

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

<b>Project Title:</b> Initiate An Intermountain Region Noxious Weed Inventory & Mapping Program
<b>Type of Project:</b> Research
<b>Funding Agency:</b> National Park Service
<b>Effective Dates:</b> July 10, 2002 - December 31, 2004
<b>Funding Amount:</b> \$ 99,383
<b>Investigators and Agency Representative:</b>  UNIVERSITY CONTACT: Roger Sheley (PI); 406 -994-5686; <a href="mailto:rsheley@montana.edu">rsheley@montana.edu</a> NPS CONTACT: Pam Benjamin; 303-969-2865; <a href="mailto:pamela_benjamin@nps.gov">pamela_benjamin@nps.gov</a>
<b>Project Abstract:</b> This project will initiate an NPS-Intermountain Region Noxious Weed Inventory & Mapping Program for the following NPS units: Bighorn Canyon National Recreation Area, Devils Tower National Monument, Glacier National Park, Grant-Kohrs Ranch National Historic Site, Great Sand Dunes National Park, and Little Bighorn Battlefield National Historic Site. The first step in implementing a mapping plan involves information gathering and mission planning. This step allows for informed decisions to be made about the field survey design and the mapping/sampling methods. These processes include gathering hardcopy and/or digital mapping resources such as 7.5' quadrangles or Digital Raster Graphics (DRG's), aerial photographs or Digital Ortho Quarter Quadrangles (DOQ's), and site-specific maps from the individual park that will assist with weed mapping. Information gathering also involves communicating with park personnel to develop mapping strategies such as identifying survey areas based on access, topography, hydrography, vegetation type, management areas, and special uses. In addition, using topographic information, mission planning will be performed with Trimble Navigation's Pathfinder Office® software to determine the availability of GPS satellites for the park area to be mapped.
<b>Outcomes with completion dates:</b> Mid- year and annual progress report of work accomplished Hardcopy weed infestation maps Digital weed infestation maps Digital geodatabase of weed infestation layers Metadata for each park's weed dataset Final report including summary of hectares inventoried and infested
<b>Keywords:</b> Bighorn Canyon National Recreation Area, Devils Tower National Monument, Glacier National Park, Grant-Kohrs Ranch National Historic Site, Great Sand Dunes National Park, and Little Bighorn Battlefield National Historic Site, noxious weeds
<b><u>For Administrative use only:</u></b> <i>Date Annual Report Received:</i>  <i>Date Final Report Received:</i>  <i>Publications, etc. on file:</i>