



Rusk County

Wisconsin County Coordinate system

Projection: Transverse Mercator
Design Elevation: 365.761 meters (1200 feet) [1720 high, 1060 low]
Geoidal Separation: - 30.01 meters
Origin Longitude: 91° 04' 00"
Origin Latitude: 43° 55' 10"
False Easting: 250,546.1011 meters (822,000 feet)
False Northing: 0.00 meters (0.00 feet)
Scale Factor: 0.999997

Approximate Ground to Grid Ratios

Rural (worst).....1:48,000Southwest corner of the county
Urban.....1:500,000.....Ladysmith, Hawkins, Sheldon
1:200,000.....Bruce
1:160,000.....Weyerhauser

Approximate western most coordinate (X) = 700,000 feet
Approximate southern most coordinate (Y) = 500,000 feet

Design Comments:

A transverse Mercator projection minimizes the distortions in the city of Ladysmith, the transportation routes, and rural areas. The extreme high and low elevations occur in the western ten miles of the county. The design balances them and fits the remainder of the county well.

(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.)