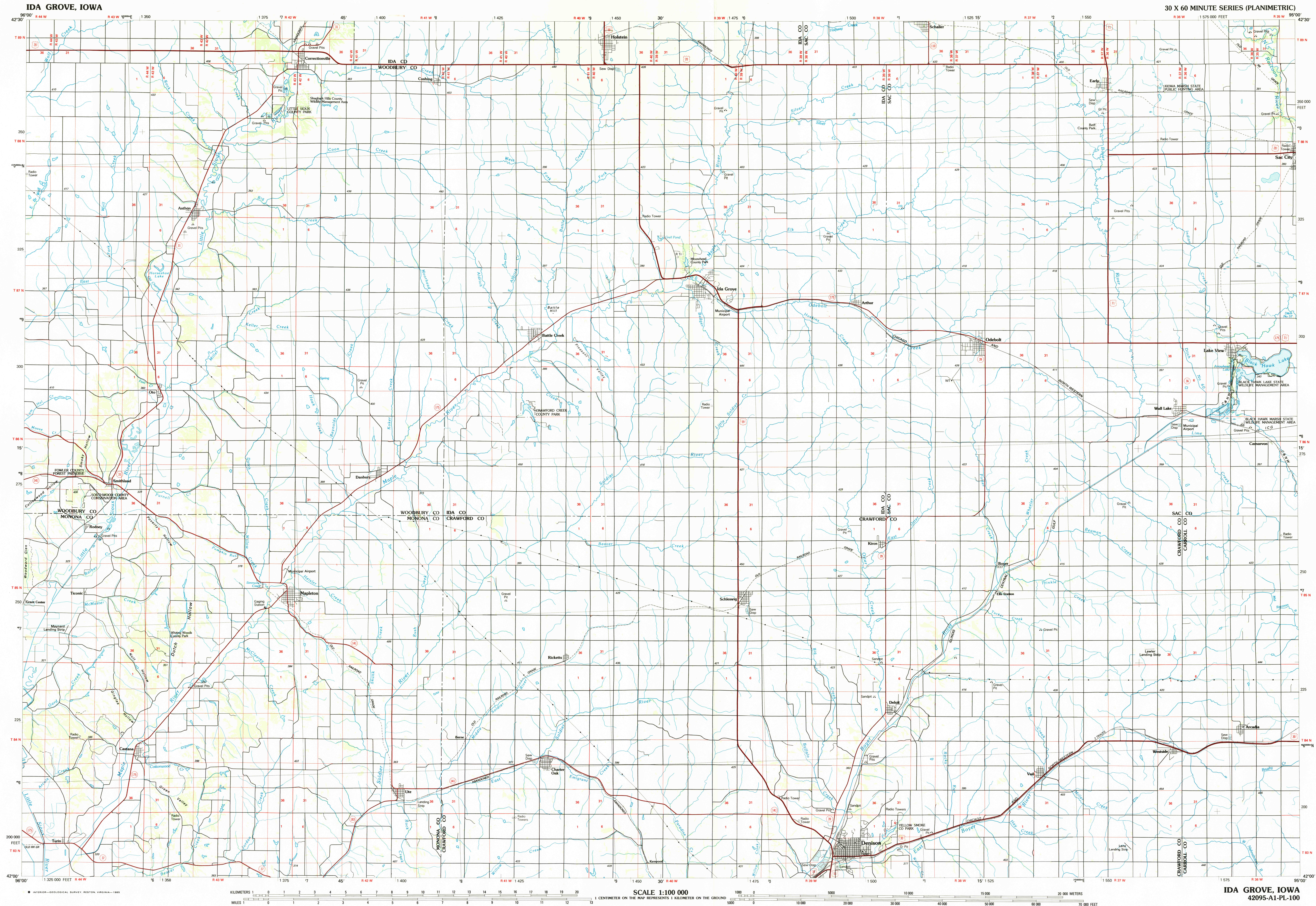




Ida Grove

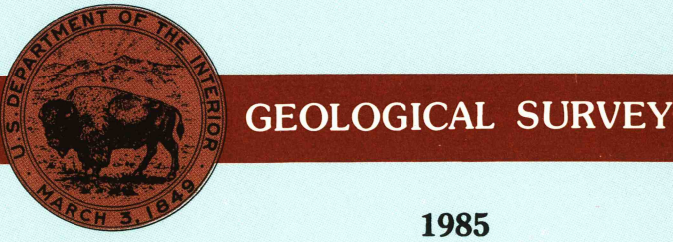
IOWA

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



Produced by the United States Geological Survey

Compiled from USGS 1:24 000-scale topographic maps dated 1967-1982. Planimetry revised from aerial photographs taken 1983 and other source data. Revised information not field checked. Map edited 1985.

Projection and 10 000-meter grid, zone 15, Universal Transverse Mercator

25 000-foot grid ticks based on Iowa coordinate system, north zone

1927 North American Datum

To place on the predicted North American Datum 1983, move the projection lines 5 meters north and 23 meters east

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	22.9658
8	26.2467
9	29.5275
10	32.8084

To convert meters to feet multiply by 3.2808

To convert feet to meters multiply by 0.3048

DECLINATION DIAGRAM

UTM grid convergence (CON) and 1983 magnetic declination (MAG) at center of map

Diagram is approximate

ADJOINING MAPS

1	2	3
1 Sioux City North	2 Storm Lake	3 Humboldt
4 Sioux City South	5 Carroll	6 Blair
7 Harlan	8 Guthrie Center	

FOR SALE BY U.S. GEOLOGICAL SURVEY
DENVER, COLORADO 80225, OR 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 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: projected
 - Power transmission line: pipeline
 - Dam: dam with lock
 - Cemetery, building
 - Windmill, water well, spring
 - Mine shaft, adit or cave, mine, quarry, gravel pit
 - Camaground, picnic area, U.S. location monument
 - Ruins, cliff dwelling
 - Distorted surface: strip mine, lava, sand
 - Contours: index, intermediate, supplementary
 - Bathymetric contours: index, intermediate
 - Stream, lake, pond, 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