



Door County

Wisconsin County Coordinate System

Projection: Transverse Mercator
Design Elevation: 213.360 meters (700 feet) [860 high, 580 low]
Geoidal Separation: - 36.44 meters
Origin Longitude: 87° 16' 20"
Origin Latitude: 44° 24' 00"
False Easting: 158,801.1176 meters (521,000 feet)
False Northing: 0.00 meters (0.00 feet)
Scale Factor: 0.999991

Approximate Ground to Grid Ratios

Rural (worst)1:67,0005 miles North of Sturgeon Bay
Urban1:105,000.....Sturgeon
1:110,000.....Ephraim
1:310,000.....Egg Harbor

Approximate western most coordinate (X) = 400,000 feet
Approximate southern most coordinate (Y) = 100,000 feet

Design Comments:

The Door County transverse Mercator projection fits the lake shore well at 1:250,000 and minimizes the inland distortion. A skewed projection was tried, but this did not significantly improve the rural or urban distortions.

(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.)