



Eau Claire County

Wisconsin County Coordinate System

Projection: Lambert Conformal Conic
Design Elevation: 274.321 meters (900 feet) [1320 high, 740 low]
Geoidal Separation: - 30.94 meters
Origin Longitude: 91° 17' 20"
Origin Latitude: 44° 02' 50"
False Easting: 120,091.4402 meters (394,000 feet)
False Northing: 0.00 meters (0.00 feet)
North Latitude: 45° 00' 50"
South Latitude: 44° 43' 50"

Approximate Ground to Grid Ratios

Rural (worst).....1:55,000T27N, R6W, Sec 17, high point
Urban.....1:150,000Eau Claire
1:500,000.....Fairchild, Augusta
1:230,000.....Fall Creek

Approximate western most coordinate (X) = 300,000 feet
Approximate southern most coordinate (Y) = 200,000 feet

Design Comments:

The Lambert projection models the variations in high and low elevations for Eau Claire County better than a transverse Mercator. The city of Eau Claire was also optimized, while maintaining the design criteria for the rural areas, particularly the southern half of 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.)