

Entomology Appendix A.: Agronomic and Rainfall Information for Research Sites

Location:	St. Thomas (Pembina County), ND – Pete Carson Farm
Plot size:	Six 35-ft long rows, spaced 22 inches apart; 4 center rows treated
Design:	Randomized complete block, 4 replications
Soil name:	Glyndon silt loam
Soil test:	Organic matter = 4.3% pH = 7.9
Soil texture:	37.8% sand 43.2% silt 19% clay
Previous crop:	Potatoes (2011)
Soil preparation:	Field cultivator (once in fall 2011 and once in spring 2012)
Herbicide:	Roundup PowerMAX (28 fl oz/ac) + Veracity (4 qt/100 gal), June 05, 2012 Roundup PowerMAX (24 fl oz/ac) + Veracity (4 qt/100 gal), July 03, 2012 Roundup PowerMAX (22 fl oz/ac) + Veracity (3 qt/100 gal), July 27, 2012
Fungicide:	Quadris (16 fl oz/ac), June 14, 2012
Seeding:	1.25-inch depth, one seed per 4.5 inches of row length
Rainfall:	May 11, 2012 0.22" May 19, 2012 0.50" May 23, 2012 0.07" May 27, 2012 0.86" May 29, 2012 0.17" Total/May 1.82" June 01, 2012 0.07" June 03, 2012 0.22" June 07, 2012 0.13" June 10, 2012 0.39" June 11, 2012 0.17" June 14, 2012 0.11" June 16, 2012 0.42" June 17, 2012 0.05" June 20, 2012 0.38" Total/June 1.94" July 04, 2012 1.47" July 06, 2012 0.81" July 12, 2012 1.19" July 15, 2012 0.48" July 19, 2012 0.08" July 24, 2012 0.38" July 26, 2012 0.14" Total/July 4.55" Total/August 1.36" Total/September 0.17"
Harvest sample size:	2 center rows x 35 ft length (70 linear ft)

Location: Eldred (Polk County), MN – Lee Thoreson Farm

Plot size: Two 35-ft long rows, spaced 22 inches apart

Design: Randomized complete block, 4 replications

Soil name: Colvin-Perella silty clay loam

Soil test: Organic Matter = 6.7% pH = 7.7

Soil texture: 3.2% sand 62.5% silt 34.3% clay

Previous crop: Wheat - 2011

Soil preparation: Field cultivator (once in fall 2011 and once in spring 2012)

Herbicide: Roundup PowerMAX (32 fl oz/ac), May 25, 2012

Fungicide: Quadris (16 fl oz/ac), June 07, 2012
Penncozeb (2 lb/ac) & SuperTin (7 fl oz/ac), August 16, 2012

Seeding: 1.25-inch depth, one seed per 4.5 inches of row length

Planting date: May 4, 2012

Rainfall:

May 08, 2012	0.04"
May 19, 2012	0.08"
May 22, 2012	0.17"
May 27, 2012	0.88"
Total/May	1.17"
June 07, 2012	0.80"
June 10, 2012	1.11"
June 14, 2012	0.33"
June 16, 2012	0.08"
June 20, 2012	0.29"
June 23, 2012	0.20"
June 30, 2012	0.10"
Total/June	2.91"
July 06, 2012	0.35"
July 12, 2012	1.65"
July 24, 2012	1.11"
July 26, 2012	0.15"
July 29, 2012	0.43"
Total/July	3.69"
Total/August	1.85"
Total/September	0.03"

Harvest sample size: 2 rows x 35 ft length (70 linear ft)

Location: Prosper (Cass County), ND – NDSU Experiment Farm

Seed variety: VDH 36817RR

Design: Randomized complete block, 4 replicates

Soil name: Perella/Bearden Silty Clay Loam

Soil test: Organic Matter = 3.7% pH = 7.0

Soil texture: 20.0% sand 27.5% silt 52.5% clay

Previous crop: Wheat – 2011

Soil preparation: Field cultivator – worked twice

Herbicide: Roundup PowerMAX (28 fl oz/ac) + Veracity (4 qt/100 gal), June 15, 2012

Fungicide: Quadris (16 fl oz/ac), June 22, 2012

Planting depth: 1.25"

Postemergence sprays: July 19, 2012

Rainfall:

May 11, 2012	0.07"
May 22, 2012	0.82"
May 27, 2012	0.53"
Total/May	1.42"
June 07, 2012	0.71"
June 10, 2012	0.52"
June 14, 2012	0.37"
June 19, 2012	0.12"
June 20, 2012	0.90"
June 23, 2012	0.03"
Total/June	2.65"
July 04, 2012	0.03"
July 06, 2012	0.29"
July 08, 2012	0.01"
July 15, 2012	0.05"
July 20, 2012	0.01"
July 24, 2012	0.15"
July 25, 2012	0.10"
Total/July	0.64"
Total/August	0.90"
Total/September	0.56"

Harvest sample size: 2 rows x 35 ft length (70 linear ft)