



**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER BUREAU**

This table contains information concerning the herbicides permitted for aquatic plant and algae control in Michigan and the plant species for which they may serve as potential control agents. Refer to product labels for additional details.

Permits may be required prior to use of any pesticide, including "unclassified" pesticides. Contact the DEQ, Aquatic Nuisance Control & Remedial Action Unit at 517-241-7734, by e-mail at DEQ-LWM-ANC@michigan.gov, or visit our website at www.michigan.gov/deq.

Common Plant Species	Copper Sulfate	Chelated Copper	Amine Salts of Endothall* (Hydrothol 191)	Dipotassium Salts of Endothall* (Aquathol K)	Diquat dibromide** (Reward)	2,4-D* (Navigate, Aquakleen, Aquacide)
Algae						
Filamentous	X	X	X		X	
Macroalgae (e.g., Chara)	X	X	X			
Planktonic	X	X	X			
Macrophytes						
Submergents						
Coontail			X	X	X	X
Curly leaf pondweed			X	X	X	
Elodea			X		X	
Large leaf pondweed			X	X	X	
Milfoil			X	X	X	X
Naiad			X	X	X	
Sago pondweed			X	X	X	
Wild Celery			X		X	
Emergents						
Arrowhead						X
Bulrush						X
Cattails						X
Phragmites						
Purple Loosestrife						
Water lily						X
Free Floating						
Duckweed					X	

* Granular endothall and/or granular 2,4-D products may not be applied within 75 feet of ANY drinking water well or within 250 feet of drinking water wells that are less than 30 feet deep. Isolation distances are measured from the well location, not the shoreline.

** Diquat products are restricted for all aquatic uses, except in small ponds, such as farm ponds that have no outflow and are under the control of the user. This means that you must be licensed by the Michigan Department of Agriculture as a certified pest control applicator to use this material in all waterbodies except small ponds. Diquat is the only "Restricted Use" pesticide on the chart. All others are "Unclassified."



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Common Plant Species	Fluridone (Sonar, AVAST!)	Glyphosate (Rodeo, Eagre, AquaNeat)	Imazapyr**** (Habitat)	Komeen	Nautique	Sodium Carbonate Peroxyhydrate (GreenClean Pro, Pak 27*****)	Triclopyr (Renovate 3)
Algae							
Filamentous						X	
Macroalgae (e.g., Chara)							
Planktonic						X	
Macrophytes							
Submergents							
Coontail				X			
Curly leaf pondweed							
Elodea				X			
Large leaf pondweed							
Milfoil	X***			X			X
Naiad				X	X		
Sago pondweed				X			
Wild Celery					X		
Emergents							
Arrowhead							
Bulrush			X				
Cattails		X	X				
Phragmites							
Purple Loosestrife		X	X				X
Water lily	X	X					X
Free Floating							
Duckweed			X				

*** Fluridone use may require a Lake Management Plan. Rates requested above 6 ppb must follow evaluation protocol.

**** As indicated on the label, application of Habitat can only be made by applicators who are licensed or certified as aquatic pest control applicators and are authorized by the state or local government.

***** The label indicates use for treatment of blue-green algae.