



# Polk County

Wisconsin County Coordinate System

Projection: Transverse Mercator  
 Design Elevation: 304.801 meters (1000 feet) [1400 high, 680 low]  
 Geoidal Separation: - 28.13 meters  
 Origin Longitude: 92° 38' 00"  
 Origin Latitude: 44° 39' 40"  
 False Easting: 141,732.2834 meters (465,000 feet)  
 False Northing: 0.00 meters (0.00 feet)  
 Scale Factor: 1.00000000

## Approximate Ground to Grid Ratios

Rural (worst).....1:58,000 .....low points in NE,SW, & NW corners  
 Urban.....1:156,000 .....Osceola  
                   1:95,000 .....Frederick, Luck, Centuria  
                   1:181,000 .....Balsalm Lake  
                   1:83,000 .....St Croix Falls  
                   1:400,000 .....Clear lake, Amery

Approximate western most coordinate (X) = 400,000 feet  
 Approximate southern most coordinate (Y) = 200,000 feet

## Design Comments:

Polk County rises in elevation from west to east. The Mercator central meridian was shifted to the west to provide the best fit for the county.

*(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.)*