



Eurasian Watermilfoil (EWM) Control in the Inland Empire Cooperative Weed Management Area (IECWMA) **2006 Season Report**



*Eurasian Watermilfoil-Sportsman's Bay,
Hayden Lake ID*



*Bill Hargrave-Survey of EWM on Hayden
Lake*



Healthy EWM on Hayden Lake

November 2006
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Project Manager
Chair-IEWCMA

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It is with the greatest appreciation that the IECWMA recognizes the cooperators involved with the 2006 EWM Control Project. With their support the project was possible on a larger scale than had ever been attempted.

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- Representative Eric Anderson-District 1
- Matthew Voile, Idaho Department of Agriculture Noxious Weed Program Manager
- Idaho Department of Agriculture (ISDA)-State Noxious Weed Program (Boise) and Division of Agricultural Resources (Boise and Hayden Offices)
- Idaho Department of Environmental Quality (IDEQ) (Boise and Coeur d'Alene Offices)
- Idaho Department of Fish & Game (IDFG) (Coeur d'Alene and Harrison Field Offices)
- Idaho Department of Lands (IDL)
- Idaho Department of Water Resources (IDWR) (Boise and Coeur d'Alene Offices)
- Idaho Transportation Department (ITD).
- Idaho Weed Awareness Campaign (IWAC)
- University of Idaho Plant, Soil and Entomological Sciences Department
- U.S. Army Corps of Engineers (USACOE)
- U.S. Forest Service (USFS)
- Panhandle Health District
- Panhandle Lakes RC&D (Coeur d'Alene Office and Council)
- Coeur d'Alene Tribe
- Civil Air Patrol Squadron
- Kootenai County Administrative Services
- Kootenai County Board of County Commissioners
- Kootenai County/Coeur d'Alene Airport
- Kootenai County Noxious Weed Control
- Kootenai County Parks & Waterways
- Kootenai County Reprographic Center
- Hayden Lake Recreational Water & Sewer District
- Camp MiVoden
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- Hayden Lake Marina
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- Helena Chemical
- SePRO Chemical
- Anatek Labs, Inc.
- Coeur d'Alene Press
- Spokesman Review
- KVNI Talk Radio 1080
- Sunshine Trader
- Caruso's Deli



*Project Manager, Nina Eckberg,
with 6 ft. EWM in June 2006
Hayden Lake ID*

EXECUTIVE SUMMARY¹

Eurasian Watermilfoil Control in the Inland Empire CWMA (IECWMA)

In 1998, Eurasian watermilfoil (known as EWM), a submerged, non-native aquatic plant, was found in approximately 600 acres of Hayden Lake, a prime recreational lake in Kootenai County. In 2002, because the Inland Empire CWMA encompasses the counties of Benewah, Kootenai and Shoshone, the decision was made by the CWMA partners to make EWM control a priority. In the years that followed, control efforts have been attempted by the CWMA, using integrated management tools while building public awareness. In 2005, about 400 acres of EWM was reported in the tribal waters of Lake Coeur d'Alene by the Coeur d'Alene Tribe, in Benewah County.

For 2006, the State Legislature appropriated \$4 million to eradicate or control and contain Eurasian Watermilfoil for two years throughout Idaho. The IECWMA received two grants for EWM control in Hayden Lake and Lake Coeur d'Alene, ID from the Idaho Dept. of Agriculture (ISDA) in the amount of \$310,316. Other monies collected were \$3,851 from Hayden Lake private landowners, \$5,000 from the Idaho Dept. of Lands (IDL) and \$9,988 from Kootenai County Board of County Commissioners for an overall total of \$329,155 .

All IECWMA control efforts on Hayden Lake and Lake Coeur d'Alene focused on an integrated pest management (IPM) approach. At the end of the 2006 season, the following activities were completed:

- **Surveys**
 - **4 aerial** surveys were completed between June and September, covering **6 bays** in Hayden Lake with major EWM infestations.
 - **3 surface/diving** surveys completed between July and September, covering **29 sites**.
 - **2 rake/surface** surveys were done in June before treatments began to determine EWM infestation locations and size.
- **Chemical Control- 293 surface areas were treated** in June with aquatically approved **herbicides** and water testing and dissolved oxygen readings followed for three weeks.
- **Mechanical Control- 12.5 acres of EWM** were hand pulled or vacuum dredged by divers, **removing 5,000 lbs. of bio-mass in a 20-day period** during July and August.
- **Physical Control- 1,400 square ft. of bottom barriers** were placed at a 7-slip marina in Hayden Lake in August 2005 and removed in August 2006, completely clearing EWM from the treated areas. Ongoing research in Lake Coeur d'Alene (with the University of Idaho and the Coeur d'Alene Tribe) saw the placement and removal of 2,400 sq. ft. of bottom barriers.
- **Education**
 - **10 EWM programs** presented in the Idaho Panhandle reached **2763 people**. These included requested programs, workshops/forums and radio from March to October.
 - **1,137 EWM awareness publications** were distributed throughout the year.
 - **10-minute DVD** was developed between June and October to educate various agencies and the State Legislature about EWM control activities on Hayden Lake.

¹ For a more comprehensive history of previous projects, refer to the 2005 Addendum to the Integrated Management Plan for Eurasian Watermilfoil Control in the Waterways of Kootenai County, Idaho, Feb. 2005 from Kootenai County Noxious Weed Control, Hayden ID.

- **696 public service announcements** were televised in the local Spokane broadcast market from June through September (427 purchased, 269 gratis).

Results of these activities will be determined at the beginning of the 2007 season when surveys are conducted to measure the infestation sites from this year.

Allowing the infestations in Hayden Lake and Lake Coeur d'Alene to proliferate will severely affect the public use of our natural resources. In addition to heavy recreational use, seasonal and full-time residential development continues to escalate along and around our waterways. The lakes and fisheries are among the area's greatest assets, so one of the top goals for the Inland Empire CWMA is to prevent the spread of EWM in North Idaho.

Table I-Activity Costs

Activity	\$ Cost to date
Herbicides (products, applicator, H2O sample testing, equipment costs)	199,912
Diving (divers, fuel, equipment)	14,063
Video (DVD development, DV mini-tape footage & still photos)	30,773
Surveys-Hayden Lake (surface, diving & aerial)	5,833
Survey-Lake Coeur d'Alene (surface & diving)	1,393
Education (television, newspaper, workshops, forums)	20,032
Administrative fees to RC&D	14,777
TOTAL	286,783

Activity	Cost/Acre
Herbicide treatment (includes herbicides, applicator, sampling, equip costs & surveys) ÷ 293 acres	\$702
Diving (divers, fuel, equipment rental) ÷ 12.5 acres	\$1,125

