

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

Location:	St. Thomas (Pembina County), ND – Wayne Lessard Farm – <i>Sugarbeet Root Maggot Trials</i>	
Seed variety:	Betaseed BTS 8524 RP	
Plot size:	Six 35-ft long rows, 4 center rows treated	
Design:	Randomized complete block, 4 replications	
Soil name:	Glyndon silt loam	
Soil test:	Organic matter = 3.0%	pH = 8.0
Soil texture:	29.1% sand	48.5% silt 22.4% clay
Previous crop:	Wheat (2019)	
Soil preparation:	Field cultivator (2x)	
Planting depth:	1.25"	
Herbicides applied:	June 12	Cornerstone 5 Plus (1.5 pt/ac) + Class Act NG (2.5% v/v) + Interlock (6 fl oz/ac)
	June 29	Cornerstone 5 Plus (1.5 pt/ac) + Outlook (17 fl oz/ac) + Class Act NG (2.5% v/v) + Interlock (6 fl oz/ac)
Fungicides applied:	Aug 13	Agri Tin (8 fl oz/ac) + Topsin (10 fl oz/ac)
	Aug 31	Priaxor Xemium (6.7 fl oz/ac) + Badge SC (1 pt/ac)
Rainfall (after seedbed preparation):	May 24	0.07"
	Total/May	0.07"
	June 3	0.11"
	June 4	0.01"
	June 6	0.07"
	June 7	1.58"
	June 8	0.91"
	June 9	0.01"
	June 10	0.03"
	June 11	0.01"
	June 17	0.16"
	June 20	0.72"
	June 25	0.15"
	June 26	0.20"
	June 30	2.5"
	Total/June	6.46"
	July 1	0.05"
	July 6	0.11"
	July 8	0.60"
	July 9	0.08"
	July 13	0.62"
	July 17	1.50"
	July 24	0.20"

July 25	0.36"
Total/July	3.52"
August 9	0.20"
August 14	0.22"
August 20	0.01"
August 30	0.10"
Total/August	0.53"
September 2	0.08"
September 3	0.13"
Total/September	0.21"

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

Location: Fairview (Richland County), MT – Pat Asbeck Farm – *Springtail Trial*

Seed variety: Betaseed BTS 8524 RP

Plot size: Two 25-ft long rows

Design: Randomized complete block, 4 replications

Soil name: Turner-Beaverton complex

Soil texture: 48.2% sand 36.6% silt 15.2% clay

Soil test: Organic matter = 3.0% pH = 8.0

Previous crop: Wheat (2019)

Soil preparation: Disc ripped (1x)
Surface leveled (1x)
Ridged (1x)

Planting depth: 1.25"

Planting date: May 7

Herbicides applied: May 14 Roundup PowerMAX (32 fl oz/ac) + Hel-fire (1 qt/100 gal)
June 8 Roundup PowerMAX (32 fl oz/ac) + Hel-fire (1 qt/100 gal)
July 22 Roundup PowerMAX (22 fl oz/ac) + Class Act NG (2.5% v/v) +
Interlock (6 fl oz/ac)

Fungicides applied: August 20 Minerva (13 fl oz/ac)

Rainfall: May 8 0.05"
(after seedbed May 9 0.01"
preparation): May 12 0.07"
May 13 0.08"
May 23 0.64"
May 24 0.32"
May 26 0.01"
Total/May **1.18"**
June 6 0.01"
June 7 0.01"

June 18	0.01"
June 19	0.05"
June 25	0.01"
June 27	0.05"
June 28	0.50"
June 29	0.09"
June 30	0.32"
Total/June	1.05"
July 3	0.17"
July 7	0.45"
July 8	0.01"
July 10	0.04"
July 18	0.32"
July 23	0.22"
July 25	0.01
Total/July	1.22"
August	0.02"
August	0.13"
August	0.07"
August	0.69"
Total/August	0.91"
September 7	0.29"
Total/September	0.29"

Stand counts: 25-ft of row, counted on June 1 (25 DAP), 9 (33 DAP), and 15 (39 DAP)
Harvest date: September 24
Yield sample size: One 10.9 linear row ft sample collected from each row of each two-row plot.