LAKE SURVEY

ANTRIM COUNTY
MICHIGAN

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Beal's Lake

Beal's Lake lies in Echo Township, Antrim County, Michigan. Its survey location is T 31 N, R 7 W, sections 21 and 28. The surface area is 40.5 acres with a maximum depth not exceeding 18 feet. The axis of the lake is northwest by southeast, as defined by rolling moraines on the southwest and northeast sides. Intermediate river enters the lake from the southeast and is the major drainage at the northwest shore. Light penetration was limited with Seechi disk readings of 2.5 meters. The temperature gradient was to be $41^\circ$ F at the bottom and $46^\circ$ F at the surface. The air temperature was $48^\circ$ F with overcast skies and wind speeds of less than 5 mph.

A cedar swamp borders the northern side of the lake while the remainder of the lake border is densely wooded with various hardwoods and conifers. Aquatic plants were numerous with reeds and marsh extending out from the north and south side of the lake. At the present time, only two cottages exist on the lake. Both are located on the southwest side.

Ponar samples taken indicated that the lake's bottom was chiefly silt.
Scott's Lake

Scott's Lake is in Echo Township, Antrim County, Michigan. Its survey location is T 31 N, R 7 W, section 21. The surface area is 63 acres with a maximum depth of 38 feet. The axis of the lake is southeast by northwest due to rolling moraines on the southwest and northeast sides. The Intermediate river is both affluent and effluent, entering at the southeast end and leaving at the northwest end. The Secchi disk reading was 3.9 meters. The air temperature was 51° F with a surface temperature of 43° F and a bottom temperature of 42° F at 7.5 meters.

The area surrounding the lake was densely wooded and over half the shoreline was occupied by cottages and housetrailers. At Spann's Boat Livery, on the south shoreline, abundant bluegreen algae was noted.

Ponar samples indicated that the lake's bottom type was chiefly silt.
Intermediate Lake

Intermediate Lake is located in Echo Township, Antrim County, Michigan. Its survey location is T 30, 31 N, R 7, 8, W. The surface area is 1,520 acres with a maximum depth not exceeding 80 feet. The axis of the lake is north by northwest and south by southeast as defined by moraines of 300 feet on the east and 150 feet on the west. Intermediate River enters the lake at the north by northwest end and drains at the south by southeast end. Secchi disk readings varied between 5 to 7 meters at random stations. The surface temperature was 49° F and the bottom temperature was 47° F.

The border of the lake is sparsely to densely wooded with mixed hardwoods and conifers. An exception is a cedar swamp and marsh area on the southern end of the lake. Several farms bordered the northern end. The most common bottom type was pulpy peat, characteristic of the deeper contours of the lake. Shoreward progression indicated in order: clay and pulpy peat, fibrous peat and pulpy peat with marl and sand. The southern shore line is characterized by emergent and floating, as well as submergent vegetation. The northern end is primarily submergent vegetation. The town of Central Lake is located at the northern end. Over half the shore line is developed with cottages or homes.