AIM FIELD TOUR: WESTERN

Thursday, September 3rd, 2020

Physiological Age Trial with Genesis Crop Systems/MacLennan Properties

Trial Details:

- A: Investigating the impact of warming up seed for 2 weeks in January (before breaking dormancy) to increase physiological age on 7 processing varieties (Dakota, Clearwater, Prospect, Moutain Gem, Payette, Shepody, Russet Burbank)
- B: Investigating the impact of keeping seed refrigerated until planting for 2 varieties when compared with conventional warm up of seed in storage (Russet Burbank, Alverstone Russet)

Planting Date: May 21st

Difference in Degree-Days above 4C:

between Winter Warm-up and Conventional: between Conventional and Refrigerated:

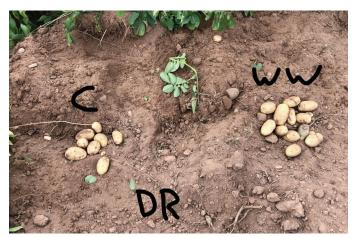
Demo Plots (Left to Right): Dakota Conventional Clearwater Conventional Payette Convetional Prospect Conventional

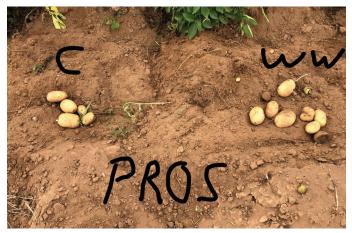
Mountain Gem Conventional

Shepody Conventional

+145 DD (13 days at 15 C) +236 DD to May 15th

> Dakota Warmed Clearwater Warmed Payette Warmed Prospect Warmed Mountain Gem Warmed Shepody Warmed





Tuber samples from August 25th Dakota Russet on left, Prospect on right

AIM FIELD TOUR: WESTERN

Thursday, September 3rd, 2020

Biofumigation Trial with Genesis Crop Systems/ MacLennan Properties

Trial Details:

A: Assessing the impact of Caliente Rojo biofumigant mustard on populations of Verticillium and root lesion nematodes and marketable potato yields the following year compared with brown mustard, sorghum sudangrass, and ryegrass check strip.

Crops Planted:	Caliente Rojo biofumigant mustard Brown Mustard (Centennial variety) Sorghum Sudangrass Annual Ryegrass (check)
Planting Date:	June 7th
Mustard Incorporation Date:	July 22nd
Incorporated with:	Flail chopper, immediately followed by Vaderstad land preparer

Evaluation of Different Legumes on Potato Early Dying (PED) with Dock Corner Farms

Trial Details:

Assessing the effect of different legume species on Verticillum and root lesion nematode populations as well as marketable yield of potatoes in 2021. Established in the spring of 2019.
One of two sites established in 2019. Both will be potatoes in 2021.
Will also take soil organic matter/soil health tests this fall after two years of forage.
Alfalfa/Timothy, Red Clover, White Clover/Festolium Mix, Festolium, Birdsfoot Trefoil/Festolium

V. dahliae: 9395 cell	s/g RLN: 5	5855/kg Soi	I OM: 2.4%	
V. dahliae (Fall'19)	RLN (Fall'19)	RLN (Spring '20)	Soil OM	First Cut DM (t/ac)
8593 cells/g	5816/kg	1740/kg	2.3%	0.235
9748 cells/g	10494/kg	12669/kg	2.2%	0.234
6185 cells/g	5824/kg	1727/kg	2.1%	0.203
6582 cells/g	9614/kg	3444/kg	2.4%	0.189
	V. dahliae (Fall'19) 8593 cells/g 9748 cells/g 6185 cells/g	V. dahliae (Fall'19) RLN (Fall'19) 8593 cells/g 5816/kg 9748 cells/g 10494/kg 6185 cells/g 5824/kg	V. dahliae (Fall'19)RLN (Fall'19)RLN (Spring '20)8593 cells/g5816/kg1740/kg9748 cells/g10494/kg12669/kg6185 cells/g5824/kg1727/kg	V. dahliae (Fall'19)RLN (Fall'19)RLN (Spring '20)Soil OM8593 cells/g5816/kg1740/kg2.3%9748 cells/g10494/kg12669/kg2.2%6185 cells/g5824/kg1727/kg2.1%