

United State Department Interior

BUREAU OF LAND MANAGEMENT

Oregon State Office

P.O. Box 2965

Portland, Oregon 97208



In Reply Refer to:

2000 (OR-932) P

March 26, 2004

EMS TRANSMISSION 03/30/2004

Information Bulletin No. OR-2004-103

To: DMs, DSDs, Staff and Branch Chiefs

From: Deputy State Director for Resource Planning, Use and Protection

Subject: Fiscal Year (FY) 2005 Applications of Science Proposals

DD:04/22/2004

Purpose: This Information Bulletin (IB) transmits a memorandum from the National Science and Technology Center (NSTC) Director to all field officials regarding the solicitation of Applications of Science proposals to be funded through the Applications of Science initiative in FY 2005.

Policy/Action: The initiative is built around four focus areas: (1) Improving Access to the Bureau of Land Management's (BLM) Natural Resource Information; (2) Partnerships in Science; (3) Public Lands as Laboratories; and (4) Sharing Knowledge. Multi-year projects selected for funding in FY 2004 will receive continued funding in FY 2005 as long as committed progress has been accomplished during the first year. The remainder of the available funds will be allocated to those projects selected for initial funding beginning in FY 2005. The following criteria will be used in evaluating project proposals: (1) scientific or technological approach that addresses the needs associated with the focus areas identified in the solicitation; (2) delivery of useful products; (3) reasonableness of funding estimates for the scope of work and high return on the investment; (4) effectiveness of the proposal in building partnerships with other science organizations; (5) attention to local, regional, or national priority needs; and (6) integration of the proposal within the Bureau and with other agencies or interested parties. Refer to the NSTC memorandum (Attachment 1) for additional information relating to project submissions.

Timeframe: **Proposals should be entered into the Budget Planning System (BPS) no later than close of business on Thursday, April 22, 2004.** It is essential that all Applications of Science project proposals have the same "naming convention" so that they are easily identified. Therefore, each "Project Name" must begin with SCI – (and then the name of your project).

Background: The FY 2004 Appropriations Bill contained \$1 million in funding for the Applications of Science initiative. Bureau-wide there were 21 new projects selected for funding for FY 2004. Oregon/Washington (OR/WA) submitted nine projects for consideration for FY 2004 funding, one of which was funded. The funded project was entitled "Restoration of Water

Flows: Western Juniper Paired Watershed Study" (Prineville; BPS# 20637). The contact person for this project is Michelle McSwain. The total funding amount for the project is \$66,000 (over three years; \$36,000 in the first year).

The FY 2005 Justifications contain \$1 million in funding for the Applications of Science initiative. As stated above, multi-year projects selected for funding in FY 2004 will receive continued funding for FY 2005 as long as committed

progress has been accomplished during the first year. The Director of the National Science and Technology Center has indicated that the proposals that tend to be the most competitive for being selected for funding are those that are: clear and concise (describing why it's an issue, what needs to be done, and how it will be accomplished); clearly address local, regional, or national priorities; display "reasonable" financial requests (see Attachment 2 for the funding amounts associated with selected projects); request one or two years of funding; show matching funds; and integrate resource disciplines both within BLM and with other agencies. Attachment 2 provides a list of proposals that were funded nationwide in FY 2004. For OR/WA to be most competitive in FY 2005 it is suggested that offices review some of these projects via BPS to see which projects were successful in obtaining funding.

Coordination/Contact: Once submissions are received by each office, projects will be reviewed and prioritized for an OR/WA submission by April 30, 2004. After that date, offices can pull a report from BPS to see how their projects fared. Please contact Donna Buchanan (503-808-6204) with questions relating to processes for this exercise or Terry Johnson (503-808-6038) with questions relating to specific guidelines regarding your project write-ups.

Districts with Unions are reminded to notify their unions of this IB and satisfy any bargaining obligations before implementation. Your servicing Human Resources Office or Labor Relations Specialist can provide you assistance in this matter.

Signed by
Miles R. Brown
(Acting)

Authenticated by
Mary O'Leary
Management Assistant

2 Attachment(s)

- 1 - [Year 2005 Applications of Science Proposals](#) (6pp)
- 2 - [Year 2004 Approved Applications of Science Projects](#) (2pp)

Distribution

WO-200 (3326MIB)

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON, D.C. 20240

March 10, 2004

In Reply Refer To:
2000 (NSTC/200) P

EMS TRANSMISSION 03/17/2004
Information Bulletin No. 2004-080

To: All Washington Office and Field Officials

From: Assistant Director, Renewable Resources and Planning

Subject: Year 2005 Applications of Science Proposals DD: 04/30/2004

The purpose of this Information Bulletin is to solicit science proposals to be funded through the Applications of Science initiative in Fiscal Year 2005. The Applications of Science initiative is built around four focus areas: (1) Improving Access to BLM's Natural Resource Information; (2) Partnerships in Science; (3) Public Lands as Laboratories; and (4) Sharing Knowledge. Multi-year projects will be funded for continuation in FY06 as long as committed progress has been accomplished during the first year. **Proposals should be entered into the Budget Planning System no later than April 30, 2004.**

Proposals are encouraged to partner with universities, non-governmental organizations, and other research organizations such as the U.S. Geological Survey. Funding will be awarded directly to the BLM offices that will take the full responsibility for implementing proposed work through the partnerships described in the proposal. Personnel are encouraged to work across office, State, and regional boundaries to develop integrated science approaches when appropriate to the projects' needs.

Proposals should be tied to one of the four focus areas identified above. Within the proposal, the author should identify the objective; timeframes; budget; and deliverables, one of which must be a technology transfer component. Preparers are encouraged to closely estimate the actual cost of the proposal, as reviewers will evaluate the cost effectiveness of the proposed work. Project funds can be used for any purpose other than to pay for full-time permanent employees. Additional information regarding this initiative is contained in Attachment 1.

Each proposal must designate a BLM project lead and the manager to whom he/she reports. Each proposal should describe external partners, their commitments, and their roles in the proposed initiative.

Attachment 1-1

2

Proposals should be entered into the Budget Planning System by the most appropriate field, State, Center or Headquarters Office. Assistant Directors, State and Center Director's can submit up to ten proposals. These should clearly be ranked; 1 being the highest priority and 5 being the lowest priority.

A project review team composed of the Director of the National Science and Technology Center and representatives from Headquarters, State and Field Offices, will rank projects from among those submitted.

Questions or comments should be directed to Lee Barkow, Director, National Science and Technology Center at 303-

236-1142 or lee_barkow@blm.gov.

Signed by:
Thomas H. Dyer
Acting Assistant Director
Renewable Resources and Planning

Authenticated by:
Barbara J. Brown
Policy & Records Group, WO-560

1 Attachment

1 - Application of Science Program (4 pp)

Attachment 1-2

Application of Science Program

The Application of Science Program was begun in fiscal year 2003 with the appropriation of \$1,000,000. This program has four focus areas: (1) Improved Access to BLM's Natural Resource Information, (2) Partnerships in Science, (3) Public Lands as Laboratories, and (4) Sharing of Knowledge.

General Guidelines:

Proposers are encouraged to partner with universities, non-governmental organizations, and other research institutions. Funding will be awarded directly to the BLM offices that will take full responsibility for implementing proposed work through the partnerships described in the proposal. Personnel are encouraged to work across office, State, and regional boundaries to develop integrated science approaches when appropriate to the project's needs.

Proposals should be tied to one of the four focus areas identified above which are also the basis of the evaluation criteria below. Within the proposal, the author should identify the objective, timeframes, budget, and deliverables; one of which must be a technology transfer component. Preparers are encouraged to closely estimate the actual cost of the proposal, as reviewers will evaluate the cost-effectiveness of the proposed work. Each proposal must designate a BLM project lead and the manager to whom he/she reports. Each proposal should describe external partners, their commitments, and their roles in the proposed initiative.

Proposals should be entered in the Budget Planning System by the most appropriate Field Office, State Office, Center Assistant Director's or the Headquarter's Office. State and Center Directors can submit up to ten proposals. These should be clearly ranked: 1 being the highest priority and 5 being the lowest priority.

Project Review:

A project review team composed of the Director of the National Science and Technology Center and representatives from State and Field offices, will rank projects from among those advanced by the States in the Budget Planning System. Proposals will be considered for each of the four focus areas and evaluated based on their responsiveness to the intended purpose of the area. The focus areas are:

1. Improved Access to BLM's Natural Resource Information: BLM scientists and others have collected a great amount of data and information, as well as numerous observations from the public lands. Under this initiative, resource managers would be provided better access to information. Automating information and applying uniform information management standards are the first steps in making a wealth of information available to scientists and managers.

Example of possible projects include:

- a. Locating and retrieving stored Bureau data and information and updating, standardizing, and automating the data.
- b. Compiling historical and current information in similar formats to enable the detection of changed conditions.
- c. Synthesizing, interpreting, and distributing relevant scientific information from all sources to help ensure that existing knowledge can be employed and wasteful duplication of data avoided.
- d. Developing more uniform multi-jurisdictional data bases to enable landscape-level approaches to science and decision making.

2. Partnerships in Science: The BLM must rely heavily on scientific information in carrying out its mission; therefore, the BLM will partner with various science providers to meet specific science needs of the public lands. These needs include improving inventory and monitoring protocols, addressing specific research topics, and acquiring and analyzing spatial data. As the U.S. Geological Survey is the designated science bureau in the Department of the Interior, it will be the primary partner in addressing BLM's science needs.

Examples of possible projects include:

- a. Projects that help managers understand changes in the landscape over time.
- b. Developing inventory and monitoring protocols.
- c. Acquiring and analyzing spatial data.
- d. Projects that help managers understand the functions of various natural resource systems.

3. Public Lands as Laboratories: The BLM will encourage the use of public lands for studying natural resource issues. Public lands managed by the BLM provide a tremendous and largely untapped opportunity for scientific investigation, observation, and documentation of ecological processes. By making the 264 million acres of public lands more widely available to scientists, the BLM will benefit from scientific study directly related to land management issues. Knowledge acquired from scientific studies on BLM lands will be particularly relevant for application to the needs of BLM managers and the decisions they make.

Examples of projects may include:

- a. Developing reference areas to assist the Bureau and others in understanding the range of natural variability and studying the effects of disturbances on natural systems.
- b. Identifying and studying long-term research sites on public lands in partnership with academic institutions and others to promote multi-year studies.
- c. The testing of potential "best management practices" to determine which one(s) has broad application to the

Bureau.

4. **Sharing of Knowledge:** Public land management will benefit from the sharing of knowledge among State and Federal land managers, other land management organizations and providers of scientific information, Federal and private resource management practitioners, educators, and the public at large and within the BLM itself. The Application of Science program invites and facilitates dialogue on science-based “best management practices” for the public lands.

Examples of projects may include:

- a. Sponsoring science-based meetings, workshops, and professional conferences on natural resource management issues to enable the exchange of ideas and current knowledge.
- b. Creating “best management practices” demonstration areas to provide opportunities for field personnel, cooperators, and the public to observe on-the-ground actions and results and to learn how these practices can be applied within their own areas of influence.
- c. Inviting science-based dialogue and learning through targeted educational programs to increase the understanding and support of Bureau management actions and nurture the next generation of scientists and educators.

Project Selection Criteria:

Projects will be ranked highest that best demonstrate a combination of:

1. Scientific or technological approach that addresses the needs associated with the focus area.
2. Delivery of useful projects.
3. Reasonableness of funding estimates for the scope of work and a high return on the investment.

Attachment 1-5

4. Effectiveness of the proposal in building partnerships with other science organizations.
5. Attention to local, regional, or national priority needs.
6. Integration of the proposal within the Bureau and with other agencies or interested parties.

Date:1/26/04			APPLICATIONS OF SCIENCE INITIATIVE - FY2004 SELECTIONS								
State	State Project Number	BPS Project Number	Project Name	Principle Investigator	FY03 Carry-Over Projects	FY04 Funding Request	FY04 Funding Level	FY05 Funding Request	FY06 Funding Request	FY06 Partner Dollars	Total BLM Request (multi-yr)
AZ		03-21529	Evaluating Physical Impacts from Mountain Biking to Determine BMPs	Applegate, Don		\$20,000.00	\$20,000.00	\$20,000.00			\$40,000.00
AZ		03-22274	Experimental Laser Scanning of Prehistoric Rock Art in Agua Fria NM	Stone, Connie		\$35,000.00	\$35,000.00				\$35,000.00
AZ		03-22358	Predation Effects on the Survival and Recovery of T&E Aquatic Vertebrates	Simms, Jeff		\$57,500.00	\$57,000.00	\$2,500.00			\$60,000.00
AK		02-03219	Alaska Yukon Fortymile Transboundary Watershed Assessment	Torrence, Leslie	\$90,000.00						
CA		03-22416	SCI-Amargosa T&E Plant Isotopic Study	Croft, Brian		\$20,000.00	\$20,000.00				\$20,000.00
CA		03-22592	Rare Plant - OHV Management in CCMA	Delgado, Julieanne		\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00		\$60,000.00
CA		03-22349	Snake Lake Experimental Management of Medusahead and Restoration of Degraded Grasslands	Uchida, Alan		\$5,000.00	\$5,000.00	\$5,000.00			\$10,000.00
CA		03-22377	Sonoran Desert Woodland Bird Survey	Steward, Marvin (Daniel)		\$8,300.00	\$8,000.00	\$8,300.00	\$8,300.00		\$24,900.00
CA		02-05776	Determining the Feasibility of Native Species Regeneration of Bear Creek	Mangan, Gregg	\$10,000.00						
CA		02-05812	PaleoIndian Research Program	Burcell, Julie	\$15,000.00						
CA		02-06778	History of treatment and management option for Aspen (Aspen Deliniation)	Lorentzen, Ed	\$30,000.00						
CO		03-22613	Analysis of Fire Risk and Cultural Resources, CANM	Davis, Scott		\$40,000.00	\$40,000.00	\$45,000.00			\$85,000.00
CO		03-08023	Mancos Shale BMP in Gunnison Gorge NCA	Kauffman, Dave		\$59,000.00	\$59,000.00	\$100,000.00			\$159,000.00
CO		02-06265	Royal Gorge Paleontology Inventory	Grenard, Dan	\$15,000.00						
ID		03-21708	Real-Time Drought Assessment of Rangelands	Gebhardt, Karl		\$75,000.00	\$75,000.00				\$75,000.00
ID		03-22301	Yellow Starthistle Biocontrol Assessment	Danly, Lynn		\$20,000.00	\$20,000.00				\$20,000.00
ID		03-22456	Craters of the Moon NM Science Symposium	Freiberg, David		\$15,000.00	\$15,000.00	\$35,000.00			\$50,000.00
NM		03-22343	Paleo Collections at Risk	Hester, Patricia		\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$5,000.00	\$30,000.00
OR		03-20637	Restoration of Water Flows: Western Juniper Paired Watershed Study	McSwain, Michelle		\$36,000.00	\$36,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$66,000.00
UT		03-22470	Fire Behavior in Blackbrush Ecosystem	Crisp, Jim		\$20,000.00	\$20,000.00			\$39,000.00	\$20,000.00
UT		02-01519	Symbiotic relationships b/w soil mycorrhizae and veg communities to enhance restoration	Cresto, Joe	\$30,000.00						
UT	021J	02-05652	Transit Source Determination and Delivery Potential of Salt Loading to the Upper San Rafael River	Hadley, Heidi	\$20,000.00						
UT		02-06388	GSENM soil study	O'Dell, Thomas	\$45,000.00						
UT		02-06828	Effectiveness of New State-of-the-Art Wildlife Structures	Bonebrake, Becky	\$20,000.00						
UT	024J	02-06887	Mine Waste Characterization	Palmer, Brad	\$30,000.00						

Date:1/26/04			APPLICATIONS OF SCIENCE INITIATIVE - FY2004 SELECTIONS								
State	State Project Number	BPS Project Number	Project Name	Principle Invesitgator	FY03 Carry-Over Projects	FY04 Funding Request	FY04 Funding Level	FY05 Funding Request	FY06 Funding Request	FY06 Partner Dollars	Total BLM Request (multi-yr)
UT	025J252F	02-07040	Non-invasive, X-ray Fluoresence (XRF) Dating of Petroglyphs	Ferris, Dawna	\$15,000.00						
WY		03-22009	Watershed Analysis and Data Distribution Toolkit	Schuler, Richard		\$28,000.00	\$28,000.00	\$5,000.00			\$33,000.00
WY		03-22337	Mapping Cheatgrass Distributions in WY using Satellite Imagery and NAPP	Herren, Vicki		\$36,000.00	\$36,000.00				\$36,000.00
WY		03-22635	WY Sagebrush Steppe Research Area	Calton, Mike		\$84,300.00	\$85,000.00				\$84,300.00
WY		02-07285	Evaluation of Oil and Gas Development on Mountain Plovers	Carroll, Jeff	\$60,000.00						
NSTC		02-07150	Phytostabilization of AML	Ford, Karl	\$15,000.00						
NSTC		02-07408	Plant Information Network II	Dittberner, Phil	\$20,000.00						
NSTC		03-22582	Barriers to Integrating Science	Sydoriak, Charisse		\$32,000.00	\$20,000.00	\$27,500.00	\$26,000.00	\$90,000.00	\$85,500.00
TOTALS							\$609,000.00	\$293,300.00	\$79,300.00		\$993,700.00