



State Noxious Weed List

Class A – mandatory eradication

limited distribution, high risk

- Such as *Hydrilla*, flowering rush, variable leaf milfoil

Class B – designated for control in regions where they are not well established

16 freshwater aquatic and wetland species

- includes Eurasian watermilfoil

Class C – widespread weeds, control up to local discretion (County weed boards)

5 freshwater aquatic and wetland species

Quarantine List, monitor list

State Aquatic Weed Management Fund

Provides funding for projects including plant management plans, control, research, and education – about \$500,000 per year total passed through

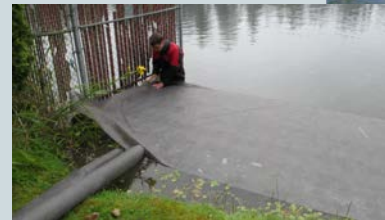
Supports ± two staff for fund administration, monitoring and technical assistance



Aquatic Weed Control

• Mechanical Methods

- Hand pulling
- Hand cutting or raking
- Bottom barrier



Aquatic Weed Control

- Mechanical con't
 - Diver dredging
 - Mechanical cutting
 - Harvesting
 - Rotovation



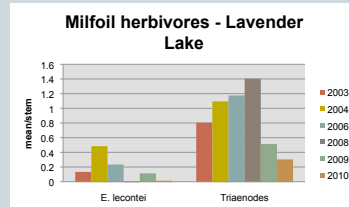
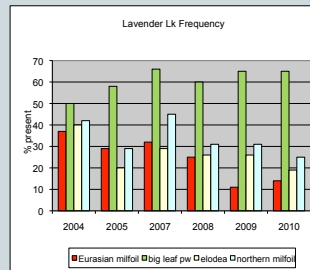
Aquatic Weed Control

- Biological Control
 - Insects
 - Grass carp



Milfoil biocontrol

- Three known insects
 - Milfoil weevil
 - Milfoil midge
 - Caddisfly
- Appear widely distributed in WA
- Control milfoil in some lakes



Aquatic Weed Control

- Lake Manipulation
 - Water drawdown, expose to freezing or drying



Aquatic Weed Control

- Herbicides
 - 2, 4-D
 - Diquat dibromide
 - Endothall
 - Fluridone
 - Glyphosate
 - Imazapyr
 - Triclopyr
- Separate list of allowed adjuvants/surfactants



Permits Necessary

- **Herbicide use**
 - **Aquatic Plant and Algae Management Permit** - Ecology
 - For in-lake plant or algae treatment
 - **Noxious weed permit** issued to Agriculture by Ecology, everything riparian or riverine aquatic noxious weeds
- Activities like hand pulling, harvesting, diver dredging are under the Hydraulic Project Approval - WDFW
- Grass Carp permit – triploid only – WDFW

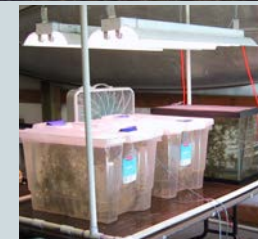
Case Study featuring EWM

- Bead Lake
- Found in July 2010
- Hand pulled same year
- Used grant money for herbicide in one bay, continued hand pulling 2011



Case Study

- **Mattoon Lake**
 - EWM introduced late '90's
 - Weevil augmentation project 2002-2008
 - Herbicide 2009, 2011



Mattoon Lake con't

- Hybrid milfoil may be complicating control, should we be eliminating it?



Lake Osoyoos

- Grant awarded for development of Aquatic Vegetation Management Plan last year
 - Fragments from harvester have been an issue
- Permit for aquatic herbicide use issued Sep '11 – 10 acres
- Biocontrols present

