Weyauwega Lake
Lake Survey
Waupaca Co.

MACROPHYTON SURVEY

WEYAUWEGA LAKE - WAUPACA COUNTY

Date - July 19, 1977

Conducted by: Dennis C. Weisensel, Assisted by Tom Bahti

The purpose of the macrophyton survey on Weyauwega Lake was to establish a background listing of macrophytes presence and their relative abundance. It is anticipated that an over winter drawdown will occur during the winter of 1977-78. The over winter drawdown is being utilized to provide control on over abundant macrophyte populations in the lake. Interest was generated by Area fish management personnel as to the effect the drawdown would have on macrophyte populations.

Survey Procedure:

Weyauwega Lake was divided into nine randomly placed north-south transects. Twenty-seven sampling stations were established along the nine transects. Sampling was conducted by sight and raking techniques sufficient times to insure that most macrophyton present were noted. Sampling was conducted in the general areas indicated on the attached map. The macrophyton present were keyed to species and given an abundance rating. The following table describes the rating applied each plant that was found in the station areas:

RATING	DESCRIPTION	CLARIFICATION
1.	Present	1 or 2 plants in the area
2	Scarce	Several plants found in the area
3	Moderate	Plant present in a balanced number
4	Dense	Plant dominating the community with heavy growths
5	Very dense	Plant reaching abnormally heavy growths, creating a dominant matted proportion

Several factors should be kept in mind when reviewing this report.

1. The report relates mid to advanced summer conditions. This is due to the sampling date and the abnormally warm, sunny spring which occurred this year. Early fruiting macrophyton such as Potamogeton crispus may have been in extreme abundance earlier in the summer and the majority have died away by the time the survey was conducted.

2. Sampling was conducted in the general areas pinpointed on the map. A species in low abundance may be present in the area but was not noted. The relative abundance of the individual species would be very low, perhaps 1 or 2 individual plants.

3. The survey should provide ample information to determinations for future alterations in the macrophyte population due to over winter drawdown or aquatic plant harvesting that may be conducted on the lake.

General Conclusions:

Weyauwega Lake is a shallow basin impoundment with an over abundant macrophyton population. This condition is not unique and has been noted in many comparable impoundments throughout the State. The predominant macrophyton present are Elodea and Ceratophyllum. Macrophyton populations throughout the lake are generally abnormally abundant.

The following macrophyton were found at the listed station:

STATION	RATING	SPECIES
1	3	Ceratophyllum demersum
	3	Elodea canadensis
2	1	Ceratophyllum demersum
3	4	Elodea canadensis
4	3	Ceratophyllum demersum
	3	Elodea canadensis
5	5	Ceratophyllum demersum
	4	Elodea canadensis
	1	Potamogeton crispus
	1	Potamogeton zosteriformis
6	3	Ceratophyllum demersum
	3	Heteranthera dubia
	3	Potamogeton crispus
	2	Potamogeton foliosus
	3	Potamogeton zosteriformis
7	5	Ceratophyllum demersum
	2	Elodea canadeusis
	1	Potamogeton zosteriformis
8	5	Ceratophyllum demersum
	3	Elodea canadensis
9	4	Ceratophyllum demersum
	4	Elodea canadensis
	1	Potamogeton zosteriformis
10	1	Ceratophyllum demersum
	4	Elodea canadensis
11	4	Ceratophyllum demersum
	4	Elodea canadensis
	1	Potamogeton crispus
	1	Potamogeton pectinatus
	1	Potamogeton zosteriformis

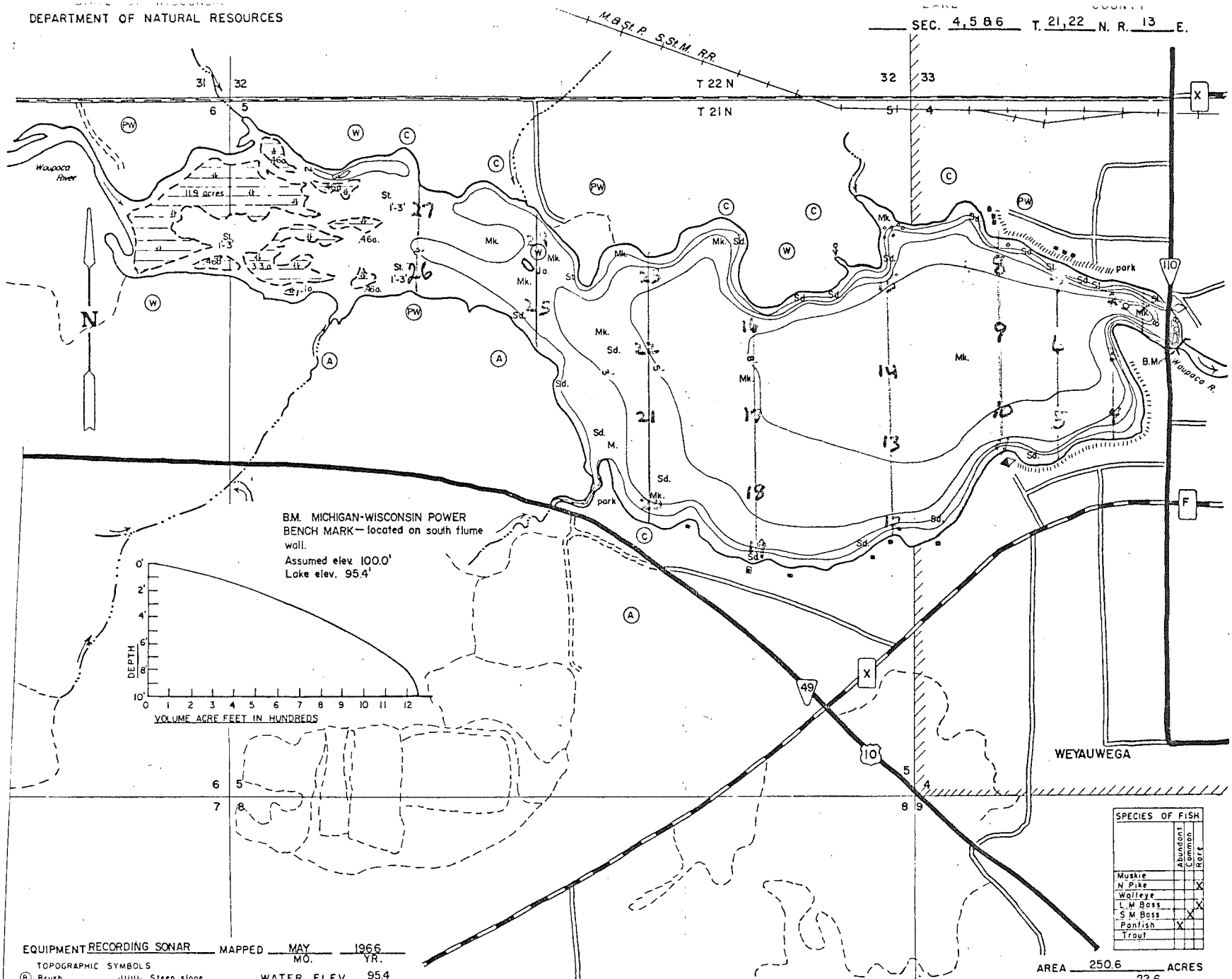
STATION	RATING	SPECIES
12	3	Ceratophyllum demersum
	3	Elodea canadensis
	1	Myriophyllum sp.
	1	Potamogeton crispus
	1	Potamogeton pectinatus
	1	Potamogeton zosteriformis
13	5	Ceratophyllum demersum
	4	Elodea canadensis
	1	Potamogeton crispis
14	None	
15	5	Ceratophyllum demersum
	1	Elodea canadansis
	1	Potamogeton zosteriformis
16	1	Ceratophyllum demersum
	1	Potamogeton robbinsii
17	3	Elodea Canadensis
		Potamogeton robbinsii
18	5	Ceratophyllum demersum
	5	Elodea canadensis
	2	Potamogeton crispus
	2	Potamogeton zosteriformis
19	1	Ceratophyllum demersum
	2	Elodea canadensis
	2	Myriophyllum sp.
	1	Potamogeton robbinsii
	1	Potamogeton zosteriformis
20	1	Ceratophyllum demersum
	4	Elodea canadensis
	1	Potamogeton robbinsii
21	4	Ceratophyllum demersum
	3	Elodea canadensis
	1	Potamogeton zosteriformis
22	4	Ceratophyllum demersum
	5	Elodea canadensis
	1	Lemna sp.
	1	Potamogeton zosteriformis
23	5	Ceratophyllum demersum
	5	Elodea canadensis
	1	Potamogeton crispus
	1	Potamogeton robbinsii

STATION	RATING	SPECIES
24	2	Ceratophyllum demersum
	2	Elodea canadensis
	1	Lemna sp.
	3	Potamogeton rabbinsii
	1	Potamogeton zosteriformis
	1	Sedge
25	1	Ceratophyllum demersum
	1	Lemna sp.
	4	Potamogeton rabbinsii
	1	Sedge
26 and 27		Primarily emergent vegetation such as cattails, sedges, and arrowheads

Dennis C. Wermuth
8-1-77

DEPARTMENT OF NATURAL RESOURCES

SEC. 4,5 8 6 T. 21,22 N. R. 13 E.



SPECIES OF FISH	Abundant	Common	Rare
Muskie			
N. Pike			X
Walleye			
L.M. Bass			X
S.M. Bass		X	
Panfish	X		
Trout			

EQUIPMENT RECORDING SONAR MAPPED MAY (MO.) 1966 (YR.)

WATER ELEV. 95.4

AREA 250.6 ACRES
UNDER 3FT. 22.6 %
OVER 20FT. 0.0 %
VOLUME 1259.06 ACRE FT.
TOTAL ALK. 176 P.P.M.
SHORELINE 7.33 MILES
MAX. DEPTH 10' FEET

TOPOGRAPHIC SYMBOLS

(B) Brush; (Pw) Partially wooded; (W) Wooded; (C) Cleared; (P) Pastured; (A) Agricultural; B.M. Bench Mark; ▪ Dwelling; [R] Resort; Steep slope; Indefinite shoreline; Marsh; Spring; Intermittent stream; Permanent inlet; Permanent outlet; Dam

LAKE BOTTOM SYMBOLS

P. Peat; Mk. Muck; C. Clay; M. Marl; Sd. Sand; St. Silt; Gr. Gravel; R. Rubble; Br. Bedrock; Stumps & Snags; Submergent vegetation; Emergent vegetation; Floating vegetation

◇ Access ◈ Access with Parking ◆ Boat Livery

Field work by: T. Corbett, H. Schmude Drawn by: D. Laiho

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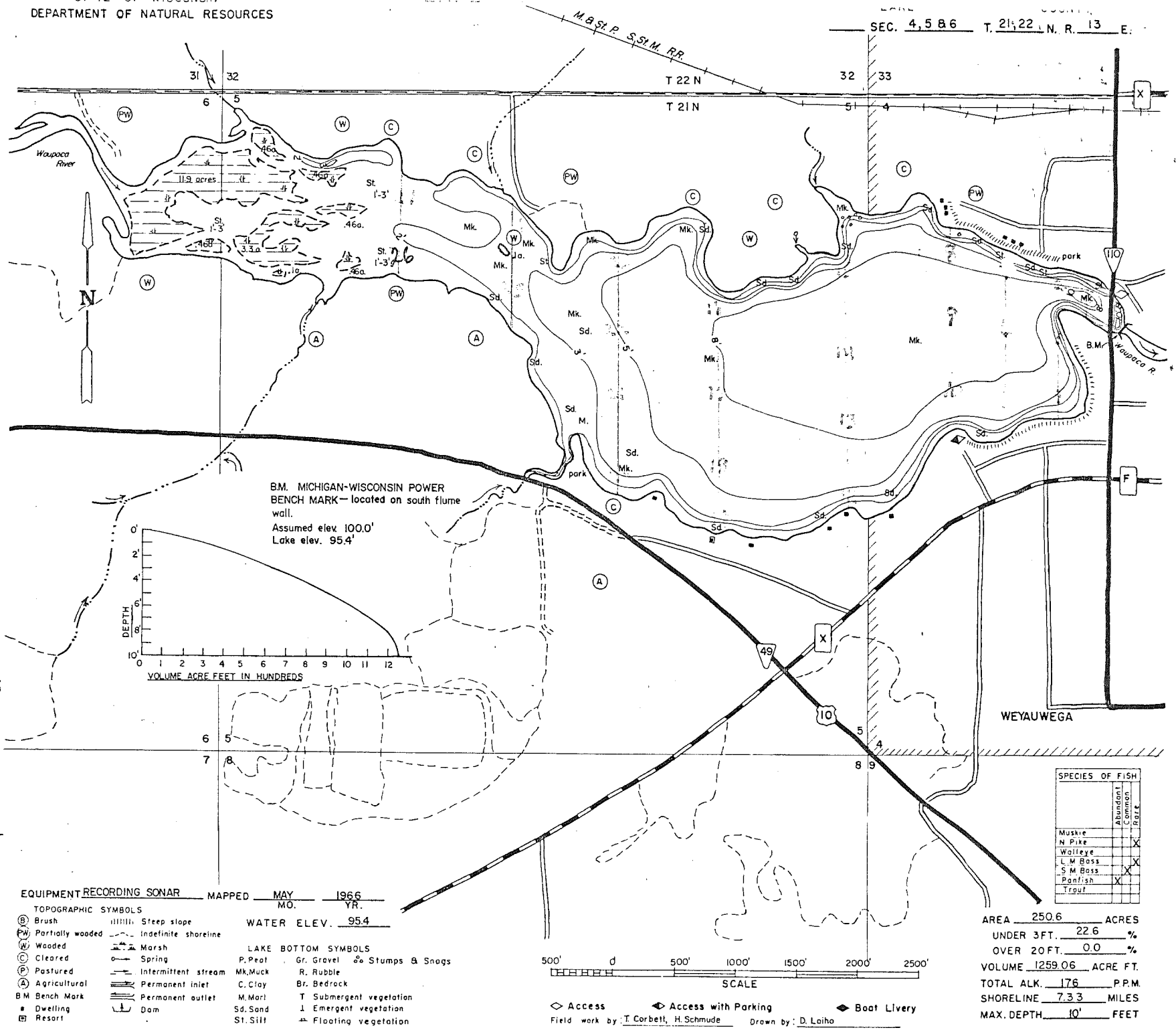

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SCALE 500' 0 500' 1000' 1500' 2000' 2500'

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I-Scarce
S-Very abundant