



Jefferson County

Wisconsin County Coordinate System

Projection: Transverse Mercator
Design Elevation: 274.321 meters (900 feet) [1040 high, 780 low]
Geoidal Separation: - 34.51 meters
Origin Longitude: 88° 46' 30"
Origin Latitude: 41° 28' 20"
False Easting: 263,347.7267 meters (864,000 feet)
False Northing: 0.00 meters (0.00 feet)
Scale Factor: 0.999997

Approximate Ground to Grid Ratios

Rural (worst).....1:112,000.....T6N, R14E, Sec 18, high point
Urban.....1:320,000.....Jefferson
1:450,000.....Watertown, Whitewater
1:270,000.....Fort Atkinson
1:285,000.....Lake Mills
1:175,000.....Waterloo

Approximate western most coordinate (X) = 800,000 feet
Approximate southern most coordinate (Y) = 500,000 feet

Design Comments:

Jefferson and Dodge County have the same projection system. In Dodge County the urban areas are close to the Mercator north-south line. In Jefferson County the Rock River runs approximately north to south with most of the urban areas lying near the river. Dodge and Jefferson counties were combined because their separately developed transverse Mercator projections were within six miles of each other.

(Note: All feet units for the Wisconsin County Coordinate System are U.S. Survey Foot. Please see further discussion of this issue on page 6 of the Summary of Terms section of this handbook.)