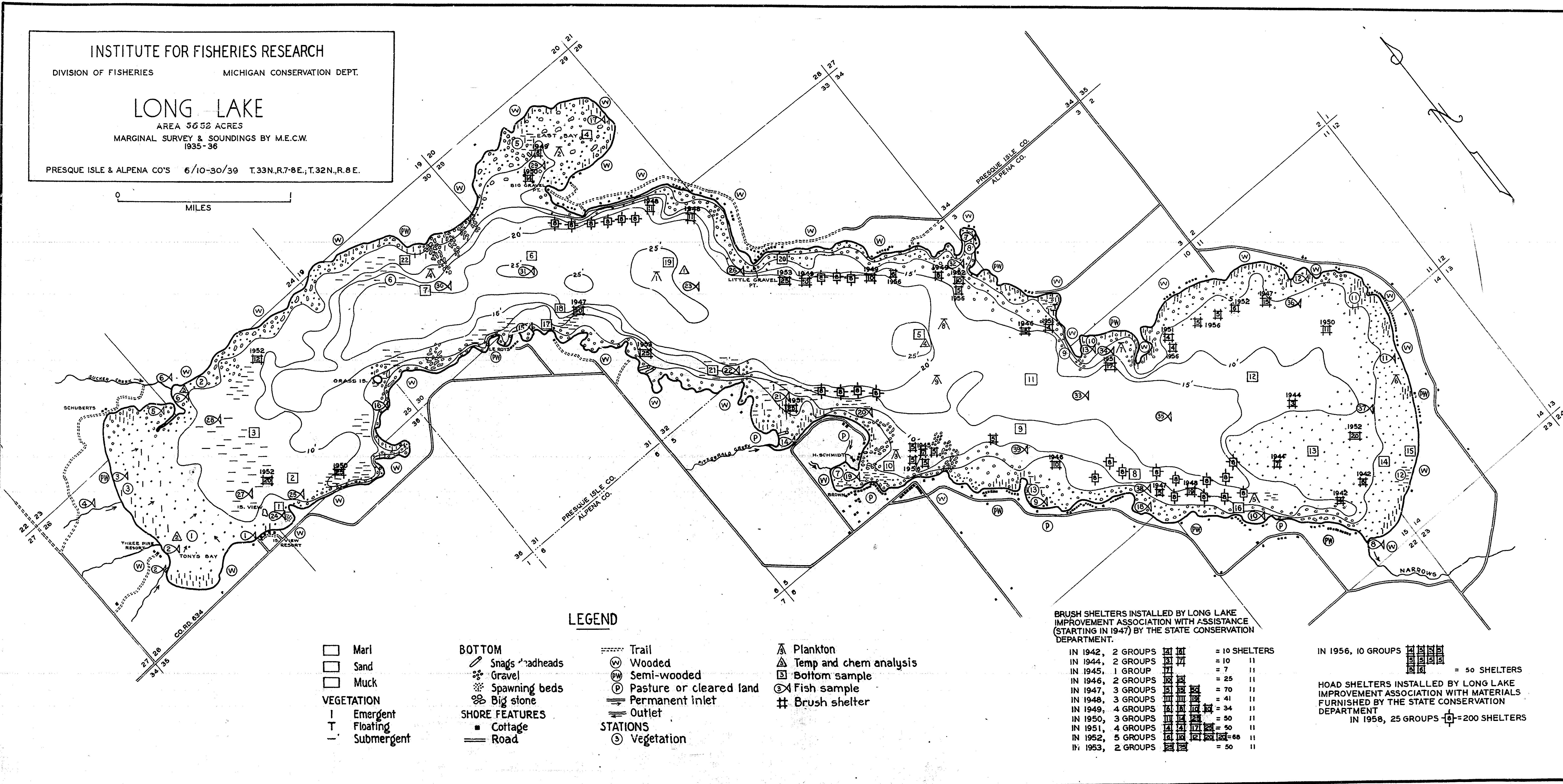


INSTITUTE FOR FISHERIES RESEARCH
 DIVISION OF FISHERIES MICHIGAN CONSERVATION DEPT.
LONG LAKE
 AREA 5032 ACRES
 MARGINAL SURVEY & SOUNDINGS BY M.E.C.W.
 1935-36
 PRESQUE ISLE & ALPENA CO'S 6/10-30/39 T.33N.,R.7-8E.,T.32N.,R.8E.

0 1 2
 MILES



LEGEND

- | | | | |
|-------------------|-----------------------|---------------------------|--------------------------|
| □ Marl | BOTTOM | ⋯ Trail | ⚠ Plankton |
| □ Sand | ⚡ Snags & deadheads | ⊙ Wooded | ⚠ Temp and chem analysis |
| □ Muck | ⚡ Gravel | ⊙ Semi-wooded | ⊠ Bottom sample |
| VEGETATION | ⚡ Spawning beds | ⊙ Pasture or cleared land | ⊗ Fish sample |
| I Emergent | ⚡ Big stone | ≡ Permanent inlet | ⊠ Brush shelter |
| T Floating | SHORE FEATURES | ≡ Outlet | |
| - Submergent | ■ Cottage | STATIONS | |
| | ≡ Road | ⊙ Vegetation | |

BRUSH SHELTERS INSTALLED BY LONG LAKE IMPROVEMENT ASSOCIATION WITH ASSISTANCE (STARTING IN 1947) BY THE STATE CONSERVATION DEPARTMENT.

IN 1942, 2 GROUPS	⊠ ⊠	= 10 SHELTERS
IN 1944, 2 GROUPS	⊠ ⊠	= 10 "
IN 1945, 1 GROUP	⊠	= 7 "
IN 1946, 2 GROUPS	⊠ ⊠	= 25 "
IN 1947, 3 GROUPS	⊠ ⊠ ⊠	= 70 "
IN 1948, 3 GROUPS	⊠ ⊠ ⊠	= 41 "
IN 1949, 4 GROUPS	⊠ ⊠ ⊠ ⊠	= 50 "
IN 1950, 3 GROUPS	⊠ ⊠ ⊠	= 50 "
IN 1951, 4 GROUPS	⊠ ⊠ ⊠ ⊠	= 68 "
IN 1952, 5 GROUPS	⊠ ⊠ ⊠ ⊠ ⊠	= 68 "
IN 1953, 2 GROUPS	⊠ ⊠	= 50 "

IN 1956, 10 GROUPS ⊠ ⊠ ⊠ ⊠ ⊠ ⊠ ⊠ ⊠ ⊠ ⊠ = 50 SHELTERS
 HOAD SHELTERS INSTALLED BY LONG LAKE IMPROVEMENT ASSOCIATION WITH MATERIALS FURNISHED BY THE STATE CONSERVATION DEPARTMENT
 IN 1958, 25 GROUPS ⊠ = 200 SHELTERS

LONG LAKE Presque Isle - Alpena Co's. T.33N.,R.7-8E.,T.32N.,R.8E.