The Great Basin Science Delivery Project

A Member of the JFSP Knowledge Exchange Consortia

Assist Great Basin land managers in identifying fire and resource management technical needs

Synthesize information and develop tools to meet these needs

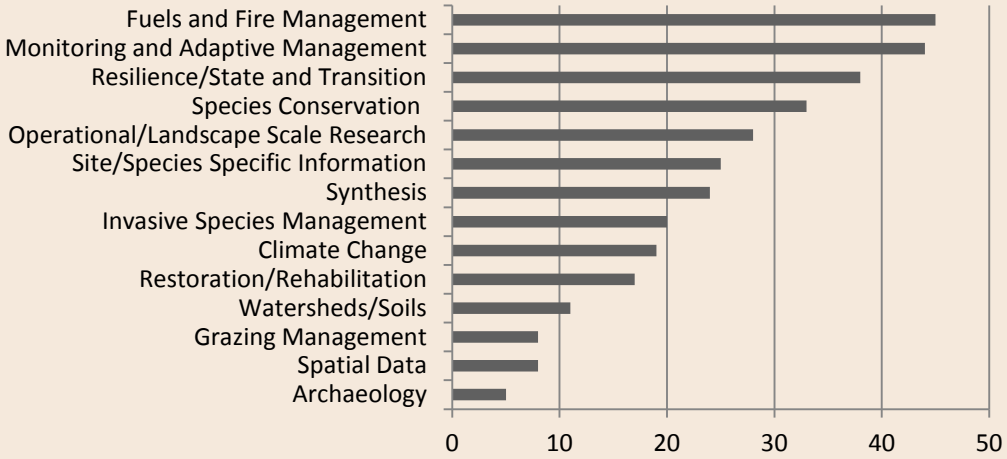
Provide these tools through venues preferred by field specialists, including developing direct connections with research scientists

Eugénie MontBlanc, Coordinator
University of Nevada, Reno
8 November 2011

Structure and Governance:

- The project planning phase was funded by the Joint Fire Science Program in 2009, and the first implementation phase was funded from Sept 2010-Sept 2012.
- Renewal proposals are required for each two-year funding cycle.
- Governed by six-member Steering Committee, advised by eight-member Advisory Committee

Great Basin Science Delivery Project



Technical Needs

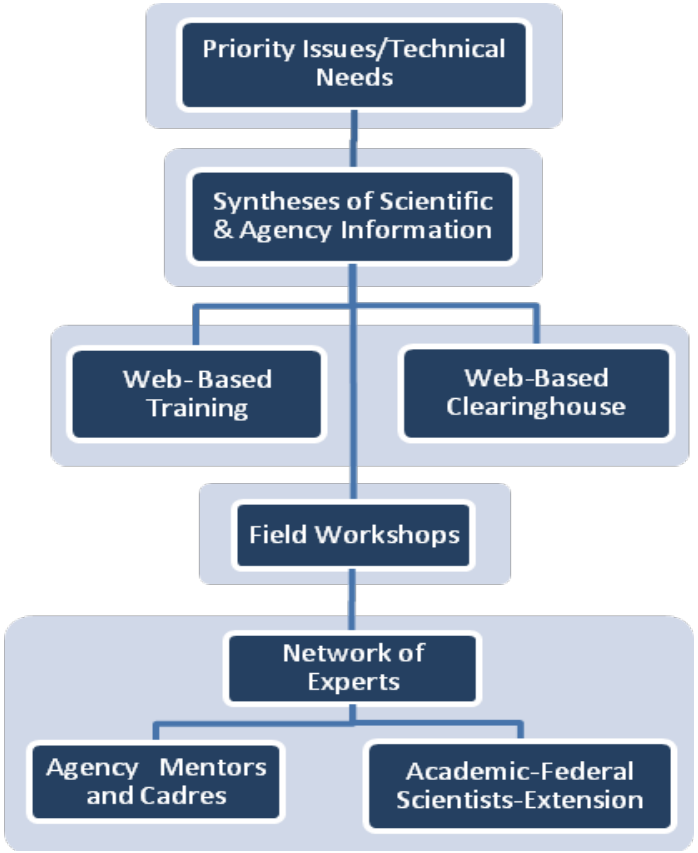
Needs assessments of 111 field-level agency managers examined technical needs and preferred modes of delivery.

Delivery Modes

This information was used to develop a model for science delivery based on participatory assessment, monitoring, and evaluation.

Model for Science Delivery:

1) Ongoing identification of needs
2) Syntheses of scientific and agency information
3) Web-based training
4) Web-based clearinghouse
5) Field workshops
6) Networks of experts
7) Program effectiveness assessments



News You Can use

Resistance to Invasion and Resilience to Fire in Desert Shrublands of North America
Sept 2011

The Role of Soil Seed Banks in Sagebrush Restoration
Fall 2011

Effectiveness of fuel treatments in the west depends on thinning intensity
August 2011

More News...

Syntheses

Saving the sagebrush sea: An ecosystem conservation plan for big sagebrush plant communities

Review of Fuel Treatment Effectiveness in Forests and Rangelands and a Case Study from the 2007 Megafires in Central Idaho, USA

Ecology and Conservation of Greater Sage-Grouse: A Landscape Species and Its Habitats

More Syntheses...

Lessons from Case Studies

We are still in the process of developing this section. In the meantime, please check out project "Findings" on the Joint Fire Science page by clicking here.

Online Courses

Free online courses for fire, fuels, and vegetation management.

Join our mailing list | Follow @GBfirescience

Science Delivery Blog

Create a Blog entry

Sagebrush seeding post-fire, response 3

As an addition to the second question asked, the fire rehabilitation specialists on the Boise District BLM feel an increased seeding rate should be considered when attempting an aerial seeding of sagebrush. There are a handful of examples on the District where aerial seeding of sagebrush was successful when the seeding rate was increased by 2X or 3X the normal rate of the past. Stuart Hardegree, a plant physiologist with the ARS Northwest Watershed Research Center, has been compiling existing literature/data to support the idea of increased seeding rates when rehabilitating or restoring semi-desert environments. He may be able to add more to this discussion.

Sarah Heide 11/2/2011 3:51:37 PM

Sagebrush seeding post-fire, response 2

Let me add to Kent's comments and then provide some additional insights. In the Nevada study that Kent mentions, if I'm remembering correctly the seeding failed, so the study could not conclude that the seeding was not impacted by grazing. In that particular study, we don't know the if there was an impact. Also, the grazing that occurred was not during the growing season, so that did reflect the what I saw in the literature. However, the literature is pretty scant on this topic. Part of the "it depends" response is not just the site characteristics, but also the stocking rate and season of use. If one is seeding sagebrush in the mid to late fall, then it is feasible that livestock might be used as a means of getting soil to seed contact, but there is no information on this approach. I can conceive of someone aerial seeding sagebrush in mid fall and then herding livestock across the seeding area to potentially trample seeds into

More Science Delivery Blog...

Upcoming Events

Association for Fire Ecology Interior West Fire Ecology Conference: Challenges and Opportunities in a Changing World
14-17 November 2011, Snowbird, UT,

Restoration of Sagebrush Ecosystems (Course No.1730-60)
5-8 December 2011, National Training Center,

Funding Opportunities

Sustainable bioenergy research-Letters of intent due Oct 25th, applications due Dec 15th

Lincoln County Archaeological Initiative Round 5

Webinar Information

Date	Presenter(s) Name	Webinar Title	# Attendees	# Viewed Recording
22-Nov-10	Matt Germino and Jason Williams	Post-fire wind and water erosion in the Great Basin: results and management implications	64	83
24-Jan-11	Rick Miller	Effects of fire and mechanical treatments on plants and wildlife in western juniper and pinyon-juniper woodlands	108	114
24-Feb-11	Steve Bunting	Changes in fuels across the western juniper/pinyon-juniper woodland successional gradient and implications for effective use of fire treatments	46	73
21-Mar-11	Steve Knick	Conservation issues related to sage grouse: approaches for prioritizing management	68	50
20-Apr-11	Jeanne Chambers	Understanding resistance to invasion and resilience to disturbance – importance for restoring and managing Great Basin rangelands	60	37
21-Sep-11	David Pyke	Discussion of objective-setting for resumption of grazing post-fire and rehabilitation activities	78	34
26-Oct-11	Faith Ann Heinsch	Climate change, climage variability, and ecosystem response in the Great Basin	19	Awaiting October stats

Feedback from the fire/resource community:

- "I just received a forward of your 'Science Delivery Project update/Focus group results - Great Basin' email. It looks like the group did a good job of capturing our concerns if the need assessment. Please add to your mailing list for the Great Basin Science Delivery Project."
- "Thanks for following up on this, I really appreciate it. I am very interested in the plateau studies and will give Charlie a call."
- "I just discovered the website for the Great Basin Science Delivery Project and it is very impressive. It contains so many useful items that land managers need and I see it has does a nice job at connecting research with management.
  To your knowledge, is there anything like it for the Southern Rockies?"
- "Thanks for the prompt reply. Your website and organization is quite a model to get information out. When we are up and going, the Idaho Rangeland Center would certainly be interested in participating and partnering."
- "Wow, thanks so much for that. I really enjoyed your presentation. Your work is exciting stuff!!"
- "We did this webinar as a group in Burns. There were 18 people in the room for Steve's presentation. Not sure how you are capturing this, but it is probably important to note that we are drawing between 10 and 15 people for the webinars and doing them as a group. It is actually interesting because it is generating discussion within the district after the presentations."
- "THANKS! "

Future Direction:

- Website upgrades for speed and ease of use
- More emphasis on producing syntheses and field guides
- Greater outreach to state, tribal, private, and NGO land managers
- Develop lessons learned component

You Can Help:

- Submit your questions
- Submit your lessons learned
- Enter your expertise
- Enter your projects

Thank you!

Please contact us with any questions:

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

GREAT BASIN RESEARCH & MANAGEMENT PARTNERSHIP

Sagebrush Steppe SageSTEP Treatment Evaluation Project

LBIPM Science-Based Solutions for Invasive Annual Grasses

Utah State University

The Future Grows Here

Rocky Mountain Research Station

USGS science for a changing world

OSU Oregon State University

University of Idaho

University of Nevada, Reno

Great Basin Science Delivery Project

National System of Public Lands

Forest Service U.S. Department of Agriculture

U.S. Fish & Wildlife Service

National Park Service

Joint Fire Science Program