



Marathon County

Wisconsin County Coordinate System

Projection: Lambert Conformal Conic
 Design Elevation: 396.24 meters (1300 feet) [1920 high, 1115 low]
 Geoidal Separation: - 32.64 meters
 Origin Longitude: 89° 46' 12"
 Origin Latitude: 44° 24' 20"
 False Easting: 74,676.14935 meters (245,000 feet)
 False Northing: 0.00 meters (0.00 feet)
 North Latitude: 45° 03' 23"
 South Latitude: 44° 44' 43"

Approximate Ground to Grid Ratios

Rural (worst)1:30,000Rib Mountain Summit (1920 ft)
 Urban1:500,000Schofield, Rothschild, Spenser, Stratford
 1:87,000Wausau (highest point in Wausau)
 1:210,000Edgar
 1:120,000Marathon City
 1:170,000Mosinee

Approximate western most coordinate (X) = 102,000 feet
 Approximate southern most coordinate (Y) = 101,000 feet

Design Comments:

The Lambert projection models the high and low elevation differences better than a transverse Mercator in Marathon County. There is some exception to average fit in the County around Rib Mountain. This projection was completed in January 1992.

(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.)