

Standard Aquatic Vegetation Summary Sheet



Lake Name: Pentwater
 County: Oceana
 Surveyor: Rick Buteyn, Garrett Groves
 Total Number of AVAS Sites: 104
 Survey Date: 3-Sep-15

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	3	60	14	1	3	600	560	80	1,243	12.0	1	Eurasian milfoil
2	Curly leaf pondweed					0	0	0	0	0	0.0	2	Curly leaf pondweed
3	Chara		10	1		0	100	40	0	140	1.3	3	Chara
4	Thinleaf pondweed	3	11			3	110	0	0	113	1.1	4	Thinleaf pondweed
5	Flatstem pondweed	3	15			3	150	0	0	153	1.5	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	3			1	30	0	0	31	0.3	8	Whitestem pondweed
9	Richardson's pondweed	2	43	1		2	430	40	0	472	4.5	9	Richardson's pondweed
10	Illinois pondweed					0	0	0	0	0	0.0	10	Illinois pondweed
11	Large leaf pondweed	1				1	0	0	0	1	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	2	15	1		2	150	40	0	192	1.8	14	Water stargrass
15	Wild celery		28	55	5	0	280	2,200	400	2,880	27.7	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	42	7		1	420	280	0	701	6.7	20	Coontail
21	Elodea	1	12			1	120	0	0	121	1.2	21	Elodea
22	Utricularia spp.	5	8	1		5	80	40	0	125	1.2	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.	1	22	1		1	220	40	0	261	2.5	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					0	0	0	0	0	0.0	30	Nymphaea
31	Nuphar	1	4			1	40	0	0	41	0.4	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		14	2	1	0	140	80	80	300	2.9	39	Cattails
40	Bulrushes	1	4			1	40	0	0	41	0.4	40	Bulrushes
41	Iris					0	0	0	0	0	0.0	41	Iris
42	Swamp loosestrife		1			0	10	0	0	10	0.1	42	Swamp loosestrife
43	Purple loosestrife					0	0	0	0	0	0.0	43	Purple loosestrife
44	Starry stonewort		2	1	2	0	20	40	160	220	2.1	44	Starry stonewort
45	Cabomba		2	1		0	20	40	0	60	0.6	45	Cabomba

Total: 68.3

□ = 1 ACRE

OUTLET TO LAKE MICHIGAN

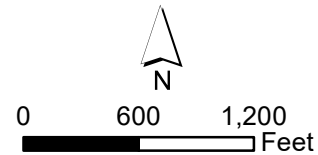
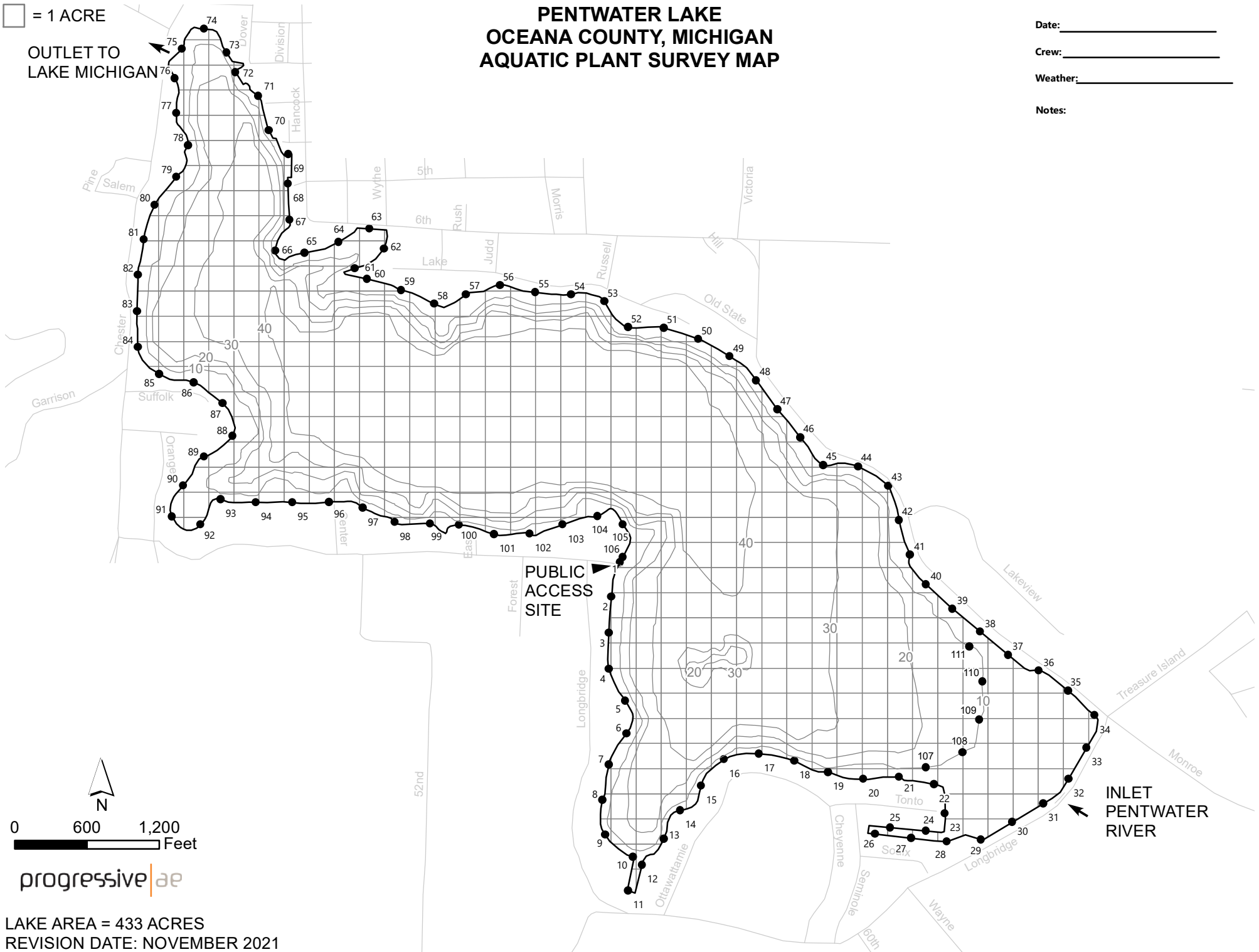
PENTWATER LAKE OCEANA COUNTY, MICHIGAN AQUATIC PLANT SURVEY MAP

Date: _____

Crew: _____

Weather: _____

Notes:



progressive|ae

LAKE AREA = 433 ACRES
REVISION DATE: NOVEMBER 2021

Pentwater Lake

September 3, 2015

AVAS	1	2	3	4	5	6	7	8	9	10	11	12
1	1b	15b	9b									
2	1b	15c	20b	9b								
3	15c	9b	3c	39b	20b	1b						
4	39b	31b	15c	20b	3b	5b	4a					
5	15c	20b	31b	9b	4b	3b						
6	14b	15c	1b	4b	40a							
7	31b	15d	5b	1b	4b	20b	9b	3b				
8	3b	15b	1b	20b	39b	9b	5b	14b				
9	15c	1b	9a									
10	31b	15b										
11	20b	15b	1b									
12	20b	1b	15c	14a	5b							
13	15c	1b	9b	5b								
14	9c	1c	15c	20b								
15	1b	15b	9b									
16	15b	9b	4b	25b	3b							
17	1b	20b	15b									
18	15c	1b	9b	3b								
19	1b	15b	25b	3b	9b							
20	1b	15b	20b									
21	20c	1b	15b	25b								
22	15c	20b	9b	22b								
23	20c	44b	45b	21b	8b	9a						
24	45b	1b	21b	8b	31a							
25	20b	9b	15b	21a								

Pentwater Lake

September 3, 2015

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

Pentwater Lake

September 3, 2015

AVAS	1	2	3	4	5	6	7	8	9	10	11	12
51	39b											
52	1b	15c	20b	4b								
53	15c	20b	9b	39b	5a	1a						
54	25b	1b	4a	20b	22a							
55	3b	15b	1b	9b	25b	21b	5b	14a				
56	15c	22a	1b	9b	39b	25a						
57	25b	1c	15c									
58	25b	3b	1b	15b	20b							
59	1c	15b										
60	1b	22b	15c	21b								
61	5b	15b	1b									
62	15c	1b	9b	14b	5a	25b						
63	5b	25b	1b	15c	20b							
64	15c	1b	20b									
65	15c											
66	15b	1b										
67	15b											
68	15b											
69	15b	1b	20b									
71	15b	1b										
72	15c	1b	14b									
73	14b	15c	1b									
74	1c	15c										
75	15c											
76	15b	1b										

Pentwater Lake

September 3, 2015

AVAS	1	2	3	4	5	6	7	8	9	10	11	12
77	1b	20b	15b	21b								
78	1b	15c										
79	1c	15c	5b	9b	20b							
80	14b	1c	15c	9b								
81	1b	15c	9b	5b	20b							
82	15c	1c	5b	9b								
83	1b	14b	5b									
84	15c	1c	20b	21b								
85	15c	1c	22a	25b	9b							
86	15c	25b	1b	21b								
88	11a	15c	1c	9b	40b	39b						
89	9b	15c	1b									
90	1b	9b	5b									
91	1c	39b	9b									
92	4b	9b	20b	22b	1b							
93	1b	9b	15c	25b	22b	4a	5b	14b				
94	1c	4b	15c	25b	14b	20b						
95	25b	15b	1b									
96	25b	15b	1b	9b								
97	15b	25b	1b	9b								
98	15c	9b	1b									
99	15b	39b	20b	1b								
100	1b	15c	25c									
101	1b	15c	25b	4b	9b							
102	9b	15c	1b									

Pentwater Lake

September 3, 2015

AVAS	1	2	3	4	5	6	7	8	9	10	11	12
103	9b	1b	4b	5a	25b							
104	3b	1a	15b	20b	14b	42b	40b					
105	15c	1b	9b	20b								
106	1b	15c	20b	5b	14b							