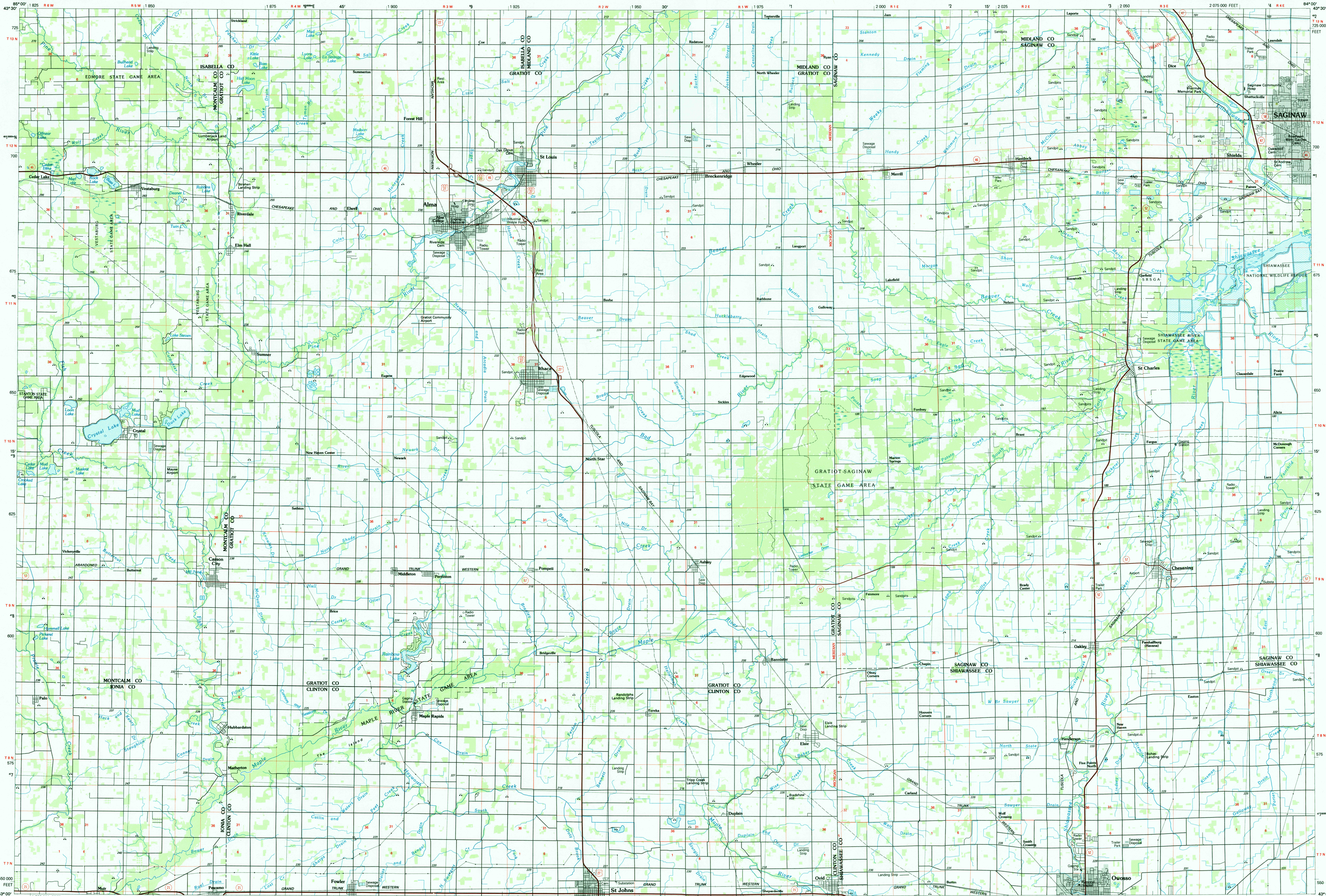
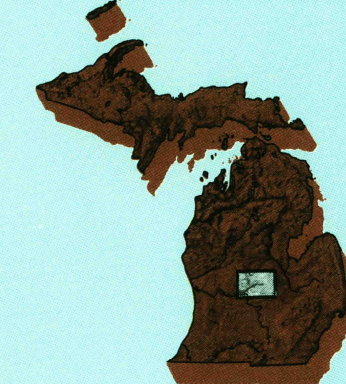


ALMA, MICHIGAN

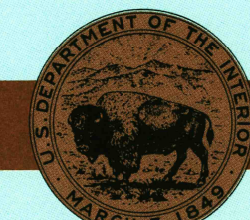
Alma
MICHIGAN

1:100 000-scale
planimetric map



**30 X 60 MINUTE QUADRANGLE
SHOWING**

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



GEOLOGICAL SURVEY

1985

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

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

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS:

CONVERSION TABLE	
Meters	Feet
1	3.2808
2	6.5617
3	9.8425
4	13.1234
5	16.4042
6	19.6850
7	22.9659
8	26.2467
9	29.5276
10	32.8084

UTM grid convergence (GN) and 1985 magnetic declination (MN) at center of map
Diagram is approximate

ADJOINING MAPS			
1	2	3	4
			5
6	7	8	

To convert meters to feet multiply by 3.2808

To convert feet to meters multiply by 0.3048

1 Bay Rapids
2 Midland
3 Bay City
4 Cedar Springs
5 Ellet
6 Grand Rapids
7 Lanning
8 Pontiac

FOR SALE BY U. S. GEOLOGICAL SURVEY
RESTON, VIRGINIA 22092

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 gauge; narrow gauge | |
| 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 | |
| Mine shaft; adit or cave; mine, quarry; gravel pit | |
| Campground; picnic area; U.S. location monument | |
| Rains; cliff dwelling | |
| Disturbed soil: spring, lava, sand | |
| Contours: index; intermediate; supplementary | |
| Bathymetric contours: index; intermediate | |
| Stream, lake; perennial; intermittent | |
| Rapids, 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-PL-100

1985

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