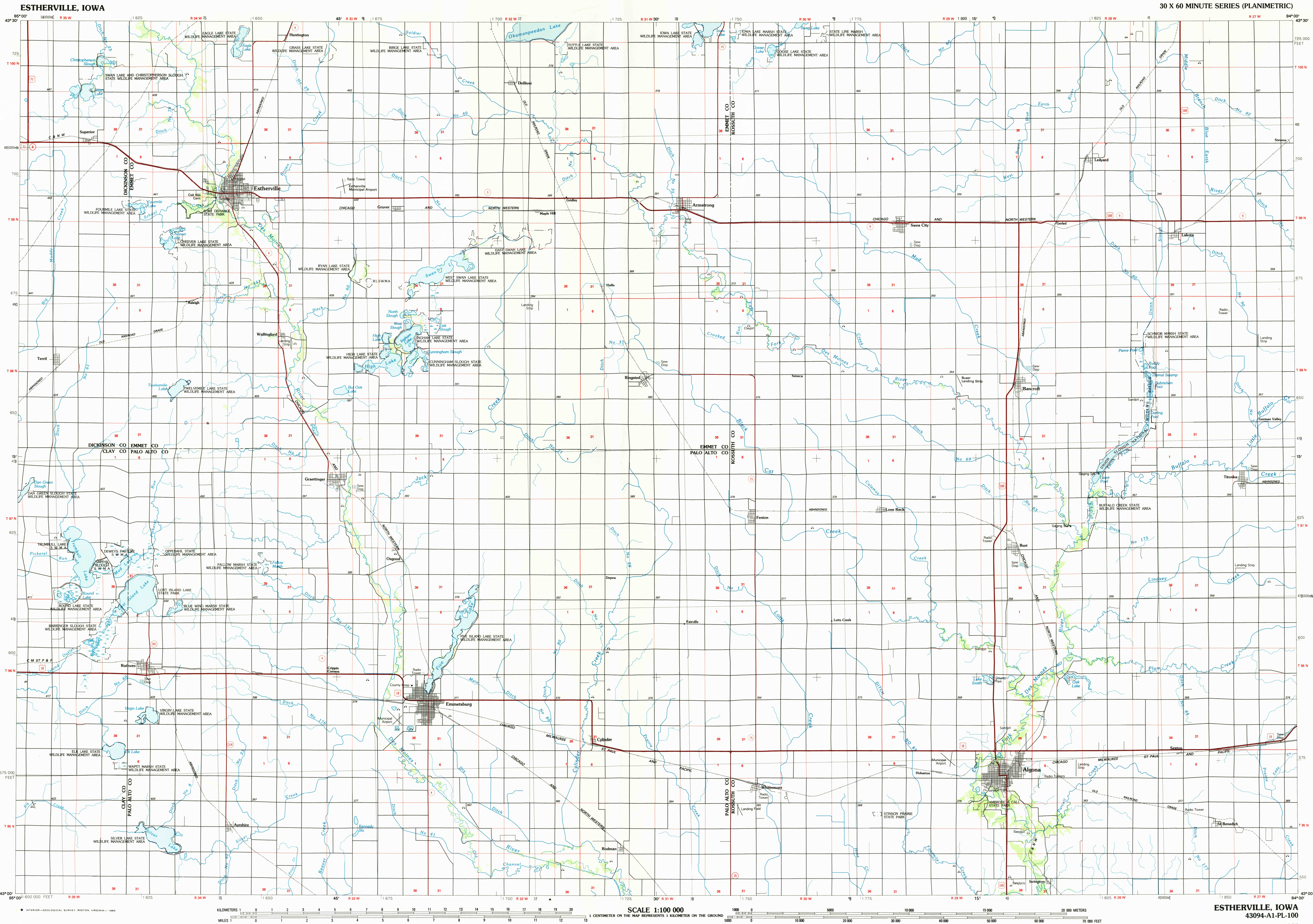




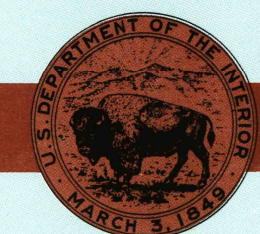
Estherville IOWA

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



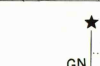
GEOLOGICAL SURVEY

1985

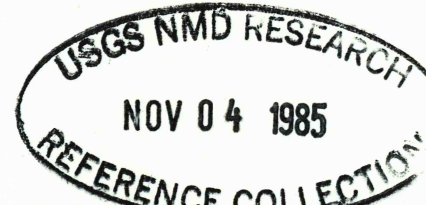
Produced by the United States Geological Survey
Compiled from USGS 1:250 000-scale topographic maps dated 1972-1980. Planimetry revised from aerial photographs taken 1973-1980 and other source data. Revised information not field checked. Map edited 1985
Projection and 10 000-meter grid, zone 15, Universal 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 6 meters north and 21 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		DECLINATION DIAGRAM		ADJOINING MAPS			
Meters	Feet			1	2	3	
1	3.2808			1	2	3	
2	6.5617			4	5		
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		UTM grid convergence (GC) and 1983 magnetic declination (MN) at center of map Diagram is approximate		1	2	3	
To convert feet to meters multiply by 0.3048				4	5		

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 gauge, narrow gauge	
Bridges: 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	
Run; cliff dwelling	
Distorted surface: strip mine, 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	
Shrub, mangrove	
Orchard; vineyard	

A pamphlet describing topographic maps is available on request

ESTHERVILLE, IOWA
43094-A1-PL-100

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