

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

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| <b>Project Title:</b><br><p style="text-align: center;"><b>Crested Wheatgrass Management Study</b></p>   |
| <b>Type of Project</b> (circle one): <u>Research</u> Technical Assistance      Education   |
| <b>Funding Agency:</b><br><p style="text-align: center;"><b>BLM</b></p>  |
| <b>Effective Dates:</b><br><p style="text-align: center;"><b>June 1, 2002 to June 1, 2004</b></p>  |
| <b>Funding Amount:</b><br><p style="text-align: center;"><b>\$99,360.00</b></p>  |
| <b>Investigators and Agency Representative (include name, address, phone, email):</b><br>Bok Sowell, Department of Animal & Range Sciences, Montana State University, Bozeman, MT 59717-2900<br>406-994-5558; bok@montana.edu<br>Project Inspectors: Fred Roberts, BLM, Lewistown, MT<br>John Grensten, BLM, Malta, MT   |
| <b>Project Abstract:</b><br><p>The goal of this project is to replace stands of crested wheatgrass with native plants. To accomplish this, we sprayed five sites with glyphosate in the spring of 2002, followed by planting of native grasses with a no-till drill to minimize soil disturbance. All sites were sampled in August and October 2002 for density of seedlings, biomass and crested wheatgrass cover. Based on preliminary observations, spraying was successful on four of five sites at reducing cover and biomass of crested wheatgrass when compared to controls. On the fifth site, a large volume of standing dead material inhibited spraying and live cover of crested wheatgrass was not reduced. Spring planted warm season grasses germinated and grew at all sites with densities ranging from 2-60 plants/m<sup>2</sup>. Cool season grasses did not grow as well. Only two sites had wheatgrass seedlings and they were much smaller than the warm season grasses. All sites were planted in October or November 2002 with a cool season seed mix. Sampling of seedlings and crested wheatgrass will resume in the spring of 2003.</p> |
| <b>Outcomes with completion dates (reports, publications, workshops, videos, etc.):</b><br><br>The final report will be a Master's Thesis on the subject.  |
| <b>Keywords:</b><br><p style="text-align: center;">Restoration, reseeding, no-till drilling</p>  |
| <b><i>For Administrative use only:</i></b><br><i>Date Annual Report Received:</i><br><br><i>Date Final Report Received:</i><br><br><i>Publications, etc. on file:</i>  |