

## Entomology Appendix A.: Agronomic, Rainfall, and Plot Maintenance Information

<b>Location:</b>	St. Thomas (Pembina County), ND – Lessard Farm – <i>Sugarbeet Root Maggot Trials</i>	
<b>Seed variety:</b>	Betaseed 8961	
<b>Plot size:</b>	Six 35-ft long rows, 4 center rows treated	
<b>Design:</b>	Randomized complete block, 4 replications	
<b>Soil name:</b>	Glyndon silt loam	
<b>Soil test:</b>	Organic matter = 2.9%      pH = 8.0	
<b>Soil texture:</b>	41.0% sand      41.0% silt      18.0% clay	
<b>Previous crop:</b>	Wheat (2021)	
<b>Soil preparation:</b>	Field cultivator (1x)	
<b>Planting depth:</b>	1.25"	
<b>Herbicides applied:</b>	June 20	Roundup PowerMAX (2 pt/ac) + Outlook (17.5 fl oz/ac) + Class Act NG (2.5% v/v) + Interlock (6 fl oz/ac)
	July 13	Roundup PowerMAX (2 pt/ac) + Class Act NG (2.5% v/v) + Interlock (6 fl oz/ac)
<b>Fungicides applied:</b>	August 4	Badge (2 pt/ac) + Inspire XT (7 fl oz/ac)
	August 15	Manzate (1.6 qt/ac) + Super Tin (8 fl oz/ac)
<b>Rainfall</b> (after seedbed preparation):	May 27	0.01"
	May 29	0.24"
	May 30	0.73"
	May 31	0.07"
	<b>Total/May</b>	<b>1.05"</b>
	June 10	0.07"
	June 12	0.14"
	June 14	1.15"
	June 20	0.09"
	June 21	0.02"
	June 24	1.78"
	June 25	0.04"
	June 29	0.03"
	<b>Total/June</b>	<b>3.32"</b>
	July 4	1.17"
	July 6	0.06"
	July 10	0.21"
	July 11	0.01"
	July 14	0.21"
	July 16	0.13"
	July 19	2.16"

July 22	0.38"
July 23	0.14"
July 26	0.34"
July 27	0.03"
<b>Total/July</b>	<b>4.84"</b>
August 11	0.03"
August 15	0.06"
August 18	0.59"
August 19	0.16"
August 23	0.74"
August 24	0.02"
August 27	0.21"
<b>Total/August</b>	<b>1.81"</b>
September 15	0.32"
September 16	0.99"
September 20	0.04"
September 23	0.04"
September 24	0.07"
<b>Total/September</b>	<b>1.46"</b>
October 2	0.01"
October 3	0.04"
<b>Total/October</b>	<b>0.05"</b>

**Yield sample size:** 2 center rows x 35 ft length (70 row-ft total)

**Location:** Glyndon (Clay County), MN – Brett Kuehl Farm

**Seed variety:** Betaseed 8961

**Plot size:** Two 25-ft long rows

**Design:** Randomized complete block, 4 replications

**Soil name:** Colvin silty clay loam

**Soil test:** Organic matter = 3.7%      pH = 8.3

**Soil texture:** 21.5% sand    55.0% silt    23.5% clay

**Previous crop:** Soybeans (2021)

**Soil preparation:** Field cultivator (3x)

**Planting depth:** 1.25"

**Planting date:** July 6

**Herbicides applied:** August 5      Cornerstone 5 Plus (1.875 qt/ac) + Outlook (12 fl oz/ac) +  
Class Act NG (2.5% v/v) + Interlock (6 fl oz/ac)

**Fungicides applied:** June 3      Manzate (1.6 qt/ac) + Super Tin (8 fl oz/ac)

**Rainfall:** July 10      0.66"

(after seedbed    July 14      0.19"

preparation):    July 15      0.87"

                     July 16      0.11"

                     July 18      0.23"

                     July 19      0.16"

                     July 21      0.07"

                     July 23      0.02"

                     July 26      0.08"

                     July 31      0.37"

**Total/July**      **2.76"**

                     August 5      2.02"

                     August 6      0.01"

                     August 12      0.69"

                     August 18      0.11"

                     August 19      0.76"

                     August 21      0.01"

                     August 26      0.72"

                     August 27      0.01"

                     August 28      0.04"

**Total/August**      **4.37"**

                     September 9      0.12"

                     September 15      0.07"

                     September 16      0.02"

                     September 17      0.02"

September 19	0.16"
September 23	0.14"
September 24	0.04"
<b>Total/September</b>	<b>0.57"</b>
October 12	0.03"
<b>Total/October</b>	<b>0.03"</b>

**Stand counts:** July 19 and 27, and Aug. 9 (13, 21, and 34 days after planting, resp.)  
**Harvest date:** October 12  
**Yield sample size:** two 25-ft rows (50 row-ft total)