

**Project Summary**  
**Rocky Mountains Cooperative Ecosystem Studies Unit**

<b>Project Title:</b> Techniques for Mapping Sagebrush from Remote Sensing
<b>Type of Project):</b> Research
<b>Project Discipline):</b> Natural
<b>Funding Agency:</b> BLM
<b>Other Partners/Cooperators:</b>
<b>Effective Dates:</b> 9/24/01 to 12/31/05
<b>Funding Amount:</b> \$141,755
<b>Investigators and Agency Representative (include name, address, phone, email):</b> Agency: Roxanne Faliese, BLM, MSO, PO Box 3680, Billings, MT 59107; 406-896-5025  PI: Roland Redmond, Wildlife Spatial Analysis Lab, University of Montana, Missoula, MT 59812; 406 243-4906
<b>Project Abstract:</b> Purpose: Investigate techniques to develop a vegetation map theme for sagebrush steppe cover types and associated canopy classes for BLM lands.  Objectives: <ol style="list-style-type: none"><li>1. Determine the special threshold for differentiating different sagebrush density classes and sagebrush species from grass and tree dominated vegetation.</li><li>2. Use mulit-data LANDSAT 7 TM imagery to classify sagebrush cover types, determine seasonal biomass variability, density classes for coniferous and woodland cover types, and deciduous woodland and woody draw cover types.</li><li>3. Develop techniques for technology transfer and shared use of remote sensing technology and applications of Wildlife Spatial Analysis Lab in order to complete image analysis and vegetation classification at the BLM facility.</li><li>4. Cooperatively (USFS and BLM) refine vegetation map themes as needed to meet information needs for sagebrush steppe conversation planning and resource management planning.</li></ol>
<b>Outcomes with completion dates (reports, publications, workshops, videos, etc.):</b>
<b>Keywords:</b> sagebrush steppe, vegetation map, remote sensing