



Green County

Wisconsin County Coordinate System

Projection: Lambert Conformal Conic
Design Elevation: 304.801 meters (1000 feet) [1160 high, 760 low]
Geoidal Separation: - 33.32 meters
Origin Longitude: 89° 50' 20"
Origin Latitude: 42° 13' 30"
False Easting: 170,078.7402 meters (558,000 feet)
False Northing: 0.00 meters (0.00 feet)
North Latitude: 42° 47' 20"
South Latitude: 42° 29' 10"

Approximate Ground to Grid Ratios

Rural (worst)1:94,000low point on Sugar River
Urban1:106,000.....Monroe
1:166,000.....New Glarus
1:260,000.....Brooklyn
1:130,000.....Brodhead

Approximate western most coordinate (X) = 558,000 feet
Approximate southern most coordinate (Y) = 100,000 feet

Design Comments:

Green and Lafayette County have the same projection system. Both the Lambert and transverse Mercator projections balanced the elevation differences in the counties well. The Lambert provided a better fit for the urban areas. The low points in Green County are in the southeastern and southwestern corners.

(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.)