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

(applies to 2019 experiments only; specific information pertaining to multi-year

trials is provided within the respective individual reports)

**Location:** St. Thomas (Pembina County), ND - Wayne Lessard Farm - Sugarbeet Root Maggot Trials

Seed variety: Betaseed 8524

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 = 3.4%pH = 7.9

24.0% sand 18.9% clay **Soil texture:** 57.1% silt

Wheat (2017) Previous crop:

Soil preparation: Field cultivator (1x)

Planting depth: 1.25"

**Herbicides applied:** June 12 Roundup PowerMAX (32 fl oz/ac) + Outlook (6 fl oz/ac) +

Class Act NG (2.5% v/v) + Interlock (6 fl oz/ac)

July 1 Roundup PowerMAX (26 fl oz/ac) + Class Act NG (2.5% v/v) +

Interlock (6 fl oz/ac)

Rainfall	May 15	0.16"
(after seedbed	May 22	0.22"
preparation):	May 24	0.48"

May 26	0.04"
Total/May	0.90"
June 3	0.27"
June 4	0.02"
June 7	1.92"
June 8	0.71"
June 15	0.11"
June 16	0.28"
June 17	0.09"
June 21	0.23"
June 22	0.07"
June 24	0.04"
June 25	0.23"
June 29	0.05"
Total/June	4.02"
July 1	0.05"
July 8	0.23"
July 9	0.34"
July 10	0.23"
July 11	0.05"
July 25	0.32"
July 28	0.14"
July 31	0.05"
Total/July	1.41"

Total/August 1.74" Total/September 1.76" Grand Total 9.83"

July 29 (Study I) and July 31 (Study II) September 18  $\,$ **Damage ratings:** 

Harvest date:

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

Location: Trenton (Williams County), ND – Joe Mortenson Farm – Springtail Management Trial

**Seed variety:** Betaseed 8524

**Plot size:** Six 25-ft long rows, 2 rows treated

**Design:** Randomized complete block, 3 replications

**Soil name:** Havrelon-Lohler fine loam

**Soil test:** Organic matter = 2.0% pH = 8.3

**Previous crop:** Wheat (2018)

**Soil preparation:** Deep ripped (1x)

Surface leveler (1x)

Mulcher (1x)

Planting depth: 1.25"

**Planting date:** May 2

**Herbicides applied:** May 6 Roundup PowerMAX (32 fl oz/ac) + Mustang (4 fl oz/ac) +

Class Act NG (2.5% v/v)

June 13 Roundup PowerMAX (32 fl oz/ac) + Class Act NG (2.5% v/v)

 Rainfall:
 May 2
 0.02"

 (after seedbed preparation):
 May 3
 0.01"

 May 4
 0.02"

 May 10
 0.03"

May 10 0.03" May 11 0.03" May 17 0.78" May 18 0.05" May 24 0.43" Total/May 1.37" June 3 0.01" June 8 0.18" June 14 0.71" June 15 0.11" June 20 0.46" June 21 0.84" June 22 0.05" June 23 0.03" June 24 0.08"June 28 1.03" June 29 0.15" Total/June 3.65" Total/July 3.38" Total/August 2.22"

Total/September

Total/October

7.90"

0.63"

**Stand counts:** May 15, 21, and 29 **Harvest:** not harvested