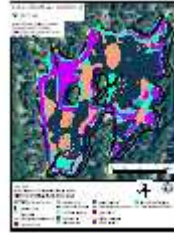


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## Chaffee Lake, Ashford



### [2009 Aquatic Plant Survey Map of Chaffee Lake](#)

(1.5 MB; .pdf Format\*)

[Transect Data \(24 KB, .pdf format\\*\)](#) | [Water Data](#)

Lake Chaffee is 52 acres and located in Ashford, CT. It is about 3 meters (10 feet) deep and motors are not allowed (carry in only). Residential housing surrounds the lake and a small dam is located in the north-east corner.

Our July 2009 survey found 14 species of aquatic plants. None were invasive. The most abundant species was *Potamogeton perfoliatus* that was found mainly in the lake's center. This plant was visible from the surface and shoreline due to the red tinge in the leaves. *Vallisneria americana* and *Elodea nuttallii* were also very abundant along the shoreline as well as surrounding the two islands in the center of the lake.

Other species of aquatic vegetation included; *Najas flexilis*, *Potamogeton bicipulatus*, *Callitriche sp.*, *Utricularia radiata*, and *Sparganium*. These species were found throughout the lake, mainly away from the shoreline. Sparse *Gratiola aurea*, *Nuphar variegata*, *Elatine minima*, and *Isoetes echinospora* were found in shallow water.

\*NOTE: Some of these documents are provided in Adobe® Acrobat® (.pdf) format. In order to view or print these documents you need Adobe® Reader®. If you do not have Adobe® Reader®, click the "Get Adobe® Reader®" image for a free copy.



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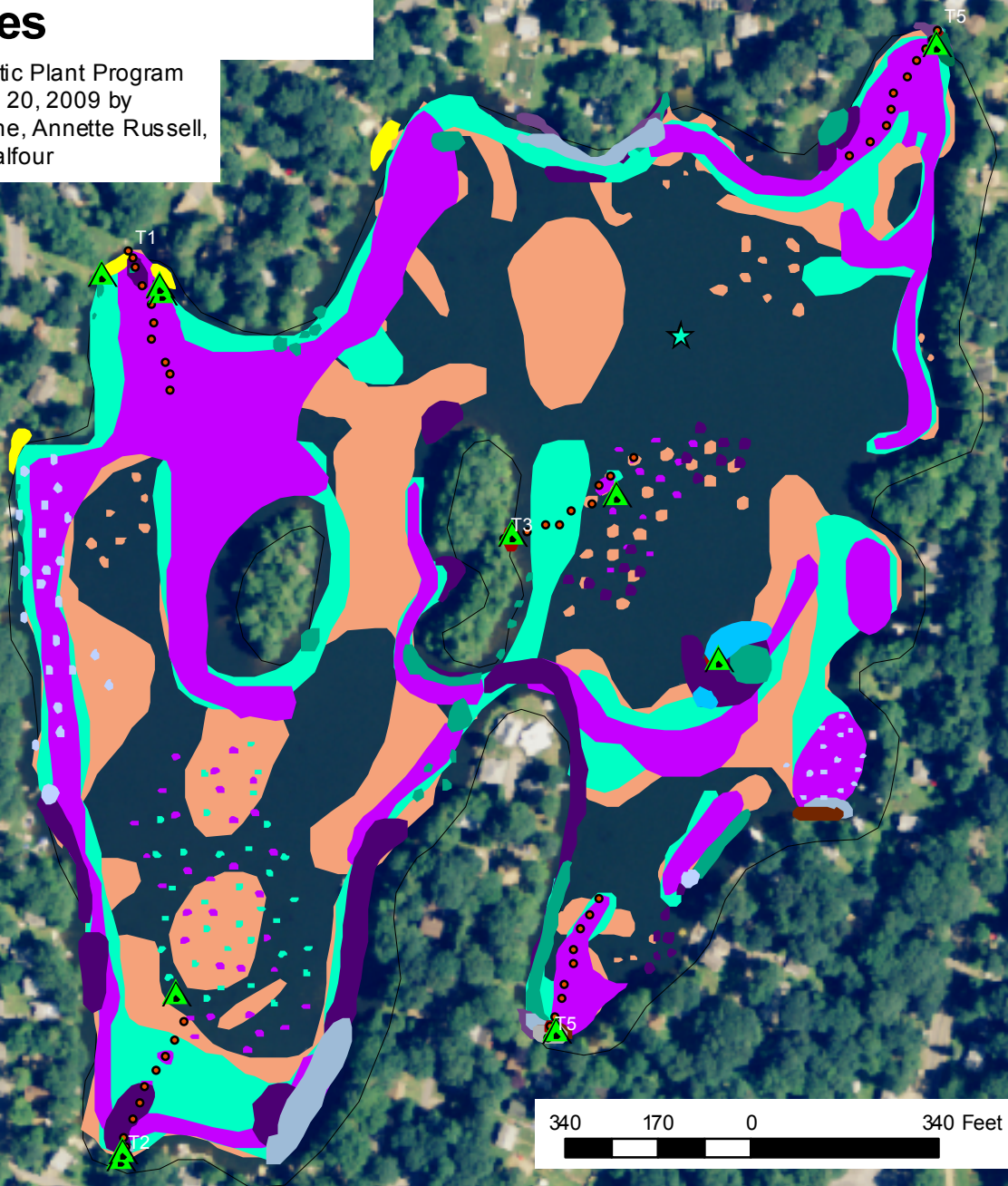
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[Directions](#)

# Lake Chaffee, Ashford

## 52 Acres

Invasive Aquatic Plant Program  
 Surveyed July 20, 2009 by  
 Rachel Soufrine, Annette Russell,  
 and Martha Balfour



### Legend

To view locations of individual plant species or other features, click on "Layers" tab to left and "+" next to "Layers File". Turn features on or off by clicking the "Eye" icons.

- |                               |                            |                                |                                |
|-------------------------------|----------------------------|--------------------------------|--------------------------------|
| Plant Collection Point        | <i>Eleocharis sp.</i>      | <i>Elatine minima</i>          | <i>Vallisneria americana</i>   |
| Transect Point                | <i>Isoetes echinospora</i> | <i>Potamogeton bicupulatus</i> | <i>Potamogeton perfoliatus</i> |
| Water Data                    | <i>Utricularia radiata</i> | <i>Najas flexilis</i>          |                                |
| <i>Potamogeton oakesianus</i> | <i>Callitriche sp.</i>     | <i>Nuphar variegata</i>        |                                |
| <i>Sparganium sp.</i>         | <i>Gratiola aurea</i>      | <i>Elodea nuttallii</i>        |                                |



*Plant abundance is on scale of 1 – 5: 1 = present but rare (1 plant), 2 = occasional (a few plants), 3 = common (more than a few plants), 4 = abundant, 5 = extremely abundant or dominant							**Follow this link to convert decimal degrees to degrees minutes seconds <a href="http://www.fcc.gov/mb/audio/bickel/DDDMSS-decimal.html">http://www.fcc.gov/mb/audio/bickel/DDDMSS-decimal.html</a>														
Surveyor	Depth	Substrate	Weather	Transect number	Points	Meters from shore	Notes	<i>Elatine minima</i>	<i>Eleocharis acicularis</i>	<i>Elodea nuttallii</i>	<i>Gratiola aurea</i>	<i>Isoetes sp.</i>	<i>Najas flexilis</i>	<i>Potamogeton bicipulatus</i>	<i>Potamogeton perfoliatus</i>	<i>Sparganium sp.</i>	<i>Utricularia radiata</i>	<i>Vallisneria americana</i>	Date	**Latitude	Longitude
Annette Russell	0.20	Muck	sunny	1	1	0.0		0	0	1	0	0	0	0	1	0	0	0	7/20/2009	41.93985	-72.19800
	0.30	Sand	sunny	1	2	5.0		0	0	1	0	0	1	0	2	0	0	2	7/20/2009	41.93982	-72.19797
	0.80	Muck		1	3	10.0		0	0	2	0	0	2	0	2	0	0	2	7/20/2009	41.93977	-72.19796
	1.00			1	4	20.0		0	0	2	0	0	1	0	3	0	0	3	7/20/2009	41.93968	-72.19791
	1.30	Muck		1	5	30.0		0	0	0	0	0	0	0	3	0	0	2	7/20/2009	41.93958	-72.19785
	1.30	Muck		1	6	40.0		0	0	2	0	0	0	0	2	0	0	3	7/20/2009	41.93950	-72.19784
	1.70	Muck		1	7	50.0		0	0	2	0	0	0	0	0	0	0	3	7/20/2009	41.93941	-72.19785
	1.80	Muck		1	8	0.0		0	0	3	0	0	0	0	3	0	0	2	7/20/2009	41.93930	-72.19777
Martha Balfour	2.00			1	9	70.0		0	0	1	0	0	0	0	4	0	0	0	7/20/2009	41.93924	-72.19774
	2.00			1	10	80.0		0	0	2	0	0	0	0	4	0	0	2	7/20/2009	41.93915	-72.19773
Annette Russell	0.10	Sand	sunny	2	1	0.0	e.minima	2	0	0	2	0	2	0	1	0	0	0	7/20/2009	41.93533	-72.19809
	0.90	Muck		2	2	5.0		0	2	0	2	0	2	0	3	0	0	0	7/20/2009	41.93538	-72.19806
	1.10	Muck		2	3	10.0		0	0	1	0	0	2	0	3	0	0	3	7/20/2009	41.93543	-72.19808
	1.80	Muck		2	4	20.0		0	0	0	0	0	1	0	2	0	0	3	7/20/2009	41.93552	-72.19802
	1.90	Muck		2	5	30.0		0	0	0	0	0	2	0	2	0	0	3	7/20/2009	41.93560	-72.19797
	1.90	Muck		2	6	40.0		0	0	2	0	0	2	0	2	0	0	4	7/20/2009	41.93569	-72.19792
	2.00	Muck		2	7	50.0		0	0	0	0	0	0	0	3	0	0	2	7/20/2009	41.93576	-72.19786
	2.00	Muck		2	8	60.0		0	0	2	0	0	0	0	2	0	0	3	7/20/2009	41.93584	-72.19779
	1.90	Muck		2	9	70.0		0	0	0	0	0	0	0	3	0	0	2	7/20/2009	41.93591	-72.19773
	1.90	Muck		2	10	80.0	utr. sp = 1	0	0	0	0	0	0	0	4	0	0	0	7/20/2009	41.93601	-72.19767
Martha Balfour	0.10	Sand	sunny	3	1	0.0		0	0	0	0	0	0	0	0	0	0	0	7/20/2009	41.93840	-72.19550
	0.50	Sand		3	2	5.0	ela sp= e.minima	2	0	0	0	0	0	2	0	1	0	0	7/20/2009	41.93842	-72.19544
Annette Russell	1.20			3	1	10.0	nothing	0	0	0	0	0	0	0	0	0	0	0	7/20/2009	41.93844	-72.19535
Annette Russell	2.00			3	4	20.0	chara	0	0	0	0	0	0	0	0	0	0	0	7/20/2009	41.93848	-72.19522
	2.50			3	5	30.0		0	0	0	0	0	0	0	0	0	0	0	7/20/2009	41.93847	-72.19513
	2.90			3	6	40.0		0	0	0	0	0	0	0	0	0	0	0	7/20/2009	41.93855	-72.19505
	2.80			3	7	50.0	transect	0	0	0	0	0	0	0	1	0	0	0	7/20/2009	41.93857	-72.19491
Martha Balfour	2.90			3	8	60.0		0	0	3	0	0	0	0	3	0	0	0	7/20/2009	41.93866	-72.19487



Surveyor	Depth	Substrate	Weather	Transect number	Points	Meters from shore	Notes	<i>Elatine minima</i>	<i>Eleocharis acicularis</i>	<i>Elodea nuttallii</i>	<i>Gratiola aurea</i>	<i>Isoetes sp.</i>	<i>Najas flexilis</i>	<i>Potamogeton bicupulatus</i>	<i>Potamogeton perfoliatus</i>	<i>Sparganium sp.</i>	<i>Utricularia radiata</i>	<i>Vallisneria americana</i>	Date	**Latitude	Longitude
Martha Balfour	3.00			3	9	70.0		0	0	3	0	0	0	0	2	0	0	2	7/20/2009	41.93871	-72.19478
Martha Balfour	3.20			3	10	80.0		0	0	3	0	0	0	0	2	0	0	0	7/20/2009	41.93880	-72.19463
Annette Russell	0.50			4	1	0.0	elasp= e.minima	3	0	0	0	0	0	0	0	0	0	0	7/20/2009	41.93592	-72.19523
	0.50			4	2	5.0	elasp=e.min, isosp=i.echinopo	3	2	2	2	3	1	0	2	1	0	0	7/20/2009	41.93596	-72.19521
	1.30			4	3	10.0		0	0	0	0	0	0	0	0	0	0	3	7/20/2009	41.93601	-72.19517
	1.90			4	4	20.0	utr sp.	0	0	3	0	0	0	0	2	0	0	3	7/20/2009	41.93611	-72.19514
	1.90			4	5	30.0		0	0	3	0	0	0	0	2	0	1	3	7/20/2009	41.93618	-72.19512
	2.00			4	6	40.0		0	0	3	0	0	0	0	3	0	0	0	7/20/2009	41.93628	-72.19506
	2.10			4	7	50.0		0	0	3	0	0	0	0	3	0	0	3	7/20/2009	41.93635	-72.19505
	2.30			4	8	60.0		0	0	2	0	0	0	0	2	0	0	3	7/20/2009	41.93645	-72.19501
Annette Russell	2.50			4	9	70.0		0	0	3	0	0	0	0	3	0	0	2	7/20/2009	41.93652	-72.19495
	2.60			4	10	80.0		0	0	2	0	0	0	0	0	0	0	3	7/20/2009	41.93660	-72.19488
Annette Russell	0.10	Muck	sunny	5	1	0.0	elasp=e.minima	2	0	1	1	0	1	1	1	1	0	0	7/20/2009	41.94092	-72.19258
	1.00			5	2	0.0		0	0	3	0	0	2	0	2	0	0	1	7/20/2009	41.94088	-72.19262
	1.30			5	3	10.0		0	0	3	0	0	0	0	2	0	0	0	7/20/2009	41.94083	-72.19266
	1.50			5	4	20.0		0	0	3	0	0	0	0	2	0	0	2	7/20/2009	41.94078	-72.19272
	1.60			5	5	30.0		0	0	4	0	0	0	0	3	0	0	3	7/20/2009	41.94070	-72.19278
	1.90			5	6	40.0		0	0	3	0	0	0	0	2	0	0	3	7/20/2009	41.94062	-72.19287
	1.90			5	7	50.0		0	0	3	0	0	0	0	4	0	0	1	7/20/2009	41.94053	-72.19289
	1.95			5	8	60.0		0	0	2	0	0	0	0	3	0	0	2	7/20/2009	41.94045	-72.19292
	1.95			5	9	70.0		0	0	3	0	0	0	0	4	0	0	2	7/20/2009	41.94037	-72.19303
	2.00			5	10	80.0		0	0	3	0	0	0	0	4	0	0	3	7/20/2009	41.94031	-72.19317



# The Connecticut Agricultural Experiment Station

## Chaffee Lake, Ashford

[Map](#) | [Transect Data \(24 KB, .pdf format\\*\)](#)

Water data for Chaffee Lake, Ashford, July 20, 2009.

Table 1. Dissolved oxygen and temperature. The transparency (Secchi) was 2.3 m.

Weather	Latitude*	Longitude	Depth (m)	Dissolved Oxygen (mg/L)	Temperature (°C)
partially sunny	41.93943	-72.19431	0.5	8.5	26.0
			1	8.3	25.5
			2	8.6	24.9
			3	7.9	24.0

[\\*Convert to degrees minutes seconds](#)

Table 2. Water chemistry.

Depth (m)	Conductivity ( $\mu\text{s}/\text{cm}$ )	pH	Alkalinity expressed as Calcium carbonate (mg/L)	Phosphorus (parts per billion)
0.5	129.0	8.2	24.0	12
3.3	132.0	6.4	25.5	25

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