

Project Summary

Rocky Mountains Cooperative Ecosystem Studies Unit

Project Title: Smoke Management Guide for Prescribed and Wildland Fire, 2001 Edition Revision Project

Discipline: Natural
Type of Project: Technical Assistance
Funding Agency: National Park Service
Other Partners/Cooperators: University of Idaho
Effective Dates: 9/1/2009 - 6/30/2014
Funding Amount: \$167,729 [FY12: \$75,161; FY10: \$92,568]

Investigators and Agency Representative:

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Project Abstract: Awareness of smoke production, transport, and effects on receptors from prescribed and wildland fires will enable us to refine existing smoke management strategies and to develop better smoke management plans and programs in the future (Hardy and Leenhouts, 2001). The *Smoke Management Guide for Prescribed and Wildland Fire, 2001 Edition* (SMG) presents techniques that address control strategies for minimizing the adverse affects of smoke on human health and welfare, while maximizing the effectiveness of using wildland fire to create and maintain functional ecosystems and other land use objectives. This guide is a primary resource for training fire managers, it is a foundational document for the NWCG course on Smoke Management (RX-410), it provides tools and information needed for states in developing their smoke management approaches and the Western Regional Air Partnership, Fire Emission Joint Forum relies on the information in the Smoke management Guide for developing Annual Emissions Goals for fire using emission reduction techniques to meet requirements of the Regional Haze Rule. Approaching the 10 year anniversary of this widely used document there is a need to review and revise it. The subject matter in the current document is technically sound; however, emerging scientific knowledge and new policies governing fire and smoke management are now available and need to be represented. The NWCG Smoke Committee (Smoc) is undertaking revision of this important Guide.

Task 1

Air regulations and fire science are continually under revision and advancing; thus, identifying areas of change and assessing their importance to smoke management requires updating the Guide to reflect new information.

Task 2

Identify contributing authors to revise existing chapters and prepare new chapters, keeping in mind the need to include regional perspectives pertaining to the chapter subject. Ensure authors stay on track and meet the delivery time table, which will also be determined as part of this task. University of Idaho staff and a sub-contractor will handle this coordination, with over site by Smoc. Innovative delivery methods (in support of Phase II) of the material will also be identified (as applicable) for the various chapters & subject material.

Task 3 (added FY12)

The SMG is the primary reference guide for the NWCG course RX-410, therefore with completion of the SMG desk guide, recommendations will be made for updating RX-410, including the Student workbook and Instructors Guide. In conjunction with NWCG course updates, development of an upper level college undergraduate and/or graduate course, by Dr. Smith and staff at the University of Idaho, will be undertaken requiring only minor modifications to add case studies and field and class room exercises. To ensure the course fulfills the requirements of RX-410, such that upon completion of the course students could be given NWCG credit, Smoc will work closely with the NWCG Operations Workforce Development Committee

Outcomes with Completion Dates:

Task I: Work Plan January 17, 2011
Task II: Revised Smoke Management Plan February 12, 2012

Keywords: University of Idaho, National Park Service, National Interagency Fire Center, NWCG Smoke Committee (Smoc), *Smoke Management Guide for Prescribed and Wildland Fire, 2001 Edition* (SMG), plan revision