



Mn/DOT Name: JUDSON SE

NGS Name: JUDSON SE

County: BLUE EARTH, MN (Sheet 1)

NGS ACRN: [DG5533](#) [Get Map](#)
 NGS Quad / Sta Num : 44094223/
 USGS Quad: LAKE CRYSTAL

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	36	108 N	28 W	440713.14	940754.83	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2003	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 10 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MN-013

Description: (2016) Stamping: JUDSON-SE 2003

7.5 MILES SOUTHWEST OF MANKATO, 1.90 MILES SOUTH ALONG TRUNK HIGHWAY 169 FROM THE JUNCTION OF TRUNK HIGHWAY 169 AND TRUNK HIGHWAY 60 (THE JUNCTION IS 6.0 MILES WEST-SOUTHWEST OF MANKATO), AT TRUNK HIGHWAY 169 MILEPOINT 45.8, 92.0 FEET WEST OF TRUNK HIGHWAY 169, 18.3 FEET SOUTH OF A FIELD ENTRANCE, 2.0 FEET NORTH OF A WITNESS POST.

Station Pair: EIDE - BLUE EARTH, MN

Leveling-Derived Orthometric Heights (Feet)

<u>NAVD88</u>			<u>Ellipsoid (NAD83)</u>			<u>Determination Method</u>		<u>Project Info</u>	
<u>Height</u>	<u>Acc</u>	<u>Order (/Class)</u>	<u>Height</u>	<u>Acc</u>	<u>Adj</u>			<u>Year</u>	<u>Reference</u>
992.170	.016	2/1				VERTICAL ADJUSTMENT		2019	00000938
992.180	.016	2/1				VERTICAL CONTROL SURVEY		2017	VJUDS

Non Leveling-Derived Orthometric and Ellipsoid Heights (Feet)

<u>NAVD88</u>			<u>Ellipsoid (NAD83)</u>			<u>Determination Method</u>		<u>Project Info</u>	
<u>Height</u>	<u>Acc</u>	<u>Order (/Class)</u>	<u>Height</u>	<u>Acc</u>	<u>Adj</u>			<u>Year</u>	<u>Reference</u>
992.176	.262		899.621	.197	2011	GPS - RTRN		2022	RTRN2022
992.180	.131		899.805	.066	1996	GPS - STATIC		2018	HABOY
992.180			899.588	.012	2011	GPS - STATIC		2018	HABOY
992.180			899.588	.012	2011	HORIZONTAL ADJUSTMENT		2017	GPS3226
992.121	.262		899.545	.197	2011	GPS - RTRN		2016	RTRN2016
			899.588	.013	2011	HORIZONTAL ADJUSTMENT		2012	GPS2800
			899.680	.014	2007	HORIZONTAL ADJUSTMENT		2007	GPS2300
992.157	.131		899.805	.066	1996	HORIZONTAL ADJUSTMENT		2004	GPS1986
992.157	.131		899.805	.066	1996	GPS - STATIC		2003	HEARTH

Geoid Separations(ft): GEOID18 = -92.552 12B = -92.572 09 = -92.480 03 = -92.310

Lat/Lon and County Coordinates (Feet)

<u>NAD83(2011)</u>		<u>Blue Earth County</u>				<u>Determination Method</u>		<u>Project Info</u>	
<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>Acc</u>	<u>Order</u>			<u>Year</u>	<u>Reference</u>
44 07 13.13572	94 07 54.82554	535393.455	199282.504	.131	3	GPS - RTRN		2022	RTRN2022
44 07 13.13622	94 07 54.82545	535393.461	199282.555	.007	C	GPS - STATIC		2018	HABOY
44 07 13.13622	94 07 54.82545	535393.461	199282.555	.007		ADJUSTMENT		2017	GPS3226
44 07 13.13594	94 07 54.82485	535393.505	199282.527	.131	3	GPS - RTRN		2016	RTRN2016
44 07 13.13622	94 07 54.82545	535393.461	199282.555	.010		ADJUSTMENT		2012	GPS2800
<u>NAD83(2007)</u>		<u>Blue Earth County</u>				<u>Determination Method</u>		<u>Project Info</u>	
<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>Acc</u>	<u>Order</u>			<u>Year</u>	<u>Reference</u>
44 07 13.13617	94 07 54.82623	535393.404	199282.550	.010		ADJUSTMENT		2007	GPS2300
<u>NAD83(1996)</u>		<u>Blue Earth County</u>				<u>Determination Method</u>		<u>Project Info</u>	
<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>Acc</u>	<u>Order</u>			<u>Year</u>	<u>Reference</u>
44 07 13.13565	94 07 54.82541	535393.464	199282.497	.033	C	GPS - STATIC		2018	HABOY
44 07 13.13565	94 07 54.82541	535393.464	199282.497	.033	C	ADJUSTMENT		2004	GPS1986
44 07 13.13565	94 07 54.82541	535393.464	199282.497	.033	C	GPS - STATIC		2003	HEARTH

State Plane and UTM Coordinates (Feet)

NAD83(2011)

MN State Plane - South Zone		UTM - Zone 15				Project Info		
<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Acc</u>	<u>Order</u>	<u>Determination Method</u>	<u>Year</u>	<u>Reference</u>
2590031.309	736509.549	1343286.821	16029688.975	.131	3	GPS - RTRN	2022	RTRN2022
2590031.316	736509.599	1343286.828	16029689.025	.007	C	GPS - STATIC	2018	HABOY
2590031.316	736509.599	1343286.828	16029689.025	.007		ADJUSTMENT	2017	GPS3226
2590031.360	736509.571	1343286.871	16029688.996	.131	3	GPS - RTRN	2016	RTRN2016
2590031.316	736509.599	1343286.828	16029689.025	.010		ADJUSTMENT	2012	GPS2800

NAD83(2007)

MN State Plane - South Zone		UTM - Zone 15				Project Info		
<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Acc</u>	<u>Order</u>	<u>Determination Method</u>	<u>Year</u>	<u>Reference</u>
2590031.259	736509.595	1343286.771	16029689.021	.010		ADJUSTMENT	2007	GPS2300

NAD83(1996)

MN State Plane - South Zone		UTM - Zone 15				Project Info		
<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Acc</u>	<u>Order</u>	<u>Determination Method</u>	<u>Year</u>	<u>Reference</u>
2590031.319	736509.542	1343286.830	16029688.967	.033	C	GPS - STATIC	2018	HABOY
2590031.319	736509.542	1343286.830	16029688.967	.033	C	ADJUSTMENT	2004	GPS1986
2590031.319	736509.542	1343286.830	16029688.967	.033	C	GPS - STATIC	2003	HEARTH

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/blue_earth/JUDSON_SE-DG5533-3W-19SEP2022.jpg	W	Sep 19, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/blue_earth/JUDSON_SE-DG5533-2-19SEP2022.jpg		Sep 19, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/blue_earth/JUDSON_SE-DG5533-1-19SEP2022.jpg		Sep 19, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **