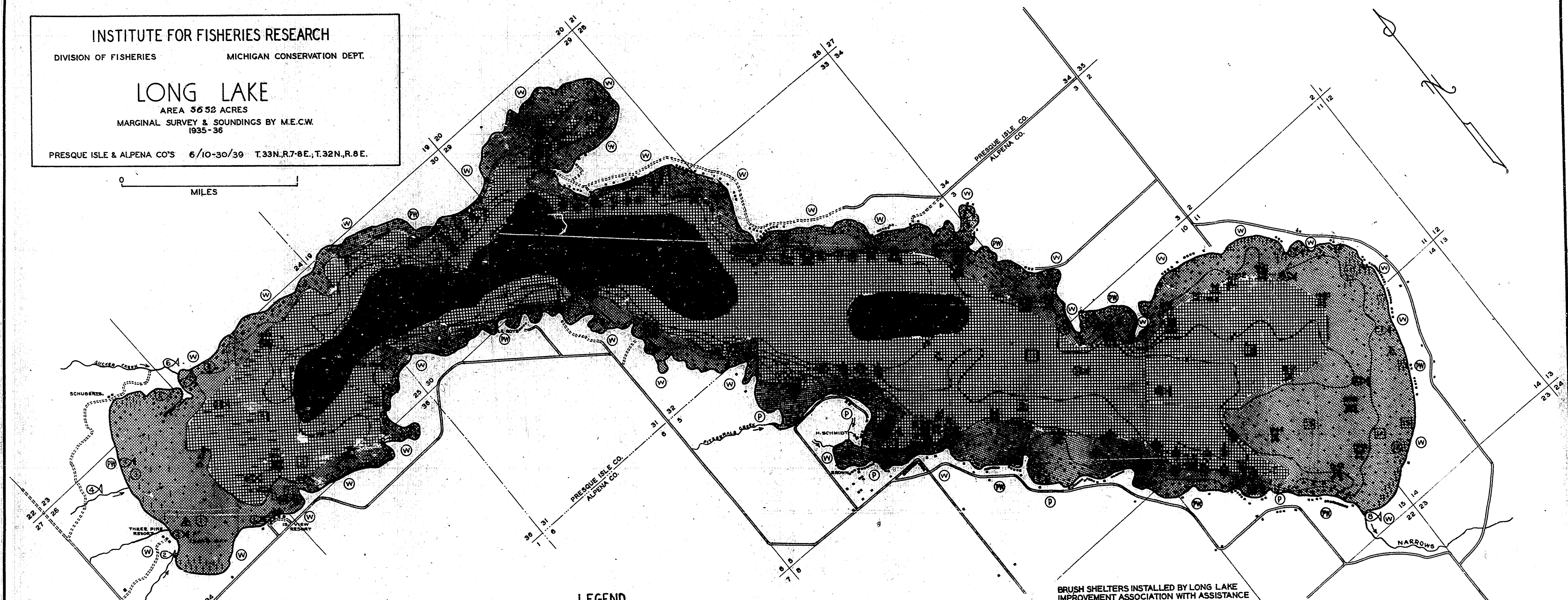
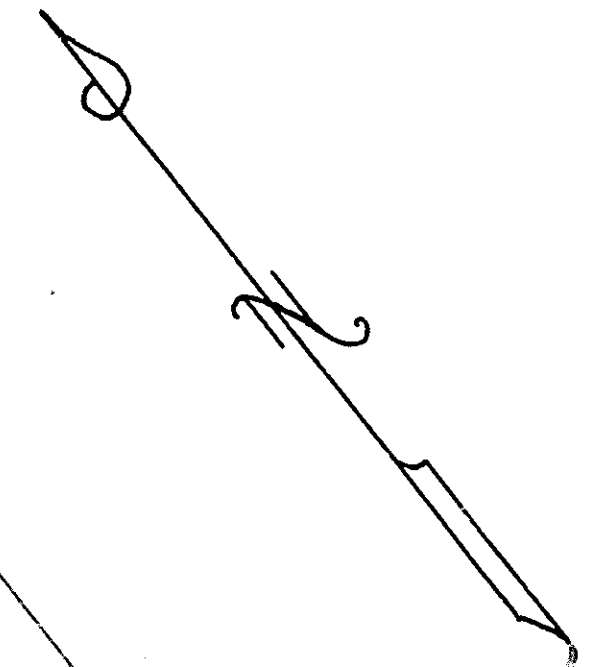
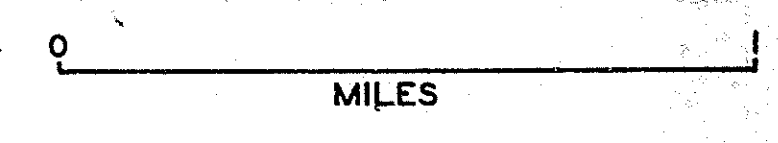


INSTITUTE FOR FISHERIES RESEARCH  
 DIVISION OF FISHERIES MICHIGAN CONSERVATION DEPT.  
**LONG LAKE**  
 AREA 5652 ACRES  
 MARGINAL SURVEY & SOUNDINGS BY M.E.C.W.  
 1935-36  
 PRESQUE ISLE & ALPENA CO'S 6/10-30/39 T.33N.,R.7-E.,T.32N.,R.8-E.



**LEGEND**

- |   |   |  |  |
|---|---|--|--|
| <ul style="list-style-type: none"> <li> Marl</li> <li> Sand</li> <li> Muck</li> <li><b>VEGETATION</b></li> <li> Emergent</li> <li> Floating</li> <li> Submergent</li> </ul> | <ul style="list-style-type: none"> <li><b>BOTTOM</b></li> <li> Snags, deadheads</li> <li> Gravel</li> <li> Spawning beds</li> <li> Big stone</li> <li><b>SHORE FEATURES</b></li> <li> Cottage</li> <li> Road</li> </ul> | <ul style="list-style-type: none"> <li> Trail</li> <li> Wooded</li> <li> Semi-wooded</li> <li> Pasture or cleared land</li> <li> Permanent inlet</li> <li> Outlet</li> <li><b>STATIONS</b></li> <li> Vegetation</li> </ul> | <ul style="list-style-type: none"> <li> Plankton</li> <li> Temp and chem analysis</li> <li> Bottom sample</li> <li> Fish sample</li> <li> Brush shelter</li> </ul> |
|---|---|--|--|

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		= 34 "
IN 1950, 3 GROUPS		= 50 "
IN 1951, 4 GROUPS		= 50 "
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