# MN\_SE\_Driftless\_2021\_B21



Project Definition: The entire collection for a contracted area.

Work Unit Definition: A production block of data defined by the National Geospatial Technical Operations Center due to expediency, priority or resource allocation. There can be one or many work units per project.

#### **Project Information**

Lidar Base Specification: 2021 Revision A	Primary Contractor: Woolpert, Inc. (Woolpert)
Las Version: 1.4	Contract Mechanism: GPSC
P Method: 7 - Linear-Mode Lidar	
Collection Start Date: 04-16-2021	Collection End Date: 05-19-2022
The National Map Email: tnm_help@usgs.gov	

#### **Vertical Accuracy Results**

The U.S. Geological Survey evaluates absolute vertical accuracy of the lidar and lidar-derived bare earth DEM data at the project level

#### Quality Level 1: MN\_SEDriftless\_1\_2021; MN\_SEDriftless\_2\_2021; MN\_SEDriftless\_3\_2021

Point	Required NVA RMSEz (cm)	NVA RMSF7	95% confidence	95% confidence	'	Tested VVA at 95th percentile (cm)
	10.0	3.54	19.6	6.94	30.0	27.14

Digital Elevation Model	Required NVA RMSEz (cm)	NVA RMSFz	95% confidence	95% confidence		Tested VVA at 95th percentile (cm)
	10.0	3.51	19.6	6.88	30.0	25.48

#### Quality Level 0: MN\_SEDriftless\_4\_2021; MN\_SEDriftless\_5\_2021

NVA RMSEz	NVA RMSF7	95% confidence			Tested VVA at 95th percentile (cm)
5.0	3.55	9.8	6.96	15.0	12.64

Digital	NVA	NVA RMSFz	95% confidence	95% confidence		Tested VVA at 95th percentile (cm)
	5.0	3.51	9.8	6.88	15.0	13.33

#### **Classifications Used**

Classification verification is limited to the minimum required by applicable Lidar Base Specification. Classifications beyond the minimum are not verified by USGS.

Classification ID	Classification Type	
1	Unclassified	
2	Ground	
7	Low Noise	
9	Water	
17	Bridge Deck	
18	High Noise	
20	Ignored Ground	

### Sensor(s) Used

Optech Galaxy T2000 - Aerial Oscillating Mirror





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Report Date: 2023-06-22

## **Work Unit Information**

MN_SEDriftless_3_2021	<b>Work Unit ID:</b> 228972	Quality Level: 1	
Horizontal EPSG Code: 6344	Vertical EPSG Code: 5703	Geoid Model: GEOID18	
<b>DEM Ground Sample Distance:</b> 0.5	Hydro Treatment: hydro-flattened		
Collection Start Date: 2021-05-08	Collection End Date: 2022-05-15		

MN_SEDriftless_4_2021	Work Unit ID: 228988	Quality Level: 0		
Horizontal EPSG Code: 6344	Vertical EPSG Code: 5703	Geoid Model: GEOID18		
<b>DEM Ground Sample Distance:</b> 0.5	<b>Hydro Treatment:</b> hyd	Hydro Treatment: hydro-flattened		
Collection Start Date: 2022-05-05	Collection End Date: 2	Collection End Date: 2022-05-19		

MN_SEDriftless_2_2021	Work Unit ID: 222535	Quality Level: 1		
Horizontal EPSG Code: 6344	Vertical EPSG Code: 5703	Geoid Model: GEOID18		
<b>DEM Ground Sample Distance: </b> 0.5	Hydro Treatment: hydro	Hydro Treatment: hydro-flattened		
Collection Start Date: 2021-04-25	Collection End Date: 20	Collection End Date: 2022-05-15		

MN_SEDriftless_5_2021	Work Unit ID: 228991	Quality Level: 0	
Horizontal EPSG Code: 6344	Vertical EPSG Code: 5703	Geoid Model: GEOID18	
<b>DEM Ground Sample Distance: </b> 0.5	Hydro Treatment: hydro-flattened		
Collection Start Date: 2021-04-16	Collection End Date: 2021-05-13		

MN_SEDriftless_1_2021	Work Unit ID: 228969	Quality Level: $1$	
Horizontal EPSG Code: 6344	Vertical EPSG Code: 5703	Geoid Model: GEOID18	
DEM Ground Sample Distance: 0.5	0.5 <b>Hydro Treatment:</b> hydro-flattened		
Collection Start Date: 2021-04-22	Collection End Date: 2021-06-13		





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