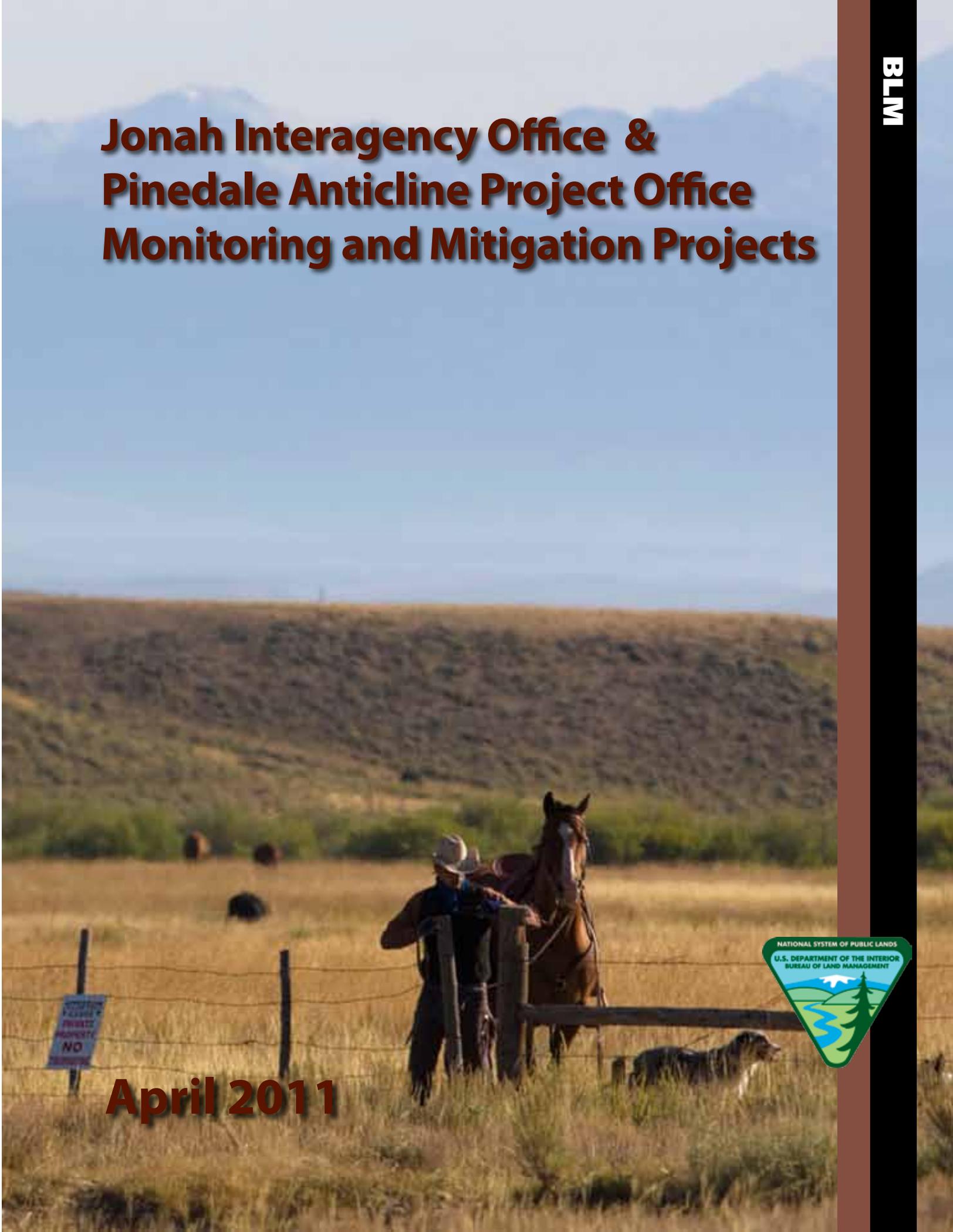


Jonah Interagency Office & Pinedale Anticline Project Office Monitoring and Mitigation Projects



NO
PRIVATE
PROPERTY

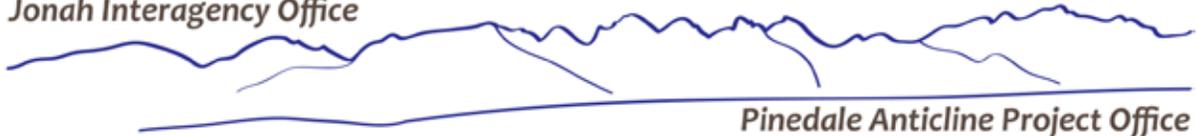
April 2011





Table of Contents

Mitigation Projects	5
Jonah Interagency Office	5
Pinedale Anticline Project Office	5
Jonah Interagency Office Funded Projects	6
Air Quality Mitigation	6
American Recovery & Reinvestment Act Diesel Emissions Reduction Act	6
Community Outreach Effort / What Can I Do? Campaign	6
DEQ Ozone Study	7
Environmental Book Donation for Sublette County Citizens	7
High Meadow Ranch Property Owners Dust Suppression Project	7
Non-road Equipment Muffler Change-out (Heavy Machinery)	8
Wood Stove Change-out Program: 2010	8
Wood Stove Change-out Program: 2009	8
Cultural Resources Mitigation	8
Museum of the Mountain Man Educational Prehistoric/Historic Rotating Artifact Display & Creation of Traveling Exhibit	8
Wardell Buffalo Trap	9
Livestock Mitigation	9
Don Rogers Livestock Mitigation Project	9
Rendezvous Ranches Livestock Mitigation Project	9
Recreation Mitigation	10
Boulder Lake Campground Project	10
New Fork, East Fork Rivers Confluence Boat Ramp and River Access	10
Wildlife Mitigation	10
Carney Ranch Conservation Project Phase I	10
Cottonwood Ranches I Conservation Project	11
Cottonwood Ranches II Conservation Project	11
Cottonwood Ranches III Conservation Project	12
Cross Lazy Two Ranch Conservation Project	12
Diamond H Ranch Conservation Project	13
Dynamic Message Signs	13
Habitat Improvement Pilot Project (Arambel Reservoir Project)	13
Elk Mountain / Red Canyon Prescribed Burn	14
JIO Focus Area Inventory Project	14
Jonah Raptor Nest Platforms	15
McNeel Conservation Easement & Conservation Plan	15
MJ Ranch Conservation Project	15
Noble-Cora Peak Wildlife Project	16
Range Improvement Water Trough Bird Ramps	16
Rock Creek Subdivision Antelope Migration Fence Modification	17
Ryegrass Mowing	17
Sommers-Grindstone Conservation Project	17
Squaretop Water Wells	18
Wildlife Friendly Fencing Initiative	18



Wildlife & Livestock Mitigation	19
Boundary-Sublette Allotment Project	19
Pinedale Anticline Project Office Monitoring and Mitigations Projects	20
Wildlife Monitoring Projects	20
Mule Deer Monitoring Project	20
Pronghorn Monitoring Project	20
Sage-grouse Monitoring Project	20
Pygmy Rabbit Monitoring Project	20
Raptor Monitoring Project	21
Snow Depth and Traffic Monitoring Project	21
White-tailed Prairie Dog Monitoring Project	21
PAPO Mitigation Projects	22
Air quality spatial measurement and survey approach for improving emission inventory factors and VOC input data for ozone modeling associated within the PAPA	22
American Recovery and Reinvestment Act (ARRA) Diesel Emissions Reduction Act (DERA)	22
Mesa Mule Deer Winter Habitat Improvement Project	22
Sommers/Grindstone Conservation Project	22
JIO/PAPO Reclamation	23

Mitigation Projects

The Jonah Interagency Office and the Pinedale Anticline Project Office (JIO/PAPO) is a combined office staffed with full-time representatives from each of the following agencies—Wyoming Department of Agriculture, Wyoming Game & Fish Department (WGFD), Wyoming Department of Environmental Quality (WDEQ) and the Bureau of Land Management (BLM).

Oversight is provided by an Agency Managers Committee and Board, comprised of participating agency heads or representatives, and includes a Sublette County Commissioner for the PAPO. The Board provides senior-level guidance, project approvals, evaluates past performance and reviews future needs and planned activities.

This document highlights the significant mitigation projects that have been funded through the JIO and PAPO.

Jonah Interagency Office

The Jonah Natural Gas Field is located in the Upper Green River Basin of west-central Wyoming, south of Pinedale. Jonah's 30,000 acres of rolling sagebrush are 94 percent federally owned. The area has one of the richest concentrations of natural gas in the United States, currently estimated at more than 14 trillion cubic feet.

The Jonah Interagency Mitigation and Reclamation Office (JIO) was created by the Jonah Project Record of Decision (ROD) to provide overall management of on-site monitoring and off-site mitigation activities primarily focusing on pronghorn and Greater Sage-grouse.

To perform these functions, the JIO manages a \$24.5 million monitoring and mitigation fund committed by EnCana Oil & Gas (USA), Inc. (\$21.5 million) and BP America Production Company (\$3 million).

Pinedale Anticline Project Office

The Pinedale Anticline natural gas field is located in the Upper Green River Basin of west-central Wyoming, south of Pinedale. The Anticline's 198,000 acres of rolling sagebrush are 80 percent federally owned. The area has one of the richest concentrations of natural gas in the United States, currently estimated at more than 25 trillion cubic feet.

The Pinedale Anticline Project Office (PAPO) was created by the Anticline Project Record of Decision (ROD) to provide overall management of on-site monitoring and off-site mitigation activities primarily focusing on mule deer, pronghorn and Greater sage-grouse. To perform these functions, Ultra, Shell and Questar energy companies have committed up to \$36 million.



Jonah Interagency Office Funded Projects

Air Quality Mitigation

American Recovery & Reinvestment Act Diesel Emissions Reduction Act

The State of Wyoming DEQ successfully executed a project to provide emissions control solutions for non-road construction equipment providing services to the natural gas fields in Sublette County, Wyo., with the generous assistance of Environmental Protection Agency's Diesel Emissions Reduction Act grant.

This project achieved significant reductions in diesel emissions reducing 423 tons of nitrogen oxides, 48 tons of particulate matter, 47 tons of hydrocarbons, and 226 tons of carbon monoxide pollution reduced. Working with 11 grant recipients, 30 pieces of equipment were identified, totaling 36 eligible engines.

Contributions by the EPA offset costs while providing solutions such as engine retrofits including engine upgrades and engine repowers. The State of Wyoming DEQ administered and provided the DERA funds to the various recipients in order for them to install the emissions control solutions to the equipment.



Project Status: Completed
 Total Project Cost: \$2.1 million
 JIO Funded: \$250,000

Community Outreach Effort / What Can I Do? Campaign

The "What Can I Do?" campaign encouraged community involvement and environmental education to create concrete opportunities to lessen air pollution in the Upper Green River Basin. The campaign included components such as advertising for local recycling initiatives, such as "Don't Burn Trash" (reduces particulate matter); advertising to explain "What are VOCs?"; campaign to encourage people to "Don't Top-Off" when fueling (reduces VOCs); promotions for carpooling; driving tips, idling time (reduces particulate matter, NO₂, VOC, SO₂, nitrates and sulfates); promoting of any of the community air quality projects funded by Jonah off-site mitigation funds, including the wood stove change-out program, environmental book donations and muffler change-outs.

Project Status: Completed
 Total Project Cost: \$10,300
 JIO Funded: \$10,300



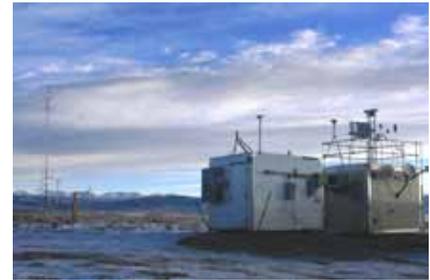
DEQ Ozone Study

The WDEQ is conducting an intensive study of wintertime ozone formation in the Upper Green River Basin. Data from the study is being used to develop a conceptual model of ozone formation in the Upper Green River Basin. The conceptual model will be used along with the field data to develop accurate meteorological and air quality numerical simulations of high ozone events. Both the conceptual and numerical models will in turn be used to develop effective air quality management strategies needed to adequately protect public health and the environment in accordance with applicable State and Federal laws.

Project funds were used in the 2007 Ozone Study.

Additional information regarding the study is available at <http://deq.state.wy.us/aqd/Ozone%20Main.asp>

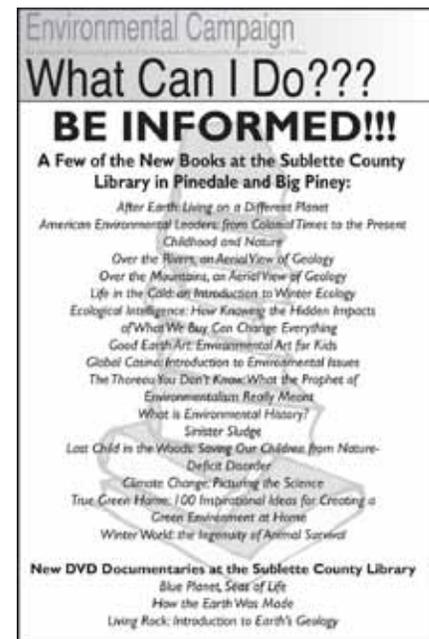
Project Status: Completed
Total Project Cost: \$442,000
JIO Funded: \$442,000



Environmental Book Donation for Sublette County Citizens

Each of the six public libraries in Sublette County (Sublette County School District #1, Big Piney School District, two county day care centers, Pinedale Library and Big Piney) received funding to purchase library materials, including books or other media, determined by each library director to improve the library's collection of information related to the environment, environmental health or environmental protection. Approximately 100 books, 15 DVDs and other media were identified and purchased.

Project Status: Completed
Total Project Cost: \$8,000
JIO Funded: \$8,000



High Meadow Ranch Property Owners Dust Suppression Project

There are 382 homes and 807 lots in the High Meadow Ranch Subdivision. A Wyoming Department of Transportation (WYDOT) road count measured 1000 cars on the roads/day in 2009. This project involves applying road base and magnesium chloride to 7.2 miles of highly traveled roads in Sublette County's most densely populated subdivision. Dust suppression directly supports an air quality off-site mitigation goal. Dust contributes to impaired visibility and is identified as an operator best practice in the Jonah ROD.

Project Status: Completed
Total Project Cost: \$375,000
JIO Funded: \$324,000



Non-road Equipment Muffler Change-out (Heavy Machinery)

A total of 59 vouchers worth \$2,500 have been given to owners of eligible non-road equipment (heavy machinery) for the purchase and installation of diesel oxidation catalysts to reduce emissions. Participating companies include TEPPCO, Noble Construction, M&N Equipment, Anticline Disposal, KSI, Randy R. Pitt Construction, FCC, Teletractors and WYDOT.



Project Status: In Progress
Total Project Cost: \$150,000
JIO Funded: \$150,000

Wood Stove Change-out Program: 2010

Similar to the 2009 program, the 100 wood stoves changed out produced approximately 24 tons of pollution per year. With the installation of these EPA certified stoves, emissions were reduced to about 1.4 tons per year.



Project Status: Completed
Total Project Cost:
JIO Funded: \$106,104

Wood Stove Change-out Program: 2009

The Wood Stove Change-out Program provided an opportunity for Sublette County citizens to change-out their older, non-certified wood stoves for newer, less polluting EPA certified stoves. Any individual, business or public or private organization was allowed to register to win a certificate which would provide up to \$3,500 toward the purchase and installation of an EPA certified wood stove to replace an existing wood stove or to replace an existing wood stove with a natural gas stove. Certificates were awarded in a raffle.

A total of 41 EPA certified stoves were installed and approximately 10 tons per year of pollution has been reduced.

Project Status: Completed
Total Project Cost: \$150,000
JIO Funded: \$150,000

Cultural Resources Mitigation

Museum of the Mountain Man Educational Prehistoric/Historic Rotating Artifact Display & Creation of Traveling Exhibit

This project's aim was to educate the public about prehistoric and/or historic artifacts found in the Jonah Field and to display artifacts in a user friendly environment.

Project Status: Completed
Total Project Cost: \$50,000
JIO Funded: \$50,000
Partners/Cooperators
Museum of the Mountain Man



Wardell Buffalo Trap

Establish a drainage system to protect the Wardell Buffalo Trap site, an important archaeological site.

- Project Status: Completed
- Total Project Cost: \$40,000
- JIO Funded: \$40,000
- Partners/Cooperators
 - University of Wyoming
 - National Park Service
 - BLM



Livestock Mitigation

Don Rogers Livestock Mitigation Project

Stud Horse Butte permittee Don Rogers is directly affected by much of the development in the area. Mr. Rogers would like to temporarily relocate livestock grazing from Stud Horse Butte Allotment to another location for a period of five years. This project requests livestock mitigation funding to pay for AUMs in alternative pasture. Temporary relocation would eliminate livestock losses due to the intensive development of the field. Not only will this project eliminate the conflicts between livestock grazing and gas development in the Jonah Field, it will assist with reclamation objectives by allowing reclamation sites a 2 year growing season prior to livestock grazing.

- Project Status: Funding occurring on an annual basis
- Total Project Cost: \$67,500
- JIO Funded: \$67,500
- Partners/Cooperators
 - Don Rogers - Grazing permittee



Rendezvous Ranches Livestock Mitigation Project

Rendezvous Ranches is a Sand Draw permittee directly affected by much of the development in the area. The permittee would like to temporarily relocate livestock grazing from the Jonah Field to another location for a period of five years. This project requests livestock mitigation funding to pay for AUMs in alternative pasture. Temporary relocation would eliminate livestock losses due to the intensive development of the field. Not only will this project eliminate the conflicts between livestock grazing and gas development in the Jonah Field, it will assist with reclamation objectives by allowing reclamation sites a two year growing season prior to livestock grazing.

- Project Status: Funding occurring on an annual basis
- Total Project Cost: \$360,220
- JIO Funded: \$360,220
- Partners/Cooperators
 - Rendezvous Ranch - Grazing permittee

Recreation Mitigation

Boulder Lake Campground Project

This project will expand a wildlife-friendly fence around the North Boulder Lake Campground to include the Boulder Lake shoreline from the dam to almost the allotment boundary. Motorized access to the shoreline will be blocked with boulder placements. An interpretive kiosk at the campground about the cultural and historic significance of the site is planned. Also, drill and equip a new well in the north portion of Boulder Lake Common Allotment to provide livestock water to replace access to the lake and prevent stream degradation.

Project Status: Construction in 2011

JIO Funded: \$84,500

Partners/Cooperators

BLM and grazing permittees



New Fork, East Fork Rivers Confluence Boat Ramp and River Access

This project will modify and upgrade the existing access area. Currently there are problems with access roads and erosion. This project will reclaim some roads, improving primary access road, developing a hardened boat ramp and parking area, constructing barriers to restrict vehicles from certain areas and signing. Phase II could add comfort station, additional parking, additional road improvements, modification of the river bank and tree planting.

Project Status: Construction in 2011

Total Project Cost: \$126,500

JIO Funded: \$126,500

Partners/Cooperators

Sublette County

Wyoming Game & Fish Department

BLM Pinedale



Wildlife Mitigation

Carney Ranch Conservation Project Phase I

This project will create a conservation easement on 2,571 acres of extremely valuable wildlife habitat in the upper Green River Valley which is at high risk for development. This property includes portions of the pronghorn migratory bottleneck (the Funnel Bottleneck) at the head of the Upper Green River, sage-grouse nesting and brood rearing habitat, approximately one mile of Green River frontage, elk winter range, moose crucial winter range, and other numerous wildlife habitat values.

The project meets wildlife mitigation goals for preserving and enhancing wildlife habitats.

Project Status: Conservation Easement completed;

Conservation Plan implementation in progress

JIO Funded: \$2,093,800

Total Project Acres: 2,411

Partners/Cooperators

Carney Family - Landowner

Doris Duke Charitable Foundation

The Conservation Fund

Wyoming Wildlife & Natural Resources Trust

Wyoming Stock Growers Agricultural Land Trust

Wyoming Landscape Conservation Initiative

National Fish & Wildlife





Cottonwood Ranches I Conservation Project

This three part project includes: 1) Conservation easement and conservation plan to preserve and/or enhance pristine wildlife habitat; 2) water efficiency project to allow improved irrigation and grazing management on 25,000 acres; 3) funding for intensive grazing management on a large scale (25,000 acres) that will address best management practices for sagebrush obligates. This project meets JIO wildlife mitigation goals for preserving and enhancing wildlife habitats.



Project Status: Conservation Easement completed;
Conservation Plan implementation in progress

JIO Funding: \$559,900

Total Project Acres: 27,000

Partners/Cooperators

- Freddie Botur - Landowner/Grazing permittee
- Doris Duke Charitable Foundation
- The Conservation Fund
- Wyoming Wildlife & Natural Resources Trust
- Wyoming Stock Growers Agricultural Land Trust
- BLM

Cottonwood Ranches II Conservation Project

This conservation easement and conservation plan on approximately 1,600 acres of private land includes: implementing improved grazing management on adjacent BLM allotments, state leases and private lands; and a water efficiency project designed to enhance grazing management, increase forage production (for wildlife and livestock), and improve stream and riparian health over a two-mile stretch of Cottonwood Creek. Project meets JIO wildlife mitigation goals for preserving and enhancing wildlife habitats.



Project Status: Conservation Easement completed;
Conservation Plan implementation in progress

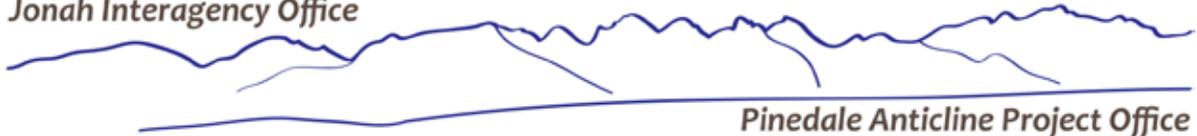
JIO Funding: \$910,417

Total Project Acres: 5,172

Partners/Cooperators

- Freddie Botur - Landowner/Grazing permittee
- Doris Duke Charitable Foundation
- The Conservation Fund
- Wyoming Wildlife & Natural Resources Trust
- Wyoming Stock Growers Agricultural Land Trust
- BLM





Cottonwood Ranches III Conservation Project

The Cottonwood Ranches III Peterson Place Project continues on the successful program developed in the first two phases of the Cottonwood Ranches Initiative, and is based on conservation easement acquisition coupled with long-term land management planning and habitat improvement projects. The general location was selected by the Jonah Interagency Office staff in 2007 for its outstanding wildlife values that mimic the Jonah Field. The overall goal of the Cottonwood Ranches Initiative is to conserve and enhance (where appropriate) the contiguous 90,000 acres of deeded and public lands controlled by the Cottonwood Ranches. Three progressive management plans are incorporated into a comprehensive plan that adds an additional contiguous 5,034 acres to the management planning area, and connects the Cottonwood Ranches site to the McNeel Trust JIO project site, providing a contiguous block of 50,000 acres being managed for benefits to sage-grouse and other affected species. This project includes the implementation of various practices to improve wildlife habitat including sage brush treatments, watering facilities, irrigation practices, and monitoring.



- Project Status: Conservation Easement completed;
Conservation Plan implementation in progress
- JIO Funded: \$1,613,350
- Total Project Acres of Conservation Easement: 1,797
- Total Project Acres under Conservation Plan: 50,000

Cross Lazy Two Ranch Conservation Project

This project involves (1) purchasing a conservation easement on the 4,410 acre Cross Lazy Two Ranch and (2) working with the landowners, JIO and local NRCS office to design, implement, monitor and adapt a mutually-agreeable conservation/habitat management plan for the private and public property described above that includes annual monitoring and a communication plan to ensure regular review and adaptation as necessary. Project meets JIO wildlife mitigation goals for preserving and enhancing wildlife habitats.



- Project Status: Conservation Easement completed;
Conservation Plan implementation in progress
- JIO Funded: \$2,000,000
- Total Project Acres: 51,156
- Partners/Cooperators

- Tim & Jody Thompson - Landowners
- Doris Duke Charitable Foundation
- Tom Thorn Sage-grouse Foundation
- Rocky Mountain Elk Foundation
- Wyoming Wildlife & Natural Resources Trust
- Green River Valley Land Trust



Diamond H Ranch Conservation Project

This conservation easement and conservation plan is on approximately 3,000 acres of high quality wildlife habitat which are undergoing significant small-tract home development. Habitat fragmentation resulting from development activities are considered to be among the state's greatest threats to wildlife habitat and to traditional agricultural operations. Project meets JIO wildlife mitigation goals for preserving and enhancing wildlife habitats.

Project Status: Completed

JIO Funded: \$479,430

Total Project Acres: 4,598

Partners/Cooperators

Miles & Corby McGinnis - Landowner

Doris Duke Charitable Foundation

Wyoming Wildlife & Natural Resources Trust

Wyoming Game & Fish Trust Fund

Natural Resources Conservation Service



Dynamic Message Signs

Funds are used to purchase four dynamic message sign boards to be put in place along Sublette County highways to advise drivers of wildlife crossing concentration areas. These portable signs are most beneficial during migration seasons. Project meets JIO wildlife mitigation goals by protecting antelope migration corridors at highway crossings.

Project Status: Funded 2007. Message signs are in use.

Total Project Cost: \$62,500

JIO Funded: \$62,500



Habitat Improvement Pilot Project (Arambel Reservoir Project)

This project includes treating four separate five acre test plots using Lawson Aerator; snow fence construction to add moisture for increased reclamation success; test of weed control methods; and repair of dam on Arambel Reservoir. Project meets JIO wildlife mitigation goals for preserving and enhancing wildlife habitats.

Project Status: Implementation in progress

Total Project Cost: \$868,685.25

JIO Funded: \$499,000

Total Project Acres: Directly: 1,830 Indirectly: 73,518
(allotment total)

Partners/Cooperators

Arambel - Grazing permittee

EnCana



Elk Mountain / Red Canyon Prescribed Burn

This project aims to improve upland plant communities for various wildlife species, including sage-grouse with prescribed burning of 20,000 acres (approximately half black) in a mosaic pattern in the Elk Mountain area. This is the most environmentally acceptable method to stimulate regeneration of desired plant communities (aspen, mountain shrubs and grasses). Project meets JIO wildlife mitigation goals for preserving and enhancing wildlife habitats.

- Project Status: Completed
- Total Project Cost: \$90,000
- JIO Funded: \$72,000
- Total Project Acres: 20,000
- Partners/Cooperators

- Numerous Landowners & Grazing permittees
- Bear River Cooperative Resource Management
- Rocky Mountain Elk Foundation
- Wyoming Sage-grouse Working Group
- Wyoming Landscape Conservation Initiative
- Wyoming Wildlife & Natural Resources Trust
- State of Wyoming
- Wyoming Game & Fish Department
- BLM Kemmerer



JIO Focus Area Inventory Project

This project involves collecting baseline vegetation information across the JIO focus area to better identify problems and opportunities for future projects to address JIO mitigation targets and goals. Another aspect of this includes the use of inventory information to develop conservation plans associated with JIO projects, in particular those involving an easement and associated conservation plan.

- Project Status: Completed
- JIO Funded: \$333,875
- Total Project Cost: \$370,000
- Partners/Cooperators

- Tom Thorne Sage-grouse Fund
- Wildlife Heritage Foundation
- North-Wind
- grazing permittees
- Sublette County
- NRCS
- BLM



Jonah Raptor Nest Platforms

This project constructs and places nesting platforms for ferruginous hawks. The project meets JIO wildlife mitigation goals for preserving and enhancing wildlife habitats.

- Project Status: In Progress
- Total Project Cost: \$2,153
- JIO Funded: \$2,153



McNeel Conservation Easement & Conservation Plan

This project involves the purchase of a conservation easement on 640 acres of McNeel Ranch and implementing a conservation plan that encompasses 11,079 acres (640 acres of private land and 10,439 acres of BLM lands). The McNeel Conservation Easement and Conservation Plan meets the JIO wildlife mitigation goals for preserving and enhancing wildlife habitats and provides continuity of important habitat with existing conservation projects (Cottonwood Ranches) funded through JIO.

- Project Status: Conservation Easement completed
- JIO Funded: \$320,000
- Total Project Acres: 11,079
- Partners/Cooperators
 - Lee & Eva Kelly
 - The Conservation Fund
 - Doris Duke Charitable Foundation
 - Tom Thorn Sage-grouse Foundation
 - BLM Pinedale

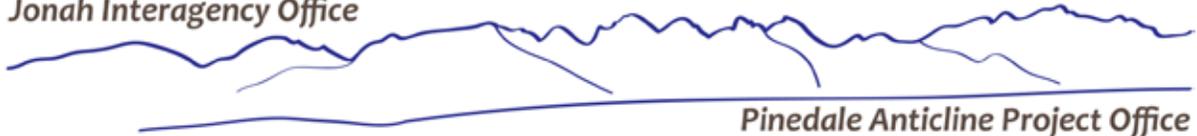


MJ Ranch Conservation Project

Conservation easement and conservation plan on sagebrush habitat used by sage-grouse, mule deer, pronghorn, and elk, and stream habitat used for spawning by brown trout. Project meets JIO wildlife mitigation goals for preserving and enhancing wildlife habitats.

- Project Status: Conservation Plan implementation in progress
- JIO Funded: \$536,821
- Total Project Acres: 4,836
- Partners/Cooperators
 - Mark & Renee Jones - Landowners
 - The Conservation Fund
 - Wyoming Wildlife & Natural Resources Trust
 - Natural Resources Conservation Service





Noble-Cora Peak Wildlife Project

This project includes three separate components: 1) Upgrade an existing spring and install a diversion to divert sediments away from the spring. Spring provides essential vegetation for sage-grouse brood rearing, and drinking water for all forms of wildlife, including sage-grouse and pronghorn; 2) Down the draw from the spring, drill and install a new watering well with facilities for wildlife and livestock. This well will allow water to run-off down into the draw and into an old reservoir potentially creating vegetation essential for sage-grouse brood rearing. This watering facility will also create clean drinking water for pronghorn, as this is in the migratory area. The potential exists to install a wildlife friendly fence around the spring and reservoir; 3) Drill well and install second watering facility in northeast area of allotment. This well will provide drinking water for pronghorn and mule deer, especially during migrations, as well as livestock. The potential exists to develop plans for vegetation improvements if warranted. The project proponent will use the watering systems to implement a rotational grazing pattern throughout the allotment.



- Project Status: In progress
- Total Project Cost: \$64,640
- JIO Funded: \$64,640
- Total Project Acres: 2,350 (allotment total)
- Partners/Cooperators
 - Noble: Grazing permittee
 - BLM Pinedale

Range Improvement Water Trough Bird Ramps

This project reduces and installs wildlife escape ramps in all BLM range water improvement tanks in coordination with BLM Range and Wildlife Staff. Project meets JIO wildlife mitigation goals for preserving and enhancing wildlife habitats, especially birds.

- Project Status: In progress
- Total Project Cost: \$36,500
- JIO Funded: \$36,500
- Partners/Cooperators
 - Green River Valley Land Trust
 - Future Farmers of America: Pinedale
 - Pheasants Forever
 - Numerous volunteers
 - BLM Pinedale



Rock Creek Subdivision Antelope Migration Fence Modification

This project provides funding modification of fences in the Upper Green subdivision and in an important migratory bottleneck for pronghorn antelope. Project meets JIO wildlife mitigation goals by improving antelope migration corridors at fence crossings.

Project Status: Completed

Total Project Cost: \$18,804

JIO Funded: \$18,804

Partners/Cooperators

Landowners

Wyoming Game & Fish Department



Ryegrass Mowing

Mechanical treatments (mowing) of sagebrush on the Ryegrass Individual and James Ryegrass allotments will restore the early-seral portion of the sagebrush community. This project will likely have a beneficial effect to sage-grouse and pronghorn by increasing grass and forb diversity in the understory vegetation. Project meets JIO mitigation goals by maintaining and/or enhancing sagebrush-steppe habitat for sage-grouse and pronghorn antelope.

Project Status: Completed

Total Project Cost: \$13,000

JIO Funded: \$13,000

Total Project Acres - Directly: 1,600 - Indirectly: 5,685 (allotment total)

Partners/Cooperators

Grazing permittees

BLM Pinedale



Sommers-Grindstone Conservation Project

This project consists of three distinct conservation projects: 1) the Sommers/Todd Place project, 2) the Scott Place project, and 3) the Duke Place project. All three projects combined encompass approximately 19,000 deeded acres at two critical locations along the Green River in northern Sublette County and at an important corridor and buffer area between the Bridger Teton National Forest and the Green River. This project includes conservation practices to maintain/enhance valuable wildlife habitat, preserve a significant historical site, and provide public fishing access.

Project Status: Conservation Easement completed

JIO Funds: \$5,000,000

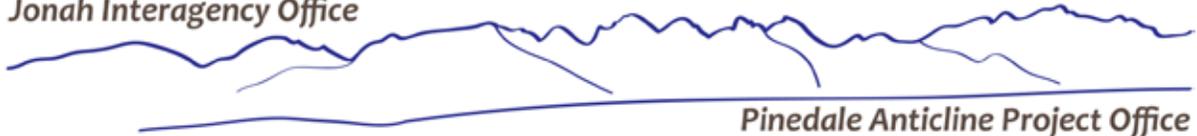
Total Project acres under Conservation Easement: 19,000

Partners/Cooperators

Landowners (Sommers & Miller)

Numerous other financial partners





Squaretop Water Wells

This project includes improving three watering facilities in the Squaretop Allotment and creating a “wildlife only area” in each location. An overflow on each well will create a pond or green-up zone that will be fenced for wildlife only access. The watering facilities will provide essential drinking water to wildlife and livestock and will improve livestock grazing distribution across the allotment. Project meets JIO goals by improving or enhancing wildlife habitat.

- Project Status: Completed
- Total Project Cost: \$73,944
- JIO Funded: \$73,944
- Total Project Acres - Directly: 15 - Indirectly: 38,000 (allotment total)
- Partners/Cooperators
 - Squaretop Grazing Association
 - BLM Pinedale



2009 (after with pronghorn)



2009 (after with sage-grouse)

Wildlife Friendly Fencing Initiative

This project inventories fences within a portion of the pronghorn migration route from the Forest Service boundary to Trapper’s Point in Sublette County, Wyoming. This project will map each fence’s location; evaluate which fences most affect pronghorn and other big game migration based on objective criteria developed by project partners (including private landowners and public land managers). Subject to the consent of the owners and obtaining necessary access to do the work, the project modifies, reconstructs and/or removes fences to facilitate better pronghorn movement within the route before the fall migration. The project also monitors and evaluates the project’s effectiveness. Project meets JIO mitigation goal by improving antelope migration corridors at fence crossings.

- Project Status: Completed
- Total Project Cost: \$2,406,180
- JIO Funded: \$1,000,000
- Partners/Cooperators
 - Green River Valley Land Trust
 - EnerCrest
 - Environmental Defense Fund
 - Family Foundations
 - Mule Deer Foundation
 - Safari Club International



- National Fish & Wildlife Foundation
- Private donors
- Natural Resources Conservation Service
- Bridger-Teton National Forest
- BLM



Wildlife & Livestock Mitigation

Boundary-Sublette Allotment Project

This project provides wildlife and livestock drinking water by drilling two new wells and upgrading two wells south of the Jonah Field. The project also repairs and extends wildlife friendly fencing between two allotments to reduce livestock drift from Jonah. The fence will also allow for grazing rotation which may improve habitat values. Project meets JIO wildlife mitigation goal by improving habitat outside of the Jonah Field. Project meets JIO livestock mitigation goal by relocating livestock away from the Jonah Field and thus reducing the livestock impact.



Project Status: Completed

Total Project Cost: \$242,000

JIO Funding: \$242,000

Total Project Acres - Directly 5 - Indirectly: 42,000 (Size of allotment)

Partners/Cooperators

Grazing permittees

BLM Rock Springs

Pinedale Anticline Project Office Monitoring and Mitigations Projects

Wildlife Monitoring Projects

Mule Deer Monitoring Project

Purpose: Quantitatively monitor and report mule deer population parameters and habitat use within the Pinedale Anticline Project Area (PAPA) and compare to reference area populations and habitat use.

Project Status: Annual data collection

PAPO Funded: Approximately \$200,000 per year



Pronghorn Monitoring Project

Purpose: Quantitatively monitor and report pronghorn population parameters and habitat use within the PAPA and compare to reference area populations and habitat use.

Project Status: Annual data collection

PAPO Funded: Approximately \$220,000 per year



Sage-grouse Monitoring Project

Purpose: Quantitatively monitor and report Greater Sage-grouse population parameters and habitat use within the PAPA and compare to reference area populations and habitat use. Monitor noise at leks.

Project Status: Annual data collection

PAPO Funded: Approximately \$250,000 per year



Pygmy Rabbit Monitoring Project

Purpose: Quantitatively monitor and report occurrence and numbers of pygmy rabbits and identify distribution and numbers changes within the Pinedale Anticline Project Area (PAPA) and compare to reference area populations and habitat use.

Project Status: Annual data collection

PAPO Funded: Approximately \$170,000 per year



Raptor Monitoring Project

Purpose: Determine the location and activity status of approximately 650 raptor nests/territories and nest searches for new nests within the PAPA and a one mile buffer of the PAPA. Surveys of the New Fork and Green River Corridors (within the PAPA boundary and a one mile buffer) will be conducted to determine the occurrence/potential occurrence of winter bald eagle roosts.

Project Status: Annual data collection

PAPO Funded: Approximately \$120,000 per year



Snow Depth and Traffic Monitoring Project

Purpose: Quantitatively monitor and report snow depth and traffic volumes with the PAPA and compare to referenced area populations and habitat use.

Project Status: Annual data collection

PAPO Funded: Approximately \$35,000 per year



White-tailed Prairie Dog Monitoring Project

Purpose: Quantitatively monitor and report occurrence and numbers of white-tailed prairie dogs and identify distribution and numbers changes within the PAPA and compare to reference area populations and habitat use.

Project Status: Annual data collection

PAPO Funded: Approximately \$60,000 per year



PAPO Mitigation Projects

Air quality spatial measurement and survey approach for improving emission inventory factors and VOC input data for ozone modeling associated within the PAPA

Project Status: In progress

PAPO Funded: \$477,334

American Recovery and Reinvestment Act (ARRA) Diesel Emissions Reduction Act (DERA)

Project is co-funded with JIO.

Project Status: Completed

PAPO Funded: \$262,470



Mesa Mule Deer Winter Habitat Improvement Project

The PAPO and the WGFD implemented a rangeland fertilization project on 468 acres on the Pinedale Anticline to offset natural gas development impacts to the wintering mule deer and year round Greater Sage-grouse populations. Sagebrush leaders and herbaceous production will be closely monitored on an annual basis during the next several years to determine the success of the treatment. Future projects or phases are being considered and identified pending the success of the project based on the monitoring results.

Project Status: Completed with annual monitoring for five years

PAPO Funded: \$46,000



Sommers/Grindstone Conservation Easement Project

This project was co-funded with JIO funds.

Project Status: Conservation Easement completed

PAPO Funded: \$6,000,000 USQ (\$90,000 for each USQ contributor) to be credited toward each USQ contributor's December 2009 payment into the PAPO Mitigation Fund.

Status: Reimbursement completed

JIO/PAPO Reclamation Monitoring

A reclamation monitoring plan was developed to give standardized guidance monitor reclamation success in the Jonah Field and the Pinedale Anticline Project Area. This plan contains criteria that are required to be measured and reported annually to BLM and the JIO/PAPO.

The JIO/PAPO evaluates annual monitoring reports, supports or refutes findings of reclamation assessments regarding success and rationale, and recommends adaptive management as warranted to achieve successful reclamation. In addition, the JIO/PAPO team will conduct on-the-ground monitoring to verify findings and identify critical areas for reclamation. This team's goal is to restore a sustainable habitat on the Pinedale Anticline which supports multiple-use and wildlife needs.

Criteria were set forth in the SEIS ROD and the goal of the JIO/PAPO's to achieve these standards. Weed management is a large part of the overall plan for reclamation; each operator is required to comply with BLM-approved weed management plans. The JIO/PAPO hosts on-going seminars for reclamation and weeds management to aid in the efforts. Weed management has been in place since 2009, and has proven to be a valuable tool in overall restoration success.



