

Standard Aquatic Vegetation Summary Sheet



Lake Name: **Hardwood Lake**
 County: Ogemaw County
 Surveyor: Paul Hausler, Garrett Groves
 Total Number of AVAS Sites: 49

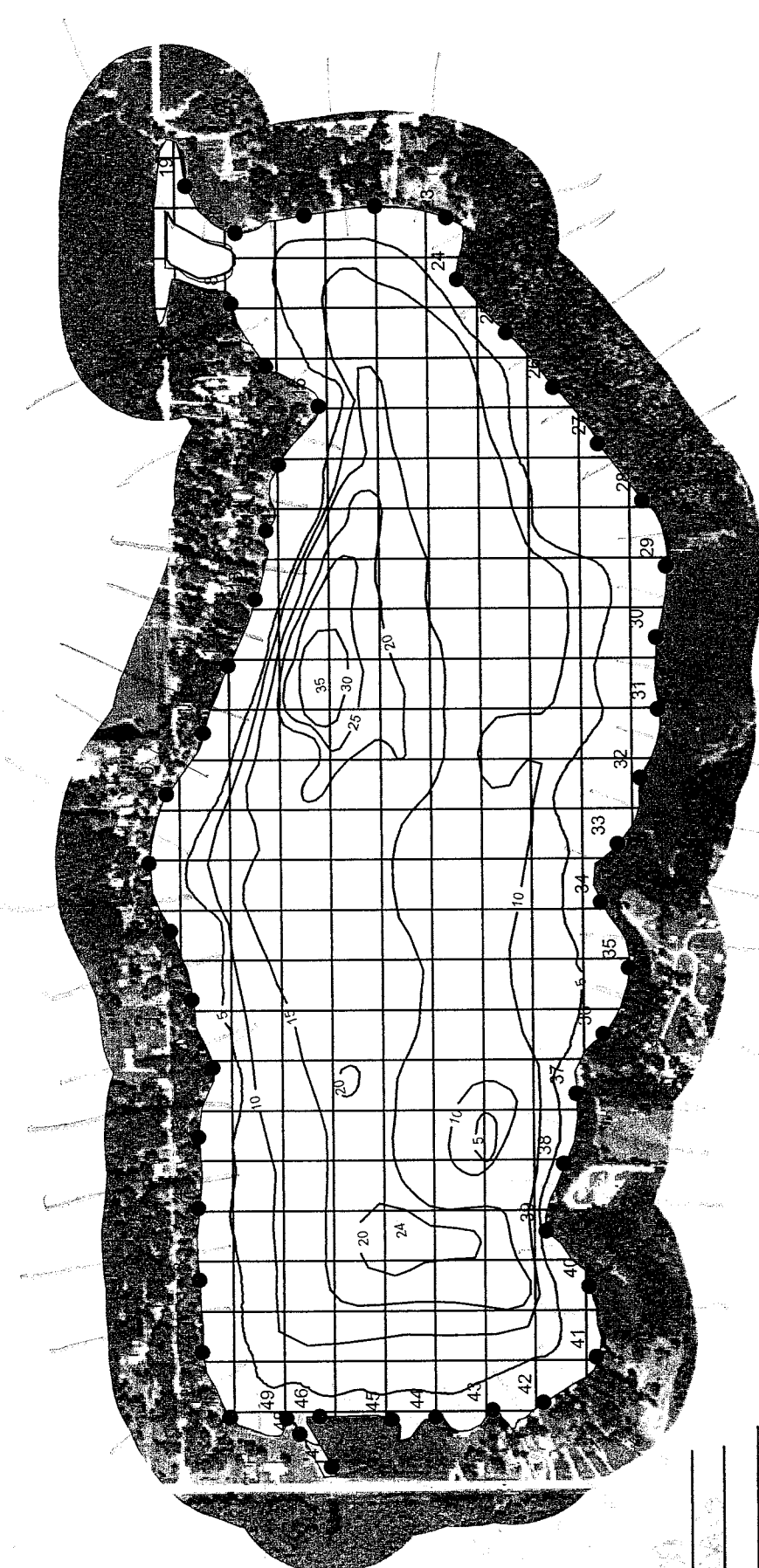
Survey Date: 19-Aug-09

Code No	Plant Name	Occurrence per Density Category				Relative Density Calculations				Relative Density for Entire Littoral Zone		Code No	Plant Name
		A	B	C	D	A x 1	B x10	C x 40	D x 80	Sum	%		
1	Eurasian milfoil					0	0	0	0	0	0.0	1	Eurasian milfoil
2	Curly leaf pondweed	1				1	0	0	0	1	0.0	2	Curly leaf pondweed
3	Chara		1			0	10	0	0	10	0.2	3	Chara
4	Thinleaf pondweed		13	21	1	0	130	840	80	1050	21.4	4	Thinleaf pondweed
5	Flatstem pondweed		5	6		0	50	240	0	290	5.9	5	Flatstem pondweed
6	Robbins pondweed					0	0	0	0	0	0.0	6	Robbins pondweed
7	Variable pondweed					0	0	0	0	0	0.0	7	Variable pondweed
8	Whitestem pondweed					0	0	0	0	0	0.0	8	Whitestem pondweed
9	Richardson's pondweed					0	0	0	0	0	0.0	9	Richardson's pondweed
10	Illinois pondweed		1			0	10	0	0	10	0.2	10	Illinois pondweed
11	Large leaf pondweed		5	9	1	0	50	360	80	490	10.0	11	Large leaf pondweed
12	American pondweed					0	0	0	0	0	0.0	12	American pondweed
13	Floating leaf pondweed		1			0	10	0	0	10	0.2	13	Floating leaf pondweed
14	Water stargrass	1	5	17	2	1	50	680	160	891	18.2	14	Water stargrass
15	Wild celery	1	11	5	1	1	110	200	80	391	8.0	15	Wild celery
16	Sagittaria					0	0	0	0	0	0.0	16	Sagittaria
17	Northern milfoil					0	0	0	0	0	0.0	17	Northern milfoil
18	M. verticillatum					0	0	0	0	0	0.0	18	M. verticillatum
19	M. heterophyllum					0	0	0	0	0	0.0	19	M. heterophyllum
20	Coontail	1	3	2		1	30	80	0	111	2.3	20	Coontail
21	Elodea					0	0	0	0	0	0.0	21	Elodea
22	Utricularia spp.		2			0	20	0	0	20	0.4	22	Utricularia spp.
23	Bladderwort-mini					0	0	0	0	0	0.0	23	Bladderwort-mini
24	Buttercup					0	0	0	0	0	0.0	24	Buttercup
25	Najas spp.		5	2		0	50	80	0	130	2.7	25	Najas spp.
26	Brittle naiad					0	0	0	0	0	0.0	26	Brittle naiad
27	Swamp milkweed		3	1		0	30	40	0	70	1.4	27	Swamp milkweed
28	Jewel weed	1	3	2		1	30	80	0	111	2.3	28	Jewel weed
29	Carex lacustris		3	4		0	30	160	0	190	3.9	29	Carex lacustris
30	Nymphaea		18	27		0	180	1,080	0	1260	25.7	30	Nymphaea
31	Nuphar		2	17		0	20	680	0	700	14.3	31	Nuphar
32	Brasenia					0	0	0	0	0	0.0	32	Brasenia
33	Lemna minor					0	0	0	0	0	0.0	33	Lemna minor
34	Spirodella					0	0	0	0	0	0.0	34	Spirodella
35	Watermeal					0	0	0	0	0	0.0	35	Watermeal
36	Arrowhead					0	0	0	0	0	0.0	36	Arrowhead
37	Pickerelweed		3	7		0	30	280	0	310	6.3	37	Pickerelweed
38	Arrow arum					0	0	0	0	0	0.0	38	Arrow arum
39	Cattails		8	7		0	80	280	0	360	7.3	39	Cattails
40	Bulrushes	1	13	9	1	1	130	360	80	571	11.7	40	Bulrushes
41	Iris					0	0	0	0	0	0.0	41	Iris
42	Swamp loosestrife		7	1		0	70	40	0	110	2.2	42	Swamp loosestrife
43	Purple loosestrife					0	0	0	0	0	0.0	43	Purple loosestrife
44						0	0	0	0	0	0.0	44	
45						0	0	0	0	0	0.0	45	

Total: 144.6

□ = 1 ACRE

HARDWOOD LAKE AQUATIC PLANT SURVEY MAP 182 ACRES



Date: _____
 Crew: _____
 Weather: _____

Density

- a Found
- b Sparse
- c Common
- d Dense

Plant Names

- 1 E. Milfoil
- 2 Curly leaf pondw
- 3 Chara
- 4 Smartweed
- 5 Elodea
- 6 R. sp.
- 7 Robins pondw
- 8 Variable pondw
- 9 R. sp.
- 10 Illinois pondw
- 11 Large leaf pondw
- 12 American pondw
- 13 Floating leaf pondw
- 14 Water stargrass
- 15 Wild celery
- 16 Sagittaria
- 17 Northern milfoil
- 18 M. verticillatum
- 19 M. heterophyllum
- 20 Coontail
- 21 Elodea
- 22 Utricularia vulgaris
- 23 Bladderwort mini
- 24 Bladderwort
- 25 Bladderwort
- 26 Brittle naiad
- 30 Nymphaea
- 31 Nymphaea
- 32 Brasenia
- 33 Lemna minor
- 34 Spirodella
- 35 Watermeal
- 36 Arrowhead
- 37 Pickerelweed
- 38 Arrow arum
- 39 Cattails
- 40 Bulrushes
- 41 Iris
- 42 Swamp loosestrife
- 43 Purple loosestrife

Notes:



1 inch = 700 feet

ProgressiveAE

1811 1/2 Mile Road, NE
 Grand Rapids, Michigan 49525-2442
 V: 616/361-2664 F: 616/361-1463
 www.progressiveae.com