



2008 "VOLUNTEERS WORKING WITH INVASIVES" GRANTS REPORT FORM

Display Report

PROJECT BACKGROUND INFORMATION

Project Title:	Early Detection and Rapid Response Team	
Region: Use region number ONLY	1	
Station:	Turnbull National Wildlife Refuge	
Contact Person: Name and Phone Number	Mike Rule 509-235-4723	
Project Description: (Up to 250 words)	Volunteers have since 2004 undertaken a refuge-wide, GPS-based invasive plant survey(WIMS) and assist with our early Detection and Rapid Response Program (EDRRP). Approximately 60% 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. Funding from this grant will allow for the purchase of biocontrol agents and chemicals to facilitate the rapid response phase of the project and to provide match for a Washington Service Corps AmeriCorps members. The AmeriCorps member will start in September 2008 and will assist with coordinating the Refuge EDRRP through 2009. The AmeriCorps member with the assistance of the Refuge Volunteer Coordinator and Friends of Turnbull NWR will recruit and train volunteers in the use of GPS equipment, survey software and EDRRP protocols. In addition to the refuge work, a new Cooperative Weed Management Area is being organized for the region surrounding the refuge, some of the AmeriCorps member's time and other volunteers may assist with survey and control efforts adjacent to the refuge on private lands to support this cooperative venture.	
List of Invasives Species Targeted:	Common Name	Scientific Name
	Dalmatian toadflax	<i>Linaria dalmatica</i>
	Canada Thistle	<i>Cirsium arvense</i>
	Rush Skeletonweed	<i>Chondrilla juncea</i>
	Spotted knapweed	<i>Centaurea beibbiana</i>
	Diffuse knapweed	<i>Centaurea diffusa</i>
	St John's Wort	<i>Hypericum perforatum</i>
	Reed canarygrass	<i>Phalaris arundinacea</i>
	Leafy spurge	<i>Euphorbia esula</i>

Project Status:	InProgress
Project Completion Date or Estimated Completion Date: (mm/dd/yyyy)	09/30/2009

VOLUNTEER INFORMATION

Volunteer Affiliation: (Check all that apply)	VA_FriendsGrp VA_SchoolGrp VA_AmeriCorps VA_StudentConsAssoc VA_CivicOrg VA_Other
Volunteer Involvement: Describe the type of work the volunteers performed. (Up to 150 words)	Mapping, inventory and monitoring of invasive plants, outreach, rapid response treatments(spraying, pullin mowing)
Total Number of Volunteers:	4
Total Number of Volunteer Hours:	220
Partnerships: List both new and existing partnerships utilized in this project. (Up to 150 words).	The Friends of Turnbull NWR will assist with outreach and volunteer recruitment through their newsletter and membership, and they will lend support in acquiring an AmeriCorps position from WSC to continue program through 2007/2008. Eastern Washington University Biology Department, Spokane Community College Environmental Sciences Program, Upper Columbia Academy, and other community groups and individuals that currently assist the refuge will be the source of volunteers for the EDRRP teams. Washington Service Corps is our partner for the AmeriCorps program. Technical assistance and some cash match will be provided by the partners in the Cooperative Weed Management Area (Upper Columbia Resource Conservation and Development Council, Spokane County Extension, Spokane County Weed Board, and Washington State University Extension).

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).	With proceeds from this grant , two additional Trimble GEOXM GPS units were purchased as were two copies of ArcPad in order to expand the refuge's Early Detection Rapid Response Program (EDRPP). Weed surveys were conducted by AmeriCorp and SCA volunteers in the North Camas Canyon, Howellia_A, and Stubblefield Units in August. As part of the EDRPP refuge volunteers continue a systematic survey of the refuge using a 50-meter point grid. Volunteers navigate to each point and collect information on the presence and abundance of 25 weed species within a 0.10 acre plot. Additional points and area features are mapped when any of ten, class A weed species are encountered between points. Approximately 1200 points were sampled on the 50 meter point grid representing around 685 acres. The survey work resulted in the location of yellow starthistle in the Stubblefield Unit which is the first time it has been seen on the refuge. The entire infested area was mapped and it was sprayed this fall with a preemergent herbicide. A portion of this grant was used to purchase additional chemicals for treating new infestations located and past areas mapped to maintain control. Nearly 200 acres of the refuge were treated this year with herbicides, mowing and hand pulling to control invasive species
Number of Acres Treated:	200
Number of Acres Inventoried and/or Mapped:	500
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:	\$ \$10,000.00
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Breakdown of Expenditures:

Category	Total \$ Spent	% of Total Grant
Equipment / Supplies	\$7106.80	71%
Chemical	\$2893.20	29%
Biocontrol Agents		
Travel		
Volunteer Stipends		
Volunteer Coordinator Salary/Contract		
Restoration Materials		
Other		
TOTAL	\$10,000.00	100%

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