County Semi-major

Axis (meters)

Semi-minor

Axis (meters)

Southern

Standard

Parallel

Northern

Standard

Parallel

Longitude

of Origin

Latitude

of Grid

Origin

Ellipsoid

Height

(meters)

Scale Factor

(PPM) \*

Anoka 6378418.941 6357033.310 45 04 00 45 22 00 -93 16 00 45 02 07 281.941 44.20428724

Becker 6378586.581 6357200.388 46 47 00 47 05 00 -95 41 00 46 43 04 449.581 70.48782427

Beltrami/North \*\* 6378505.809 6357119.886 48 07 00 48 28 00 -95 01 00 48 01 12 368.809 57.82393824

Beltrami/South 6378544.823 6357158.770 47 30 00 47 55 00 -94 51 00 47 24 45 407.823 63.94077142

Benton 6378490.569 6357104.698 45 35 00 45 47 00 -94 03 00 45 33 33 353.569 55.43452579

Big Stone 6378470.757 6357084.952 45 13 00 45 32 00 -96 03 00 45 09 08 333.757 52.32828959

Blue Earth 6378403.701 6357018.121 43 56 00 44 22 00 -94 16 00 43 50 53 266.701 41.81487478

Brown 6378434.181 6357048.499 44 10 00 44 28 00 -94 44 00 44 06 29 297.181 46.59369970

Carlton 6378454.907 6357069.155 46 28 00 46 44 00 -92 41 00 46 25 02 317.907 49.84323792

Carver 6378400.653 6357015.083 44 41 00 44 54 00 -93 46 00 44 38 23 263.653 41.33699229

Cass/North 6378567.378 6357181.249 46 55 00 47 19 00 -94 13 00 46 48 13 430.378 67.47707050

Cass/South 6378546.957 6357160.896 46 16 00 46 44 00 -94 28 00 46 09 23 409.957 64.27535188

Chippewa 6378476.853 6357091.028 44 50 00 45 12 00 -95 51 00 44 45 10 339.853 53.28405458

Chisago 6378411.321 6357025.715 45 20 00 45 40 00 -93 05 00 45 17 47 274.321 43.00958101

Cook/North 6378647.541 6357261.143 47 56 00 48 10 00 -90 15 00 47 53 00 510.541 80.04547409

Cook/South 6378647.541 6357261.143 47 33 00 47 49 00 -90 15 00 47 26 20 510.541 80.04547409

Cottonwood 6378514.953 6357129.000 43 54 00 44 10 00 -94 55 00 43 50 53 377.953 59.25758572

Crow Wing 6378546.957 6357160.896 46 16 00 46 44 00 -94 28 00 46 09 23 409.957 64.27535188

Dakota 6378421.989 6357036.347 44 31 00 44 55 00 -93 19 00 44 28 19 284.989 44.68216973

Dodge 6378481.425 6357095.584 43 53 00 44 08 00 -92 55 00 43 50 02 344.425 54.00087831

Douglas 6378518.001 6357132.038 45 48 00 46 03 00 -96 03 00 45 45 32 381.001 59.73546821

Faribault 6378521.049 6357135.075 43 34 00 43 48 00 -93 57 00 43 30 00 384.049 60.21335070

Fillmore 6378464.661 6357078.876 43 33 00 43 48 00 -92 05 00 43 30 00 327.661 51.37252461

Freeborn 6378521.049 6357135.075 43 34 00 43 48 00 -93 57 00 43 30 00 384.049 60.21335070

Goodhue 6378434.181 6357048.499 44 18 00 44 40 00 -93 08 00 44 11 41 297.181 46.59369970

Grant 6378518.001 6357132.038 45 48 00 46 03 00 -96 03 00 45 45 32 381.001 59.73546821

Hennepin 6378418.941 6357033.310 44 53 00 45 08 00 -93 23 00 44 47 28 281.941 44.20428724

Houston 6378436.619 6357050.928 43 34 00 43 48 00 -91 28 00 43 30 00 299.619 46.97594298

Isanti 6378411.321 6357025.715 45 20 00 45 40 00 -93 05 00 45 17 47 274.321 43.00958101

Itasca/North 6378574.389 6357188.237 47 34 00 47 49 00 -93 44 00 47 30 00 437.389 68.57629430

Itasca/South 6378574.389 6357188.237 47 05 00 47 25 00 -93 44 00 47 01 35 437.389 68.57629430

Jackson 6378521.049 6357135.075 43 34 00 43 48 00 -93 57 00 43 30 00 384.049 60.21335070

Kanabec 6378472.281 6357086.471 45 49 00 46 20 00 -92 54 00 45 43 48 335.281 52.56723084

Kandiyohi 6378498.189 6357112.292 44 58 00 45 20 00 -94 45 00 44 53 29 361.189 56.62923202

Kittson 6378449.421 6357063.688 48 36 00 48 56 00 -96 09 00 48 32 38 312.421 48.98311215

Koochiching 6378525.621 6357139.632 48 00 00 48 37 00 -93 45 00 47 50 45 388.621 60.93017444

Lac Qui Parle 6378476.853 6357091.028 44 50 00 45 12 00 -95 51 00 44 45 10 339.853 53.28405458

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Lake of the

Woods/North 6378466.185 6357080.395 49 11 00 49 20 00 -94 59 00 49 09 00 329.185 51.61146586

Lake of the

Woods/South 6378496.665 6357110.773 48 27 00 48 53 00 -94 53 00 48 21 58 359.665 56.39029077

Le Sueur 6378434.181 6357048.499 44 18 00 44 40 00 -93 08 00 44 11 41 297.181 46.59369970

Lincoln 6378643.579 6357257.195 44 17 00 44 37 00 -96 16 00 44 11 48 506.579 79.42428957

Lyon 6378559.758 6357173.655 44 15 00 44 35 00 -95 51 00 44 11 44 422.758 66.28236427

McLeod 6378414.369 6357028.753 44 32 00 44 55 00 -94 38 00 44 27 22 277.369 43.48746350

Mahnomen 6378586.581 6357200.388 47 12 00 47 27 00 -95 49 00 47 09 06 449.581 70.48782427

Marshall 6378441.801 6357056.093 48 14 00 48 29 00 -96 23 00 48 10 23 304.801 47.78840592

Martin 6378521.049 6357135.075 43 34 00 43 48 00 -93 57 00 43 30 00 384.049 60.21335070

Meeker 6378498.189 6357112.292 44 58 00 45 20 00 -94 45 00 44 53 29 361.189 56.62923202

Morrison 6378502.761 6357116.849 45 51 00 46 16 00 -94 12 00 45 46 26 365.761 57.34605575

Mower 6378521.049 6357135.075 43 34 00 43 48 00 -93 57 00 43 30 00 384.049 60.21335070

Murray 6378617.061 6357230.765 43 55 00 44 10 00 -95 46 00 43 50 53 480.061 75.26664918

Nicollet 6378403.701 6357018.121 43 56 00 44 22 00 -94 16 00 43 50 53 266.701 41.81487478

Nobles 6378624.681 6357238.360 43 34 00 43 48 00 -95 57 00 43 30 00 487.681 76.46135541

Norman 6378468.623 6357082.825 47 12 00 47 27 00 -96 27 00 47 09 02 331.623 51.99370913

Olmsted 6378481.425 6357095.584 43 53 00 44 08 00 -92 55 00 43 50 02 344.425 54.00087831

Ottertail 6378525.621 6357139.632 46 11 00 46 39 00 -95 43 00 46 06 23 388.621 60.93017444

Pennington 6378445.763 6357060.042 47 36 00 48 05 00 -96 22 00 47 29 56 308.763 48.40959045

Pine 6378472.281 6357086.471 45 49 00 46 20 00 -92 54 00 45 43 48 335.281 52.56723084

Pipestone 6378670.401 6357283.927 43 53 00 44 09 00 -96 15 00 43 50 57 533.401 83.62959278

Polk 6378445.763 6357060.042 47 36 00 48 05 00 -96 22 00 47 29 56 308.763 48.40959045

Pope 6378502.761 6357116.849 45 21 00 45 42 00 -95 09 00 45 16 58 365.761 57.34605575

Ramsey 6378418.941 6357033.310 44 53 00 45 08 00 -93 23 00 44 47 28 281.941 44.20428724

Red Lake 6378445.763 6357060.042 47 36 00 48 05 00 -96 22 00 47 29 56 308.763 48.40959045

Redwood 6378438.753 6357053.055 44 16 00 44 34 00 -95 14 00 44 11 41 301.753 47.31052343

Renville 6378414.369 6357028.753 44 32 00 44 55 00 -94 38 00 44 27 22 277.369 43.48746350

Rice 6378434.181 6357048.499 44 18 00 44 40 00 -93 08 00 44 11 41 297.181 46.59369970

Rock 6378624.681 6357238.360 43 34 00 43 48 00 -95 57 00 43 30 00 487.681 76.46135541

Roseau 6378449.421 6357063.688 48 36 00 48 56 00 -96 09 00 48 32 38 312.421 48.98311215

St Louis/North 6378543.909 6357157.859 47 59 00 48 32 00 -92 27 00 47 50 00 406.909 63.79746939

St Louis/ Central 6378605.783 6357219.525 47 20 00 47 45 00 -92 27 00 47 15 00 468.783 73.49842125

St Louis/South 6378540.861 6357154.821 46 47 00 47 08 00 -92 27 00 46 39 00 403.861 63.31958690

Scott 6378421.989 6357036.347 44 31 00 44 55 00 -93 19 00 44 28 19 284.989 44.68216973

Sherburne 6378443.325 6357057.612 45 02 00 45 28 00 -93 53 00 44 58 39 306.325 48.02734717

Sibley 6378414.369 6357028.753 44 32 00 44 55 00 -94 38 00 44 27 22 277.369 43.48746350

Stearns 6378502.761 6357116.849 45 21 00 45 42 00 -95 09 00 45 16 58 365.761 57.34605575

Steele 6378481.425 6357095.584 43 53 00 44 08 00 -92 55 00 43 50 02 344.425 54.00087831

Stevens 6378502.761 6357116.849 45 21 00 45 42 00 -95 09 00 45 16 58 365.761 57.34605575

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Swift 6378470.757 6357084.952 45 13 00 45 32 00 -96 03 00 45 09 08 333.757 52.32828959

Todd 6378548.481 6357162.415 45 52 00 46 17 00 -94 54 00 45 46 24 411.481 64.51429312

Traverse 6378463.746 6357077.964 45 38 00 45 58 00 -96 33 00 45 35 08 326.746 51.22906579

Wabasha 6378426.561 6357040.904 44 09 00 44 25 00 -92 16 00 44 06 25 289.561 45.39899347

Wadena 6378546.957 6357160.896 46 16 00 46 44 00 -94 28 00 46 09 23 409.957 64.27535188

Waseca 6378481.425 6357095.584 43 53 00 44 08 00 -92 55 00 43 50 02 344.425 54.00087831

Watonwan 6378514.953 6357129.000 43 54 00 44 10 00 -94 55 00 43 50 53 377.953 59.25758572

Winona 6378453.688 6357067.940 43 54 00 44 08 00 -91 37 00 43 50 50 316.688 49.65211628

Wright 6378443.325 6357057.612 45 02 00 45 28 00 -93 53 00 44 58 39 306.325 48.02734717

Yellow Medicine 6378530.193 6357144.189 44 40 00 44 57 00 -95 54 00 44 32 30 393.193 61.64699818