



Lincoln County

Wisconsin County Coordinate System

Projection: Transverse Mercator
Design Elevation: 426.721 meters (1400 feet) [1920 high, 1220 low]
Geoidal Separation: - 31.90 meters
Origin Longitude: 89° 44' 00"
Origin Latitude: 44° 50' 40"
False Easting: 116,129.0323 meters (381,000 feet)
False Northing: 0.00 meters (0.00 feet)
Scale Factor: 0.999998

Approximate Ground to Grid Ratios

Rural (worst)1:45,000Lookout Mountain
Urban1:170,000Merrill
1:200,000.....Tomahawk

Approximate western most coordinate (X) = 300,000 feet
Approximate southern most coordinate (Y) = 100,000 feet

Design Comments:

The Wisconsin River flows from north to south through the center of the county. There is also a general rise in elevation east and west from the river. The transverse Mercator projection was selected over a Lambert conformal conic because the worst rural ratios were better using the Mercator.

(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.)