

Selected Hydrophyte Species of New York

Group A - Plants with leaves typically broad, all basal or arising from a floating or embedded rhizome or stem, the blades simple, more or less deltoid, sagittate, or elliptic.

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| 1. <i>Nuphar advena</i> | yellow water lily |
| 2. <i>Nymphaea</i> spp. | fragrant water lily |
| 3. <i>Nelumbo lutea</i> | American water lotus |
| 4. <i>Brasenia schreberi</i> | water shield |
| 5. <i>Pontederia cordata</i> | pickerelweed |
| 6. <i>Eichornia crassipes</i> | water hyacinth |
| 7. <i>Sagittaria</i> spp. | arrowhead |
| 8. <i>Alisma plantago-aquatica</i> | water plantain |
| 9. <i>Peltandra virginica</i> | arrow arum |

Group B - Plants with submersed leaves dissected into narrow segments (plus some related species of *Ranunculus* and *Utricularia* with some leaves otherwise).

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|----------------------------------|--------------------|
| 1. <i>Ranunculus</i> spp. | water crowfoot |
| 2. <i>Myriophyllum</i> spp. | water milfoil |
| 3. <i>Ceratophyllum demersum</i> | coontail, hornwort |
| 4. <i>Utricularia vulgaris</i> | bladderwort |

Group C - Plants small, completely free floating. Family Lemnaceae (Duckweeds)

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| 1. <i>Spirodela polyrhiza</i> | greater duckweed |
| 2. <i>Lemna minor</i> | lesser duckweed |
| 3. <i>Lemna trisulca</i> | star duckweed |
| 4. <i>Wolffia</i> spp. | watermeal |

Group D - Plants with leaves all submersed; basal, opposite, or whorled.

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| 1. <i>Najas</i> spp. | naiads |
| 2. <i>Vallisneria americana</i> | eel grass |
| 3. <i>Elodea canadensis</i> | elodea |

Group E - Plants with leaves all or mostly submersed (some floating); alternate, simple.

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| 1. <i>Zosterella dubia</i> (formerly <i>Heteranthera dubia</i>) | water star grass |
| 2. <i>Potamogeton</i> spp. | pondweeds |

Group F - Plants with leaves all narrow, basal, and mostly emergent.

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| 1. <i>Typha angustifolia</i> | narrow-leaf cattail |
| 2. <i>Typha latifolia</i> | broad-leaf cattail |
| 3. <i>Sparganium</i> spp. | burreed |
| 4. <i>Iris</i> spp. | iris (blue flag, yellow flag, etc.) |

Group G - Monocots: three-ranked leaves (usually). Family Cyperaceae (Sedges)

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|-----------------------------------|-------------------------|
| 1. <i>Scirpus</i> spp. | bulrushes |
| a. <i>S. atrovirens</i> | common bulrush |
| b. <i>S. cyperinus</i> | woolly bulrush |
| c. <i>S. validus</i> | softstem bulrush |
| 2. <i>Carex</i> spp. | bristly sedges |
| a. <i>C. stricta</i> | tussock sedge |
| 3. <i>Cyperus</i> spp. | flat sedges, nut sedges |
| 4. <i>Eleocharis</i> spp. | spike rushes |
| 5. <i>Dulichium aarundinaceum</i> | three-way sedge |

Group H - Monocots: round stem, occasional leafing from base. Family Juncaceae (Rushes)

1. *Juncus effusus* soft rush
2. *Juncus tenuis (macer)* path rush

Group I - Monocots: two-ranked leaves; ligule on leaves where clasping stem. Family Poaceae (Grasses)

1. *Phalaris arundinacea* reed canary grass
2. *Leersia oryzoides* rice cut grass
3. *Phragmites australis* (formerly *communis*) reed grass, common reed
4. *Echinochloa pungens* barnyard grass

Group J - Rooted, emergent, marsh and shore plants. - *Herbaceous Plants*

1. Creeping plants, common to mudflats & margins
 - a. *Nasturtium officinale* water cress
 - b. *Ludwigia palustris* water purslane
 - c. *Elatine* spp. waterwort
 - d. *Lysimachia nummularia* moneywort
 - e. *Veronica anagallis-aquatica* water speedwell
 - f. *Myosotis scorpiodes* forget-me-not
2. Family Polygonaceae
 - a. *Polygonum* spp. buckwheat family
 - i. *P. cespitosum* smartweeds
 - ii. *P. coccineum* long-bristled smartweed
 - iii. *P. hydropiper* swamp smartweed, water smartweed
 - iv. *P. hydropiperoides* water pepper
 - v. *P. lapathifolium* mild water pepper
 - vi. *P. pennsylvanicum* nodding smartweed, pale smartweed
 - vii. *P. persicaria* Pennsylvania smartweed
 - viii. *P. punctatum* lady's thumb
 - ix. *P. orientale* water smartweed
 - x. *P. sagittatum* prince's feather
 - b. *Rumex* spp. tear thumb
 - a. *R. verticillatus* dock
3. Showy flowering plants
 - a. *Hibiscus palustris* swamp rose mallow, marsh mallow
 - b. *Epilobium* spp. willow herbs
 - c. *Asclepius incarnata* swamp milkweed
 - d. *Lobelia siphilitica* blue lobelia
 - e. *Lythrum salicaria* purple loosestrife
 - f. *Verbena hastata* blue vervain
 - g. *Impatiens capensis* jewel weed
 - h. *Caltha palustris* marsh marigold
4. Family Lamiaceae
 - a. *Lycopus* mint family
 - i. *L. unifloris* bugleweed
 - ii. *L. americanus* American water horehound
 - iii. *L. europaeus* European water horehound
 - b. *Mentha* spp.
 - i. *M. arvensis* field mint
 - ii. *M. aquatica* water mint
 - iii. *M. piperita* peppermint
 - iv. *M. spicata* spearmint

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| 5. Family Compositae | composites (sunflower-like) |
| a. <i>Bidens</i> spp. | bidens, beggar's-ticks |
| i. <i>B. cernuus</i> | beggar's-ticks |
| ii. <i>B. comosa</i> | leafy-bracted beggar's-ticks |
| iii. <i>B. connata</i> | swamp beggar's ticks |
| iv. <i>B. frondosa</i> | sticktight, Spanish needles |
| b. <i>Aster</i> spp. | asters |
| c. <i>Eupatorium maculatum</i> | joe-pye weed |
| d. <i>Eupatorium perfoliatum</i> | boneset |
| e. <i>Solidago</i> spp. | goldenrod |
| 6. Other emergent herbaceous plants | |
| a. <i>Solanum dulcamara</i> | nightshade |
| b. <i>Penthorum sedoides</i> | ditch stonecrop |
| c. <i>Sarracenia purpure</i> | pitcher plant |

Group J ⁶ - Rooted, emergent, marsh and shore plants. - *Shrubs & Trees*

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|-------------------------------------|----------------------|
| 1. <i>Salix</i> spp. | willows |
| 2. <i>Alnus incana</i> | speckled alder |
| 3. <i>Thuja occidentalis</i> | northern white cedar |
| 4. <i>Cephalanthus occidentalis</i> | button bush |
| 5. <i>Cornus stolonifera</i> | red-osier dogwood |

Group K - Non-vascular hydrophytes

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| 1. Branched Algae | |
| a. <i>Chara vulgaris</i> | chara, muskgrass |
| b. <i>Nitella</i> spp. | nitella |
| 2. <i>Fontinalis</i> spp. | water moss |
| 3. <i>Sphagnum</i> spp. | peat moss |
| 4. <i>Riccia fluitans</i> | slender riccia |
| 5. <i>Equisetum</i> spp. | horsetail |
| 6. <i>Isoetes</i> spp. | quillwort |
| 7. <i>Onoclea sensibilis</i> | sensitive fern |

Plant group classification system after: Dr. Ronald Stuckey, Ohio State University Botany Department