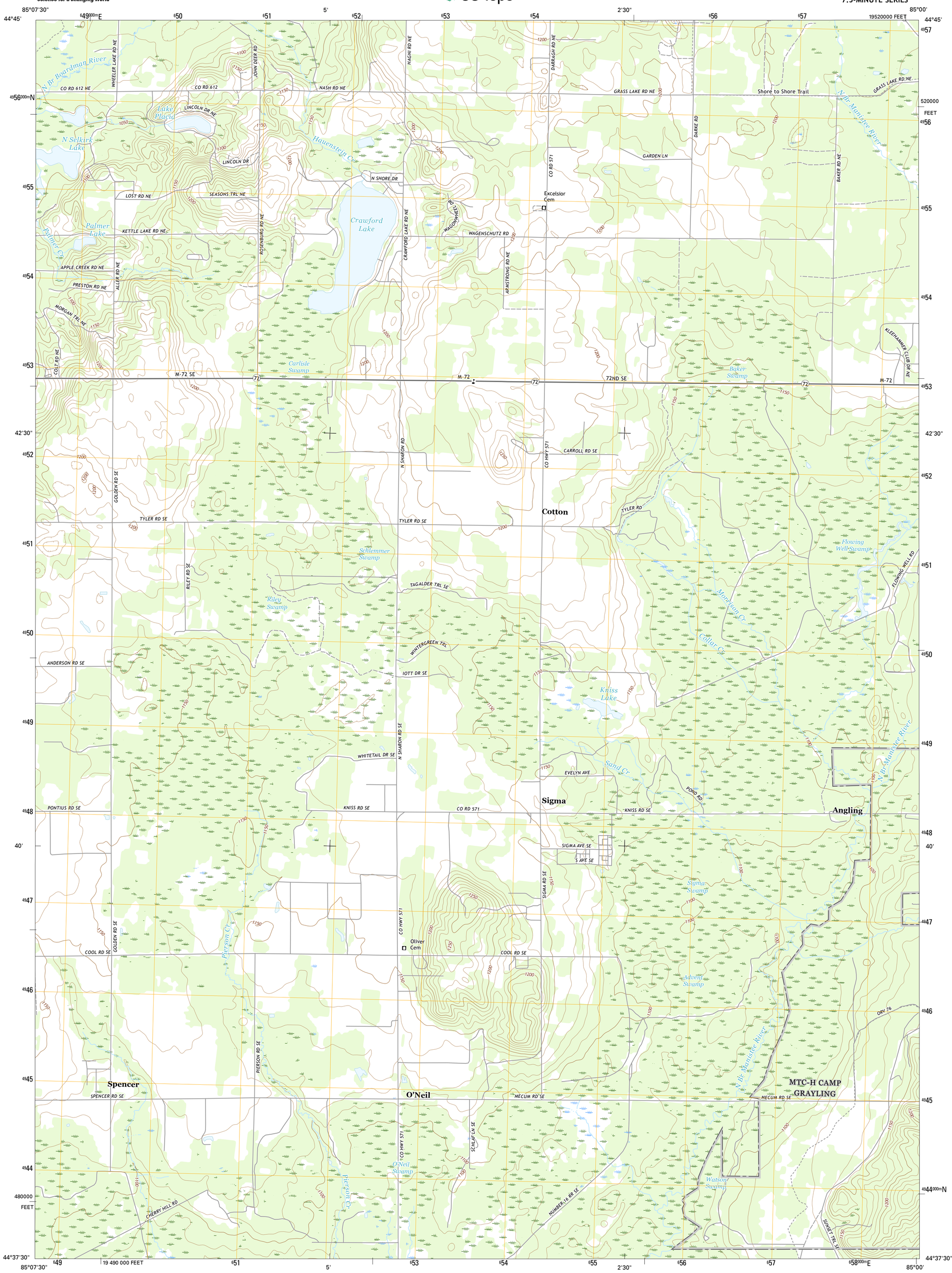
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

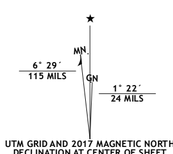
SIGMA QUADRANGLE
MICHIGAN-KALKASKA CO.
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 16T
10 000-foot ticks: Michigan Coordinate System of 1983 (central zone)

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

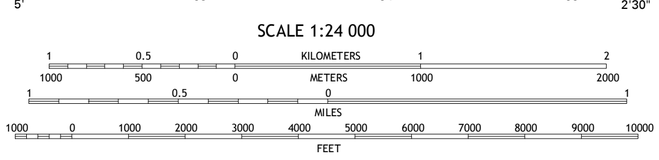
Imagery	NAIP,	November 2014
Roads	U.S. Census Bureau,	2015 - 2016
Names	GNIS,	2016
Hydrography	National Hydrography Dataset,	2014
Contours	National Elevation Dataset,	1998
Boundaries	Multiple sources; see metadata file	1972 - 2016
Public Land Survey System	BLM,	2016
Wetlands	FWS National Wetlands Inventory	1977 - 2014



UTM GRID AND 2017 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
FQ
Grid Zone Designation
16T

SCALE 1:24 000



CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.19

QUADRANGLE LOCATION

ROAD CLASSIFICATION

Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
State Route	

1	2	3
4		5
6	7	8

ADJOINING QUADRANGLES
1 Leetsville
2 Westwood
3 Starvation Lake
4 Kalkaska
5 Black Creek
6 Smithville
7 Sharon
8 Fletcher

SIGMA, MI
2017

NSN 7643016371701
NGA REF NO. USGSX24K41298