

Standard Aquatic Vegetation Summary Sheet



Lake Name: Pentwater
 County: Oceana
 Surveyor: Rick Buteyn, Ryan Groves
 Total Number of AVAS Sites: 106
 Survey Date: 16-Aug-16

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	6	54	14		6	540	560	0	1,106	10.4	1	Eurasian milfoil
2	Curly leaf pondweed		1			0	10	0	0	10	0.1	2	Curly leaf pondweed
3	Chara		7			0	70	0	0	70	0.7	3	Chara
4	Thinleaf pondweed	7	9			7	90	0	0	97	0.9	4	Thinleaf pondweed
5	Flatstem pondweed	4	4			4	40	0	0	44	0.4	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		1			0	10	0	0	10	0.1	8	Whitestem pondweed
9	Richardson's pondweed	6	28			6	280	0	0	286	2.7	9	Richardson's pondweed
10	Illinois pondweed					0	0	0	0	0	0.0	10	Illinois pondweed
11	Large leaf pondweed					0	0	0	0	0	0.0	11	Large leaf pondweed
12	American pondweed					0	0	0	0	0	0.0	12	American pondweed
13	Floating leaf pondweed					0	0	0	0	0	0.0	13	Floating leaf pondweed
14	Water stargrass	4	13	2		4	130	80	0	214	2.0	14	Water stargrass
15	Wild celery	1	32	45	12	1	320	1,800	960	3,081	29.1	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	12	51	4	1	12	510	160	80	762	7.2	20	Coontail
21	Elodea		10	3	2	0	100	120	160	380	3.6	21	Elodea
22	Utricularia spp.		10	1		0	100	40	0	140	1.3	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.	2	29	5		2	290	200	0	492	4.6	25	Najas spp.
26	Brittle naiad					0	0	0	0	0	0.0	26	Brittle naiad
27	Sago pondweed					0	0	0	0	0	0.0	27	Sago pondweed
28						0	0	0	0	0	0.0	28	
29						0	0	0	0	0	0.0	29	
30	Nymphaea	1	1			1	10	0	0	11	0.1	30	Nymphaea
31	Nuphar		8			0	80	0	0	80	0.8	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					0	0	0	0	0	0.0	37	Pickerelweed
38	Arrow arum					0	0	0	0	0	0.0	38	Arrow arum
39	Cattails	1	7	8	2	1	70	320	160	551	5.2	39	Cattails
40	Bulrushes	2	3	1		2	30	40	0	72	0.7	40	Bulrushes
41	Iris					0	0	0	0	0	0.0	41	Iris
42	Swamp loosestrife					0	0	0	0	0	0.0	42	Swamp loosestrife
43	Purple loosestrife	3				3	0	0	0	3	0.0	43	Purple loosestrife
44	Starry stonewort	3	5	4		3	50	160	0	213	2.0	44	Starry stonewort
45	Phragmites australis		1			0	10	0	0	10	0.1	45	Phragmites australis

Total: 72.0

□ = 1 ACRE

OUTLET TO LAKE MICHIGAN

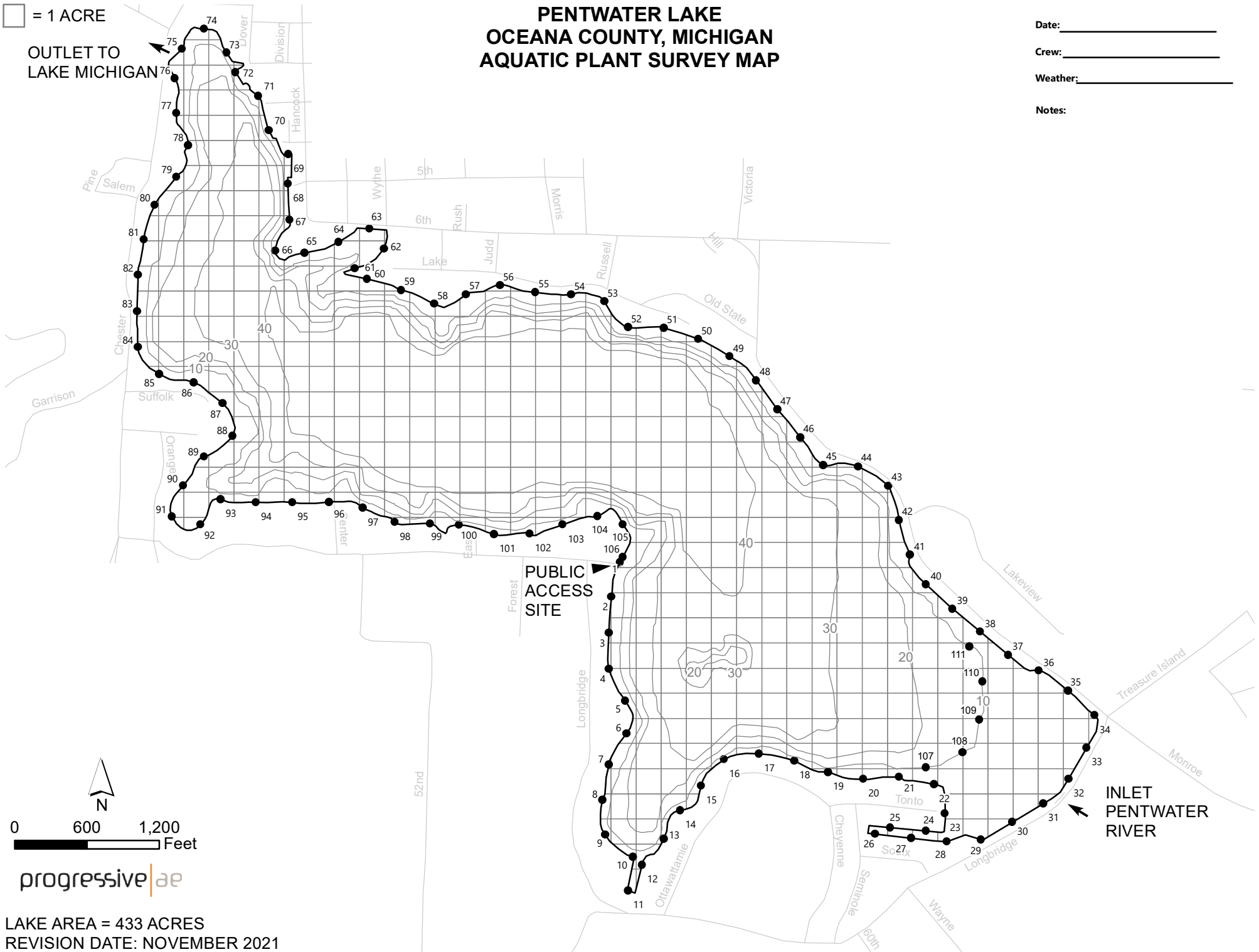
PENTWATER LAKE OCEANA COUNTY, MICHIGAN AQUATIC PLANT SURVEY MAP

Date: _____

Crew: _____

Weather: _____

Notes:



0 600 1,200 Feet

progressive|ae

LAKE AREA = 433 ACRES
REVISION DATE: NOVEMBER 2021

Pentwater Lake

August 16, 2016

AVAS	1	2	3	4	5	6	7	8	9	10	11	12
1	1b	15c	40a									
2	9a	15c	1a	20a								
3	20b	1b	15c	9a	30a	44c						
4	1b	43a	39a	31b	20a	15c						
5	5b	15b	1b	31b	44b							
6	9b	15c	1b	20b	25b	44a						
7	31b	15c	5a	20b	1b	44a						
8	4b	15c	1b	20b	14b							
9	1b	15c	20b	25b	4a	9b						
10	9b	1b	31b	15b								
11	5b	15b	1b	14a	20b							
12	20b	15b	1b	4a	14a							
13	14b	1c	15c	20b	25b							
14	20b	15b	1c	14b	25b	9b						
15	25b	1c	20b	15b								
16	15c	1b	4b	25b								
17	25b	1b	20b									
18	1b	39b	15b	25b								
19	20b	1b	15b	44b								
20	20b	15b	44a									
21	20c	1b	15b									
22	20b	15c	9b	8b	31b	22b						
23	14b	15b	25b	1b	44b	5a						
24	20b	31b	9b									
25	20b											

Pentwater Lake

August 16, 2016

AVAS	1	2	3	4	5	6	7	8	9	10	11	12
26	20b	15b										
27	15b	20a										
28	14a	1a	15b	5b	44c	30b	22b					
29	44c	22b	15c	39c								
30	39c	15c	22b	44c	25a	9b						
31	15c	22b	44b	1c	25b	14a						
32	14b	15b	1b	2b	22b	25b						
33	1c	22b	20c	15b	25b	21c						
34	21c	22b	20b	31b	39c							
35	39c	22c	21d									
36	21d	15b	4a	25a								
37	15d	22b	1b	20b	21b							
38	20c	15d										
39	20d	15c										
40	20c	15c	21b									
41	20b	15d	22b	14b	39b							
42	39c	15d	40b									
43	15d	39d	1b	20b	5a							
44	39c	15c										
45	9a	4b	15d	1b	20b	21b	25b					
46	4b	9b	39b	15c	5a							
47	39c	40c	20b	15c								
48	15c	39c	9b	1b								
49	15d	39d	1b									
50	15d	39b	1b									

Pentwater Lake

August 16, 2016

AVAS	1	2	3	4	5	6	7	8	9	10	11	12
51	15c	4b	1b									
52	15c	25b	4a	20a								
53	15d	1b	20b									
54	15c	1b	4b	21b	44b							
55	25b	3b	21b	1b	20b	14b	15b					
56	20b	15c	1b	21c	25b							
57	15d	21b	20a	1b								
58	20b	1c	15c									
59	1c	20b	15c	4b								
60	15b	1b	9b	14b	25b	20b						
61	15b	21b	1b	20a								
62	15b	20b										
63	20b											
64	20b	1a										
65	20a											
66												
67	14b	1b	15b									
68	20a	4b	9b									
69	9a	4a	20a	15a								
70												
71	9b	15b										
72	9b	1b	15c									
73	9b	15b	20b									
74	9b	20b										
75												

Pentwater Lake

August 16, 2016

AVAS	1	2	3	4	5	6	7	8	9	10	11	12
76	9b											
77	9b	15b	1b	25b								
78	20b	1b	15b									
79	15b	1b	20b	25b								
80	15c	20b	1b	25b								
81	20b	15b	25b	1b								
82	15c	1b	20b									
83	15b	1b	4a	9a	20a							
84	15c	1b	40a	9a								
85	9b	21b	15c	1c								
86	1c	15c										
87	1c	15c	9b	4a	20b							
88	1c	15c	20b	39b	40b	4b	43a					
89	1c	9b	21b	25b	20b	14b						
90	15c	20b	1b	9b	14b	39b						
91	20b	9b	15c	1c	25b							
92	15c	1c	14b	9b								
93	5b	1b	15d	20b	9b	14c						
94	31b	15d	20b	1b	14c	25c						
95	25c	15b	1b	3b								
96	3b	25b	20b	1a								
97	15c	20b	1a	3b								
98	15c	1b	20a	9b	25c							
99	15c	1b	25b	21b								
100	15c	1b	20b	39b								

Pentwater Lake

August 16, 2016

AVAS	1	2	3	4	5	6	7	8	9	10	11	12
101	25c	15c	1b	9b	20a							
102	3b	25c	9b	15c	1b							
103	15c	1b	3b	25b								
104	1b	25b	15c	43a	45b							
105	40b	1a	15b	3b	25b	20b						
106	1b	20b	15b	14b	9b	25b						