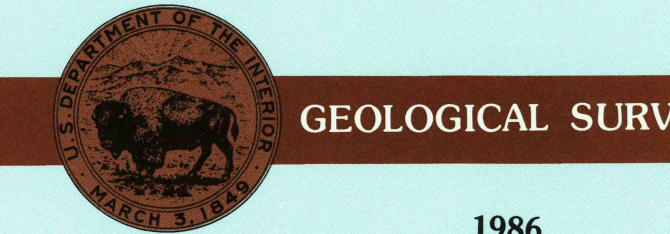


30 X 60 MINUTE QUADRANGLE SHOWING

- Elevations in meters
- Highways, roads and other manmade structures
- Water features
- Geographic names



Produced by the United States Geological Survey
 Compiled from USGS 1:24 000-scale topographic maps dated 1960-1983. Planimetry revised from aerial photographs taken 1980-1981 and other source data. Revised information not field checked. Map edited 1986.
 Projection and 10 000-meter grid, zone 16, Universal Transverse Mercator
 25 000-foot grid ticks based on Ohio coordinate system, north zone and Indiana coordinate system, east zone 1927 North American Datum
 To place on the predicted North American Datum 1983, move the projection lines 1 meter south and 5 meters west
 There may be private inholdings within the boundaries of the National or State reservations shown on this map

NATIONAL GEODETIC VERTICAL DATUM OF 1929
 ELEVATIONS SHOWN TO THE NEAREST METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS		
Meters	Feet	Miles		1	2	3
1	3.2808	1° 15'		4	5	
2	6.5617	1° 30'		6	7	8
3	9.8425	2° 00'				
4	13.1234	2° 30'				
5	16.4042	3° 00'				
6	19.6850	3° 30'				
7	22.9659	4° 00'				
8	26.2467	4° 30'				
9	29.5275	5° 00'				
10	32.8084	5° 30'				

To convert meters to feet multiply by 3.2808
 To convert feet to meters multiply by 0.3048

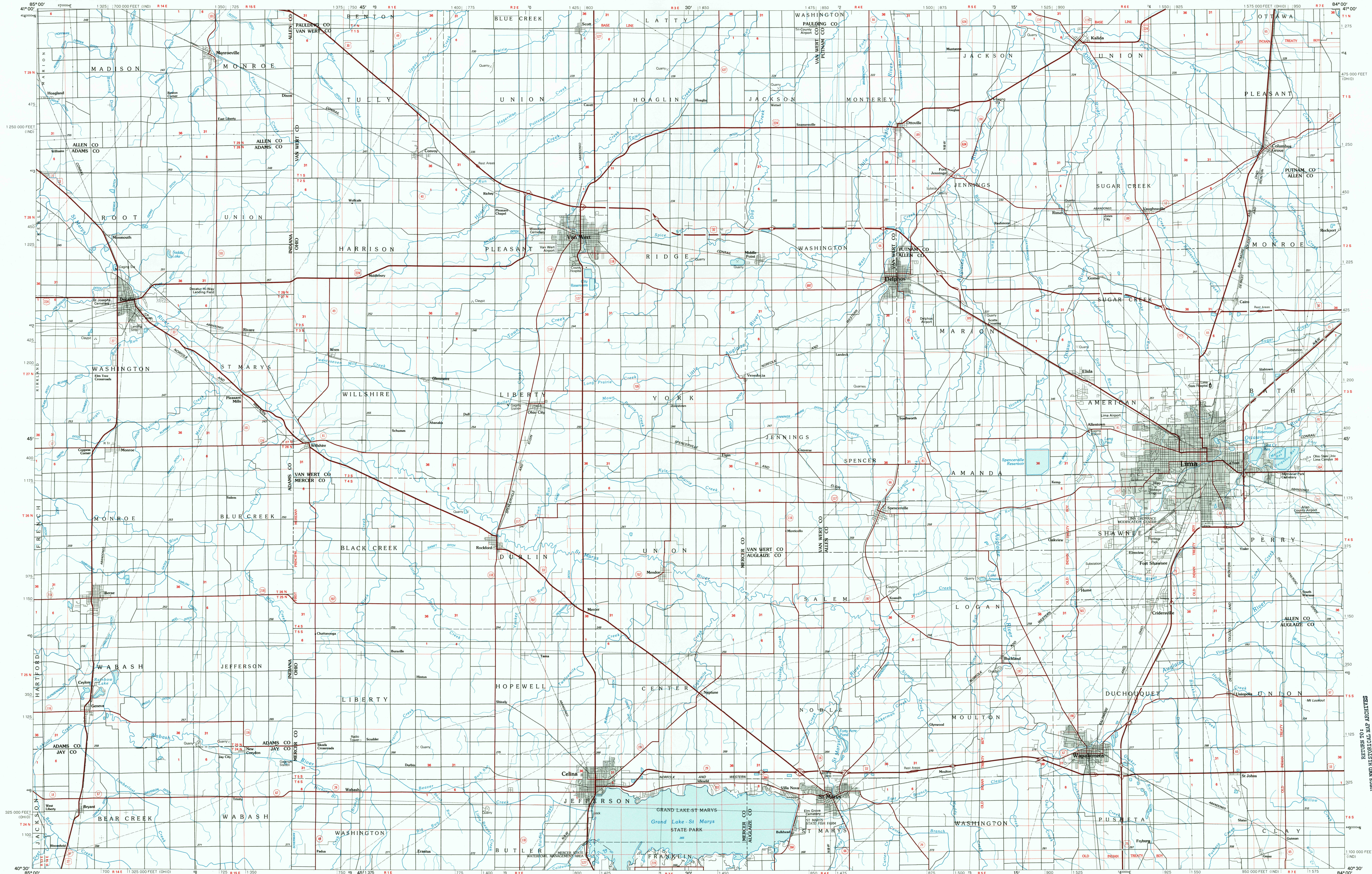
UTM grid convergence (IGN and 1983 magnetic declination (MAG) at center of map (degrees) is approximate

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Topographic Map Symbols

Primary highway, hard surface	Secondary highway, hard surface	Light duty road, principal street, hard or improved surface	Other road or street, trail	Road marker, Interstate, U.S. State	Railroad, standard gage, narrow gage	Bridge, overpass, underpass	Tunnel, road, railroad	Built up area, locality, elevation	Airport, landing field, landing strip	National boundary	State boundary	County boundary	National or State reservation boundary	Local grant boundary	U.S. public lands survey, range, township, section	Range, township, section line, pre-1848	Power transmission line, pipeline	Dam, dam with lock	Cemetery, building	Windmill, water well, spring	Mine shaft, old or new, mine, quarry, gravel pit	Campground, picnic area, U.S. location monument	Ruin, cliff dwelling	Distorted surface, strip mine, lava, sand	Contours, index, intermediate, supplementary	Bathymetric contours, index, intermediate	Stream, lake, perennial, intermittent	Ripids, large and small, falls, large and small	Area to be submerged, marsh, swamp	Land subject to controlled inundation, woodland	Soak, mangrove	Orchard, vineyard
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A pamphlet describing topographic maps is available on request



STORICAL MAP
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