



2006 "VOLUNTEERS WORKING WITH INVASIVES" GRANTS REPORT FORM

Display Report

PROJECT BACKGROUND INFORMATION

Project Title:	Turnbull NWR early detection and rapid response team	
Region: Use region number ONLY	1	
Station:	Turnbull NWR	
Contact Person: Name and Phone Number	Michael Rule 509-235-4723	
Project Description: (Up to 250 words)	In 2004 and 2005, the refuge utilized volunteers from the Friends of Turnbull NWR (FOTNWR) to undertake a refugewide, GPS-based invasive plant survey modeled after the Montana Noxious Weed Survey and Mapping System. Approximately thirty-five percent of the refuge was surveyed resulting in the location of several previously unknown populations of knapweed that received rapid response control actions.(manual removal, chemical application, and biocontrol). A large portion of the refuge, however, has yet to be surveyed and the refuge owns only 1 GPS unit capable of running the TNC WIMS software hindering efforts to adopt this Service approved program and fully implement the refuges Early Detection and Rapid Response Program (EDRRP). Funding from this grant will allow for the purchase of 2 GPS units and software to adopt the WIMS program and expand the early detection surveys in 2006. In addition, funds will be used to acquire biocontrol agents and chemicals to facilitate the rapid response phase of the project. An AmeriCorps member supported through FOTNWR will start in September 2005 and continue the program in 2006. Twenty potential volunteers have already been contacted and WIMS training will be provided for selected volunteers and staff.	
List of Invasives Species Targeted:	Common Name	Scientific Name
	spotted knapweed	<i>Centaurea maculosa</i>
	diffuse knapweed	<i>Centaurea diffusa</i>
	leafy spurge	<i>Euphorbia esula</i>
	rush skeleton weed	<i>Chondrilla juncea</i>
	Canada thistle	<i>Cirsium arvense</i>
	dalmatian toadflax	<i>Linaria dalmatica</i>
	Russian knapweed	<i>Centaurea repens</i>
	common mullein	<i>Verbascum thapsus</i>
	St. John's Wort	<i>Hypericum perforatum</i>

Project Status:	InProgress
Project Completion Date or Estimated Completion Date: (mm/dd/yyyy)	09/30/2007

VOLUNTEER INFORMATION

Volunteer Affiliation: (Check all that apply)	VA_FriendsGrp VA_AmeriCorps VA_GradIntern VA_Other
Volunteer Involvement: Describe the type of work the volunteers performed. (Up to 150 words)	Volunteers surveyed 1703 acres of the refuge for target species. Volunteers downloaded data from GPS units and imported information into refuge GIS. They produced maps for refuge weed sprayers. Volunteers also developed step by step field manuals for weed surveys and data treatment. One volunteer worked extensively with refuge maintenance staff applying chemicals from an ATV. Another crew of volunteers manually removed invasive plant species from areas where the refuge is restoring riparian vegetation.
Total Number of Volunteers:	22
Total Number of Volunteer Hours:	2500
Partnerships: List both new and existing partnerships utilized in this project. (Up to 150 words).	Friends of Turnbull National Wildlife Refuge, Spokane Community College Horticulture Program, Washington State University Range Science Department, Washington State Department of Fish and Wildlife Advanced Hunter Education Program.

PROJECT RESULTS

Project Results: Give an overview of the results of the project. Include quantifiable measure of success, such as maps produced, efficacy of control measures, number of sites where invasions were detected early and responded to, number of community contacts, etc. (Up to 250 words).	In FY 2006, 2 additional Windows CE GPS units were purchased and the necessary software to complete weed surveys. GPS Units were set-up and 6 volunteers were recruited and trained to conduct surveys for target species. 1703 acres were surveyed and mapped. 521 new locations of target species infestations were identified. Volunteers imported survey data into refuge GIS and produced maps for control efforts. These sites and previously identified infestations for a total of 250 acres were treated with chemicals and biological agents purchased with grant funds. Preliminary results of control efforts indicate that control goals are being met on several infestations including three sites with leafy spurge that have defied past control efforts.
Number of Acres Treated:	250
Number of Acres Inventoried and/or Mapped:	1703
Number of Acres Restored:	0

BUDGET INFORMATION

Budget: Account for funds in broad categories such as equipment, volunteer stipends, travel, coordinator salary/contract, etc.

Total Grant Amount:	\$ 11,000.00
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Breakdown of Expenditures:

Category	Total \$ Spent	% of Total Grant
Equipment / Supplies	\$8398.25	76%
Chemical	\$1398.00	13%

Biocontrol Agents	\$640.00	6%
Travel		
Volunteer Stipends		
Volunteer Coordinator Salary/Contract		
Restoration Materials		
Other		
TOTAL		

Recommendations: (OPTIONAL) How useful was this program for meeting refuge invasive species objectives and how can it be improved?	
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