

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

<b>Project Title:</b> Comparison of various satellite imagery platforms and spatial resolutions for classifying sage-steppe communities near Bannack, Montana
<b>Type of Project):</b> Technical Assistance
<b>Project Discipline:</b> Natural
<b>Funding Agency:</b> BLM
<b>Other Partners/Cooperators:</b>
<b>Effective Dates:</b> August 21, 2006 – May 31, 2008
<b>Funding Amount:</b> \$18,000 (FY06); \$25,000 (FY07)
<b>Investigators and Agency Representative:</b> PI: Roland L. Redmond <i>Research Associate Professor of Wildlife Spatial Analysis / Director of Wildlife Spatial Analysis Laboratory</i> Phone: (406) 243-4906 ; red@wru.umt.edu
<b>Project Abstract:</b> Objectives: The Wildlife Spatial Analysis Lab (WSAL) will carry out a series of classifications using Landsat TM7 30m, Landsat TM7 Pan-sharpened 15m, SPOTS5 10m, SPOTS5 Pan-sharpened 5m, Quickbird 2.5m, Quickbird Pan- sharpened 70cm using the same training samples and relative segmentation parameters in order to compare the results of the different classifications. The objective is to determine the cost/benefit ration for each Satellite imagery platform and spatial resolution
<b>Outcomes with completion dates (reports, publications, workshops, videos, etc.):</b>
<b>Keywords:</b> land classification, satellite imagery, cost/benefit ration