

Entomology Appendix A.: Agronomic Information for Research Sites

Location: St. Thomas, ND (Pembina County) – William and Brent Baldwin Farm

Sugarbeet Variety: Beta 1305R (20 tach) Vydate trial
Hilleshog Experimental Seed Treatment tests I & III
VDH 46519 Experimental Seed Treatment test II
Replanting test
Planting-time granules & liquids study
Granule Placement trial
Thimet timing and rate trial

Plot Size: Six 35-ft long rows, 4 center rows treated

Experimental Design: Randomized complete block, 4 replicates

Soil Name: Glyndon Silt Loam

Soil Test: Organic Matter = 3.3%; pH = 7.7

Previous Crop: { ADVANCE \l 1}Potatoes - 2005

Soil Preparation: Field cultivator, worked once

Herbicide: Progress (5.7 fl oz/A) + UpBeet (1/8 oz/A) + Stinger (1.3 fl oz/A) + Quad 7 (1%) + MSO (1%), May 22, 2006

(1.5%), Progress (5.7 fl oz/A) + UpBeet (1/8 oz/A) + Stinger (1.3 fl oz/A) + MSO

May 29, 2006

(2 fl oz/A) + Progress (5.7 fl oz/A) + UpBeet (1/8 oz/A) + Stinger (1.3 fl oz/A) + Select

MSO (1.5%), June 3, 2006

(6 fl oz/A) + Progress (8.7 fl oz/A) + UpBeet (1/8 oz/A) + Stinger (1.3 fl oz/A) + Select

MSO (1.5%), June 11, 2006

(1.5%), Betanex (16 fl oz/A) + UpBeet (1/8 oz/A) + Select (6 fl oz/A) + MSO

June 28, 2006

Insecticide: Noble applicators, granules; 5-inch band (B), modified in furrow (M), and spoon (S)

Liquid metering device (Raven), liquids; 5-inch band over open seed furrow (TB), directly in seed furrow (IF)

CO² mounted liquid application, postemergence liquids; 7- and 11-inch band

Planting Depth: 1.25"

Planting Date: May 05, 2006 Replanting test (insecticide only)
 May 09, 2006 Experimental Seed Treatment test I and postemergence liquid insecticide
 Experimental Seed Treatment tests II and III
 Thimet timing and rate trial
 Lorsban postemergence timing, rates, and band width trial
 May 12, 2006 Vydate trial
 May 15, 2006 Granule Placement trial
 May 18, 2006 Planting-time granules and liquids study
 May 24, 2006 Replanting test

Post Treatments: June 02, 2006 Thimet; Thimet postemergence granule timing and rate trial (14-day pre-peak)
 June 06, 2006 Lorsban 4E; Thimet timing and rate trial (2-to 4-day pre-peak)
 Asana & Vydate; Vydate trial (2-to 4-day pre-peak)
 Vydate + Herbicide micro-rates; Vydate trial (2-to 4-day pre-peak)
 Lorsban 4E; Experimental Seed Treatment test I and liquid insecticide trial (2-to 4-day pre-peak)
 June 07, 2006 Lorsban 4E; Lorsban postemergence liquid trial (2-to 4-day pre-peak)
 Lorsban 4E; Replanting test
 June 09, 2006 Thimet; Thimet postemergence granule timing and rate trial (7-day pre-peak)
 June 12, 2006 Asana and Vydate; Vydate trial (2-to 3-day post-peak)
 Lorsban 4E; Replanting test
 Lorsban 4E; Lorsban postemergence liquid trial (2-to 3-day post-peak)

Rainfall: May 07, 2006 0.18"
 May 08, 2006 0.22"
 May 10, 2006 0.08"
 May 13, 2006 0.09"
 May 24, 2006 0.05"
 May 27, 2006 0.06"
Total/May 0.68"

June 05, 2006 0.06"
 June 09, 2006 0.20"

June 18, 2006 0.09"
June 21, 2006 0.02"
June 23, 2006 0.18"
June 30, 2006 0.09"
Total/June 0.64"

July 01, 2006 0.04"
July 02, 2006 0.19"
July 07, 2006 0.25"
July 08, 2006 0.21"
July 11, 2006 0.03"
July 25, 2006 0.06"
July 30, 2006 0.50"
July 31, 2006 0.06"
Total/July 1.34"

{ ADVANCE \r 1} **Total/August 3.23"**

Total/September 1.08"

Stand Counts: May 25; June 8, 9, 12, 22; Sept. 19 & 20; Oct. 5 & 13, 2006
Damage Ratings: August 1, 2, 3, & 7, 2006
Harvest: September 19 & 20, 2006
Harvest Sample: 2 center rows x 35' long - 70' total

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

Sugarbeet Variety: Beta 1305 R (20 tach) Experimental Seed Treatment test
VDH 46519 Granule Placement
Beta 1305 R (45 tach) Insecticide/Fungicide Tank-mix trial

Plot Size: Six rows 35-ft long, 4 center rows treated

Experimental Design: Randomized complete block, 4 replicates

Soil Name: Clay Loam

Soil Test: Organic Matter = 3.7%; pH = 7.6

Previous Crop: { ADVANCE \l 1}Wheat - 2005

Soil Preparation: Field cultivator, worked twice

Herbicide: Progress (11.6 fl oz/A) + UpBeet (1/8 oz/A) + Stinger (1.3 fl oz/A) +
Select (6 fl oz/A) + MSO (1.5%), May 29, 2006
Progress (5.7 fl oz/A) + UpBeet (1/8 oz/A) + Stinger (1.3 fl oz/A) + Select
(2 fl oz/A) +
MSO (1.5%), June 3, 2006
Progress (5.7 fl oz/A) + UpBeet (1/8 oz/A) + Stinger (1.3 fl oz/A) + Select
(2 fl oz/A) +
MSO (1.5%), June 12, 2006
Progress (11.6 fl oz/A) + UpBeet (1/2 oz/A) + Stinger (1.3 fl oz/A) + Select
(8 fl oz/A) +
+ MSO (1.5%), June 12, 2006 (Insecticide/Fungicide Tank-mix trial only)
Betanex (16 fl oz/A) + UpBeet (1/2 oz/A) + Stinger (2.6 fl oz/A) + Select (6
fl oz/A) +
+ MSO (1.5%), June 20, 2006 (Insecticide/Fungicide Tank-mix trial only)

Fungicide: Eminent (13 fl oz/ac), July 24, 2006
Headline (9 fl oz/ac), August 21, 2006

Insecticide: Postemergence liquids; broadcast, CO²-driven

Planting Depth: 1.25"

Planting Date: May 16, 2006 Insecticide/Fungicide Tank-mix trial
May 23, 2006 Coded Seed Trial
May 26, 2006 Granule Placement and Experimental Seed Treatment test

Post Treatments: Sept 02, 2006 Lannate, Lorsban 4E, Malathion, Asana, Headline, Eminent,
and Super Tin; Insecticide/Fungicide Tank-mix trial

Rainfall: May 23, 2006 0.08"
May 24, 2006 0.18"
May 31, 2006 0.30"
Total/May 0.56"
June 09, 2006 0.15"
June 16, 2006 0.10"
June 24, 2006 0.23"
Total/June 0.48"
July 07, 2005 0.11"
July 24, 2005 0.19"
July 25, 2005 1.17"

	July 28, 2005	0.83"	
	July 29, 2005	0.30"	
	Total/July	2.60"	
{ ADVANCE \r 1}		Total/August	0.98"
	Total/September	3.75"	

Harvest: September 28, 2006
Harvest Sample: 2 rows x 35' long - 70' total