

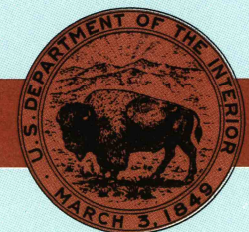
**Guthrie Center**  
**IOWA**

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



GEOLOGICAL SURVEY

1984

Produced by the United States Geological Survey  
Compiled from USGS 1:24 000 and 1:62 500 scale topographic maps dated 1957-1982. Planimetry revised from aerial photographs taken 1963 and 1974. Data revised. Revised information not field checked. Map edited 1984  
Projection and 10 000-meter grid, zone 15,  
Universal Transverse Mercator  
2500-foot grid ticks based on Iowa coordinate system, south and north zones  
1927 North American Datum  
To place on the predicted North American Datum 1983, move the projection lines 4 meters north and 20 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 STANDARD

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

**DECLINATION DIAGRAM**

UTM grid convergence (GN) and 1984 magnetic declination (MN) at center of map. Diagram is approximate.

1	2	3
4	5	
6	7	8

1 Ida Grove  
2 Carroll  
3 Ames  
4 Harlan  
5 Des Moines  
6 Omaha  
7 Creston  
8 Indianola

To convert meters to feet multiply by 3.2808

To convert feet to meters multiply by 0.3048

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                                 |  |
| Study marker: Interstate, U.S. State                        |  |
| Overpass; grade-separated; narrow gage                      |  |
| Bridge; overpass; underpass                                 |  |
| Unimul; road; railroad                                      |  |
| Altitude; elevation   |  |
| Spot boundary, landing field, landing strip                 |  |
| National boundary   |  |
| County boundary   |  |
| County or State reservation boundary                        |  |
| and grant boundary  |  |
| U.S. public lands survey: range, township, section          |  |
| Range, township, section line: protracted                   |  |
| Protraction reservation line: pipeline                      |  |
| Sam, dam with lock  |  |
| Cemetery; building  |  |
| Vindimil; water well; spring                                |  |
| Airne shaft; ash or cave; mine, quarry, gravel pit          |  |
| Ampanagrup; pitnic area; U.S. location monument             |  |
| Quarry; dwelling  |  |
| Disturbed surface: strip mine, lava, sand                   |  |
| Contours: index, intermediate, supplementary                |  |
| Mathematic contours: index, intermediate                    |  |
| Stream, lake; perennial; intermittent                       |  |
| Apicic, large and small; lake and lake small                |  |
| Area to be submerged; marsh, swamp                          |  |
| Subject to controlled inundation; woodland                  |  |
| Canals; mangrove  |  |
| Orchard; vineyard   |  |

A pamphlet describing topographic maps is available on request.

RETURN TO:  
USGS NHD HISTORICAL MAP ARCHIVES

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