



Produced by the United States Geological Survey  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and 1000-meter grid: Universal Transverse Mercator, Zone 16T  
10 000-foot ticks: Michigan Coordinate System of 1983 (north 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.....GNS, 2016  
Hydrography.....National Hydrography Dataset, 2014  
Contours.....National Elevation Dataset, 2013  
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-ft Square ID
DS	100
DR	100
Grid Zone Designation	16T

SCALE 1:24 000

1 0.5 0 0.5 1 2  
1000 500 0 1000 2000  
KILOMETERS

1 0.5 0 0.5 1 2  
1000 500 0 1000 2000  
METERS

1 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000  
MILES

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000  
FEET

CONTOUR INTERVAL 20 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

ROAD CLASSIFICATION

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

QUADRANGLE LOCATION

1	2	3
4	5	6
7	8	

1 Kiernan  
2 Channing  
3 Ralph NW  
4 Lake Mary  
5 Ralph SW  
6 Florence East  
7 Randville  
8 Carney Lake

**SAGOLA, MI**  
2017

NGA REF NO. U.S.G.S. 24 K 7 8 0