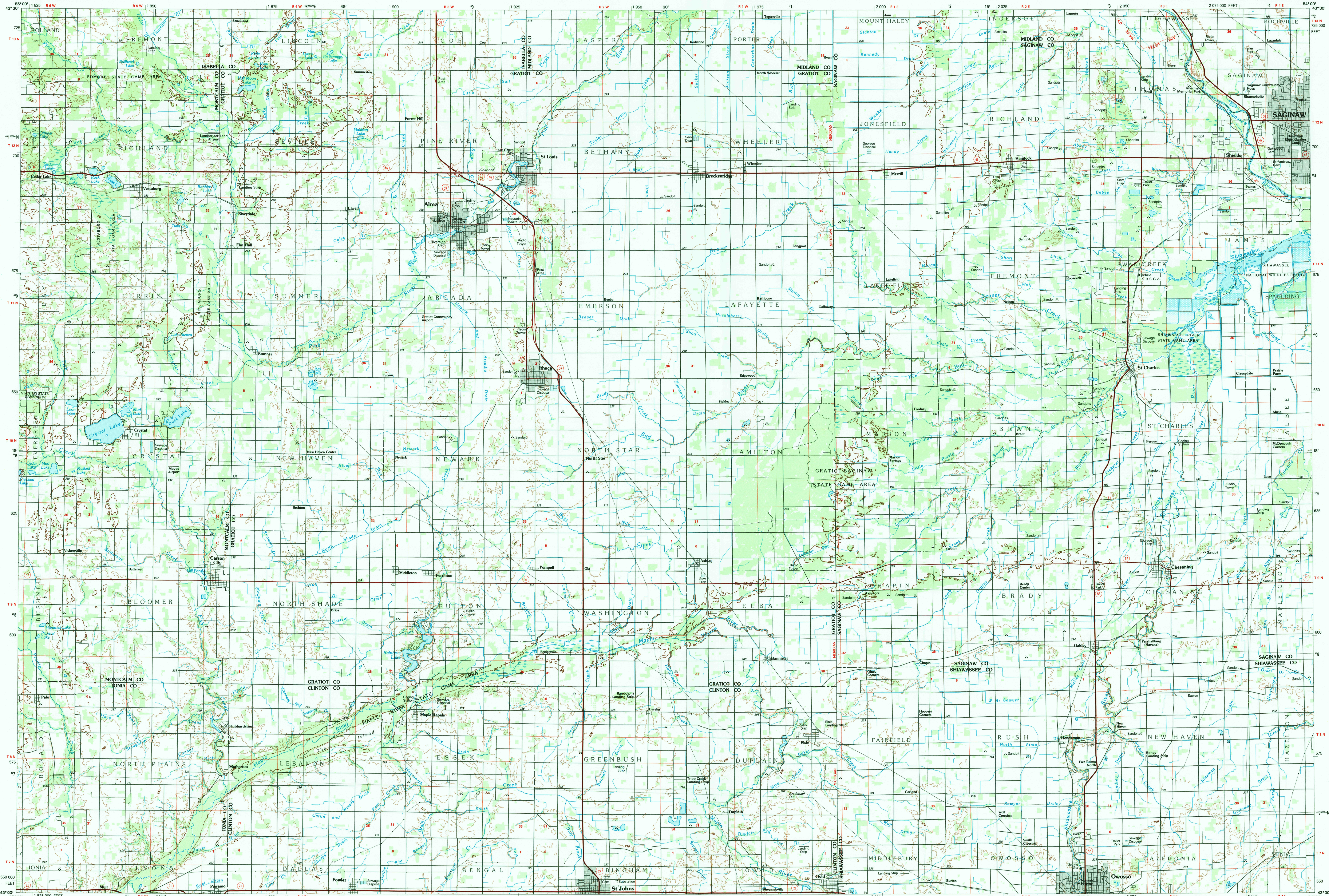
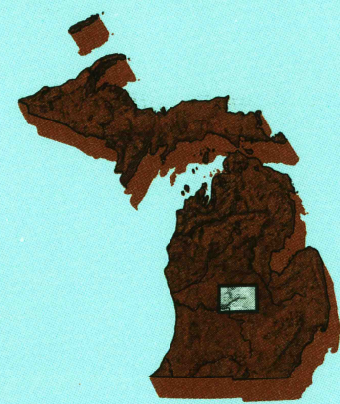


ALMA, MICHIGAN



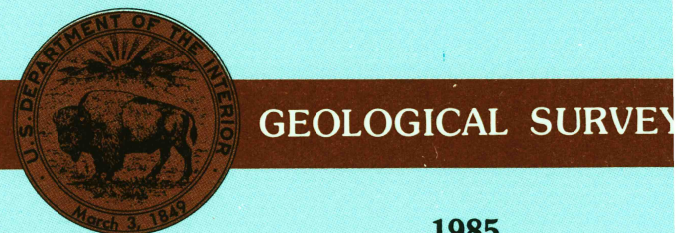
Alma
MICHIGAN

1:100 000-scale metric
topographic map



30 X 60 MINUTE QUADRANGLE
SHOWING

- Contours and elevations in meters
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names



1985
PHOTOINSPECTED 1988

Produced by the United States Geological Survey

Compiled from USGS 1:24 000-scale topographic maps dated 1965-1975. Planimetry revised from aerial photographs taken 1981 and other source data. Revised information not field checked. Map edited 1985

Projection and 10 000-meter grid, zone 16, Universal Transverse Mercator
25 000-foot grid ticks based on Michigan coordinate system, south zone
1927 North American Datum

To place on the predicted North American Datum 1983, move the projection lines 1 meter north and 2 meters west
There may be private inholdings within the boundaries of the National or State reservations shown on this map

Map photoinspected using 1986 and 1988 photographs
No major culture or drainage changes found
CONTOUR INTERVAL 10 METERS
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		1	2	3									
1	3.2808		1	2	3									
2	6.5617		4	5	6									
3	9.8425		7	8										
4	13.1232													
5	16.4042													
6	19.6850													
7	22.9659													
8	26.2467													
9	29.5276													
10	32.8084													
To convert meters to feet multiply by 3.2808		UTM grid convergence (GN) and 1985 magnetic declination (MN) at center of map Diagram is approximate	<table><tr><td>1 Big Rapids</td></tr><tr><td>2 Midland</td></tr><tr><td>3 Bay City</td></tr><tr><td>4 Cedar Springs</td></tr><tr><td>5 Flint</td></tr><tr><td>6 Grand Rapids</td></tr><tr><td>7 Lansing</td></tr><tr><td>8 Pontiac</td></tr></table>				1 Big Rapids	2 Midland	3 Bay City	4 Cedar Springs	5 Flint	6 Grand Rapids	7 Lansing	8 Pontiac
1 Big Rapids														
2 Midland														
3 Bay City														
4 Cedar Springs														
5 Flint														
6 Grand Rapids														
7 Lansing														
8 Pontiac														
To convert feet to meters multiply by 0.3048														

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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	
Route 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	
Land grant boundary	
U.S. public lands survey: range, township; section	
Range, township; section line; protracted	
Power transmission line; pipeline	
Dam; dam with lock	
Cemetery; building	
Windmill; water well; spring	
Mini check, add or cave; 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	
Rapid, large and small; falls, large and small	
Area to be submerged; marsh, swamp	
Land subject to controlled inundation; woodland	
Scrub; mangrove	
Orchard; vineyard	

A pamphlet describing topographic maps is available on request



ALMA, MICHIGAN
43084-A1-TM-100
1985
PHOTOINSPECTED 1988