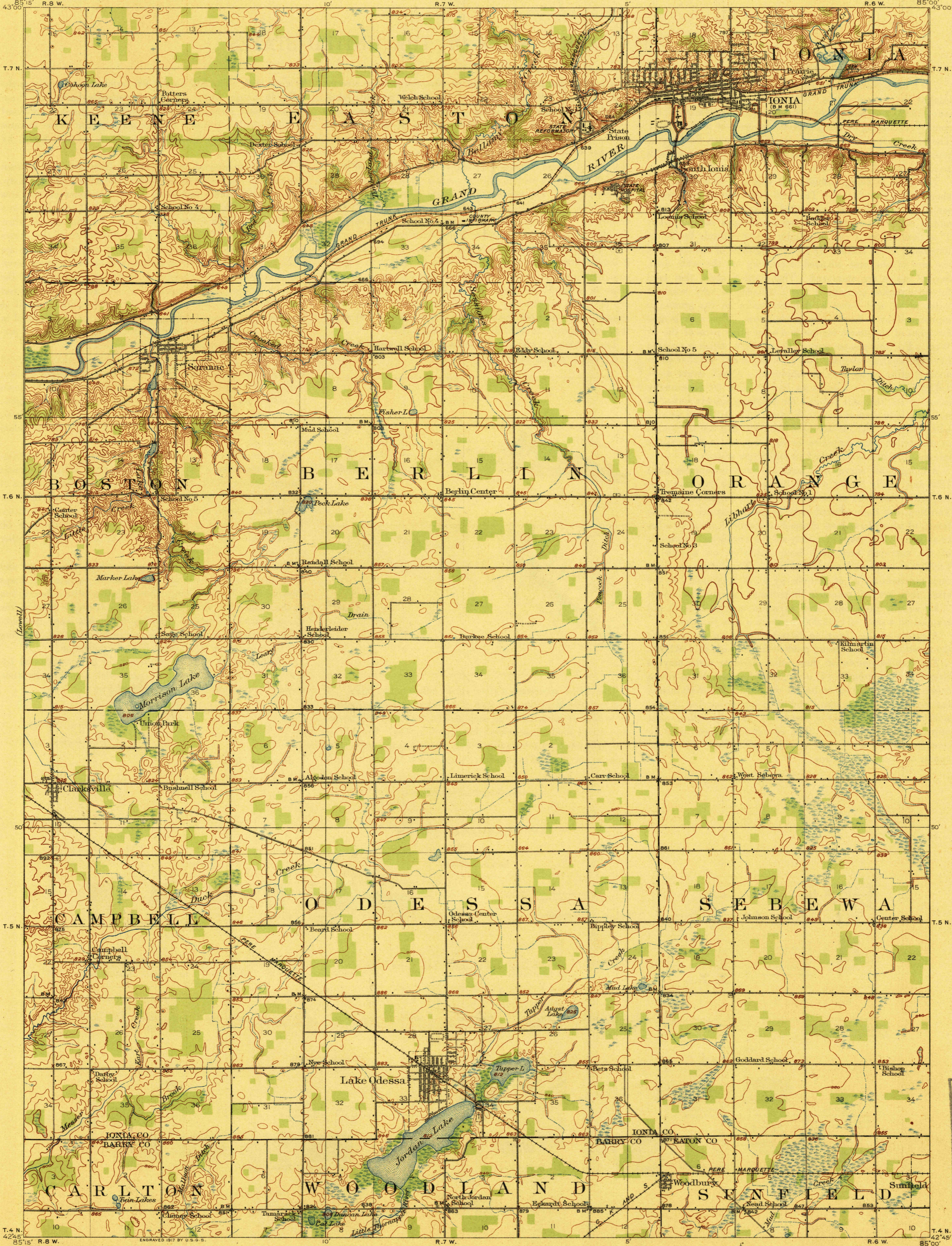


TOPOGRAPHY

DEPARTMENT OF THE INTERIOR  
FRANKLIN K. LANE, SECRETARY  
U.S. GEOLOGICAL SURVEY  
GEORGE OTIS SMITH, DIRECTOR

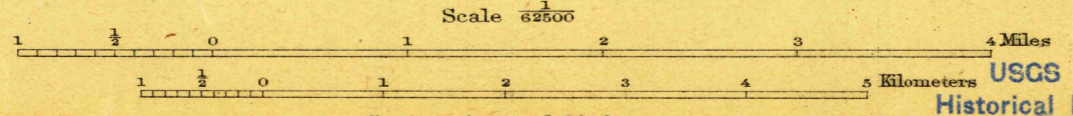
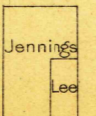
STATE OF MICHIGAN  
BOARD OF GEOLOGICAL SURVEY  
R.C. ALLEN, STATE GEOLOGIST

MICHIGAN  
IONIA QUADRANGLE  
R. 7 W. 85° 00'



U.S.G.S.  
FILE COPY  
Ed. Div. Topographic Maps.

T. 4 N. 42° 45' R. 7 W. ENGRAVED 1917 BY U.S.G.S.  
W.H. Herron, Acting Chief Geographer.  
Glenn S. Smith, Topographic Engineer in charge.  
Topography by J.H. Jennings and L.L. Lee.  
Control by J.R. Ellis, Oscar Jones, L.D. Townsend,  
H.S. Senseney, and E.C. Bibbee.  
Surveyed in 1916.



Contour interval 20 feet.  
Datum is mean sea level.

Aug 31 1918 3575

IONIA, Mich.