



Sauk County

Wisconsin County Coordinate System

Projection: Transverse Mercator
Design Elevation: 304.801 meters (1000 feet) [1600 high, 700 low]
Geoidal Separation: - 34.52 meters
Origin Longitude: 89° 54' 00"
Origin Latitude: 42° 49' 10"
False Easting: 185,623.5713 meters (609,000 feet)
False Northing: 0.00 meters (0.00 feet)
Scale Factor: 0.999995

Approximate Ground to Grid Ratios

Rural (worst).....1:34,000Sauk Point, elev 1600 ft.
Urban.....1:500,000Baraboo
1:500,000.....Reedsburg, Wis Dells, Lake Delton
1:100,000.....Prairie du Sac, Sauk City
1:200,000.....Plain
1:93,000.....Spring Green

Approximate western most coordinate (X) = 500,000 feet
Approximate southern most coordinate (Y) = 120,000 feet

Design Comments:

The communities fit the Mercator projection better than a Lambert conformal conic projection because the cities are at lower elevations and lie closer to the center of the Mercator projection. The cities are on the central meridian. The median elevation was about 960 feet.

(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.)