



# Shawano County

Wisconsin County Coordinate System

Projection: Transverse Mercator  
Design Elevation: 304.801 meters (1000 feet) [1440 high, 780 low]  
Geoidal Separation: - 35.75 meters  
Origin Longitude: 88° 36' 20"  
Origin Latitude: 44° 02' 10"  
False Easting: 262,433.3249 meters (861,000 feet)  
False Northing: 0.00 meters (0.00 feet)  
Scale Factor: 0.999990

## Approximate Ground to Grid Ratios

Rural (worst).....1:78,000 .....Southwest corner of the County  
Urban.....1:500,000 .....Shawano  
1:230,000.....Bonduel  
1:120,000.....Mattoon  
1:190,000.....Wittenberg, Tigerton

Approximate western most coordinate (X) = 700,000 feet  
Approximate southern most coordinate (Y) = 200,000 feet

## Design Comments:

Both a Lambert conformal conic and the transverse Mercator fit the overall terrain in the county. The Mercator was used because the city of Shawano and the extreme highs and lows were a better fit with this projection.

*(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.)*