

AIM FIELD TOUR: EASTERN

Wednesday, September 2nd, 2020

Physiological Age Trial with Genesis Crop Systems/MacAulay Farms

Trial Details:

- A: Investigating the impact of warming up seed for 2 weeks in January (before breaking dormancy) to increase physiological age on 5 processing varieties (Dakota, Clearwater, Prospect, Mountain Gem, Payette)
- 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 23rd

Difference in Degree-Days above 4C:

between Winter Warm-up and Conventional:	+145 DD (13 days at 15 C)
between Conventional and Refrigerated:	+223 DD to May 15th

Demo Plots (Left to Right):	Prospect Warmed	Prospect Conventional
	Clearwater Warmed	Clearwater Conventional
	Mountain Gem Warmed	Mountain Gem Conventional
	Payette Warmed	Payette Conventional
	Burbank Conventional	Burbank Refrigerated
	Alverstone Refrigerated	Alverstone Conventional

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Living Labs BMP3: Soil-Building Crops with Black Pond Farms

Trial Details:

- A: Assessing the impact of two soil-building crops on marketable potato yields and soil health parameters.
- B: Assessing the impact of Caliente Rojo biofumigant mustard on populations of Verticillium and root lesion nematodes and marketable potato yields the following year.

Crops Planted: Caliente Rojo biofumigant mustard (planted June 12th)
Ikarus radish / Terminator mustard (planted June 11th)
Annual Ryegrass (check, planted June 8th)

Mustard Incorporation Date: August 4th

Incorporated with: Flail chopper, immediately followed by Lemken Karat

Evaluation of Quash Fungicide on Marketable Yield

Trial Details:

- A: Assessing the effect of Quash fungicide (metconazole) + Polyram on marketable potato yield in comparison with conventional fungicide program (Luna Tranquility + Polyram) at row closure.
- B: In multiple American studies, use of Quash was associated with a 25 to 30 cwt/acre increase in yield independent of disease control. Saw yield improvement when used once early in season.
- C: Quash (metconazole) is labelled for control of early blight and white mold. On Cavendish list.

Variety: Russet Burbank

Spray Date: July 15th