

## Appendix 11.5.1: Aquatic Vascular Plant Species Distribution Maps

These distribution maps are for 116 aquatic vascular macrophyte species (Table 1). Aquatic designation follows habitat descriptions in Haines and Vining (1998), and includes submergent, floating and some emergent species. See Appendix 11.4 for list of species. Also included in Appendix 11.4 is the number of HUC-10 watersheds from which each taxon has been recorded, and the county-level distributions. Data are from nine sources, as compiled in the MABP database (plus a few additional records derived from ancilliary information contained in reports from two fisheries surveys in the Upper St. John basin organized by The Nature Conservancy). With the exception of the University of Maine herbarium records, most locations represent point samples (coordinates were provided in data sources or derived by MABP from site descriptions in data sources). The herbarium data are identified only to township. In the species distribution maps, town-level records are indicated by center-points (centroids). Figure 1 on this page shows as polygons the towns where taxon records are identified only at the town level.

### Data Sources:

<i>MABP ID</i>	<i>MABP DataSet Name</i>	<i>Provider</i>
7	Rare taxa from MNAP lake plant surveys	D. Cameron, MNAP
8	Lake plant surveys	D. Cameron, MNAP
35	Acadia National Park plant survey	C. Greene et al.
63	Lake plant surveys	A. Dieffenbacher-Krall
71	Natural Heritage Database (rare plants)	MNAP
91	University of Maine herbarium database	C. Campbell
183	Natural Heritage Database (delisted species)	MNAP
194	Rapid bioassessment surveys	D. Cameron, MNAP
207	Invasive aquatic plant records	MDEP

Maps are in alphabetical order by species name. Species records are indicated by large red dots. All other plant collection sites are indicated by small blue dots. While the latter provide a rough indication of where sampling has occurred, it is important to note that sampling effort was not consistent at each point.

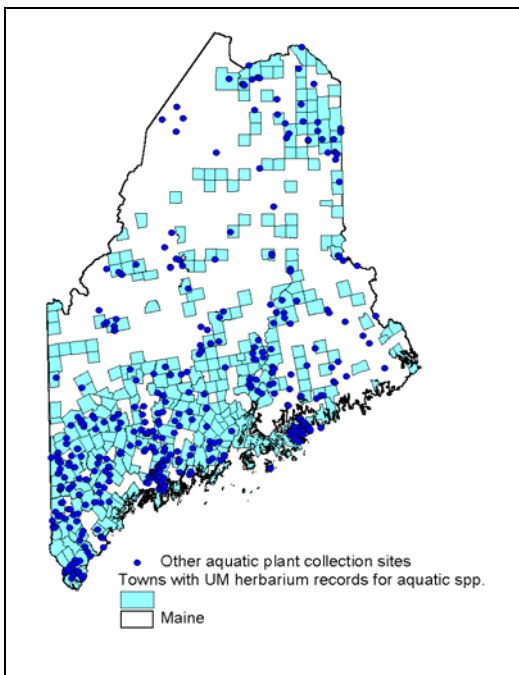


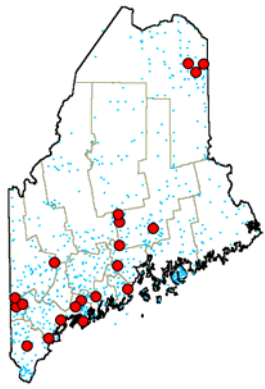
Figure 1: Map showing all aquatic plant sampling sites represented in this composite data set. (See above for additional information.)

Table 1: List of aquatic vascular plant species with mapped distributions.

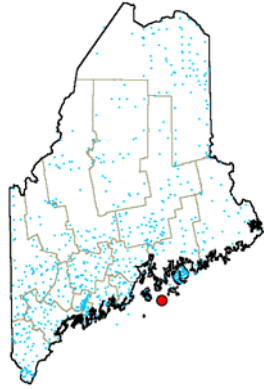
<b>Family</b>	<b>Scientific Name</b>	<b>Common Name</b>
Alismataceae	<i>Alisma subcordatum</i>	Southern water-plantain
Alismataceae	<i>Alisma triviale</i>	Northern water-plantain
Alismataceae	<i>Sagittaria calycina</i>	Tidal arrowhead
Alismataceae	<i>Sagittaria cuneata</i>	Arum-leaf arrowhead
Alismataceae	<i>Sagittaria filiformis</i>	Narrow-leaf arrowhead
Alismataceae	<i>Sagittaria graminea</i>	Grass-leaved arrowhead
Alismataceae	<i>Sagittaria latifolia</i>	Common arrowhead
Alismataceae	<i>Sagittaria rigida</i>	Stiff arrowhead
Apiaceae	<i>Sium suave</i>	Water-parsnip
Araceae	<i>Peltandra virginica</i>	Arrow arum
Asteraceae	<i>Megalodonta beckii</i>	Beck's water-marigold
Brassicaceae	<i>Rorippa nasturtium-aquaticum</i>	Water-cress
Brassicaceae	<i>Subularia aquatica</i>	Water awlwort
Campanulaceae	<i>Lobelia dortmanna</i>	Water lobelia
Ceratophyllaceae	<i>Ceratophyllum demersum</i>	Common hornwort
Ceratophyllaceae	<i>Ceratophyllum echinatum</i>	Prickly hornwort
Cyperaceae	<i>Eleocharis olivacea</i>	Bright-green spikerush
Cyperaceae	<i>Eleocharis palustris</i>	Creeping spikerush
Cyperaceae	<i>Eleocharis robbinsii</i>	Robbin's spikerush
Cyperaceae	<i>Eleocharis smallii</i>	Small's spikerush
Cyperaceae	<i>Schoenoplectus subterminalis</i>	Water bulrush
Cyperaceae	<i>Schoenoplectus tabernaemontani</i>	Soft-stem bulrush
Elatinaceae	<i>Elatine americana</i>	American water-wort
Elatinaceae	<i>Elatine minima</i>	Small water-wort
Equisetaceae	<i>Equisetum fluviatile</i>	River horsetail
Eriocaulaceae	<i>Eriocaulon aquaticum</i>	Pipewort
Haloragaceae	<i>Myriophyllum heterophyllum</i>	Two-leaf (variable) water-milfoil
Haloragaceae	<i>Myriophyllum alterniflorum</i>	Slender water-milfoil
Haloragaceae	<i>Myriophyllum farwellii</i>	Farwell's water-milfoil
Haloragaceae	<i>Myriophyllum humile</i>	Low water-milfoil
Haloragaceae	<i>Myriophyllum sibiricum</i>	Siberian (American) water-milfoil
Haloragaceae	<i>Myriophyllum tenellum</i>	Leafless water-milfoil
Haloragaceae	<i>Myriophyllum verticillatum</i>	Comb water-milfoil
Haloragaceae	<i>Proserpinaca palustris</i>	Marsh mermaid-weed
Hydrocharitaceae	<i>Elodea canadensis</i>	Common waterweed
Hydrocharitaceae	<i>Elodea nuttallii</i>	Nuttall's waterweed
Hydrocharitaceae	<i>Hydrilla verticillata</i>	Hydrilla
Hydrocharitaceae	<i>Vallisneria americana</i>	Tapegrass
Isoetaceae	<i>Isoetes acadensis</i>	Acadian quillwort
Isoetaceae	<i>Isoetes echinospora</i>	Spiny-spore quillwort
Isoetaceae	<i>Isoetes lacustris</i>	Lake quillwort
Isoetaceae	<i>Isoetes prototypus</i>	Prototype quillwort
Isoetaceae	<i>Isoetes riparia</i>	Shore quillwort
Isoetaceae	<i>Isoetes tuckermanii</i>	Tuckerman's quillwort
Isoetaceae	<i>Isoetes x harveyi</i>	Harvey's quillwort
Lemnaceae	<i>Lemna minor</i>	Lesser duckweed
Lemnaceae	<i>Spirodela polyrhiza</i>	Greater duckweed

Lemnaceae	<i>Wolffia columbiana</i>	Coumbia water-meal
Lentibulariaceae	<i>Utricularia cornuta</i>	Horned bladderwort
Lentibulariaceae	<i>Utricularia geminiscapa</i>	Mixed bladderwort
Lentibulariaceae	<i>Utricularia gibba</i>	Creeping bladderwort
Lentibulariaceae	<i>Utricularia intermedia</i>	Northern bladderwort
Lentibulariaceae	<i>Utricularia macrorhiza</i>	Common bladderwort
Lentibulariaceae	<i>Utricularia minor</i>	Lesser bladderwort
Lentibulariaceae	<i>Utricularia purpurea</i>	Spotted bladderwort
Lentibulariaceae	<i>Utricularia radiata</i>	Floating bladderwort
Lentibulariaceae	<i>Utricularia resupinata</i>	Small purple bladderwort
Menyanthaceae	<i>Menyanthes trifoliata</i>	Buckbean
Menyanthaceae	<i>Nymphoides cordata</i>	Little floating heart
Najadaceae	<i>Najas flexilis</i>	Northern water nymph
Najadaceae	<i>Najas gracillima</i>	Thread-like naiad
Najadaceae	<i>Najas guadalupensis</i>	Southern naiad
Nymphaeaceae	<i>Brasenia schreberi</i>	Water-shield
Nymphaeaceae	<i>Nuphar lutea advena</i>	Yellow pond-lily
Nymphaeaceae	<i>Nuphar lutea pumila</i>	Yellow pond-lily
Nymphaeaceae	<i>Nuphar lutea rubrodisca</i>	Yellow pond-lily
Nymphaeaceae	<i>Nuphar lutea variegata</i>	Variegated yellow pond-lily
Nymphaeaceae	<i>Nymphaea leibergii</i>	Pygmy water-lily
Nymphaeaceae	<i>Nymphaea odorata</i>	White water-lily
Onagraceae	<i>Ludwigia palustris</i>	Common water-purslane
Poaceae	<i>Zizania aquatica</i>	Annual wildrice
Podostemaceae	<i>Podostemum ceratophyllum</i>	Threadfoot
Pontederiaceae	<i>Pontederia cordata</i>	Pickerelweed
Pontederiaceae	<i>Zosterella dubia</i>	Water stargrass
Potamogetonaceae	<i>Potamogeton alpinus</i>	Red pondweed
Potamogetonaceae	<i>Potamogeton amplifolius</i>	Bigleaf pondweed
Potamogetonaceae	<i>Potamogeton bicupulatus</i>	Snail-seed pondweed
Potamogetonaceae	<i>Potamogeton confervoides</i>	Alga-like pondweed
Potamogetonaceae	<i>Potamogeton crispus</i>	Curly pondweed
Potamogetonaceae	<i>Potamogeton ephedrus</i>	Ribbonleaf pondweed
Potamogetonaceae	<i>Potamogeton foliosus</i>	Leafy pondweed
Potamogetonaceae	<i>Potamogeton friesii</i>	Fries' pondweed
Potamogetonaceae	<i>Potamogeton gramineus</i>	Variable pondweed
Potamogetonaceae	<i>Potamogeton natans</i>	Floating pondweed
Potamogetonaceae	<i>Potamogeton nodosus</i>	Long-leaf pondweed
Potamogetonaceae	<i>Potamogeton oakesianus</i>	Oakes's pondweed
Potamogetonaceae	<i>Potamogeton obtusifolius</i>	Blunt-leaf pondweed
Potamogetonaceae	<i>Potamogeton perfoliatus</i>	Perfoliate pondweed
Potamogetonaceae	<i>Potamogeton praelongus</i>	Whitestem pondweed
Potamogetonaceae	<i>Potamogeton pulcher</i>	Spotted pondweed
Potamogetonaceae	<i>Potamogeton pusillus</i>	Slender pondweed
Potamogetonaceae	<i>Potamogeton richardsonii</i>	Redhead pondweed
Potamogetonaceae	<i>Potamogeton robbinsii</i>	Robbins' pondweed
Potamogetonaceae	<i>Potamogeton spirillus</i>	Northern snail-seed pondweed
Potamogetonaceae	<i>Potamogeton strictifolius</i>	Straight-leaved pondweed
Potamogetonaceae	<i>Potamogeton vaseyi</i>	Vasey's pondweed

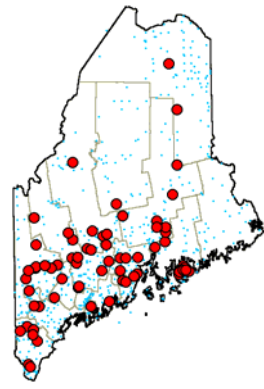
Potamogetonaceae	Potamogeton zosteriformis	Flatstem pondweed
Potamogetonaceae	Stuckenia filiformis	Fineleaf pondweed
Potamogetonaceae	Stuckenia pectinata	Sago pondweed
Primulaceae	Hottonia inflata	Featherfoil
Primulaceae	Samolus valerandi	Water pimpernel
Ranunculaceae	Ranunculus aquatilis	White water crowfoot
Ranunculaceae	Ranunculus flabellaris	Yellow water butter-cup
Ranunculaceae	Ranunculus trichophyllus	White water-crowfoot
Typhaceae	Sparganium americanum	American bur-reed
Typhaceae	Sparganium androcladum	Branching bur-ree
Typhaceae	Sparganium angustifolium	Narrowleaf bur-reed
Typhaceae	Sparganium eurycarpum	Giant bur-reed
Typhaceae	Sparganium fluctuans	Floating bur-reed
Typhaceae	Sparganium natans	Small bur-reed
Veronicaceae	Callitriche heterophylla	Larger water-starwort
Veronicaceae	Callitriche palustris	Spiny water-starwort
Veronicaceae	Hippuris vulgaris	Common mare's-tail
Veronicaceae	Lindernia dubia	Yellow-seed false-pimpernel
Veronicaceae	Littorella uniflora	American shore-grass
Zanichelliaceae	Zannichellia palustris	Horned pondweed



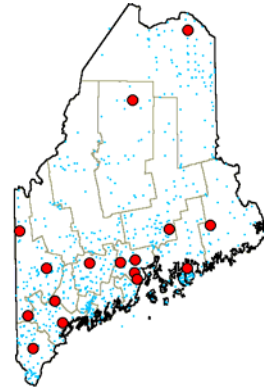
*Alisma subcordatum*



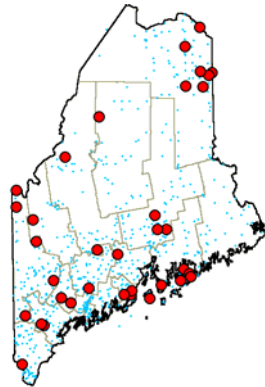
*Alisma triviale*



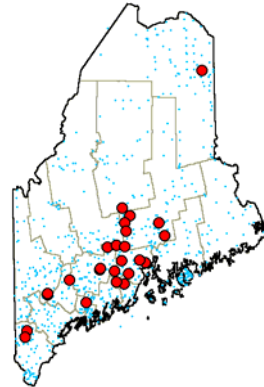
*Brasenia schreberi*



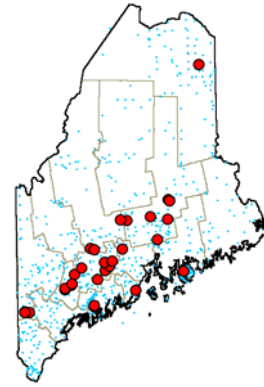
*Callitriche heterophylla*



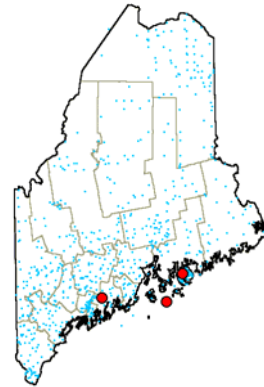
*Callitriche palustris*



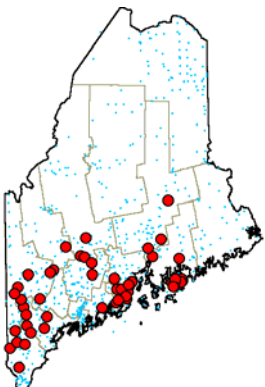
*Ceratophyllum demersum*



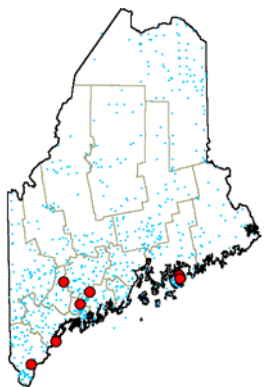
*Ceratophyllum echinatum*



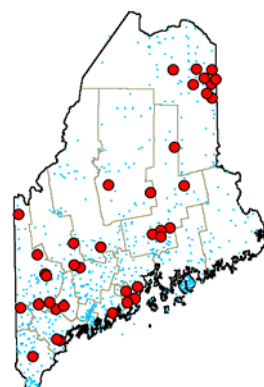
*Elatine americana*



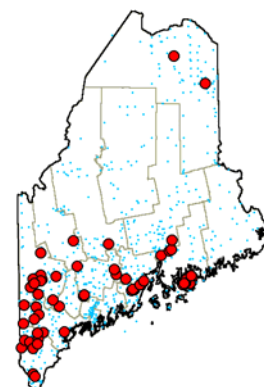
*Elatine minima*



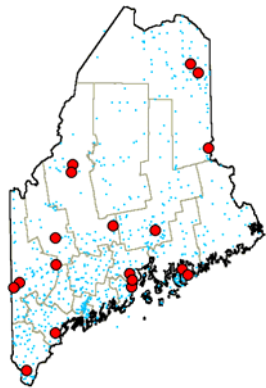
*Eleocharis olivacea*



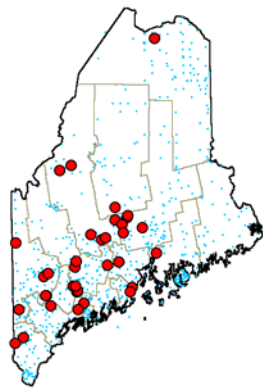
*Eleocharis palustris*



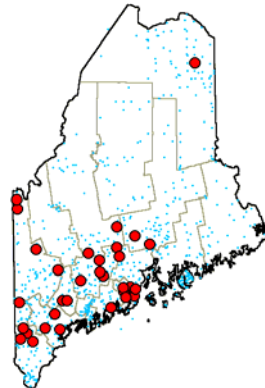
*Eleocharis robbinsii*



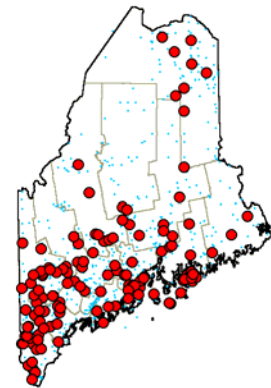
*Eleocharis smallii*



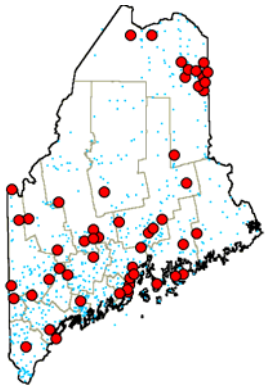
*Elodea canadensis*



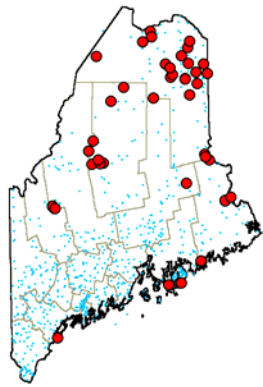
*Elodea nuttallii*



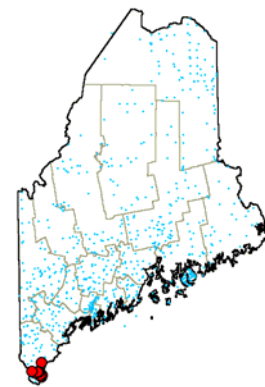
*Eriocaulon aquaticum*



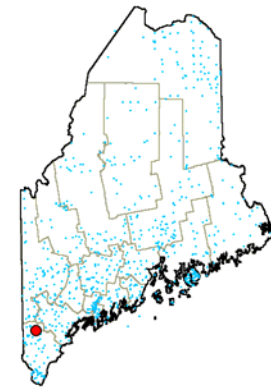
*Equisetum fluviatile*



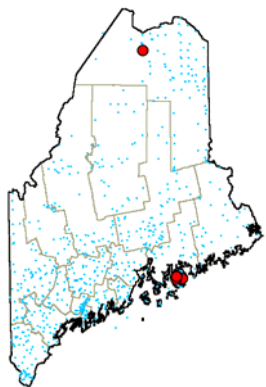
*Hippuris vulgaris*



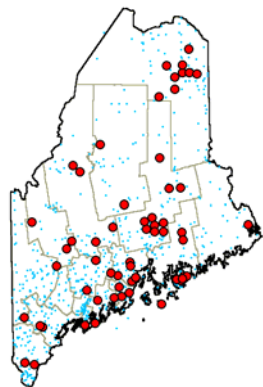
*Hottonia inflata*



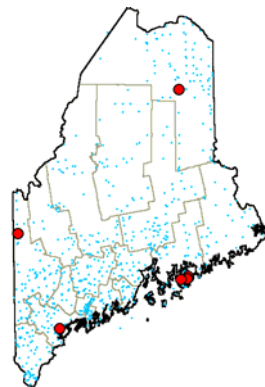
*Hydrilla verticillata*



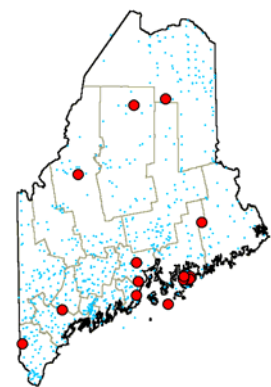
*Isoetes acadensis*



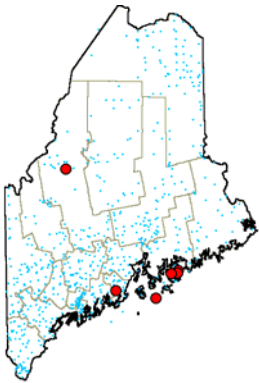
*Isoetes echinospora*



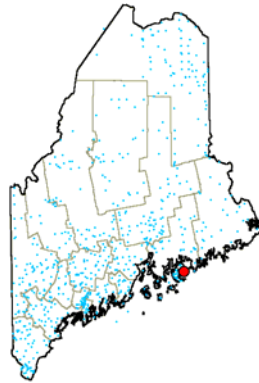
*Isoetes lacustris*



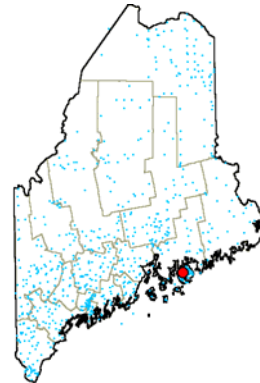
*Isoetes tuckermannii*



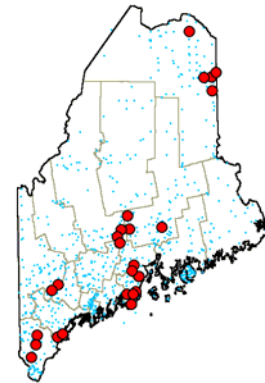
*Isoetes x harveyi*



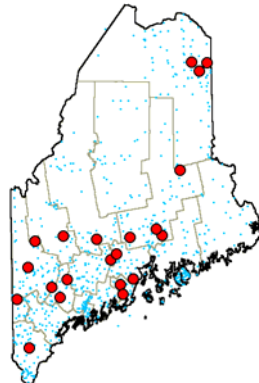
*Isoetes prototypus*



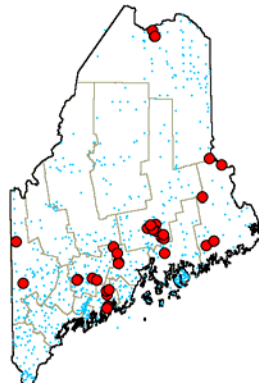
*Isoetes riparia*



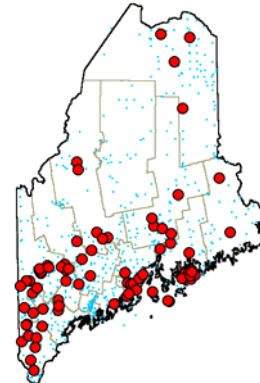
*Lemna minor*



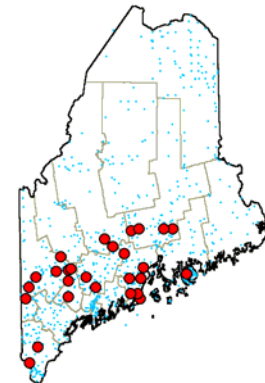
*Lindernia dubia*



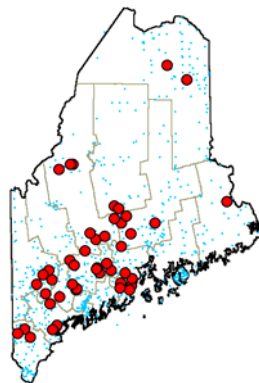
*Littorella uniflora*



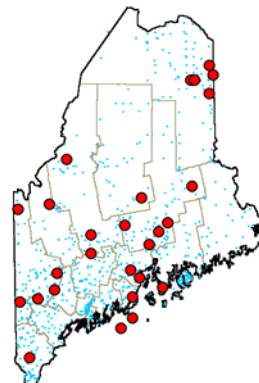
*Lobelia dortmanna*



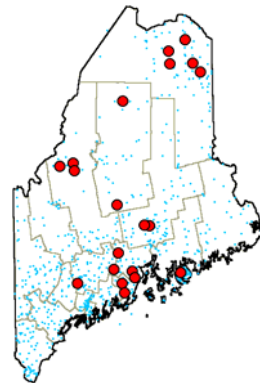
*Ludwigia palustris*



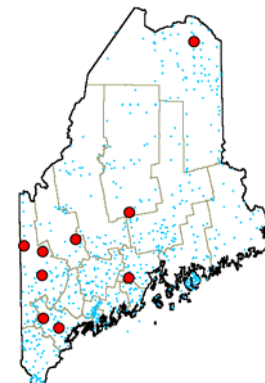
*Megalodonta beckii*



*Menyanthes trifoliata*

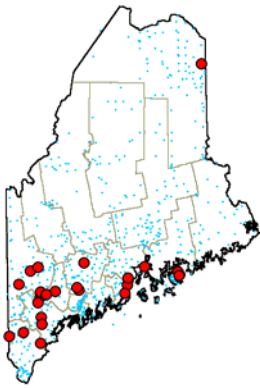


*Myriophyllum Alterniflorum*

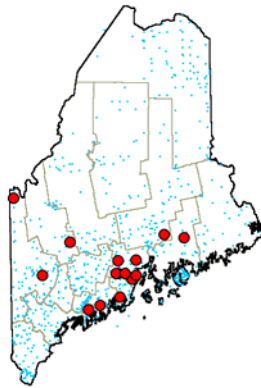


*Myriophyllum farwellii*

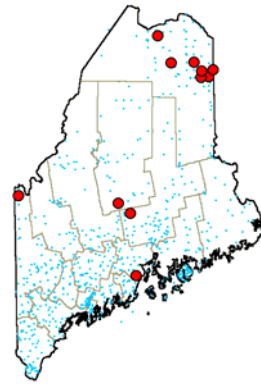




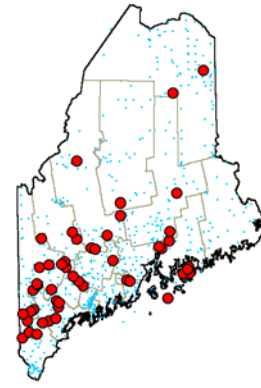
*Myriophyllum heterophyllum*<sup>1</sup>



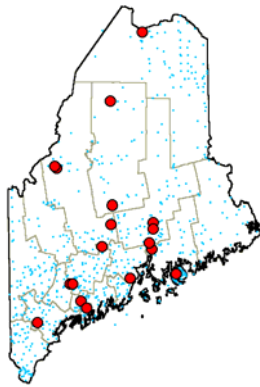
*Myriophyllum humile*



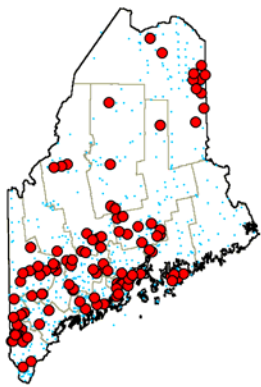
*Myriophyllum sibiricum*



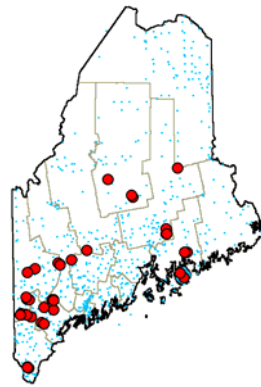
*Myriophyllum tenellum*



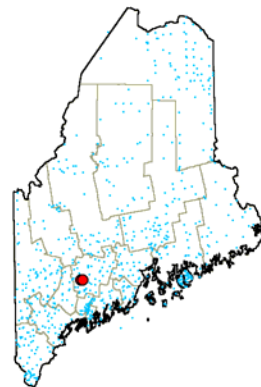
*Myriophyllum verticillatum*



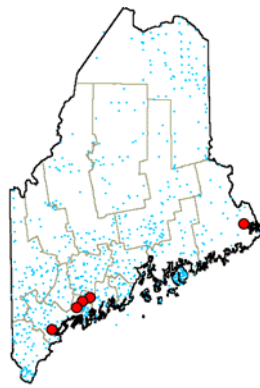
*Najas flexilis*



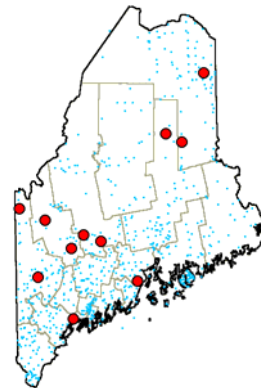
*Najas gracillima*



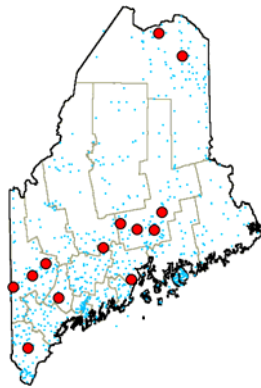
*Najas guadalupensis*



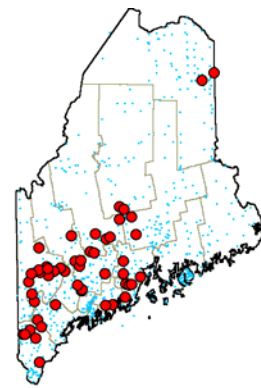
*Nuphar lutea advena*



*Nuphar lutea pumila*



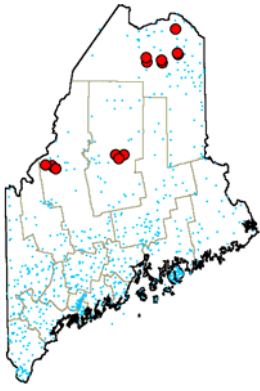
*Nuphar lutea rubrodisca*



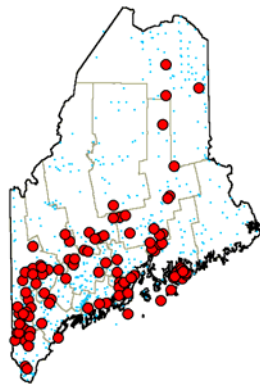
*Nuphar variegata*

<sup>1</sup> The records of *M. heterophyllum* from Northern Maine, Mount Desert Island and the mid-coast region derive from the University of Maine herbarium database. MDEP does not list any infestations of this species from any of these regions of the State.

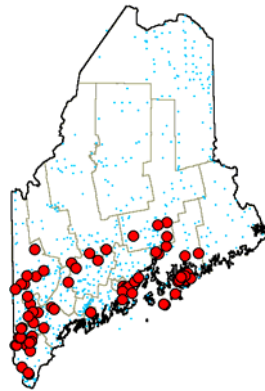




*Nymphaea leibergii*



*Nymphaea odorata*



*Nymphoides cordata*