Great Basin Research and Management Partnership



Great Basin Consortium Meeting November 7 – 9, 2011

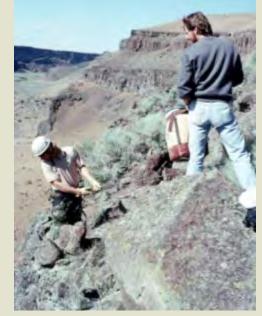
http://greatbasin.wr.usgs.gov/gbrmp/

Great Basin Research and Management Partnership

Mission

- Integrated research and management organization,
- Promotes comprehensive and complementary collaborations, and
- Provides leadership, commitment and guidance to ensure that the collaborations are effective







GBRMP Goals

Promote comprehensive and complementary collaborations



- Maximize integration of science and management
- Provide leadership and commitment
- Grow inter-disciplinary, multi-organizational teams
- Commit and leverage limited resources
- Implement communication and information sharing

Partner Organizations

- Desert Research Institute
- Idaho State University
- Oregon State University
- University of Nevada, Reno
- University of Nevada, Las Vegas
- Utah State University
- Nevada Department of Wildlife
- Utah Department of Natural Resources
- National Aeronautics and Space Administration
- National Park Service

- Natural Resources Conservation Service
- U.S. Fish and Wildlife Service
- U.S. Geological Survey
- USDA Agricultural Research Service
- USDA National Institute of Food and Agriculture
- USDA Forest Service, Region 4 and Rocky Mountain Research Station
- USDI Bureau of Land Management

GBRMP Beginnings, 2006 Workshop on Collaborative Research and Management

200 Research and Management Participants Federal, Tribal, State, Local, NGO

Focus

Obtaining science information Priority issues Available resources Building effective collaborations

Summary

Chambers, J. C., N. Devoe, A. Evenden. 2008. Collaborative management and research in the Great Basin – Examining the issues and developing a framework for moving forward.



General Agreement Integrated, collaborative framework is needed to sustain Great Basin ecosystems

GBRMP Structure

Executive Committee

Provide leadership and authority
Pursue and allocate resources
Assure progress and transparency

Coordinating Committee

Identify issues
Develop and assist Working Groups
Monitor and report progress



Working Groups

Information Management Group

Communication and information sharingDevelop/maintain web-based clearinghouse, tools

Science/Technical Group

Address priority research needs
Synthesize existing information
Conduct new research
Develop recommendations

GBRMP Unique Contributions to the GB Consortium

- Really a grassroots organization
 - Partners/collaborators from many Great Basin organizations
 - Includes: Federal State Local
 Tribal Private NGO
- Mobilizes teams of researchers and managers to fund and implement projects that address priority science needs
- Provides a web based clearinghouse of information for the Great Basin





GBRMP Unique Contributions Science Working Groups

USDA REENet (Research, Education and Extension Network) Exotic Bromus grasses in agroecosystems of the Western US. Synthesis of current and future invasions, impacts and management

USGS Powell Center

Integrating ecological forecasting methods to improve prioritization of natural resource management: An invasive species example

Joint Fire Science Program

Great Basin Science Delivery Project: Focused on fire and fire ecology

GBRMP Unique Contributions Information Working Group

Web-based Clearinghouse of Great Basin Information

- Initially supported by USGS FRESC, USFS RMRS and OSU
- Tools and Features
 - Consortia Data Base
 - Expert's Data Base
 - Research Catalog and The Science Locator
 - Bibliography (>6,800 citations on Great Basin)
 - Upcoming Meetings and Links
 - Metadata Server
 - Project pages: --Joint Fire Science Great Basin Science Delivery
 --USDA REENet (Research, Education and Extension for Managing Invasive Bromes)

http://greatbasin.wr.usgs.gov/gbrmp

GBRMP Website: Consortia Database



GBRMP Consortia Database

Conservation in the Great Basin is increasingly being pursued through the creation of multi-agency, interdisciplinary committees, consortia, coalitions, working groups, and partnerships. The GBRMP Consortia Database provides a way to easily identify various groups in the Great Basin and obtain a quick reference to their goals, points of contact, and relationships.

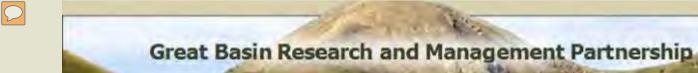
There are 3 ways to search the database: by selecting a consortium from a pull-down list of all consortia; by searching for consortia using a word in the consortium name; or by selecting from keyword, agency, and state lists. Click on the button that describes the search you want to use. A list of consortia that match your search criteria will appear to the right of the search. Click on a consortium in the list to view details about the group and partners within that group.

Click on a button below to choose a selection method:

Search for Consortia by Name (multiple re	eturns)
Enter a search term in the box and click the	button
Sagebrush	
Get Consortia data list	

Click on a consortium to view details in box below. **Cooperative Sagebrush Initiative** Cooperative Sagebrush Steppe Restoration Initiative Sagebrush Bird Conservation Network Sagebrush Landscape Project Sagebrush Sea Campaign SageSTEP,Sagebrush Steppe Treatment Evaluation Project

Cooperative Sagebrush Initiative Website Contact: Karl Hess



Working Groups Tools Publications Funding Links Contact Us

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Click on a button below to choose a selection method:

Select a Consortium from the List (single return)

Partners

Search for Consortia by Name (multiple returns)

Chick on a consortium to view details in box below Cooperative Sagebrush Initiative

Enter a search term in the box and click the button.

cooperative sagebrush initiative

About Us

Home

Get Consortia data list

Advanced Search (keyword, agency, state)

Cooperative Sagebrush Initiative

Website Contact: Karl Hess Email: karl_hess@fws.gov Phone: 703-358-2293 Region: Western US Initiated: 2006

Initiated: 2006

Mission Statement: Recovery of the western sagebrush steppe biome Through a collaborative, coordinated, and cost-effective publicprivate partnership Built upon incentives for landowners, local communities, and private industry to invest in habitat restoration and other conservation actions Resulting in long-term, verifiable recovery of the greater sage grouse and improvement of other species of concern in the sagebrush range.

Objectives: ? Explore opportunities for shared stewardship on public lands ? Maximize ecological outcomes per dollar invested in species conservation ? Explore more effective ways to achieve mitigation, such as conservation credits ? Promote efficient expenditure of conservation funds region-wide for all parties ? Facilitate resource sharing, enabling one-stop conservation assistance ? Focus on conservation outcomes based on solid science and monitoring ? Foster operational efficiencies for agencies, industry, and conservationists ? Encourage conservation innovation through experimentation ? Increase opportunities to resolve conflict short of litigation ? Achieve savings for conservation through administrative efficiencies ? Focus on incentives to encourage effective private land stewardship

Partners:

GBRMP Website: Participants / Expertise Database



Search the GBRMP Participants and Expertise Database

Submit a new participant or expertise

Use a Keyword Search to generate a list of GBRMP Participants and Expertise in one of two ways:

- Select keywords from the "Choose Keywords" list below that describe the subject(s) in which you are interested. Multiple keywords can be selected by holding down the Crtl key. Note: This extensive keyword list is drawn from the Community of Science, and contains over 1,000 options. Alternately, you may wish to:
- 2. Type in search terms (separate each term with a comma) in the "Add Additional Search Terms" below the keyword list. Select whether the search should be for any term entered or for all terms entered, then click the Search button.

A list of Participants and Experts that match your search criteria will appear to the right of the Keyword list. Click on an expert in that list to view details and contact information.

Choose Keywords

Great Basin Priority Issues	Name	Expertise		
Aboriginal Studies	Belmont, Patrick	Water Resources, Urbanization and Changing Land Use, Geomorphology, Hydrology		
Aerial Geography Agribusiness Agricultural Chemistry Agricultural Collectives or Cooperatives Agricultural Conservation Agricultural Economics Agricultural Engineering	Buto, Susan	Earth Remote Sensing, Spatial Data or Analysis, Geographic Information Systems, Geographic Quantitative Methods, Water Resources		
	Calvin, Wendy	Energy Geosciences, Renewable Energy, Earth Sciences Education, Mineralogy, Remote Sensing		
	Glenn, Nancy	Remote Sensing Technology, Satellite Detection or Classification, Earth Remote Sensing, Geomorphology, Sagebrush Ecosystems		
	Heide, Sarah	Fire, Aspen Ecosystems, Sagebrush Ecosystems, Range Management		
Agricultural Finance	Howard, Keith	Natural and Physical Sciences, Mathematics and Technology, Geology,		



GBRMP Website: **Participants** / **Expertise Database**

- Provides bio
- Contact information
- Website link

Great Basin Prionty Issues Aboriginal Studies Acid Precipitation	1	Name Bekedam, Steven	Expertise Invasive Plants, Sagelinali Ecosystema, Pin
Aerial Geography		Blandi, France	Dendrosology, Satistical Ecology, Spatiel Data or Analysis, Environmental Monitoring, Water Resources Environmental Impacts
Agribusiness Agricultural Chemistry Agricultural Colectives or Cooperatives Agricultural Conservation	-	Brown, Jack	Great Beain Peterlly Issues. Fire, Invasive Flants, Segebrush Bossystems
		Brunson, Mark	Behaviorei er Sociel Studies: Frie, Invesive Pierfx, Public Perceptions of Land Menagement, Range Nanagement,
Agricultural Economics		Call, Chris	Sagebruch Emplatema, Invesive Planta, Range Hanagement
Agricultural Engineering		Carlock, Carol	Fre
Agricultural Finance Agricultural Geography		Chedwick, Brook	Fre
Agricultural Law Agricultural Management		Chambers, Jeanne	Segebrush Embysteme, Riparian and Aquatic Ecosystems, Invasive Plants, Plant Emology, Fire
Agricultural Planning or Policy		Dond, Dester	
Agricultural Products, Physical Properties Agriculture		Drake, Barbara	Environmental Restoration of Ramediation, hydrology, Watarsheda, Water Righta
Agriculture Education		Evers, Louisa	Fire: Sagebruan Ecosysteme, Forest Henagement
Agronomy Air Pollution		Findi, Cleborah	Rare and vulnarable Species, Riganar and Aquatic Boosystems, Biological Sciences, Environmental Sciences, Climate Change
Air Quality Air Transportation		Fleishman, Erica	Elimate Change, Fire, Natural Resources Management, Conservation Biology, Landszepe Biology
Algorithms		Germino, Matthew	Fire, Invasive Fiertz, Segetrust Ecceptians, Plant Ecclogy, Biolythology
American Studies Analysis and Functional Analysis		Glann, Nancy	Remote Sensing Technology, Satellite Detection or Casafication, Earth Remote Sensing, Geomorphology, Segetment Ecosystems
dd additional Search terms		Gresswell, Robert	Tire, Climate Change, Rare and Vulnerable Species, Riparian and Aquatic Ecosystems, Biological Sciences
Any term C All terms	any term C all terms		Dimate Change, Water Resources, Crop Modeling, Flent or Soil Nutrient Biosvailability, Biological Modeling
Search for Experts		Hallows, Brant	
		Hardedree, Stuart	Investive Plants, Environmental Restoration or Remediation

Details about the selected expert:

Name: Deborah Finch

Position: Research Wildlife Biologist

Affiliation: USDA Forest Service

Affiliation Group: Federal Government.

Address: 333 Broadway SE Suite 115 Albuquerque, New Mexico 87111

Phone Number: 505-401-0580

E-mail: dbnch@fs.fed.us

Website: http://www.fs.fed.us/rmrs/albug

Expertise: Rare and Vulnerable Species, Riparian and Aquatic Ecosystems, Biological Sciences, Environmental Sciences, Climate Change

Interests: Climate Change, Invasive Plants, Fire, Urbanization and Changing Land Use, Rare and Vulnerable Species, Riparian and Aquatic Ecosystems

Additional Information: Deborah Finch received her Bachelors Degree in Wildlife Management from Humboldt State University, Arcata, CA, her Masters in Zoology and Physiology from Arizona State University, Phoenix, and her PhD in Zoology and Range Science from University of Wyoming, Laramie, Deborah has been a research wildlife biologist employed by the Rocky Mountain Research Station since 1978. Her research interests include assessing climate change, ecosystem restoration, fire and fuel management ecology, nparian and grassland ecology and health, avian reproductive ecology and habitat relationships, invasive and exotic plants, community ecology, endangered species, and technology transfer. During her career, she has worked on various research projects in Colorado, Wyoming, Arizona, Oklahoma, Texas, Oregon, New Mexico, California, and Mexico.

Interested in the following working groups:

GBRMP Website: Science Locator

Query database

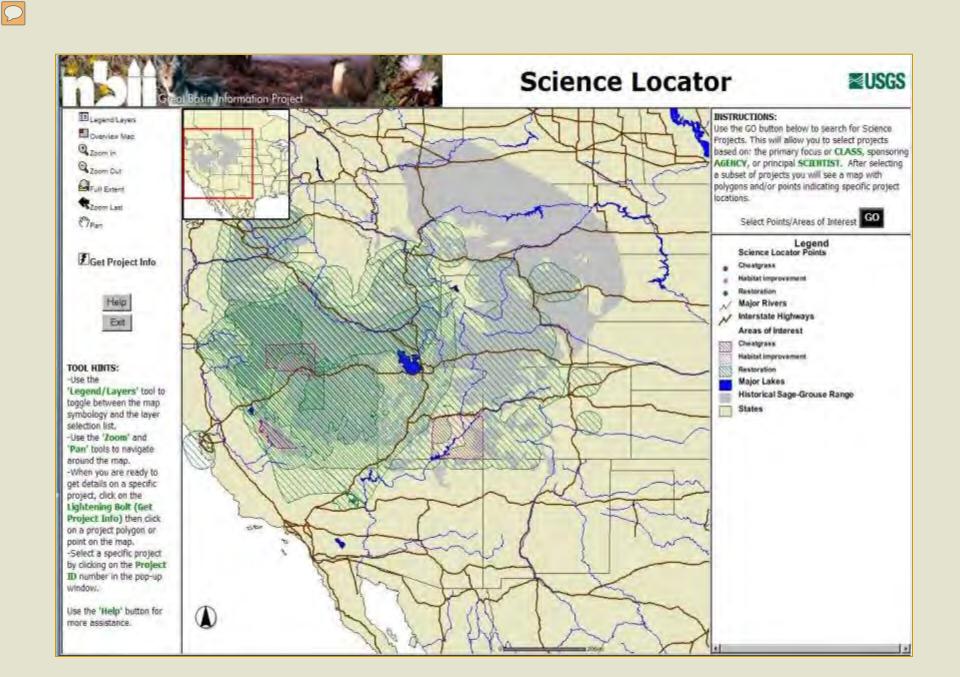
- Class of research
- Agency
- **Scientists**

Example:

- Cheatgrass
- Restoration
- Habitat improvement

Science Locator

- □ Amphibians C Aquatic Biology Butterflies Birds Cattle Grazing Cheatgrass Γ. Climate Change □ Community Ecology Conservation Disturbance Ecology п □ Energy Development □ Fire Fire Ecology F Fish Genetic Conservation -□ Herbicides □ Hydrology Information Management T Invasives п Invertebrates ☐ Mammals-Bighorn Sheep ☐ Mammals-Prairie Dogs T Management □ Mapping Native Plants Off Road Vehicles г Prescribed Fire □ Plants Rangeland Disturbance □ Raptors ☐ Remote Sensing T Repuiles Restoration □ Riparian Ecology □ Sage Grouse Sagebrush □ Shorebirds □ Soil Crusts □ Surface Litter □ Songbirds Waterbirds □ Wildfire
 - Colonial Nesting Birds Ecolgoy and Kids Environmental Indicators Forest Management Mammals-American Pika Mammals-Pygmy Rabbits Pinyon-Juniper Encroachment Wetlands Management □ Wildlife Diseases



GBRMP Website: Science Locator

Areas of Interest									
Rec	ID	ID_1	PRJ_STATUS	CLASS	SCI_L_NAME	AGENCY_ABR			
4	63	63	Completed	Restoration	Pyke	USGS-FRESC			
28	189	169	Active	Cheatgrass	Miller	USGS-SBSC			
29	170	170	Active	Cheatgrass	Chavez	USGS-WR-GEOG			

Cheatgrass Distribution and Dynamics in Relation to Soil-Geomorphic Properties in Southeaster Utah (Mark Miller, USGS, SBSC)

Cheatgrass Distribution and Dynamics in Relation to Soil-Geomorphic Properties in Southeastern Utah

We are investigating effects of landscape evolution and inherited soil-geomorphic attributes on the spatial distribution and temporal dynamics of cheatgrass in the midst of sagebrush-dominated landscapes of southeastern Utah. This work combines intensive and extensive field studies with analyses of remotely sensed imagery to develop and test hypotheses concerning edaphic controls over cheatgrass invasion patterns on public lands managed by BLM, NPS, and The Nature Conservancy. Methodological approaches and results have potential applicability to sagebrush steppe in the Great Basin.

Mark Miller Research Ecologist 435-644-4325 mark_miller@usgs.gov http://sbsc.wr.usgs.gov/

No photographs exist for this project.

GBRMP Unique Contributions

Workshops and Symposia

- Collaborative Research and Management. 2006 Workshop
- Alternative Futures for the Great Basin. 2007 Ecological Society of America, Oral Session
- New Paradigms for Collaborative Research and Management in the Great Basin. 2011 Society for Range Management Symposium



GBRMP Unique Contributions

Syntheses of Critical Issues

- "Collaborative Management and Research in the Great Basin—Examining the Issues and Developing a Framework for Action" USDA Forest Service, RMRS
- "Great Basin Research and Management Priority Issues for an Imperiled Ecosystem" Restoration Ecology
- "Climate change impacts on Northwestern and Intermountain US rangelands" Rangelands



GBRMP Strategic Plan Mapping the Road Forward

Strategic plan in place for:

- Enhancing regional collaboration
- Addressing new consensus needs
- Developing mechanisms for support

Road forward....

GBRMP strengths:

- Successful partnership with outcomes
- Connect research to management
- Can serve all Great Basin Consortium
 - Website tools can be direct links from collaborator's pages
 - Website toolbox can grow with support

