest GRSG Biologist

Distance From Schroeder SG Range to Nearest GRSG Biologist

Disturbance Index (no agriculture) based on NLCD data

EIS Boundaries (from BLM GRSG planning effort)

Elevation 4 mi. Focal mean based on 120 m aggregates (mean) of 30 m base data.
NED NHD Plus (units are cm to allow integer calculations)

ES Offices supporting GRSG

F&W Service Supported SWCD Positions supporting GRSG

Fire boundaries

Grassland/Herbaceous extracts from LANDFIRE 1.2

Grazing - Allotments not evaluated for Land Health Standards (from USGS OFR 2013-1098: Summary of Science; Activities; Programs and Policies that Influence the Rangewide Conservation of Greater Sage-Grouse)

Grazing - Allotments not meeting land health standards for habitat (from USGS OFR 2013-1098: Summary of Science; Activities; Programs and Policies that Influence the Rangewide Conservation of Greater Sage-Grouse)

GRSG Bioclimatic Change Summary - BLM Rapid Ecoregional Assessments

GRSG Bioclimatic Change Summary (Current) - BLM Rapid Ecoregional Assessments

GRSG Bioclimatic Change Summary (Predicted) - BLM Rapid Ecoregional Assessments

GRSG Preliminary Priority Habitat - GRSG Preliminary General Habitat

Historic GSG Range

Historic GSG Range 10km Buffer

Historic GSG Range 10km Buffer HUC12

Historic GSG Range 10km Buffer HUC12 States Counties

Historic GSG Range 10km Buffer States and Counties

Historic GSG Range 10km Buffer States Counties HUC12

LANDFIRE Existing Vegetation Type (EVT) v 1.2 (2010)

LANDFIRE Forest Canopy Cover (CC) Fuels v. 1.2 (2010)

Mean Annual Precipitation; 1961 to 1990

Monitoring_Points

National Elevation Dataset (NED) data from NHD Plus

OToole Allotments

PFW Positions supporting GRSG

Priority areas for conservation (from the 2013 Conservation Objectives Team Report)

Proposed PFW Positions to support

Proposed SGI SWAT Positions to support GRSG

Range-wide breeding bird density for Greater sage-grouse (from Doherty et al. 2010)

Sagebrush raster extracts from LANDFIRE 1.2.

Sage-grouse population boundaries (from the Conservation Objectives Team Report)

SGI SWAT Positions supporting GRSG

Slope Percent - derived rasters from NHD Plus NED data

Soil moisture and temperature regimes: Resistance and Resiliency Rankings from Chambers et al. 2014

State boundaries

Terrain Roughness from Elevation Standard Deviation

Topographic Wetness Index Plus (derived using LCAP)

USFS Ranger Districts

USFS System Administrative Boundaries

WAFWA sage-grouse management zones (Original)

BLM subsurface mineral administration compiled in 2014 from BLM state offices
GRSG Priority Habitat Management Areas (PHMA, formerly PPH) and General
Habitat Management Areas (GHMA, formerly PGH) DRAFT Proposed RMP habitat
data (Record of Decision habitat data for Upper Missouri River Breaks N.M.)

IHS Oil & Gas pipelines and associated facilities data (downloaded 8/2014)

North Antelope Rochelle Mine (NARM) GRSG Locations 2001-2014 and 2013 report

Montana Energy and Development Layers

Montana Transportation Framework Layers

Cropland Data Layer 2009

Cropland Data Layer 2010

Cropland Data Layer 2011

Cropland Data Layer 2012

Sagebrush biophysical settings capability

Burn Severity 2010

Burn Severity 2011

Burn Severity 2012

Sagebrush existing vegetation

Areas of wildland fires 2010

Areas of wildland fires 2011

Areas of wildland fires 2012

National Landcover Database (NLCD) Percent Developed Imperviousness data 2011

Habitat Degradation Energy Threats

Habitat Degradation Energy Threats

Habitat Degradation Energy Threats

Habitat Degradation Energy Threats

Habitat Degradation Energy Threats

Habitat Degradation Energy Threats

Habitat Degradation Energy Threats

Habitat Degradation Energy Threats

Habitat Degradation Energy Threats

Habitat Degradation Energy Threats

Habitat Degradation Infrastructure Threats

Habitat Degradation Infrastructure Threats

Habitat Degradation Infrastructure Threats

Habitat Degradation Infrastructure Threats

Allotment_LHS_Data.zip: Excel file for join to allotment polygon data representing allotments that failed Land Health Standards (LHS) from 1998 to 2012

BLM grazing allotment boundaries

BLM grazing pasture boundaries

Significant Units for Calculating Anthropogenic Disturbance and Adaptive Management Habitat Trigger for the Idaho and Southwestern Montana Greater-Sagegrouse EIS

NDOW Population Management Unit shapefile by combining relevant PMUs based on current understanding of sage-grouse populations. This file is a draft for delivery to the BLM for review purposes.

NW CO Greater Sage Grouse EIS Dataset was initially developed for the Gunnison sage grouse Rangewide Conservation Plan and the refined data was used in the Colorado Statewide Conservation Plan.

Greater Sage-grouse Resource Management Plan Amendments. The Core Area maps and data were developed as one component of the Conservation Strategy for sage-grouse in Oregon. Specifically, these data provide a tool in planning and To illustrate Utah Greater Sage Grouse Management Areas and Wyoming Core Habitat Areas in the BLM Greater Sage-Grouse Utah Sub-Region.

<http://www.blm.gov/wo/st/en/prog/more/sagegrouse.html>

To delineate sg breeding and nesting habitat in Wyoming. Special consideration was given to habitat that was not already impacted by human influences (oil and gas, subdivisions, mining, wind, etc.)

BLM Rangeland Administration System (RAS) spreadsheet output to be joined with allotment and pasture polygons

Quarries-Strip Mines-Gravel Pits from LANDFIRE EVT v1.2

All buffered habitat degradation disturbance layers merged.

All buffered habitat degradation disturbance layers merged. Fire is not included

Rasters used to calculate sagebrush habitat availability for baseline GrSG monitoring

Rasters used to calculate sagebrush habitat availability for baseline GrSG monitoring

Habitat Degradation and Disturbance related to Energy

Habitat Degradation and Disturbance related to other infrastructure

Fluid Mineral Leasing (O&G), Closed, Alternative A No Action

Southern Nevada Water Authority Greater Sage-Grouse Telemetry Study in Spring Valley, Nevada, 2008-2010

This threat is addressed through implementing a West Nile Virus monitoring and management program to reduce the threat of disease to Douglas Core Area sage grouse populations.

continued existence. This threat was addressed by implementing a traffic plan to minimize intrusions from man-made noise and activity during sage grouse breeding and nesting periods in the Douglas Core Area, Converse County, Wyoming.

Habitat Degradation Energy buffered Power Plants data from Platts: Gas, Oil, Solar and Wind power plants

Habitat Degradation Energy buffered Power Plants data from Platts: Gas, Oil, Solar and Wind power plants

Habitat Degradation Energy buffered Power Plants data from Platts: Gas, Oil, Solar and Wind power plants

Habitat Degradation Energy buffered Power Plants data from Platts: Gas, Oil, Solar and Wind power plants

North American Electric Transmission Lines, Electric Power Grid, Transmission Line Layer - Platts subscription

Obstacles to Aviation Points; Processed Digital Obstacles File from the FAA

Body

Depicts surface management within the States that contain greater sage-grouse (GRSG) habitat. Use the link on the BLM server at: http://www.landscape.blm.gov/BER_layerpackages/BLM_SMA_FS_update.lpk

occupancy. This dataset identifies sagebrush land cover cells which are within 120 meters of conifer or PJ land cover cells, as categorized in the GAP/ReGAP land cover raster, published on 10-26-2010. See file metadata for full information for derived rasters: PJint4miFM: The vectorized layer provided by the BLM was converted to a 30 meter involving the FWS 2015 Status Review of the Greater Sage-Grouse. Data sets include 1) Populations, 2) PACs, and 3) Management Zones. These data sets have been updated and/or modified from the original WAFWA data and COT Report. Data sets have been designed to work together and stay in line with other efforts going on with Federal in the United States, with limited coverage of the Pacific, the Caribbean, Canada, and Mexico. The obstacles are assigned unique numerical identifiers, accuracy codes, and are listed in order by state. To download a file, right-click, then select "Save" / "Save As" / "Save Target As" to save the desired file to your computer. After downloading, use an study area. Link to data on the BLM Server:

http://www.blm.gov/pgdata/etc/medialib/blm/wo/Communications_Directorate/public_affairs/landscape_approach/documents1.Par.38024.File.dat/updated%20BER%20catalog.pdf

BLM managed Wild Horse & Burro Herd Areas, Herd Management Areas, & Historical Areas, within the GRSG study area, links to data on BLM server available

here: http://www.blm.gov/pgdata/etc/medialib/blm/wo/Communications_Directorate/public_affairs/landscape_approach/documents1.Par.38024.File.dat/updated%20BER%20catalog.pdf
the Greater Sage-Grouse. Current Range is defined as areas believed to be currently occupied. Therefore this data set represents occupied habitat for Greater Sage-Grouse. Current range for this data set was created by merging 1) Schroeder et al. 2004 current range and 2) Priority Areas for Conservation (PACs) identified in the Conservation the BLM Server:

http://www.blm.gov/pgdata/etc/medialib/blm/wo/Communications_Directorate/public_affairs/landscape_approach/documents1.Par.38024.File.dat/updated%20BER%20catalog.pdf

product produced by the USDA Forest Service, Fire Modeling Institute that is intended to be used in analyses of wildfire risk or hazardous fuels prioritization at large landscapes (100s of square miles) up through regional or national scales. The WFP map builds upon, and integrates, estimates of burn probability (BP) and conditional probabilities of

Fire Perimeter and Conifer Expansion data sets with email from Amarina Wuenschel. Provided for the purpose of range-wide GRSG occupancy modeling.

provided from the study by Chambers et al. and was converted from vector to raster data at 30 meters, aggregated for 120m pixels (mean) for processing with a 4-mile focal mean. F00084miSD: Fire perimeter data from 2000 to 2008 was provided from the study by Chambers et al. and was converted from vector to raster data at 30 meters, aggregated for data on the BLM Server:

http://www.blm.gov/pgdata/etc/medialib/blm/wo/Communications_Directorate/public_affairs/landscape_approach/documents1.Par.38024.File.dat/updated%20BER%20catalog.pdf

BLM Server:

http://www.blm.gov/pgdata/etc/medialib/blm/wo/Communications_Directorate/public_affairs/landscape_approach/documents1.Par.38024.File.dat/updated%20BER%20catalog.pdf

data on the BLM

Server: <https://www.sciencebase.gov/catalog/item/53e94592e4b0ccfda671491b?community=Sage+Grouse+Conservation+Status+2015>

12282012, Locatable Mining Claims - Depicts consolidated locatable mining claims from data submitted on 12/27/2012., Link to data on BLM

Server: http://www.blm.gov/pgdata/etc/medialib/blm/wo/Communications_Directorate/public_affairs/landscape_approach/documents1.Par.38024.File.dat/updated%20BER%20catalog.pdf

data from BLM states responding to the WO 300 data call during the time period of November 2011 through May 2012. Link to data on the BLM Server:
http://www.blm.gov/pgdata/etc/medialib/blm/wo/Communications_Directorate/public_affairs/landscape_approach/

Depicts Federal sub-surface mineral rights for the States of Colorado (CO), Montana (MT), Utah (UT), & Wyoming (WY). Find at BLM server: http://www.landscape.blm.gov/BER_layerpackages/BLM_All_subsurf_rights_dis.lpk

Link to data on the BLM Server:

http://www.blm.gov/pgdata/etc/medialib/blm/wo/Communications_Directorate/public_affairs/landscape_approach/documents1.Par.38024.File.dat/updated%20BER%20catalog.pdf

Depicts oil & gas leases held by production on BLM lands within the GRS study area. Link to data on the BLM Server:
http://www.blm.gov/pgdata/etc/medialib/blm/wo/Communications_Directorate/public_affairs/landscape_approach/documents1.Par.38024.File.dat/updated%20BER%20catalog.pdf

Depicts oil & gas leases on BLM lands within the GRS study area Link to data on the BLM Server:

http://www.blm.gov/pgdata/etc/medialib/blm/wo/Communications_Directorate/public_affairs/landscape_approach/documents1.Par.38024.File.dat/updated%20BER%20catalog.pdf

-Depicts coal leases surface direct from data submitted for MT, ND, & SD on January 2nd 2013. -Depicts consolidated submissions for underground and surface coal lease data from BLM states responding to the WO 300 data call on January 2nd 2013. Use the link on th

May 2012. Link to data on the BLM Server:

http://www.blm.gov/pgdata/etc/medialib/blm/wo/Communications_Directorate/public_affairs/landscape_approach/documents1.Par.38024.File.dat/updated%20BER%20catalog.pdf

that was also sent with this dataset called "wbd_state_metadata.html." This dataset is intended to be used as a tool for water-resource management and planning activities, particularly for site-specific and localized studies requiring a level of detail provided by large-scale map information.

Polygon features for active BLM Administrative areas.

percents aggregated up from 30 m native data to show mean percent within 120 m cells CC4miFM: 4 mile focal mean on Canopy cover percents aggregated up from 30 m native data to show mean percent within 120 m cells CC4miSD: 4 mile focal standard deviation on Canopy cover percents aggregated up from 30 m native data to show mean percent sets, you will be able to determine the locations and limited technical details of existing towers the FCC collects data on (i.e. Cellular, Paging, Microwave, AM, FM, etc...). This information can be extremely helpful in conducting analysis such as; current service deployment, need/feasibility determinations of new services, co-location of antenna information from the U.S. Census Bureau's Master Address File / Topologically Integrated Geographic Encoding and Referencing (MAF/TIGER) Database (MTDB). The MTDB represents a seamless national file with no overlaps or gaps between parts, however, each TIGER/Line shapefile is designed to stand alone as an independent data set, or they can range, of the Greater Sage-grouse (*Centrocercus urophasianus*) and Gunnison Sage-grouse (*Centrocercus minimus*) in Western North America. This data was initially researched and compiled by Dr. Michael A. Schroeder, research biologist for the Washington State Department of Fish and Wildlife. The initial draft of current and historic range data See data file for full metadata: dd5120m.img: Degree-days >5 degrees C (based on mean monthly temperature) The original ~ 1km data was resampled (bilinear) to 120m. Original data found at: Climate Spline Models:
<http://forest.moscowfsl.wsu.edu/climate/>

data to show proportion of disturbance types within 120 m cells Dis14_4mFM: 4 mile focal mean on disturbance types aggregated up from 30 m native data to show proportion of that type within 120 m cells Dis14_4mSD: 4 mile focal standard deviation on disturbance types aggregated up from 30 m native data to show proportion of that type within

The polygon features for Land Use Planning Area Boundary Existing Polygons features.

Please see metadata for complete information.

Dynamic map service for GeoMAC application

extracted from LANDFIRE EVT 1.2 and were aggregated (mean) to get proportion of each new 120 meter grid cell with Grassland (physiognomy) and Herbaceous (lifeform) EVT values. GH4miFM: A four mile focal mean of the grassland/herbaceous 120 meter grid proportions GH4miSD: A four mile focal standard deviation of the GSSP National Allotment database on 6/28/12. Of the 10623 allotment records from the spreadsheet, 158 were not able to be mapped. Link to data on the BLM Server:

http://www.blm.gov/pgdata/etc/medialib/blm/wo/Communications_Directorate/public_affairs/landscape_approach/grazing, joined to the GSSP National Allotment database. Link to data on the BLM Server:

http://www.blm.gov/pgdata/etc/medialib/blm/wo/Communications_Directorate/public_affairs/landscape_approach/documents1.Par.38024.File.dat/updated%20BER%20catalog.pdf

change in suitable bioclimate for GRSG by looking at the difference between current and A2 2050s. Value coding:-3 = Lost bioclimate; 0 = absence (current and future); 1= maintained bioclimate; 4 = gained bioclimate. See file metadata for additional data information.

predicted suitable bioclimate using statistical correlations between known habitat and current climate (1950-1999 average). 0=Absence; 1=Presence*see Maxent output pdf for details on model parameters. See file metadata for additional data information.

From BLM REAs: <https://connect.doi.gov/blm/NOC/REA/Pages/default.aspx>. This dataset is a raster of predicted suitable bioclimate using statistical correlations between known habitat and current climate (1950-1999 average) , and then projecting that niche into the future. See file metadata for additional data information.

http://www.blm.gov/wo/st/en/prog/more/sagegrouse/documents_and_resources.html (GRSG Preliminary PRIORITY Habitat (PPH) and Preliminary GENERAL Habitat (PGH) GIS Data as of 3/21/2012 CA:

20120229_003_SageGrouse_Habitat (California Fish and Game and California BLM cooperatively defined, habitat, or range, of the Greater Sage-grouse (*Centrocercus urophasianus*) and Gunnison Sage-grouse (*Centrocercus minimus*) in Western North America. This data was initially researched and compiled by Dr. Michael A. Schroeder, research biologist for the Washington State Department of Fish and Wildlife. The initial draft of current and historic current and historic distribution of potential habitat, or range, of the Greater Sage-grouse (*Centrocercus urophasianus*) and Gunnison Sage-grouse (*Centrocercus minimus*) in Western North America. This data was initially researched and compiled by Dr. Michael A. Schroeder, research biologist for the Washington State Department of Fish that was also sent with this dataset called "wbd_state_metadata.html." This dataset is intended to be used as a tool for water-resource management and planning activities, particularly for site-specific and localized studies requiring a level of detail provided by large-scale map information.

Historic_GSG_Range_10km_Buffer_States_and_Counties. The HUC12 features are shown and the attributes include those states and counties that each HUC12 feature overlaps. For a link to more detailed processing information on your state's watershed data, please refer to links within the file that was also sent with this dataset called

The state and county features that intersect the Historic_GSG_Range_10km_Buffer Counties of the Continental United States at high resolution.

Historic_GSG_Range_10km_Buffer_HUC12. The state and county features are shown and the attributes include those HUC12 features that each state and county feature overlaps. It is this feature class that will be used to generate the drop down list. Counties of the Continental United States at high resolution.

layer represents the species composition currently present at a given site. Vegetation map units are primarily derived from NatureServe's Ecological Systems classification, which is a nationally consistent set of mid-scale ecological units. Additional units are derived from NLCD, National Vegetation Classification Standard (NVCS) Alliances, and LANDFIRE describes the percent cover of the tree canopy in a stand. Specifically, canopy cover describes the vertical projection of the tree canopy onto an imaginary horizontal surface representing the ground's surface. CC is generated using a predictive modeling approach that relates Landsat imagery and spatially explicit biophysical gradients to calculated See the file metadata for additional details. adi120m: Resampled mean annual precipitation. The original ~ 1km data was resampled (bilinear) to 120m. Original data found at: Climate Spline Models: <http://forest.moscowfsl.wsu.edu/climate/>

ready geospatial data sets that incorporate many of the best features of the National Hydrography Dataset (NHD), the National Elevation Dataset (NED), and the Watershed Boundary Dataset (WBD). NHDPlus Version 1 (NHDPlusV1) was released in 2006. NHDPlus Version 2 (NHDPlusV2) began its public debut in June 2012.

provided .PDF map in order to map where the area of interest (the ranch) is relative to PACs, core, and pph pgh to determine if this is a high conservation value area where we should consider putting together a conservation agreement.

merged multi-state Sage-Grouse Priority Areas for Conservation (PACs) for CA, CO, ID, MT, ND, NV, OR, SD, UT, WA and WY as identified in the 2013 Sage-Grouse Conservation Objectives Team (COT) Report. PACs represent areas identified as essential for the long-term conservation of the Sage-Grouse. The COT determined that the PACs are key

See metadata and .PDF report for additional information.

aggregated up from 30 m native data to show proportion of that type within 120 m cells AllSB4miFM: 4 mile focal mean on All sagebrush types aggregated up from 30 m native data to show proportion of that type within 120 m cells AllSB4miSD: 4 mile focal standard deviation on All sagebrush types aggregated up from 30 m native data to show collaborative work done by the 2012 Sage-Grouse Conservation Objectives Team (COT). The COT consisted of State and FWS representatives tasked with developing conservation objectives by defining the degree to which the threats to Sage-Grouse need to be ameliorated to conserve the Sage-Grouse so that it is no longer in danger of extinction or

See individual file metadata for more information. Slope4miFM: 4 mi. Focal mean based on 120 m aggregates (mean) of 30 m percent slope derived from NED, NHD Plus elevation base data. Slope4miSD: 4 mi. Focal standard deviation based on 120 m aggregates (mean) of 30 m percent slope derived from NED, NHD Plus elevation base data. <https://www.sciencebase.gov/catalog/folder/538e5aa9e4b09202b547e56c?community=LC+MAP+-+Landscape+Conservation+Management+and+Analysis+Portal>. Ranking categories 1 - 5 of relative soil moisture and temperature regimes, resistance and resiliency. The higher the number, the more Resistance and Resiliency. See information from the U.S. Census Bureau's Master Address File / Topologically Integrated Geographic Encoding and Referencing (MAF/TIGER) Database (MTDB). The MTDB represents a seamless national file with no overlaps or gaps between parts, however, each TIGER/Line shapefile is designed to stand alone as an independent data set, or they can

ArcToolbox routine (see Tools and Scripts) was run on NHD Plus NED 30 meter elevation data, which was then aggregated to 120 m (mean). A 4 mile focal mean was then run on the 120 m data. TWI4miSD: The Topographic Wetness Index Plus LCAP ArcToolbox routine (see Tools and Scripts) was run on NHD Plus NED 30 meter elevation provides display, identification, and analysis tools for determining current boundary information for Forest Service managers, GIS Specialists, and others. Copyright Text: The Forest Service uses the most current and complete data available. GIS data and product accuracy may vary. They may be: developed from sources of differing accuracy, areas encompass private lands, other governmental agency lands, and may contain National Forest System lands within the proclaimed boundaries of another administrative unit. All National Forest System lands fall within one and only one Administrative Forest Area. This map service provides display, identification, and analysis tools for depicts a preliminary version of the management zone boundaries for Greater and Gunnison sage-grouse in the western United States and Canada. These boundaries were digitized from a hand drawn figure originally created by the Western Association of Fish and Wildlife Agencies' (WAFWA) Sage-grouse Conservation Planning Framework Team for Data includes mineral administration by BLM for the states of CO, MT, ND, SD, UT, and WY. Data compiled at the BLM National Operations Center in 2014 from state BLM submitted data. Please read display guidelines and individual metadata found in the file geodatabase.

habitat data for Upper Missouri River Breaks N.M.) submitted to the BLM, NOC, Wildlife Habitat Spatial Analysis Lab between March 5th 2014 and August 7th 2014. These data were projected as needed. The "EIS_Hab" field was added and calculated to each submitted data set in order to document the submitting EIS name, habitat type and EIS storage and offloading (FPSO) vessel; gas distribution supply LNG, gas plants, industrial plants, LNG liquification plants, methanol plants, petrochemical plants, pipelines, ports, pumping stations, refineries, regasification plants, storages, and synfuel plants.

of the North Antelope Rochelle Mine (NARM) near Wright, WY. Attribute fields include: date, group size, type of observation, and remarks. The type of observation field (Type) is coded as follows: L = Live location, M = Mortality location, N = Nest location, RN = Renest location, R = Rough (approximate) location, S = Sign (track, feces, etc.) only, SC Metadata. US Bureau of Land Management. Oil and Gas Development Potential. ELECTTRANS100KVUP - See Metadata. MT Dept of Env Quality. Large electrical transmission lines KXLPIPELINE - See Metadata. MT Dept of Env Quality. Proposed pipeline layer. MATL_APPROVED_ROUTE - See Metadata. MT Dept of Env Quality. Proposed electrical Railroads - See Metadata. MT Spatial Data Infrastructure transportation layers. Railroad locations. Roads - See Metadata. MT Spatial Data Infrastructure transportation layers. Road locations. Trails - See Metadata. MT Spatial Data Infrastructure transportation layers. Trail locations.

This raster is an extraction from the 2009 Cropland Data Layer (CDL) of values representing agricultural areas within the Greater Sage-Grouse planning strategy area of interest.

This raster is an extraction from the 2010 Cropland Data Layer (CDL) of values representing agricultural areas within the Greater Sage-Grouse planning strategy area of interest.

This raster is an extraction from the 2011 Cropland Data Layer (CDL) of values representing agricultural areas within the Greater Sage-Grouse planning strategy area of interest.

This raster is an extraction from the 2012 Cropland Data Layer (CDL) of values representing agricultural areas within the Greater Sage-Grouse planning strategy area of interest.

Monitoring Framework, the Biophysical Settings Sagebrush Base data layer is a binary raster comprised of pixels representing 28 ecological systems which were determined to have the capability of supporting sagebrush vegetation while also providing suitable seasonal habitat for GRSG. Sagebrush vegetation was defined as sagebrush species or

This raster is an extraction from the 2010 Monitoring Trends in Burn Severity (MTBS) of areas of burn severity and fire within the Greater Sage-Grouse planning strategy area of interest.

This raster is an extraction from the 2010 Monitoring Trends in Burn Severity (MTBS) of areas of burn severity and fire within the Greater Sage-Grouse planning strategy area of interest.

This raster is an extraction from the 2010 Monitoring Trends in Burn Severity (MTBS) of areas of burn severity and fire within the Greater Sage-Grouse planning strategy area of interest.

Monitoring Framework, the Existing Vegetation Type Sagebrush Base data layer is a binary raster comprised of pixels representing 18 ecological systems which were determined to have the capability of supporting sagebrush vegetation while also providing suitable seasonal habitat for GRSG. Sagebrush vegetation was defined as sagebrush species or

Areas of wildland fires within the Greater Sage-Grouse planning strategy area of interest.

Areas of wildland fires within the Greater Sage-Grouse planning strategy area of interest.

Areas of wildland fires within the Greater Sage-Grouse planning strategy area of interest.

This raster is an extraction from the National Landcover Database (NLCD) Percent Developed Imperviousness data layer of values representing urban areas within the Greater Sage-Grouse planning strategy area of interest.

BLM Automated Fluid Support System (AFMSS) data were provided on 01/09/2014 and represent Currently Active wells through 2013.

BLM Automated Fluid Support System (AFMSS) data were provided on 05/07/2014 and represent Active wells in the 10 years prior to 2013, excluding plugged and abandoned and currently active wells.

BLM Automated Fluid Support System (AFMSS) data were provided on 05/07/2014 and represent wells Plugged and Abandoned in the 10 years prior to 2013.

Windmill subset of points from the FAA digital obstacles file. Current as of November 10, 2013

Wells for the selected states that are currently inactive but were active or producing within the last ten years (as of 12/31/2013).

Geothermal well data for the states affected by the GRSG Disturbance Monitoring AOI. Well data for selected states were downloaded from the IHS Enerdeq Browser, www.ihs.com, on 3/4/2014.

Wells that were listed as currently active as of 12/31/2013. Well data for selected states were downloaded from the IHS Enerdeq Browser, www.ihs.com, on 3/4/2014.

years, those that have a "Final_Status" listed as Abandoned within the last ten years, and those that are not necessarily listed as Abandoned in their "Final_Status", but have an "Abnd_Date" within the last ten years. (as of 12/31/2013).. Well data for selected states were downloaded from the IHS Enerdeq Browser, www.ihs.com, on Footprints of active coal mines that were digitized in ArcMap using ESRI Basemap World Imagery supplemented by Google Earth imagery and in some instances, digitized in Google Earth when this imagery was more recent and there were noticeable differences between the ERSI imagery and Google Earth imagery.

Sage-grouse Area Of Interest (AOI) including Arizona, California, Colorado, Idaho, Montana, Nebraska, Nevada, New Mexico, South Dakota, Utah, Washington, and Wyoming. This dataset was derived from data purchased from InfoMine (<http://www.infomine.com/>), delivered as an Excel spreadsheet, converted to a point feature class in

In use railroad lines from Federal Railroad Administration, 2013

Highways: A subset of the licensed, proprietary ESRI Street Maps Premium for ArcGIS dataset, limited to Highways, 2014

Major roads: A subset of the licensed, proprietary ESRI Street Maps Premium for ArcGIS dataset, limited to Highways, 2014

Surface Streets: A subset of the licensed, proprietary ESRI Street Maps Premium for ArcGIS dataset, limited to Highways, 2014

Allotment_LHS_Data.zip: Excel file for join to allotment polygon data representing allotments that failed Land Health Standards (LHS) from 1998 to 2012

BLM grazing allotment boundaries

BLM grazing pasture boundaries

ID_Biologically_Significant_Unit_Modify_Raft_River_20140908_V2: Biologically Significant Units for Calculating Anthropogenic Disturbance and Adaptive Management Habitat Trigger for the Idaho and Southwestern Montana Greater-Sagegrouse EIS

NVCA_BSA_Proposed: NV_PAC_2014_proposed03272014, was developed from the NDOW Population Management Unit shapefile by combining relevant PMUs based on current understanding of sage-grouse populations. This file is a draft for delivery to the BLM for review purposes.

NW CO Greater Sage Grouse EIS Dataset was initially developed for the Gunnison sage grouse Rangewide Conservation Plan and the refined data was used in the Colorado Statewide Conservation Plan.

Management Plan Amendments. The Core Area maps and data were developed as one component of the Conservation Strategy for sage-grouse in Oregon. Specifically, these data provide a tool in planning and identifying appropriate mitigation in the event of human development in sage-grouse habitats.

To illustrate Utah Greater Sage Grouse Management Areas and Wyoming Core Habitat Areas in the BLM Greater Sage-Grouse Utah Sub-Region. <http://www.blm.gov/wo/st/en/prog/more/sagegrouse.html>

To delineate sg breeding and nesting habitat in Wyoming. Special consideration was given to habitat that was not already impacted by human influences (oil and gas, subdivisions, mining, wind, etc.)

with pasture polygons to show where grazing DID occur during the billed year, 2013;

BLM_Allots_In_Term_Authorizations_20141029.xlsx: In term grazing authorizations as of October 29, 2014. To be joined with allotment polygons to show where grazing is possible given permitting.

This raster is an extraction from the LANDFIRE EVT v1.2 of the EVT_NAME value "Quarries-Strip Mines-Gravel Pits" within the Greater Sage-Grouse planning strategy area of interest.

This feature class is the result of efforts to spatially quantify and track a variety of disturbance categories throughout the West as part of the Greater Sage-Grouse Monitoring Framework.

This feature class is the result of efforts to spatially quantify and track a variety of disturbance categories throughout the West as part of the Greater Sage-Grouse Monitoring Framework.

existing vegetation types on the landscape derived from remote sensing data, field reference data, digital elevation model (DEM) data, biophysical gradient data, and decision tree models. These data represent the numerator in the Greater Sage-Grouse (GRSG) Monitoring Framework's equation to calculate sagebrush availability.

existing vegetation types on the landscape derived from remote sensing data, field reference data, digital elevation model (DEM) data, biophysical gradient data, and decision tree models. These data represent the numerator in the Greater Sage-Grouse (GRSG) Monitoring Framework's equation to calculate sagebrush availability.

Footprint area of influence polygons from BLM/USFS Monitoring Framework representing well pads for wells active within 10 years, wells plugged and abandoned within 10 years, and windmills

Points for FAA vertical structures and footprint area of influence polygons from BLM/USFS Monitoring Framework representing other vertical structures (not windmills and FCC communication towers) and non-abandoned rail lines.

Fluid Mineral Leasing (O&G), Closed, Alternative A No Action, across each of the identified Environmental Impact Statement (EIS) Program Area Decisions.

telemetry study from 2008-2010 in Spring Valley (Hydrographic Basin #184), Nevada. The primary goal of the study was to document greater sage-grouse use of SNWA deeded ranch properties and associated BLM grazing allotments, and interseasonal, intraseasonal, and daily movements between and within breeding sites and these lands. The study susceptibility to West Nile Virus (WNV) with resultant high levels of mortality, as noted in the Listing Petition. Therefore, to aid in controlling mosquito larvae that may spread WNV to sage grouse, Chesapeake Energy and the Restoration Team implemented a program to monitor and control WNV on its leases to mitigate the threat of the with the goal of providing relief from man-made noise and activity for sage grouse during breeding and nesting periods in the Douglas Core Area. The Plan was continued in 2014 and extended to occupied leks outside of Core Areas. Mandatory traffic plan training for 41 contractors and Chesapeake employees was conducted and travel America. When used in association with the Platts Electric Substations and Electric Transmission Lines geospatial data layers, viewers can analyze the geographic relationships within the electric transmission grid across utilities, states, and countries. The original Platts data was selected in ArcGIS to create a subset including only operational natural gas America. The original Platts data was selected in ArcGIS to create a subset including only operational oil power plants with an accuracy of 1 mile or less. This was then subset in ArcMap with Select by Location to be inside of and within 1 mile of the Greater Sage-grouse Area Of Interest. The resulting oil power plants were then buffered by 79.8 meters. America. The original Platts data was selected in ArcGIS to create a subset including only operational solar power plants with an accuracy of 1 mile or less. This was then subset in ArcMap with Select by Location to be inside of and within 1 mile of the Greater Sage-grouse Area Of Interest. The resulting solar power plants were then buffered by 45 America. The original Platts data was selected in ArcGIS to create a subset including only operational wind power plants with an accuracy of 1 mile or less. This was then subset in ArcMap with Select by Location to be inside of and within 1 mile of the Greater Sage-grouse Area Of Interest. The resulting wind power plants were then buffered by is to provide geospatial and related attribute information for global energy markets. Description, Geographic line features representing the electric transmission line grid of North America. Key attributes include voltage (kV), operational status, operator name, project names, line names and more.

Categories	Data Types	Tags	Contacts
Data	Vector		
Data	ArcGIS REST Map Service;Map Service		Data Owner:Core Science Analytics and Synthesis
Data	Raster		
Data	Downloadable		Point of Contact:James Lindstrom
Data	Downloadable		
Data	Downloadable		
Data	Downloadable Layer;Downloadable;Map Service;OGC WMS Layer;Shapefile		Point of Contact:James Lindstrom
Data	Downloadable		
Data	Downloadable;Raster Layer;Downloadable;Map Service;OGC WMS Layer;Shapefile		
Data	Raster		
Data	Downloadable		
Data	Downloadable		
Data	Downloadable		
Data	Downloadable		

Data	Downloadable		
Data	Downloadable		
Data	Downloadable		
Data	Downloadable		
Data	Downloadable		
Data	Downloadable		
Data	Downloadable Layer;Downloadable;Map Service;OGC WMS		
Data	Layer;Shapefile Layer;Downloadable;Map Service;OGC WMS		Geospatial Center of Excellence;Metadata Contact:National Geospatial
Data	Layer;Shapefile Layer;Downloadable;Map Service;OGC WMS	Hydrologic Units;HUC;WBD	
Data	Layer;Shapefile Layer;Downloadable;Map Service;OGC WMS	Units;Lands;Alaska;Washington;Or egon;California;Idaho;Nevada;Ariz ona;New	Land Management;Process Contact:Alexandra Ritchie;Distributor:BLM
Data	Layer;Shapefile		
Data	Raster		
Data	Downloadable Layer;Downloadable;Map Service;OGC WMS		Department of Commerce, U.S. Census Bureau, Geography Division, Geographic Products
Data	Layer;Shapefile Layer;Downloadable;Map Service;OGC WMS	boundaries;Nation;Polygon;Unite d States;U.S. Sage-grouse;Sage- grouse;Centrocercus;urophasianu s;minimus;distribution;range;curr	Talmadge;Process Contact:John Talmadge;Process
Data	Layer;Shapefile		
Data	Raster Layer;Downloadable;Map Service;OGC WMS		
Data	Layer;Shapefile		

Data	Layer;Downloadable;Map Service;OGC WMS Layer;Shapefile		
Data	Downloadable;Raster Layer;Downloadable;Map Service;OGC WMS Layer;Shapefile	planningCadastre, 015;Land Use Planning;Utah;BLM Utah State Office	Land Management;Process Contact:Lynn Roth;Distributor:Carla
Data	Raster Layer;Downloadable;Map Service;OGC WMS Layer;Shapefile		
Data	Layer;Downloadable;Map Service;OGC WMS Layer;Shapefile		
Data	Layer;Downloadable;Map Service;OGC WMS Layer;Shapefile		
Data	ArcGIS REST Map Service;Map Service		
Data	Raster		
Data	Downloadable		
Data	Downloadable		
Data	Downloadable		
Data	Downloadable		
Data	Downloadable Layer;Downloadable;Map Service;OGC WMS Layer;Shapefile	Sage-Grouse;Core Areas;Wyoming	
Data	Layer;Downloadable;Map Service;OGC WMS Layer;Shapefile	Sage-grouse;Sage-grouse;Centrocerus;urophasianu s;minimus;distribution;range;curr	Talmadge;Process Contact:John Talmadge;Process
Data	Layer;Downloadable;Map Service;OGC WMS Layer;Shapefile	Sage-grouse;Sage-grouse;Centrocerus;urophasianu s;minimus;distribution;range;curr	Talmadge;Process Contact:John Talmadge;Process
Data	Layer;Downloadable;Map Service;OGC WMS Layer;Shapefile		
Data	Layer;Downloadable;Map Service;OGC WMS Layer;Shapefile		

Data	Layer;Downloadable;Map Service;OGC WMS Layer;Shapefile		
Data	Layer;Downloadable;Map Service;OGC WMS Layer;Shapefile	County;CWA;WFO;Time zone;FIPS;CONUS	Point of Contact:USGS;Process Contact:USGS;Metadata Contact:USGS;Originator:USGS
Data	Layer;Downloadable;Map Service;OGC WMS Layer;Shapefile	County;CWA;WFO;Time zone;FIPS;CONUS	Point of Contact:USGS;Process Contact:USGS;Metadata Contact:USGS;Originator:USGS
Data	Raster		
Data	Raster		
Data	Raster Layer;Downloadable;Map Service;OGC WMS		
Data	Layer;Shapefile		
Data	Raster Layer;Downloadable;Map Service;OGC WMS		
Data	Layer;Shapefile		
Data	Layer;Downloadable;Map Service;OGC WMS		
Data	Layer;Shapefile		
Data	Layer;Downloadable;Map Service;OGC WMS		
Data	Layer;Shapefile		
Data	Layer;Downloadable;Map Service;OGC WMS		
Data	Layer;Shapefile		
Data	Downloadable		
Data	Raster Layer;Downloadable;Map Service;OGC WMS	grouse;populations;distribution;range;United States;North America;Washington;Oregon;Calif	Wildlife Service, Wyoming Ecological Services;Metadata Contact:US Fish & Wildlife
Data	Layer;Shapefile Layer;Downloadable;Map Service;OGC WMS		
Data	Layer;Shapefile		

Data	Raster		
Data	Raster	Raster	Department of Commerce, U.S.
	Layer;Downloadable;Map	boundaries;Nation;State or	Census Bureau, Geography
Data	Service;OGC WMS	equivalent entity;Polygon;United	Division, Geographic Products
	Layer;Shapefile	States;U.S.	
Data	Raster		
Data	Raster		
Data	ArcGIS REST Map Service;Map		
	Service		
Data	ArcGIS REST Map Service;Map		
	Service		
	Layer;Downloadable;Map		Stoner
	Service;OGC WMS		(lisa.langs@usu.edu);Distributo
Data	Layer;Shapefile		r:Data Basin
Data	Downloadable		
Data	Downloadable		
Data	Downloadable; shapefile		
Data & PDF	Shapefile & PDF		International, 405 W. Boxelder
Report			Rd. Suite A-5 Gillette, WY
			82718;
			Adam Messer; MT Fish,
Data	Vector	Map Service, OGC WFS Layer, OGC	Wildlife and Parks;
		WMS Layer, OGC WMS Service	amesser@mt.gov
			Adam Messer; MT Fish,
Data	Vector	Map Service, OGC WFS Layer, OGC	Wildlife and Parks;
		WMS Layer, OGC WMS Service	amesser@mt.gov
Data	Raster		BLM National Operations
			Center, Matthew Bobo
Data	Raster		BLM National Operations
			Center, Matthew Bobo
Data	Raster		BLM National Operations
			Center, Matthew Bobo

Data	Vector	BLM National Operations Center, Matthew Bobo
Data	Vector	BLM National Operations Center, Matthew Bobo
Data	Vector	BLM National Operations Center, Matthew Bobo
Data	Vector	BLM National Operations Center, Matthew Bobo
Data	Vector	BLM National Operations Center, Matthew Bobo
Data	Vector	BLM National Operations Center, Matthew Bobo
Data	Vector	BLM National Operations Center, Matthew Bobo
Data	Excel	BLM National Operations Center, Lynnda Jackson
Data	Vector	BLM National Operations Center
Data	Vector	BLM National Operations Center
Data	Vector	BLM National Operations Center
Data	Vector	BLM National Operations Center
Data	Vector	BLM National Operations Center
Data	Vector	BLM National Operations Center
Data	Vector	BLM National Operations Center
Data	Excel	BLM National Operations Center, Lynnda Jackson

Data	Raster	
Data	Vector	BLM National Operations Center
Data	Vector	BLM National Operations Center
Data	Raster	BLM National Operations Center
Data	Raster	BLM National Operations Center
Data	Vector	BLM National Operations Center
Data	Vector	BLM National Operations Center
Data	Vector	BLM National Operations Center
Data / PDF Doc	Vector	Southern Nevada Water Authority (SNWA)
Data / PDF Doc	Vector	Laurie Heath, REM
Data / PDF Doc	Vector	Laurie Heath, REM
Data	Vector	Analysis Lab, Bureau of Land Management, National Operations Center
Data	Vector	Analysis Lab, Bureau of Land Management, National Operations Center
Data	Vector	Analysis Lab, Bureau of Land Management, National Operations Center
Data	Vector	Analysis Lab, Bureau of Land Management, National Operations Center
Data	Vector	

Data

Vector

[https://nfdc.faa.gov/tod/public
/TOD_DOF.html](https://nfdc.faa.gov/tod/public/TOD_DOF.html)

DateCreated	CreatedBy	URL
2014-08-11T21:32:16Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53e93660e4b02d190f05ee2a
2011-06-24T15:19:48Z	cscharvester	https://www.sciencebase.gov/catalog/item/4f4e48b7e4b07f02db5344ca
2014-08-13T17:14:11Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53eb9ce3e4b0461e44772d6b
2014-08-15T21:19:52Z	james_lindstrom@fws.gov	https://www.sciencebase.gov/catalog/item/53ee7978e4b0f61b386df439
2014-08-13T16:38:03Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53eb946be4b0461e44772d65
2014-08-11T21:35:23Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53e9371be4b02d190f05ee33
2014-08-11T22:32:02Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53e94462e4b0ccfda6714911
2014-08-15T21:37:10Z	james_lindstrom@fws.gov	https://www.sciencebase.gov/catalog/item/53ee7d86e4b0f61b386df442
2014-08-11T22:40:52Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53e94674e4b0ccfda6714924
2014-08-13T19:16:22Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53ebb986e4b0461e44772d9b
2014-08-08T18:40:16Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53e51990e4b0ff404296e1b
2014-08-13T15:39:30Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53eb86b2e4b0461e44772d02
2014-08-11T22:49:24Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53e94874e4b0ccfda6714935
2014-08-11T22:47:54Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53e9481ae4b0ccfda6714933
2014-08-11T22:37:06Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53e94592e4b0ccfda671491b?community=Sage+Grouse+Conservation+Status+2015
2014-08-11T21:41:18Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53e9387ee4b02d190f05ee3a

2014-08-11T22:43:55Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53e9472be4b0ccfda671492b
2014-08-11T21:21:38Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53e933e2e4b02d190f05ee1c
2014-08-11T22:46:49Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53e947d9e4b0ccfda6714931
2014-08-11T22:45:54Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53e947a2e4b0ccfda671492f
2014-08-11T22:44:44Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53e9475ce4b0ccfda671492d
2014-08-11T21:33:50Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53e936bee4b02d190f05ee2e
2014-08-11T22:42:58Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53e946f2e4b0ccfda6714928
2014-07-31T18:51:35Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53da9037e4b0477f68736f41
2014-01-04T09:30:51Z	matthew_heller@fws.gov	https://www.sciencebase.gov/catalog/item/52c7d4cbe4b0a753c7d3c586
2014-07-31T17:24:28Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53da7bcce4b0477f68736ec2
2014-01-04T05:15:36Z	matthew_heller@fws.gov	https://www.sciencebase.gov/catalog/item/52c798f8e4b060b9ebca5bfe
2014-08-12T20:21:03Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53ea772fe4b008eaa4f4c4c6
2014-08-13T16:22:38Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53eb90cee4b0461e44772d5c
2014-01-04T04:59:47Z	matthew_heller@fws.gov	https://www.sciencebase.gov/catalog/item/52c79543e4b060b9ebca5bf4
2014-05-29T15:24:37Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53875135e4b0aa26cd7b5440
2014-08-12T19:54:34Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53875135e4b0aa26cd7b5441
2014-07-31T17:23:25Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53da7b8de4b0477f68736ebd

2014-07-31T17:27:12Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53da7c70e4b0477f68736ec8
2014-08-12T22:31:39Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53ea95cbe4b008eaa4f4c50a
2014-01-23T20:31:06Z	matthew_heller@fws.gov	https://www.sciencebase.gov/catalog/item/52e17c0ae4b0d0c3df9a3993
2014-08-12T21:14:45Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53ea83c5e4b008eaa4f4c4ea
2014-07-31T17:29:12Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53da7ce8e4b0477f68736eca
2014-07-31T17:34:21Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53da7e1de4b0477f68736ed6
2014-01-04T09:45:41Z	matthew_heller@fws.gov	https://www.sciencebase.gov/catalog/item/52c7d845e4b0a753c7d3d502
2014-08-20T19:51:02Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53f4fc26e4b073ff773e377b
2014-08-11T22:39:17Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53e94615e4b0ccfda6714921
2014-08-11T21:38:01Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53e937b9e4b02d190f05ee37
2014-08-13T15:48:12Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53eb88bce4b0461e44772d1e
2014-08-13T15:51:07Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53eb896be4b0461e44772d2a
2014-08-13T15:53:07Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53eb89e3e4b0461e44772d33
2014-01-23T21:21:02Z	matthew_heller@fws.gov	https://www.sciencebase.gov/catalog/item/52e187bee4b0d0c3df9a39d8
2014-01-23T20:25:39Z	matthew_heller@fws.gov	https://www.sciencebase.gov/catalog/item/52e17ac3e4b0d0c3df9a3968
2014-01-23T20:26:37Z	matthew_heller@fws.gov	https://www.sciencebase.gov/catalog/item/52e17afde4b0d0c3df9a397f
2014-01-23T22:15:54Z	matthew_heller@fws.gov	https://www.sciencebase.gov/catalog/item/52e1949ae4b0d0c3df9a3a0f

2014-01-23T21:36:32Z	matthew_heller@fws.gov	https://www.sciencebase.gov/catalog/item/52e18b60e4b0d0c3df9a39e8
2014-01-23T21:14:44Z	matthew_heller@fws.gov	https://www.sciencebase.gov/catalog/item/52e18644e4b0d0c3df9a39c2
2014-01-23T21:54:29Z	matthew_heller@fws.gov	https://www.sciencebase.gov/catalog/item/52e18f95e4b0d0c3df9a3a02
2014-08-13T19:22:53Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53ebbb0de4b0461e44772da2
2014-08-13T19:25:25Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53ebbba5e4b0461e44772da5
2014-08-12T23:08:46Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53eaa9e7ee4b008eaa4f4c51b
2014-08-11T13:45:56Z	jwelry@usgs.gov	https://www.sciencebase.gov/catalog/item/53e8c914e4b02d190f05dd93
2014-08-12T20:31:08Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53eaa798ce4b008eaa4f4c4d2
2014-07-31T18:53:27Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53da90a7e4b0477f68736f49
2014-07-31T17:30:24Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53da7d30e4b0477f68736ece
2014-01-04T03:46:52Z	matthew_heller@fws.gov	https://www.sciencebase.gov/catalog/item/52c7842ce4b060b9ebca5bd4
2014-07-31T17:31:45Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53da7d81e4b0477f68736ed0
2014-07-31T17:33:05Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53da7dd1e4b0477f68736ed2
2014-08-11T21:06:03Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53e9303be4b02d190f05ee0e
2014-08-12T16:48:57Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53eaa4579e4b008eaa4f4c45c
2014-01-04T03:42:36Z	matthew_heller@fws.gov	https://www.sciencebase.gov/catalog/item/52c7832ce4b060b9ebca5bc4
2014-07-31T17:35:08Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53da7e4ce4b0477f68736ed8

2014-08-13T17:51:51Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53eba5b7e4b0461e44772d7e
2014-08-13T15:20:46Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53eb824ee4b0461e44772cd8
2014-01-04T03:55:15Z	matthew_heller@fws.gov	https://www.sciencebase.gov/catalog/item/52c78623e4b060b9ebca5be5
2014-08-12T23:15:47Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53eaa023e4b008eaa4f4c51f
2014-08-13T18:27:53Z	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/53ebae29e4b0461e44772d8b
2014-01-04T09:40:36Z	matthew_heller@fws.gov	https://www.sciencebase.gov/catalog/item/52c7d714e4b0a753c7d3cfc4
2014-01-04T09:38:46Z	matthew_heller@fws.gov	https://www.sciencebase.gov/catalog/item/52c7d6a6e4b0a753c7d3cc8f
2014-01-04T09:43:32Z	matthew_heller@fws.gov	https://www.sciencebase.gov/catalog/item/52c7d7c4e4b0a753c7d3d324
10/22/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/544805e5e4b0f888a81b86b0
10/22/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/544811bfe4b0f888a81b86be
10/24/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/544aa496e4b03653c63f89f9
10/31/2014	ed_turner@fws.gov	https://www.sciencebase.gov/catalog/item/54542198e4b0dc7793747c08?community=Sage+Group+Conservation+Status+2015
11/3/2014	ed_turner@fws.gov	https://www.sciencebase.gov/catalog/item/5457c8d1e4b009f8aec93bc3?community=Sage+Group+Conservation+Status+2015
11/3/2014	ed_turner@fws.gov	https://www.sciencebase.gov/catalog/item/5457d1d6e4b009f8aec93bcd?community=Sage+Group+Conservation+Status+2015
11/14/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/folder/5466846be4b04d4b7dbda50f
11/14/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/folder/5466846be4b04d4b7dbda50f
11/14/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/folder/5466846be4b04d4b7dbda50f

	lara_juliusson@fws.gov	<u>https://www.sciencebase.gov/catalog/folder/5466846be4b04d4b7dbda50f</u>
11/14/2014	gov	<u>https://www.sciencebase.gov/catalog/folder/54653c27e4b04d4b7dbd32ee?community=Sage+Grouse+Conservation+Status+2015</u>
11/14/2014	lara_juliusson@fws.gov	<u>https://www.sciencebase.gov/catalog/folder/54665261e4b04d4b7dbda145?community=Sage+Grouse+Conservation+Status+2015</u>
11/14/2014	gov	<u>https://www.sciencebase.gov/catalog/folder/54665261e4b04d4b7dbda145?community=Sage+Grouse+Conservation+Status+2015</u>
11/14/2014	lara_juliusson@fws.gov	<u>https://www.sciencebase.gov/catalog/folder/54665261e4b04d4b7dbda145?community=Sage+Grouse+Conservation+Status+2015</u>
11/14/2014	gov	<u>https://www.sciencebase.gov/catalog/folder/546668fb4e4b04d4b7dbda535?community=Sage+Grouse+Conservation+Status+2015</u>
11/14/2014	lara_juliusson@fws.gov	<u>https://www.sciencebase.gov/catalog/folder/5466a55d9e4b04d4b7dbde92e</u>
11/17/2014	gov	<u>https://www.sciencebase.gov/catalog/folder/5466a55d9e4b04d4b7dbde92e</u>
11/17/2014	lara_juliusson@fws.gov	<u>https://www.sciencebase.gov/catalog/folder/5466a55d9e4b04d4b7dbde92e</u>
11/17/2014	gov	<u>https://www.sciencebase.gov/catalog/folder/5466a5e82e4b04d4b7dbde954</u>
11/17/2014	lara_juliusson@fws.gov	<u>https://www.sciencebase.gov/catalog/item/546a7754e4b04d4b7dbde962</u>
11/17/2014	gov	<u>https://www.sciencebase.gov/catalog/item/546a7754e4b04d4b7dbde962</u>
11/17/2014	lara_juliusson@fws.gov	<u>https://www.sciencebase.gov/catalog/item/546a7754e4b04d4b7dbde962</u>
11/17/2014	gov	<u>https://www.sciencebase.gov/catalog/item/546a7754e4b04d4b7dbde962</u>
11/17/2014	lara_juliusson@fws.gov	<u>https://www.sciencebase.gov/catalog/item/546a7754e4b04d4b7dbde962</u>
11/17/2014	gov	<u>https://www.sciencebase.gov/catalog/item/546a7754e4b04d4b7dbde962</u>
11/17/2014	lara_juliusson@fws.gov	<u>https://www.sciencebase.gov/catalog/item/546a7754e4b04d4b7dbde962</u>
11/17/2014	gov	<u>https://www.sciencebase.gov/catalog/item/546a7754e4b04d4b7dbde962</u>
11/17/2014	lara_juliusson@fws.gov	<u>https://www.sciencebase.gov/catalog/item/546a7754e4b04d4b7dbde962</u>
11/17/2014	gov	<u>https://www.sciencebase.gov/catalog/item/546a7754e4b04d4b7dbde962</u>

11/17/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/546a7754e4b04d4b7dbde962
11/17/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/546a7754e4b04d4b7dbde962
11/17/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/546a7754e4b04d4b7dbde962
11/17/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/546a8f09e4b04d4b7dbde989
11/17/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/546a8f09e4b04d4b7dbde989
11/17/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/546a8f09e4b04d4b7dbde989
11/17/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/546a8f09e4b04d4b7dbde989
12/1/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/547c93e0e4b0bdc5179282c5
12/1/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/547c93e0e4b0bdc5179282c5
12/1/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/547c93e0e4b0bdc5179282c5
12/1/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/547c93e0e4b0bdc5179282c5
12/1/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/547c93e0e4b0bdc5179282c6
12/1/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/547c93e0e4b0bdc5179282c7
12/1/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/547c93e0e4b0bdc5179282c7
12/1/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/547c93e0e4b0bdc5179282c7
12/1/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/547c93e0e4b0bdc5179282c7

12/1/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/547c96cde4b0bdc517929f2e
12/1/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/547cb508e4b0bdc51793037a
12/1/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/547cb508e4b0bdc51793037a
12/2/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/547ca925e4b0bdc517930365
12/2/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/547ca925e4b0bdc517930365
12/2/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/547caec3e4b0bdc51793036c
12/2/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/547cc8a6e4b0bdc517930391
12/2/2014	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/547c93e0e4b0bdc5179282c5
12/3/2014	ed_turner@fws.gov	https://www.sciencebase.gov/catalog/item/547f8b4ae4b09357f0601422?community=Sage+Gr
12/31/2014	ed_turner@fws.gov	https://www.sciencebase.gov/catalog/item/547f8b4ae4b09357f0601422?community=Sage+Gr
12/31/2014	ed_turner@fws.gov	https://www.sciencebase.gov/catalog/item/547f8b4ae4b09357f0601422?community=Sage+Gr
1/8/2015	lara_juliusson@fws.gov	
1/8/2015	lara_juliusson@fws.gov	
1/8/2015	lara_juliusson@fws.gov	
1/8/2015	lara_juliusson@fws.gov	
2/11/2015	lara_juliusson@fws.gov	https://www.sciencebase.gov/catalog/item/54dd2b50e4b08de9379b3315

3/17/2015 Ed_Turner@fws.gov <https://www.sciencebase.gov/catalog/item/5508b7b4e4b02e76d757c5b1>

Brainstorm

Additional/Alternate GIS

Sources

COT Threat or Base Data

Category

Fire

Invasive Plants

Invasive Plants

Invasive Plants

Oil and Gas

Oil and Gas

Infrastructure: Transmission
Lines

Mining

Ex-urban Development

Contaminants

Recreation

Recreation

COM Tower Data?

Fire Note: from above

Infrastructure: General roads,
rr, etc.

Drought Monitor Data

Climate Change

Transmission Corridors

Transmission Corridors

Transmission Corridors

Add rows with the COT threat category the new data source addresses and fill in the source description, source and location and your initials fields.

Source Description

Fire severity rasters for each year 1984 to 2012. Burn severity layers are thematic images depicting severity as unburned to low, low, moderate, high, and increased greenness (increased postfire vegetation response). The layer may also have a sixth class representing a mask for clouds, shadows, large water bodies, or other features on the landscape that erroneously affect the severity classification.

Cheatgrass (*Bromus tectorum*) Estimated Percent Cover (December 2003)

Annual Grass Index of Nevada (March 2006)

Annual Grass Index of the Owyhee Uplands (March 2007)

Yet to be finalized, Oil and Gas development potential model, January, 2015

A surface map representing the density of Oil and Gas wells on the landscape using OG well points could be created

We have purchased Platts transmission line data, but the contract has not gone through purchasing yet.

Mine location points and polygons for surface disturbance. Request Dataset the BLM has developed for their disturbance calculations

Impervious surface change and housing density projections

Location of EPA Superfund sites, CAFOs, spills, discharge points

Closed Areas - Public BLM and Forest Service Lands

National Historic and Scenic Trails

Potential FCC Geographic Information Data. This website gives you the tools to create, view, query and print customized maps showing FCC licensing data, regulated towers and market area boundaries. These maps can be extremely helpful in conducting analysis on current service and

Pat's DataSpace has these data (MTBS 1984-2012 as Lara mentioned above), but already converted to polygon for easy overlay processes. You may wish to have this copy too?

Should we just download the latest Tiger data, or should we look at state level base data, ex: NV Dot, etc. DataSpace has lots for R8, but state specific

The National Drought Mitigation Center, Drought Monitor datasets. For DM data for a period of time longer than a few weeks, please e-mail your request to Brian Fuchs. Include the date range, for example 2005-2009, and the state or county names. We will make every effort to respond to The National Center for Atmospheric Research, Boulder CO. Climate Change Model projections that have been generated for the 4th Assessment Report (AR4) of the IPCC by the Community Climate System Model (CCSM-3). Currently this portal distributes a subset of all variables produced Core Area Transmission Corridor: The transmission corridors were established in 2010 through an executive order from the State of Wyoming (Order 2010-4, replaced later by Order 2011-5). They were established in order to plan for the construction of energy transmission infrastructure. The 2-Transmission Line Corridors in the Western United States and Canada at 1:100,000. Powerlines in the western United States and Canada as identified by the 22 source data layers used to compile this shapefile. Source data were collected by personal contact or through the internet in the winter Section 368 (a) of the Energy Policy Act of 2005 (the Act), Public Law 109-58 (H.R. 6), enacted August 8, 2005, directs the Secretaries of Agriculture, Commerce, Defense, Energy, and the Interior (the Agencies) to designate under their respective authorities corridors on federal land in 11

Source and Location	Your initials (for follow-up questions)
MTBS, http://www.mtbs.gov/nationalregional/download.html	LJ
Nevada Natural Heritage Program: http://heritage.nv.gov/gis_details#cgnevada	LJ
Nevada Natural Heritage Program: http://heritage.nv.gov/gis_details#cgnevada	LJ
Nevada Natural Heritage Program: http://heritage.nv.gov/gis_details#cgnevada	LJ
	LJ
	LJ
	LJ
Request to BLM	LJ
EPA ICLUS Program, http://cfpub.epa.gov/ncea/global/recordisplay.cfm?deid=205305	LJ
EPA Data?	AB
BLM/FS Data?	
http://www.blm.gov/wo/st/en/prog/energy/geothermal/geothermal_nationwide/Documents/GIS_Data.html	AB
BLM/FS Data?	
http://www.blm.gov/wo/st/en/prog/energy/geothermal/geothermal_nationwide/Documents/GIS_Data.html	AB
http://wireless.fcc.gov/geographic/index.htm?job=home	ET
Live access on DataSpace or can copy over to R6-Drive	ET
https://www.census.gov/geo/maps-data/data/tiger.html	ET

<http://droughtmonitor.unl.edu/MapsAndData/GISData.aspx> ET

<http://gisclimatechange.ucar.edu/> ET

nyssa.whitford@wyo.gov ScienceBase search "transmission
corridors" see .xml ET

ScienceBase search "transmission corridors"
[http://sagemap.wr.usgs.gov/ftp/regional/usgs/powerlines_wus_can
_sgca.zip](http://sagemap.wr.usgs.gov/ftp/regional/usgs/powerlines_wus_can_sgca.zip) ET

<http://corridoreis.anl.gov/eis/fmap/gis/> ET