

AQUATIC WEEDS: ponds and lakes

Formulated Product and Rate	Types of Aquatic Weed or Site	Remarks and Precautions
FLOATING WEED (unattached, tops above water):		
2,4-D amine @ 4.0 lb/A in 100 gal water	Floating mats of alligatorweed, and water hyacinth	Apply on foliage when weeds are actively growing. Spray to uniformly wet foliage. Add ¼ % approved nonionic surfactant. Repeat in 4 to 6 weeks. Avoid use in waters used for irrigation.
Diquat/ Reward @ up to 1.0 gal/A + 1.0 qt of surfactant/100 gallons of water	Duckweeds, water hyacinth, and water lettuce	Apply on foliage when weeds are actively growing. Apply as a surface spray. Follow label for water restrictions after application.
Habitat @2-3 pts/A + 0.25 % nonionic surfactant	Duckweeds, water hyacinth	Apply when weeds are actively growing. Follow potable and irrigation water restrictions. Must be applied by certified commercial applicator only.
Rodeo or Aquamaster @ 4.0-6.0 pt/A plus surfactant	Water hyacinth	Rodeo or Aquamaster 4.0-6.0 pt/A plus 0.5% approved surfactant.
Diquat/Reward @ 1.0 gal/A	Common or giant salvinia	Apply 1.0 gal/A as a low or high volume spray plus 0.5% approved surfactant.
Aquamaster @ 2.0% v/v (2.5 oz/gal) +0.5% v/v approved surfactant (0.64 oz/A)	Common or giant salvinia	Spray to wet.
NOTE: A ft (acre foot) = volume of water in an area having 1 acre of surface and a depth of 1 foot.		
EMERSED AND MARGINAL WEEDS (rooted under water, tops above water, or growing on wet soil):		
2,4-D low volatile ester (LVE) @ 4.0 lb/A in 100 gal water	Broadleaf species (Arrowhead, lotus, smartweed, spatterdock, spikerush, waterprimrose, white water lily, yellow water lily)	Apply on foliage when weeds are actively growing. Spray to uniformly wet foliage. Add 10% fuel oil by volume or 1.0 qt. surfactant to spray mix. More than one application may be required for control of some species. Avoid use in waters for crop irrigation.
Habitat @ 1-6 pts/A plus 0.25% nonionic surfactant	Many grasses, rushes, sedges and broadleaf weeds. Especially useful for controlling trees and brush in water.	Apply when weeds and woody plants are actively growing. Follow potable and irrigation water restrictions. Must be applied by certified commercial applicator only.
Rodeo or Aquamaster @ 1.5-7.5 pt/A broadcast or 0.75-1.5% in spray to wet equipment plus 0.5% approved surfactant.	Broadleaf weeds, grasses and weedy species. (cattail, maidencane, smartweed, spatterdock, willowand others)	Apply to actively growing weeds. See label for proper stage of growth. No restrictions on the use of the water. Do not apply within 0.5 miles upstream of potable water intakes or in tidewater areas
Renovate 3 @ 2-8 qt/A in 20-200 gal water	Broadleaf weeds, brush and trees	Apply to Water hyacinth, alligatorweed, water primrose, many tree species. Can be applied to impounded water only, not to flowing streams. Apply by air or ground. Add an approved aquatic surfactant at 0.5%.
SUBMERSED WEEDS (tops mostly underwater, usually rooted or anchored):		
Copper sulfate @ 2.0 -3.0 lb/A ft of water	Algae (scums and mosses)	Apply at bloom. Apply crystals or powder at any stage of algae growth by any method to give rapid and uniform distribution. Repeat as necessary to maintain control. Treat only a portion of the pond at once. Apply 3.0 lb/A ft. in ponds with soft water.
Endothall Aquathol liquid @ 1.0 - 2.0 gal/A Aquathol Granular @ 125 lb–250 lb/A (water 4-6 ft)	Coontail, fanwort, milfoil, pondweeds	Apply at active growth stage. Can be injected into the upper end of the pond or sprayed over surface of pond. Do not use fish for 3 days after treatment. Can be used for other uses within 7 days after treatment. Read the label.
Citrine-Plus @ 0.6 gal/acre ft of water	Algae (scums and mosses)	Apply at bloom. Apply as a surface spray or injection. Toxicity to fish is dependent on water hardness. See label for directions.

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SUBMERSED WEEDS (tops mostly underwater, usually rooted or anchored): continued		
Hydrothol 191 @ 0.6-3.6 pt/A ft of water	Algae (scums and mosses)	Apply at bloom. Apply as a surface spray. Follow label instructions concerning fish toxicity.
Sonar 5P @ 10-20 lb/surface acre Sonar AS @ 1.0-2.0 pt/surface acre Avast (see label for specific rates)	Coontail, fanwort, milfoil, hydrilla, elodea, naiad, pondweeds	Apply at active growth stage. Slow kill. Effective against most rooted plants. If water is deeper than 6 feet, increase rate by 50%.
Diquat or Reward @ 1.0 - 2.0 gal/surface-acre	Coontail, naiad, milfoil, giant salvinia, common salvinia.	Apply at active growth stage. Apply as a direct pour or subsurface injection. Short residual. Water may be used for irrigation 5 days after treatment.
Aqua-Kleen granules @ 100-200 lb/A	Coontail, naiads, milfoil	Apply after weeds begin to grow in spring. Granular 2,4-D. Do not apply to water used for agricultural use or potable water supplies. Excellent for treating around docks, landings, etc.

USE RESTRICTIONS for TREATED WATER (number of days)

Herbicide	Human		Fish	Animal	Irrigation		
	Drinking	Swimming	consumption	Drinking	Turf	Forage	Food crops
Aquathol Granular	7	1	0	7	0	7	7
Aquathol K	7-25	1	0	7-25	0	7-25	7-25
Aquazine	365	21	0	365	365	365	365
Copper complexes	0	0	0	0	0	0	0
Copper sulfate	0	0	0	0	0	0	0
Dichlobenil ^a	-	-	90 ^b	-	-	-	-
Diquat/Reward	2	0	0	1	2	5	5
Habitat	2	0	0	0	120 ^g	120 ^g	120 ^g
Hydrothol	7-25	1	0	7-25	7-25	7-25	7-25
Rodeo/Glypro	0	0	0	0	0	0	0
Sonar/Avast	- ^e	0	0	0	30 ^d	30 ^d	30 ^d
2,4-D	21 ^e	-	-	21 ^e	21 ^e	21	21 ^{e,f}

^a do not use in human, animal or irrigation water

^b not recommended for use in commercial fishing areas

^c see label for distance allowed from potable water intakes

^d restriction suggest by manufacturer

^e shorter interval may be used depending on amount of 2,4-D acid present

^f do not use on irrigation ditches

^g or until residues = 1.0 ppb