



TABLE 19-1. HABITATS AND HERBICIDE SUSCEPTIBILITY OF COMMON AQUATIC PLANTS

|   | spring-fed pond | dugout | soft water lake* | hard water lake** | wet ditch*** | dry ditch**** | Mechanical Control | Copper compound (1) | Diquat (2) | Amitrole (4) |
|---|-----------------|--------|------------------|-------------------|--------------|---------------|--------------------|---------------------|------------|--------------|
| <b>Algae</b>                              |                 |        |                  |                   |              |               |                    |                     |            |              |
| <i>Pithophora</i>                         |                 |        |                  |                   |              |               |                    |                     | S-I        |              |
| <i>Spirogyra</i> spp.                     | VC              | VC     | C-I              |                   | VC           | I             |                    | S                   | R          |              |
| <i>Ulothrix</i> spp.                      | C               | VC     |                  |                   | VC           |               |                    | S                   | R          |              |
| <i>Mougeotia</i> spp.                     | C               | VC     |                  |                   | VC           |               |                    | S                   | R          |              |
| <i>Cladophora</i> spp.                    | VC              | VC     | C                | VC                | VC           | VC            |                    | S                   | R          |              |
| <i>Chara</i> spp. (Muskgrass)             | VC              | I      | C-I              | VC-I              | VC           | R             |                    | S                   | R          |              |
| <i>Nitella</i> spp. (Stonewort)           | I               | R      | VC               | R                 | R            | R             |                    | S                   | R          |              |
| <b>Submergent Macrophytes</b>             |                 |        |                  |                   |              |               |                    |                     |            |              |
| Sago pondweed ( <i>P. pectinatus</i> )    | I               | C-I    |                  | VC                |              |               |                    | R                   | S          |              |
| Curly-leaf pondweed ( <i>P. crispus</i> ) | C               | VC     |                  | VC                |              |               |                    | R                   | S          |              |

|   | spring-fed pond | dugout | soft water lake* | hard water lake** | wet ditch*** | dry ditch**** | Mechanical Control | Copper compound (1) | Diquat (2) | Amitrole (4) |
|---|-----------------|--------|------------------|-------------------|--------------|---------------|--------------------|---------------------|------------|--------------|
| Bassweed ( <i>P.amplifolius</i> )                       | R               | C      |                  | C                 |              |               |                    | R                   | I          |              |
| Richardson pondweed ( <i>P. richardsonii</i> )          |                 |        |                  | VC-C              |              |               |                    | R                   | S-I        |              |
| Flat-stemmed pondweed ( <i>P. zosteriformis</i> )       |                 |        |                  | C                 |              |               |                    | R                   | S          |              |
| other narrow-leaf pondweed ( <i>Potamogeton</i> spp.)   | I               | C      | C                | VC-C              |              |               |                    | R                   | S          |              |
| Eurasian water milfoil ( <i>Myriophyllum spicatum</i> ) |                 |        | VC               |                   |              |               |                    | R                   | VS         |              |
| Native milfoil ( <i>M. exalbescens</i> and others)      | C               |        | C                | VC                |              |               |                    | R                   | VS         |              |
| Bladderwort ( <i>Utricularia vulgaris</i> )             |                 | C      |                  | C                 |              |               |                    | R                   | S-I        |              |
| Coontail ( <i>Ceratophyllum demersum</i> )              |                 | C      |                  | VC                |              |               |                    | R                   | I          |              |
| Water stargrass ( <i>Heterantheria dubia</i> )          |                 |        |                  | C                 |              |               |                    | R                   | S-I        |              |
| Tape grass ( <i>Vallisneria americana</i> )             | R               | I      | C                | VC                | R            | R             | M**                | R                   | R          | R            |
| Water naiad ( <i>Najas flexilis</i> )                   |                 | I      |                  | VC                |              |               |                    | R                   | S          |              |
| Canada waterweed ( <i>Elodea canadensis</i> )           |                 | C      |                  | VC                |              |               |                    | R                   | I          |              |
| <b>Emergents</b>  |                 |        |                  |                   |              |               |                    |                     |            |              |
| Cattails ( <i>T. latifolia, T angustifolia</i> )        | VC              | VC     |                  | VC                | VC           | I-C           | M                  | R                   | R          | S-I          |
| Bulrush ( <i>Scirpus</i> spp.)                          |                 |        | C                | VC                | C            | C             | M                  | R                   |            | S-I          |
| Sedge ( <i>Carex</i> spp+A42)                           |                 |        | C                | C                 | C            | VC            | M                  | R                   |            | S-I          |
| Bur reed ( <i>Sparganium</i> spp.)                      | C               |        | C                | C                 | C            | VC            | M                  | R                   |            | I            |

|  | spring-fed pond | dugout | soft water lake* | hard water lake**   | wet ditch*** | dry ditch**** | Mechanical Control | Copper compound (1) | Diquat (2) | Amitrole (4) |
|--|-----------------|--------|------------------|---|--------------|---------------|--------------------|---------------------|------------|--------------|
| Water plantain ( <i>Alisma</i> spp.)   |                 |        | I                | C   | C            | VC            |                    | R                   |            | S            |
| Pipewort ( <i>Eriocaulon</i> spp.)   | R               | R      | C                | R   | R            | R             | M*                 | R                   |            |              |
| Arrowhead ( <i>Sagittaria</i> spp.)  |                 | C      |                  | VC  | I-C          |               |                    | R                   |            |              |
| Pickerelweed ( <i>Pontederia</i> spp.)   |                 |        | VC               |   | I            | R             |                    | R                   |            |              |
| Water smartweed ( <i>Polygonum amphibium</i> )   | I               | I      |                  |   |              |               |                    | R                   |            |              |
| Water shield ( <i>Brasenia</i> spp.)   |                 |        | C                |   |              |               |                    | R                   |            |              |
| White water lily ( <i>Nymphaea</i> spp.)   |                 |        | C                | C   |              |               | M*                 | R                   |            |              |
| Yellow water lily ( <i>Nuphar</i> spp.)  |                 | C-I    | C                | C   |              |               | M*                 | R                   |            |              |
| Duckweed ( <i>Lemna</i> spp.)  | R               | C      | I-R              | VC  |              |               |                    | R                   | S          |              |
| Duckmeal ( <i>Wolffia</i> spp.)  | R               | C-I    | I-R              | VC  |              |               |                    | R                   | S          |              |
| VC – very common; C – common; I – infrequent; R – rare<br>S – susceptible; I – intermediate; R – resistant<br>M – Manual or mechanical methods equally as effective as herbicides.<br>M* – Manual or mechanical methods are generally more effective than herbicides.<br>M** – Manual or mechanical methods are the only control measure currently available.<br># Bur reed is also very common as a submerged plant in ecotypes C and D.<br>^ Weeds denoted with an “R” may be damaged but will likely recover. |                 |        |                  | * – A typical Muskoka lake is an example of a soft water lake.<br>** – A typical Kawartha lake is an example of a hard water lake.<br>*** – A wet ditch contains water at time of treatment.<br>**** – A dry ditch contains no water at time of treatment.<br>(1) Copper compound (Polydex).<br>(2) Diquat (Reglone A).<br>(3) Amitrole (Amitrole 240). |              |               |                    |                     |            |              |

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