

**Minnesota County Biological Survey
List of Plant Species Observed at
Boot Lake**

Survey Id: 1011

Lake Number: 030030 Survey Date: 8/21/2003 Surveyed by: Karen M Myhre

County: Becker T: 142N R: 36W Sec: 29 USGS Quadrangle: Big Basswood Lake

Major/Minor Watersheds: Crow Wing River/Basswood Creek

Located 32.8 miles northeast of the town of Detroit Lakes.

Area surveyed: north end of the lake.

Submersed Plants (Plants with most leaves growing beneath the water surface)

<i>Ceratophyllum demersum</i>	Coontail
<i>Elodea canadensis</i>	Canadian waterweed
<i>Myriophyllum sibiricum</i>	Northern Watermilfoil
<i>Najas flexilis</i>	Bushy Pondweed, Common Naiad
<i>Potamogeton foliosus</i>	Leafy Pondweed
<i>Potamogeton illinoensis</i>	Illinois Pondweed
<i>Potamogeton praelongus</i>	White-stemmed Pondweed
<i>Potamogeton pusillus</i>	Very Small Pondweed
<i>Potamogeton richardsonii</i>	Claspingleaf Pondweed
<i>Potamogeton strictifolius</i>	Straightleaved Pondweed
<i>Potamogeton zosteriformis</i>	Flatstem Pondweed
<i>Stuckenia filiformis</i>	Blunt-tipped Sago Pondweed
* <i>Stuckenia filiformis</i> ssp. <i>alpinus</i>	Alpine Blunt-tipped Sago Pondweed
* <i>Stuckenia pectinata</i>	Common Sago Pondweed
<i>Utricularia intermedia</i>	Intermediate bladderwort
<i>Utricularia vulgaris</i>	Greater bladderwort

Free-floating Plants (Plants that float freely on the water surface)

<i>Lemna turionifera</i>	Turion-forming Duckweed
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Floating-leaf Plants (Plants with leaves that float on the water surface)

<i>Nuphar variegata</i>	Yellow Water Lily
<i>Nymphaea odorata</i> ssp. <i>tuberosa</i>	White Water Lily
<i>Potamogeton amplifolius</i>	Large-leaved Pondweed, Cabbage
<i>Potamogeton gramineus</i>	Variable Pondweed
<i>Potamogeton natans</i>	Floating Leaf Pondweed

Emergent Plants (Plants with leaves extending above the water surface)

<i>Sagittaria latifolia</i>	Broad-leaved Arrowhead
<i>Schoenoplectus acutus</i> var. <i>acutus</i>	Hard-stem bulrush
<i>Typha latifolia</i>	Broad-leaved cattail

Shoreline Plants (Plants associated with the wetland habitat)

Boot Lake continued...

Alnus incana ssp. *rugosa*
Bidens sp.
Calamagrostis canadensis
Campanula aparinoides
Carex comosa
Carex lasiocarpa ssp. *americana*
Carex pseudocyperus
Cicuta bulbifera
Iris versicolor
Lycopus uniflorus
Menyanthes trifoliata
Phalaris arundinacea
Potentilla palustris
Salix sp.

Speckled alder
Bur-Marigold; Beggar-Tick
Blue-joint
Marsh Bellflower
Bottlebrush sedge
Wiregrass, Woolly Sedge
False Cyperus sedge
Bulb-bearing water-hemlock
Blue Flag
Northern bugleweed
Buck-bean
Reed canary grass
Marsh cinquefoil
Willow

* specimen to be deposited at University of Minnesota Herbarium





Citizen Lake Monitoring Program

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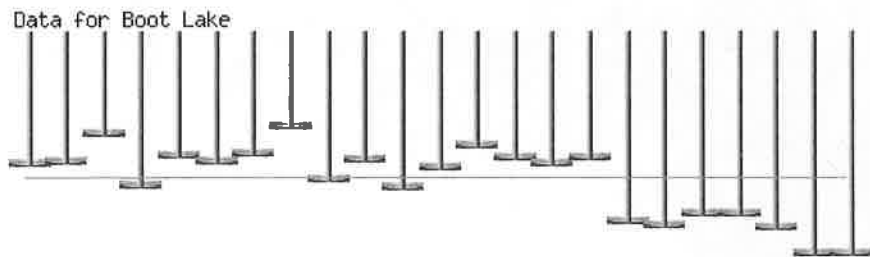
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Lake water quality data might also be available for this lake

Secchi Data from the Citizen Lake Monitoring Program. For Boot Lake

This following graph represents Secchi transparency data collected by volunteers in the Citizen Lake-Monitoring Program. All values are expressed in units of feet. Data which has not been QA/QC (quality control) checked will appear as a red verticle line representing a Secchi rope. The long-term mean for this lake is represented by a horizontal line on the graph.



78 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01
Average Secchi Reading (feet)

Year	Average Secchi Reading (feet)
1978	14.6
1980	14.4
1981	12.2
1982	16.3
1983	13.8
1984	14.5
1985	13.1
1986	11.6
1987	15.9
1988	14.3
1989	16.4

Click on the year at the left to get full information about the data samples for that year.

Average is computed by the months June-Sept.

<u>1990</u>	15.0
<u>1991</u>	12.8
<u>1992</u>	14.8
<u>1993</u>	14.9
<u>1994</u>	14.0
<u>1995</u>	18.9
<u>1996</u>	19.7
<u>1997</u>	18.6
<u>1998</u>	18.7
<u>1999</u>	19.7
<u>2000</u>	21.4
<u>2001</u>	21.0



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