



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.)