



Dane County

Wisconsin County Coordinate System

Projection: Lambert Conformal Conic
Design Elevation: 304.801 meters (1000 feet) [1480 high, 760 low]
Geoidal Separation: - 34.18 meters
Origin Longitude: 89° 25' 20"
Origin Latitude: 41° 45' 00"
False Easting: 247,193.2944 meters (811,000 feet)
False Northing: 0.00 meters (0.00 feet)
North Latitude: 43° 13' 50"
South Latitude: 42° 54' 30"

Approximate Ground to Grid Ratios

Rural (worst)1:37,000Blue Mounds summit
Urban1:500,000Oregon, Madison, Middleton, Cross Plains
1:300,000Waunakee, Verona, DeForest, Marshall
1:180,000Stoughton
1:86,000West Side Catholic Seminary Hill

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

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

Design Comments:

The transverse Mercator projection fits the extreme elevation differences better than the Lambert, however the Lambert projection fit the overall terrain and the urban areas with less distortion than 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.)