

# Lake News

Summer 2015

**A newsletter for concerned residents of Pickerel Lake**

**THERE IS NO SCHEDULED 2015-2016 WINTER DRAW DOWN**

## **LAKE MEETING**

**08 August 2015 (1:00 pm)**

A lake meeting is scheduled for 08 August 2015 (Saturday), at 93 Lakeview dr. (Bill & Dee's house) to discuss winter draw downs and the status of the North end of Lakeview drive (from #79-#225)

**Come over at 12:00 for a social hour (if interested)**  
**plan on a meeting that will begin at 1:00 pm**

Last Fall (2014) we started a road fund for the North end. Seventeen residents (North of Pickerel Dr.) contributed to this fund. Presently **\$1,650** is in this fund. At least **\$100/property** is recommended from all property owners North of Pickerel Road (by August) to add to the "road fund".

Last summer (2014) a former student of mine (Sandor Bittman) and I documented all the weed assemblages in the Lake. A weed map was constructed and herbarium specimens were prepared as a voucher collection from this work (attached). Sixteen species were identified, representing three categories of macrophytes, free-floating plants, rooted floating-leaf plants, and rooted submersed plants. Fassett (1957), Borman *et al.* (1999), Crow and Hellquist (2000a, 2000b), and Reid (2001) were used as keys and references for all plant identification. A Marcum® vs-385c color, underwater camera was used in this evaluation. Similar to what I did for my Master's Thesis in 2001.

In comparing the 2001 weed map (also attached), the 2014 weed map appears to be the "tale of two different lakes". From shore-to-shore the variable-leaf milfoil dominated the 2001 map. In the 2014 weed map, Fanwort now is the dominate species the lake. Both Fanwort & Variable-leaf milfoil are invasive species. Four new native species appeared since 2001. Including capillary pond weed (*Potamogeton pusillus*), listed as an endangered species on the 2010 list in Connecticut. The status of this weed (*P. pusillus*), has been downgraded to a "threatened species" on the Connecticut list.

Feel free to contact me, if you have any questions; Bill Dopirak (860)334-1271. wdopirak@trcc.commnet.edu Thank you!!

### References

- Borman, S., R.J. Korth, and J. Temte. 1999. Through the looking glass: A field guide to aquatic plants. Wisconsin Department of natural resources. Reindl Printing, Inc. 243p.
- Crow, G.E. and C.B. Hellquist. 2000<sup>a</sup>. Aquatic and wetland plants of northeastern North America; Vol. 1: Pteridophytes, gymnosperms, and angiosperms: dicotyledons. The University of Wisconsin Press. 480p.
- Crow, G.E. and C.B. Hellquist. 2000<sup>b</sup>. Aquatic and wetland plants of northeastern North America; Vol. 2: Angiosperms: monocotyledons. The University of Wisconsin Press. 400p.
- Fassett, N.C. 1957. A manual of aquatic plants. The University of Wisconsin Press. 405 p.
- Reid, G. K. 2001. Pond life: A guide to common plants and animals in North American ponds and lakes. St. Martin's Press. 160 p.



# Fig. 3. Pickerel Lake

Colchester/East Haddam, CT

Summer 2014

Surveyed by William J. Dopirak, Jr. and Sandor Bittman

16 June —center of lake

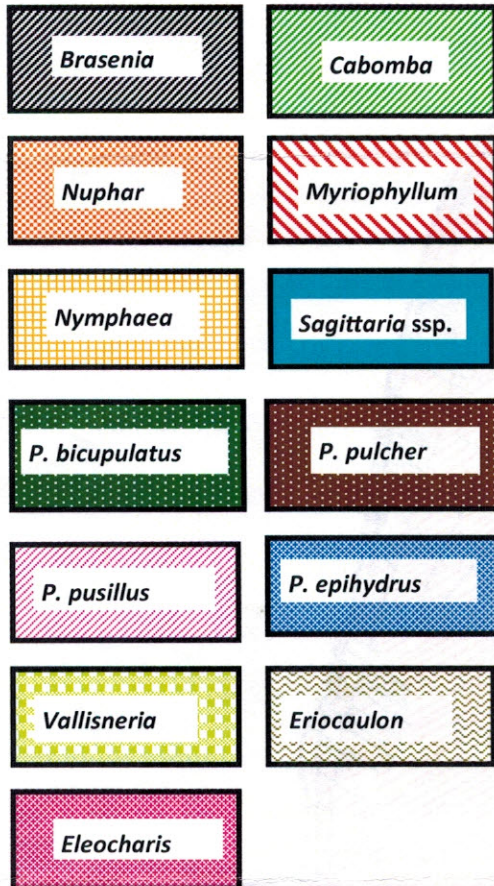
21 July —Northern end of lake

30 July— Western side of lake & SW coves

06 Aug.—Eastern side of lake

Scale 1" = 600'

Contour Interval



*Brasenia* —Water Shield

*Cabomba* - Fanwort

*Eleocharis*—Needle rush

*Eriocaulon*— Pipewort

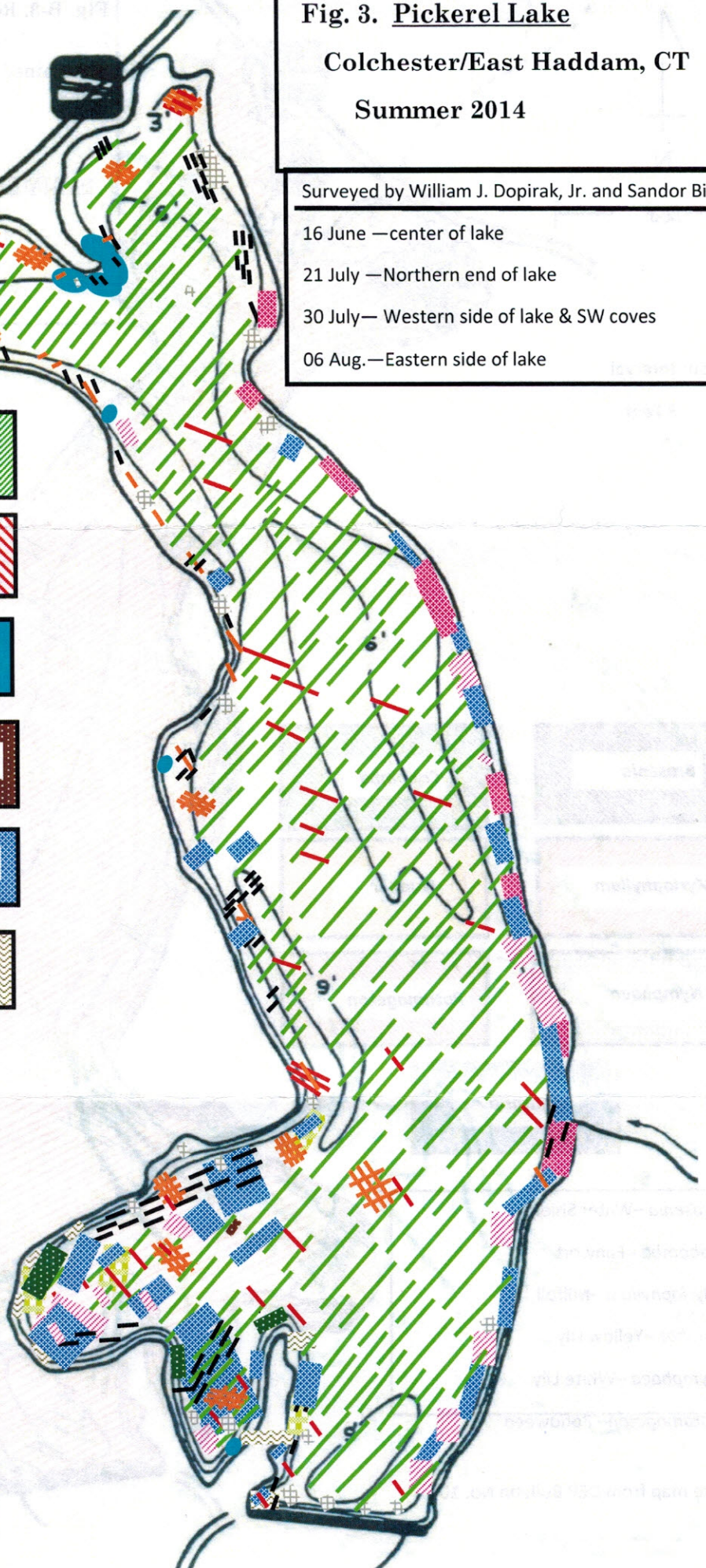
*Myriophyllum* —Milfoil

*Nuphar* —Yellow Water Lily

*Nymphaea* —White Water Lily

*P. pusillus*— Capillary or small Pondweed

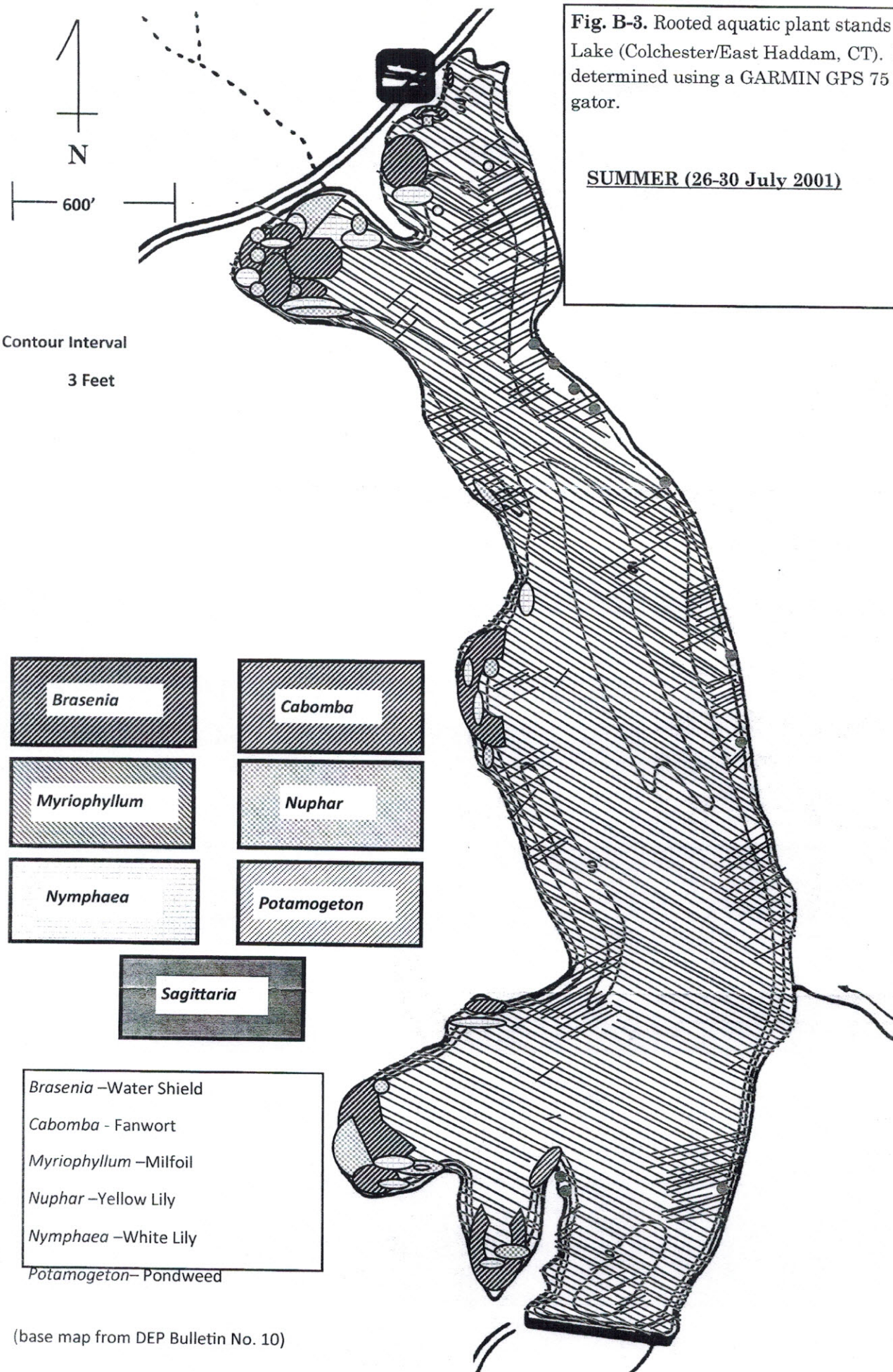
*P. species* = *Potamogeton*





**Fig. B-3.** Rooted aquatic plant stands in Pickerel Lake (Colchester/East Haddam, CT). Positions were determined using a GARMIN GPS 75 Personal Navigator.

SUMMER (26-30 July 2001)



*Brasenia* –Water Shield

*Cabomba* - Fanwort

*Myriophyllum* –Milfoil

*Nuphar* –Yellow Lily

*Nymphaea* –White Lily

*Potamogeton*– Pondweed

(base map from DEP Bulletin No. 10)





*Potamogeton pusillus* ssp. *Gemmiparous* (Small or capillary Pondweed)

Pickerel Lake Colchester/East Haddam, CT

N 41° 31' 49'' W 72° 25' 12'' (130m, 446 ft.)

Collected from a pure stand in a southern cove 08/04/2014, by William J. Dopirak, Jr.



*Potamogeton epihydrus* Raf. (leafy or ribbon Pondweed)

Pickerel Lake Colchester/East Haddam, CT

N 41° 31' 49'' W 72° 25' 12'' (130m, 446 ft.)

Collected from a pure stand in a southern cove  
08/04/2014, by William J. Dopirak, Jr.



*Potamogeton bicupulatus* Fern (Water thread or Snail seed Pondweed)

Pickerel Lake Colchester/East Haddam, CT

N 41° 31' 49'' W 72° 25' 12'' (130m, 446 ft.)

Collected from a pure stand in a southern cove 07/08/2002, by Sandor Bittman



*Eleocharis acicularis* (L.) R. & S.

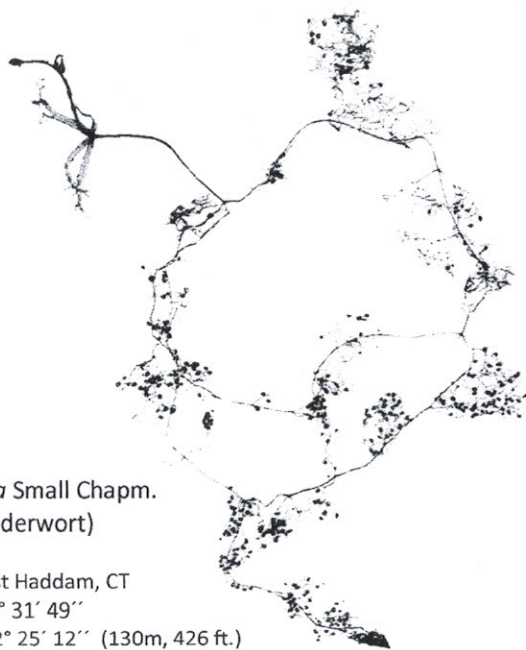
(Needle-rush)

Pickerel Lake Colchester/East Haddam, CT

N 41° 31' 49''

W 72° 25' 12'' (130m, 426 ft.)

Collected from Northern cove in sand (0.5 m)  
08/07/2014, by William J. Dopirak, Jr.



*Utricularia radiata* Small Chapm.

(Inflated bladderwort)

Pickerel Lake

Colchester/East Haddam, CT

N 41° 31' 49"

W 72° 25' 12" (130m, 426 ft.)

Collected from floating weed mat, 06/24/2002, by Sandor Bittman



*Utricularia purpurea* Walt.

(Purple bladderwort)

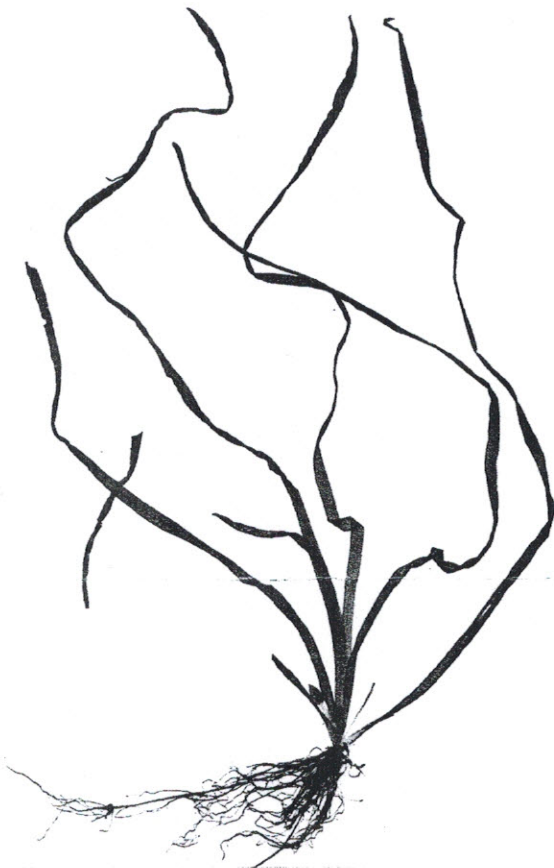
Pickerel Lake

Colchester/East Haddam, CT

N 41° 31' 49"

W 72° 25' 12" (130m, 426 ft.)

Collected from southwestern cove amongst *Brasenia* pads  
09/10/2014, by William J. Dopirak, Jr.



*Vallisneria americana*

(Tape grass, Wild celery, Eel grass)

Pickerel Lake

Colchester/East Haddam, CT

N 41° 31' 49"

W 72° 25' 12" (130m, 446 ft.)

Collected from a pure stand in south side  
08/04/2014, by William J. Dopirak, Jr.



*Eriocaulon aquaticum* (Hill) Druce

(Pipewort)

Pickerel Lake

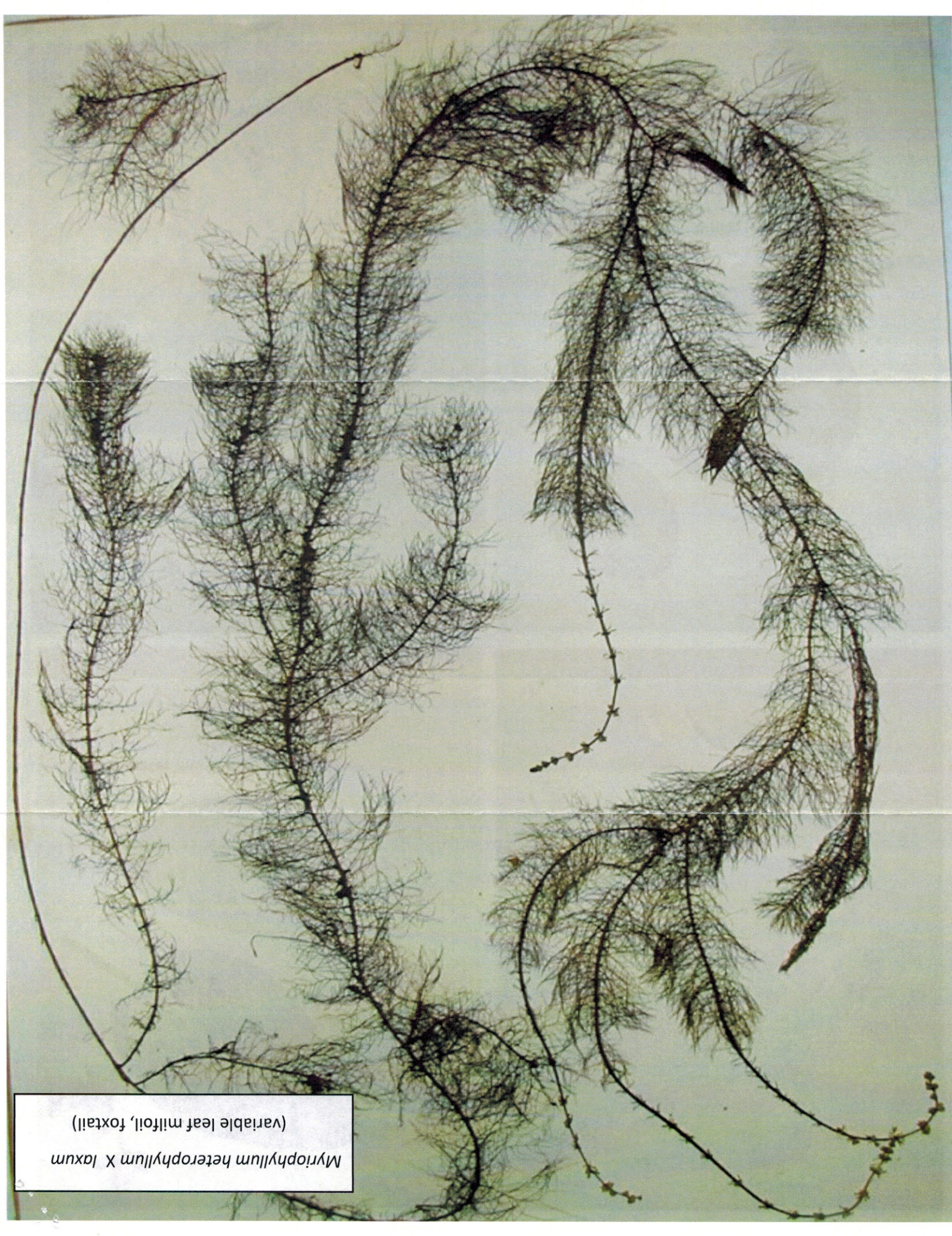
Colchester/East Haddam, CT

N 41° 31' 49"

W 72° 25' 12" (130m, 426 ft.)

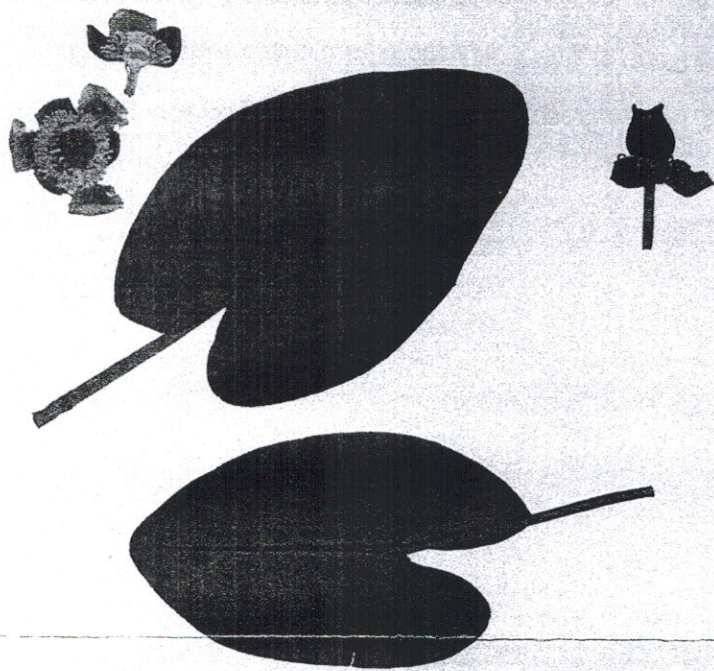
Collected from Southern cove in silt (0.25 m)  
08/04/2014, by Sandor Bittman





*Myriophyllum heterophyllum* X *laxum*  
(variable leaf milfoil, foxtail)





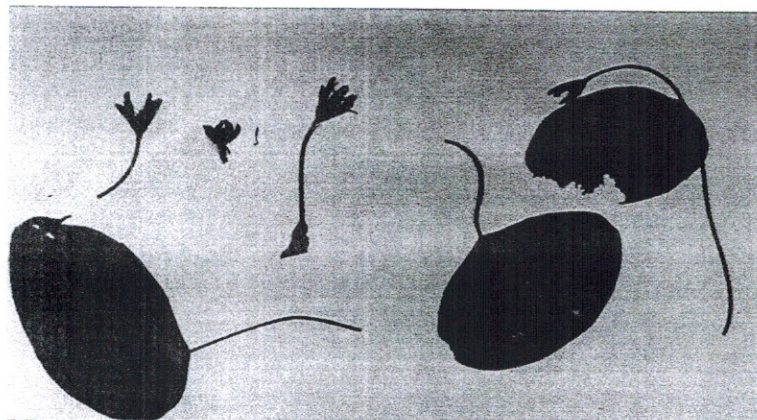
**Yellow water lily**

*Nuphar variegata* Engelm.  
(Spatter dock, Bullhead lily, Yellow water lily)

Pickereel Lake  
Colchester/East Haddam, CT  
N 41° 31' 49"  
W 72° 25' 12" (130m, 426 ft.)  
Collected from a mixed stand of *Brasenia* and *Nymphaea*,  
07/08/2002, by William J. Dopirak, Jr.

*Colymba caroliniana* Gray  
(Fanwort)  
Pickereel Lake  
Colchester/East Haddam, CT  
N 41° 31' 49"  
W 72° 25' 12" (130m, 426 ft.)  
Collected from a mixed stand together with  
*Najasphagnum heterophyllum*, 07/08/2002,  
by William J. Dopirak, Jr.

**Fanwort**

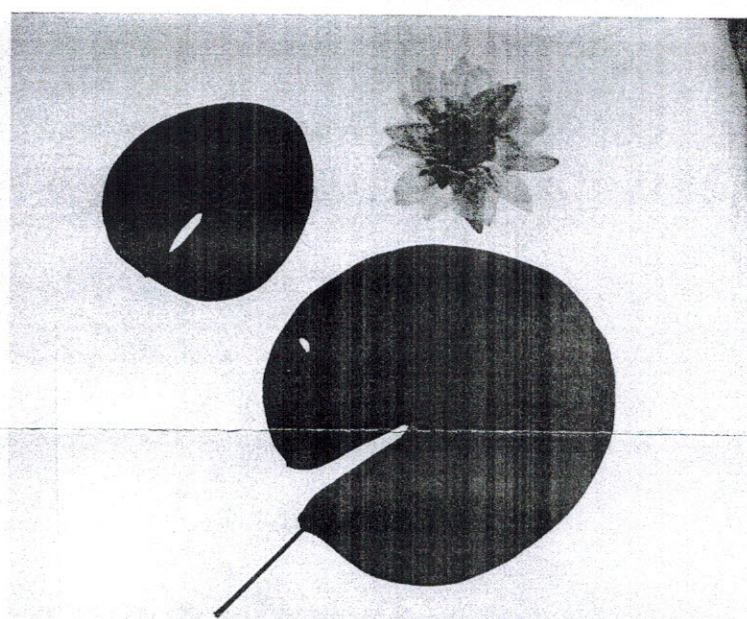


*Brasenia schreberi* J.F.Gmel.  
(Water-shield)

Pickereel Lake  
Colchester/East Haddam, CT  
N 41° 31' 49"  
W 72° 25' 12" (130m, 426 ft.)  
Flowers and isolated leaves collected from a mixed stand  
of *Nuphar* and *Nymphaea*, 07/08/2002, and plant  
collected, 05/26/2002, by William J. Dopirak, Jr.

MISSING  
(Mucilaginous covering that coated stems and  
submerged leaves)

**Water shield**



**White water lily**

*Nymphaea odorata* Ait.  
(White water lily, Fragrant water lily)

Pickereel Lake  
Colchester/East Haddam, CT  
N 41° 31' 49"  
W 72° 25' 12" (130m, 426 ft.)  
Collected from a pure stand in a southwest cove,  
07/08/2002, by William J. Dopirak, Jr.