

# AIM FIELD TOUR: CENTRAL

Thursday, September 3rd, 2020

## Crop Rotation Trial with Living Labs/Genesis/MWM Farms

### Trial Details:

- A: Investigating the impact of different soil-building and disease suppressive crops on soil health, soil organic matter, and marketable potato yield as part of Living Labs project.
- B: Measuring the agronomic and economic performance of brown mustard as a biofumigant crop versus harvesting as a cash crop, compared with barley check.

**Crops Grown: (Left to right from the highway):** Sorghum Sudangrass/Pearl Millet planted June 18th  
Barley (check) planted May 26th  
Brown Mustard (Incorporated) planted June 18th  
Brown Mustard (Cash Crop) planted June 18th

**Mustard Incorporation Date:** August 5th

**Sorghum Sudangrass/Pearl Millet mowed first time:** August 21st

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## Evaluating Subsoiling Deep Tillage ahead of the Planter with Dunk River Farms

### Trial Details:

- A: Assessing the effect of subsoil ripping at 15-16 inches before planting compared with no deep tillage. Compaction layer identified at 12-13 inches prior to land preparation using penetrometer and visual verification.  
One of six fields set up for this trial in East Prince region (5 growers)

**Variety:** Russet Burbank

**Planting Date:** May 29th

**Preceding Crop:** Timothy Hay Mixture, round-up in fall 2019, tillage in spring 2020

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## Living Labs Soil-Building Rotation Trial with Nevin & Carl Robinson

### Trial Details:

- A: Assessing the effect of different soil-building, full-season rotation crops on soil health, soil organic matter, and marketable potato yield. Part of Living Labs Project (BMP3)
- B: Assess effect of different crops on soil-borne diseases (Verticillium, root lesion nematodes)

**Crops Planted (2019):** Buckwheat (mowed)  
Red Clover mix (check)  
Hemp (combined, then incorporated stubble)

**Planting Date 2020:** June 15th  
**Potato Variety:** Goldrush

### Soil Test Data - Spring 2019 (before planting)

	Soil OM	Aggregate Stability	V. dahliae	RLN
Buckwheat	2.7%	39.5%	3573 cells/g	4727/kg
Hemp	2.7%	39.5%	6268 cells/g	7111/kg
Red Clover Mix	2.7%	39.5%	2984 cells/g	3601/kg

### Soil Test Data - Spring 2020 (before potato planting)

	Soil OM	Aggregate Stability	V. dahliae	RLN
Buckwheat	3.0%	34.9%		5380/kg
Hemp	2.8%	31.5%		19954/kg
Red Clover Mix	2.8%	38.6%		14658/kg

