

Pond Weed and Algae Control Tips

Think Prevention

- Keep nutrients away from ponds / Limit runoff
- Maintain vegetation around ponds
- Exclude livestock
- Keep ponds aerated

Techniques for Pond Weed and Algae Control

- Biological
 - Grass Carp (8-15 / surface acre; use 8-12" fish)
 - Barley Straw (Variable response)
- Habitat Alteration
 - Dyes
 - Works on rooted underwater plants growing at 2-3' depths.
 - Apply in March / April
 - Maintain concentration
 - Not for muddy water
 - Maintain a deeper water level
- Chemical Control

Common Algaecides and Aquatic Herbicides

(Refer to the Label for Specific Rates and Precautions)

- Contact Materials
 - Copper Sulfate
 - Fish are particularly sensitive to it, especially catfish and trout.
 - Treat in early spring before matted growth occurs. Repeat treatment as necessary.
 - Leave untreated areas for fish to move into.
 - Treat no more than 1/4 to 1/3 of pond at a time and wait 2 weeks between treatments.
 - May apply using burlap bags.
 - Rate: 2-3 lb/Ac-Ft; Rate may vary between brands.
 - Copper Chelates (e.g. Cutrine-Plus)
 - Do not use in water containing trout
 - Fish toxicity is dependent on hardness of water
 - No other restrictions regarding stock watering, irrigation, fishing and swimming are listed on the label
 - Diquat (e.g. Weedtrine-D; Reward)
 - No stock watering for 1-5 days
- Translocated Materials
 - Fluridone (e.g. Sonar; Avast!)
 - No irrigation for 7-30 days
 - Do not apply within 1/4 mile of a functioning potable water intake
 - No stock watering restriction listed on label

- 2,4-D (Navigate; Aquakleen; Aquacide)
 - Refer to label for restrictions
- Glyphosate (Rodeo; GlyphoMate 41; Eagre; Aquamaster; Aquastar; Shore-Klear)
 - Do not use within ½ mile of a potable water intake (reservoir, lake, stream, river)
 - No restrictions listed on label regarding irrigation, stock watering, fishing or swimming

Specific Problems and Possible Solutions

Filamentous & Microscopic Algae – Copper Sulfate; Copper Chelates; Barley Straw; Grass Carp (minimal)

FREE FLOATING WEEDS

Duckweed – Multiple applications of Diquat; Dredging the pond

Watermeal – Fluridone (2 Treatments)

SUBMERSED PLANTS

American Elodea / Pondweeds – Grass Carp; Diquat; Fluridone

ROOTED FLOATING PLANTS

Waterlily – Glyphosate

Watershield – Grass Carp; 2,4-D

Waterprimose – Grass Carp; 2,4-D

EMERGENT PLANTS

Cattail – Glyphosate

Bulrush – 2,4-D; Glyphosate

Spikerush – 2,4-D

Stock Tank Algae Control

- Chlorine Bleach
 - 2-3 oz per 100 gallons every week
- Copper Sulfate
 - 1/8 tsp per 100 gallons
- Zinc Sulfate
 - Dissolve 1 cup in 1 gal water; Use ½ cup solution per 100 gallons
- Goldfish
 - 4-6 per 100 gallons
 - Must be taken indoors in fall

For More Information: Tim Schnakenberg, Agonomy Specialist, University of Missouri Extension Galena, MO 417-357-6812