

**Appendix B-8**

**LAKE TAHOE RESTORATION PROJECTS  
ESTIMATED DIRECT COSTS & KEY MILESTONE DATES**

Project Name: Manual Control Efforts for Noxious Weeds Agency: USFS, LTBMU  
 Prepared by: Beth Brenneman Phone: 530-543-2767 EIP #: 10184  
 SNPLMA Project #: \_\_\_\_\_

**Identify estimated costs of eligible reimbursement expenses:**

<b>1. Planning, Environmental Assessment and Research Costs</b> (specialist surveys, reports, monitoring, data collection, analysis, NEPA, etc.)	\$	<u>5,000</u>	<u>0</u>	%
<b>2. Direct Labor (Payroll) to Perform the Project</b>	\$	<u>95,000</u>	<u>0</u>	%
<b>3. Project Equipment</b> (tools, software, specialized equipment, etc.)	\$	<u>2,000</u>	<u>0</u>	%
<b>4. Travel</b> (including per diem where official travel status required to carry out project, such as serve as COR, experts to review reports, etc.)	\$	<u>8,000</u>	<u>0</u>	%
<b>5. Official Vehicle Use</b> (pro rata cost for use of Official Vehicles when required to carry out project)	\$	<u>5,000</u>	<u>0</u>	%
<b>6. Cost of Contracts, Grants and/or Agreements to Perform the Project</b>	\$	_____	_____	%
<b>7. Other Direct Costs</b> (direct labor for agency personnel to do project procurements; COR; PI; personnel assigned as NEPA lead; personnel assigned to review contracted surveys, designs/drawings, reports, etc.; project manager and/or project supervisor; and contracted costs for project manager and/or project supervisor if contracted separately)	\$	<u>10,000</u>	_____	%
<b>TOTAL*:</b>	\$	<u>125,000</u>	<u>100</u>	%

**Estimated Key Milestone Dates:**

Milestones/Deliverables:	Estimated Costs:	Date:
2006 noxious weed inventory and control efforts	\$125,000	10/01/05-9/31/06
Final Project Completion Date:		9/31/10

**COMMENTS:**

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## **Appendix I-2 GENERAL TAHOE PROJECT PROPOSAL**

**Project Name:** Manual Control Efforts for Noxious Weeds

**EIP #** 10184

**Lead Agency:** Lake Tahoe Basin Management Unit

**Contact:** Beth Brenneman

**Phone Number:** (530) 543-2767

**Email Address:** bbrenneman@fs.fed.us

**Threshold:** Vegetation

**Threshold Standard:**

v-1 maintain species diversity and richness

v-2 nondegradation of uncommon plant communities

**Total Project Cost:** \$625,000

**Round 6 Funding requested:** \$125,000

**Is this a multi-year project?** Yes

### **Project Description:**

Since 2002, the Lake Tahoe Basin Management Unit has been inventorying, monitoring and treating noxious weed infestations on Forest Service land. All of the infestations are treated manually, either by clipping, digging or pulling the weeds. Each site is visited at least once during the summer season, with the hope of visiting all sites a second time to provide a follow-up treatment. At each weed site, data such as infestation size and percent cover is recorded. This information is then entered into an Access database as well as the national NRIS TERRA noxious weed database so the infestation sizes can be monitored over time. All weed sites are mapped using GPS and entered into ARC View to create a map of all weed sites.

### **Describe the purpose and need for the project:**

Noxious weeds have recently been identified as the second greatest threat to the conservation of Forest Service lands. The Forest Service has defined noxious weeds as "...those plant species designated by the Secretary of Agriculture or by the responsible State official. Noxious weeds generally possess one or more of the following characteristics: aggressive and difficult to manage, poisonous, toxic, parasitic, a carrier or host of serious insect or disease, and being native or new to or not common to the United States or parts thereof."

Noxious weeds have been called a "biological wildfire". They spread rapidly because they are unchecked by the natural predators that control native plant populations. They out compete natives by stealing precious moisture, sunlight and nutrients. This leads to a decrease in the biodiversity of plants and the wildlife species that depend on them. Noxious weeds also increase rates of erosion due to changes in root structure, which affects the water quality of Lake Tahoe because of increased rates of sediment input.

The Lake Tahoe Basin Management Unit has identified approximately twelve acres of noxious weed infestations within the Forest's boundaries. Our most prevalent weed is Bull thistle (*Cirsium vulgare*). We also have the following species: Canadian thistle (*Cirsium arvense*), Tall Whitetop (*Lepidium latifolium*), Dalmation toadflax (*Linaria dalmatica*), Yellow toadflax (*Linaria vulgaris*), Ox-eye Daisy (*Leucanthemum vulgare*), St. Johns wort (*Hypericum perforatum*), Scotchbroom (*Cytisus scoparius*), Spotted knapweed (*Centaurea maculosa*) and Diffuse knapweed (*Centaurea diffusa*).

It is imperative to provide treatment to noxious weed infestations as early as possible to prevent them from spreading. Early treatment provides the best results in eradicating noxious weeds. The Lake Tahoe Basin Management Unit has been controlling noxious weeds for the past three years.

This work needs to continue into the future to keep the Lake Tahoe Basin as free of weeds as possible.

**Describe the goals and objective of the project (for Science & Research Projects describe Key Management Questions being addressed):**

- Decrease the acreage of noxious weed infestations on Forest Service land.
- Find new infestations early in order to prevent them from spreading.
- Monitor each weed infestation to determine its change over time.
- Increase public awareness of noxious weeds.
- Work cooperatively with other agencies and landowners to coordinate weed control efforts.

**Describe the anticipated project accomplishments:**

Continued treatment of noxious weeds will decrease the size of the infestations. New infestations will be discovered early and more easily eradicated. Public awareness will continue to increase as a result of public education efforts. Weed sites will continue to be inventoried and mapped and all information entered into the appropriate databases.

**Describe the “readiness” of this project to move forward (environmental documentation, etc.):**

The field season of 2004 marked the third year that the inventory, monitoring and treatment of noxious weeds have been underway on the Lake Tahoe Basin Management Unit. The project is ready to continue forward.

**Describe partnerships for this project (include documentation):**

None

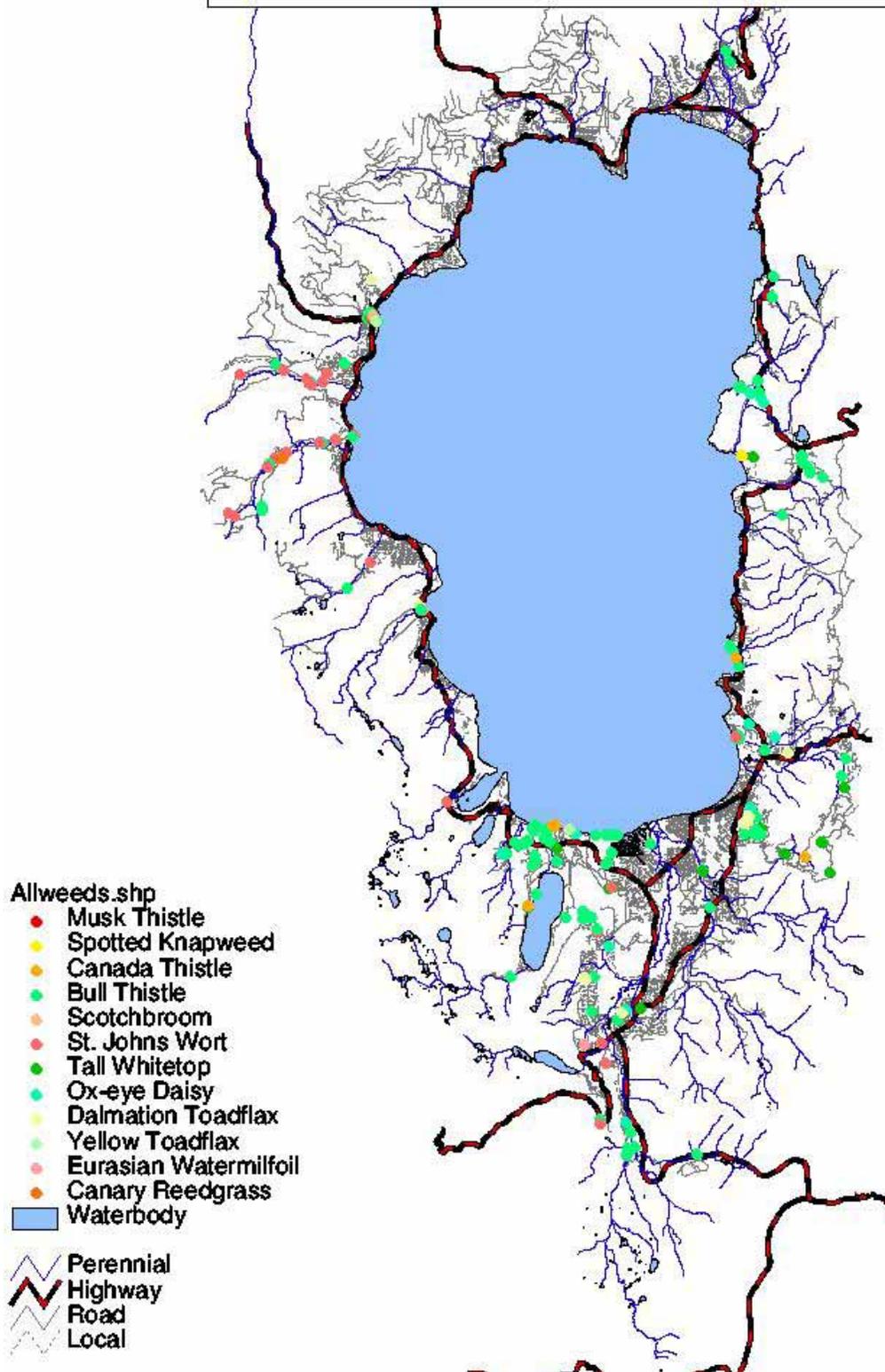
**For non-Science & Research Projects (i.e. restoration, planning efforts etc.) describe the anticipated project effectiveness monitoring program for use with adaptive management framework:**

When a weed infestation is visited, the length and width of the infestation is recorded as well as the percent cover of the weed within that area. This is done on all subsequent visits in order to determine the effectiveness of the treatment. If it is found that the infestation is decreasing in size, then the treatment will continue until the weed is eradicated. If it is found that the infestation is increasing in size, then a different treatment approach may be required. It may need to be visited more often or a more integrated pest management approach may be appropriate.

**Include an 8 ½ X 11 map depicting the project, or research/study area.**

See below.

## Noxious Weeds on the Lake Tahoe Basin Management Unit



**LAKE TAHOE RESTORATION PROJECTS**  
**TOTAL ESTIMATED DIRECT COSTS & KEY MILESTONE DATES**

Project Name: Manual Control Efforts for Noxious Weeds Agency: USFS, LTBMU  
 Prepared by: Beth Brenneman Phone: 530-543-2767 EIP #: 10184  
 SNPLMA Project #: \_\_\_\_\_

**Identify estimated costs of eligible reimbursement expenses:**

<b>8. Planning, Environmental Assessment and Research Costs</b> (specialist surveys, reports, monitoring, data collection, analysis, NEPA, etc.)	\$ <u>25,000</u>	<u>5</u> %
<b>9. Direct Labor (Payroll) to Perform the Project</b>	\$ <u>425,000</u>	<u>85</u> %
<b>10. Project Equipment</b> (tools, software, specialized equipment, etc.)	\$ <u>10,000</u>	<u>2</u> %
<b>11. Travel</b> (including per diem where official travel status required to carry out project, such as serve as COR, experts to review reports, etc.)	\$ <u>15,000</u>	<u>3</u> %
<b>12. Official Vehicle Use</b> (pro rata cost for use of Official Vehicles when required to carry out project)	\$ <u>25,000</u>	<u>5</u> %
<b>13. Cost of Contracts, Grants and/or Agreements to Perform the Project</b>	\$ _____	_____ %
<b>14. Other Direct Costs</b> (direct labor for agency personnel to do project procurements; COR; PI; personnel assigned as NEPA lead; personnel assigned to review contracted surveys, designs/drawings, reports, etc.; project manager and/or project supervisor; and contracted costs for project manager and/or project supervisor if contracted separately)	\$ _____	_____ %
<b>TOTAL*:</b>	\$ <u>500,000</u>	<u>100</u> %

**Estimated Key Milestone Dates:**

Milestones/Deliverables:	Estimated Costs:	Date:
2006 noxious weed inventory and control efforts	\$100,000	10/01/05-9/31/06
2007 noxious weed inventory and control efforts	\$100,000	10/01/06-9/31/07
2008 noxious weed inventory and control efforts	\$100,000	10/01/07-9/31/08
2009 noxious weed inventory and control efforts	\$100,000	10/01/08-9/31/09
2010 noxious weed inventory and control efforts	\$100,000	10/01/09-9/31/10
Final Completion Date:		9/31/10

**COMMENTS:**

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