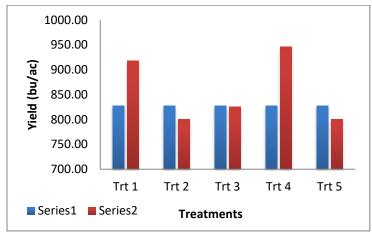
## Hemp Genetics International PGE Tech Treatment

<b>Project duration</b>	May 2018 – August 2018
Objectives	To evaluate PGETech as a seed foliar fertility treatment
Collaborators	Jeff Kostiuk

### Results

Figure 1: Yield Comparison by Treatment



Series 1 represents the control treatment

#### Background

PGE Tech works in the production of plant products with mineral based micronutrient plant growth enhancers. Their products are made from natural ingredients, are "eco-friendly" and require no special equipment or protective clothing to use. This trial looked at growing of hemp with the use PGE Tech either as a seed treatment or as a spray or both.

#### **Materials & Methods**

Experimental Design	Random Complete Block Design
Entries	6 treatments x 4 replications
Seeding	May 28
Harvest	Aug 22

Table 1: PGR Application Timing

Treatment	PGE Seed Treatment	PGE Spray	Fertilizer
Control	Bare seed	None	None
1	Bare Seed	Sprayed	70% of target fertility

2	Bare seed	None	None
3	Bare seed	None	100% target fertility
4	Seed treated	None	None
5	Seed treated	Sprayed	100% target fertility

Data collected	Date collected
Emergence	Jun 4-8
Plant Counts	Jun 11
Flowering	Jul 18-20
Disease rating	Aug 3
Height	Aug 2
Lodging	Aug 22
Yield	Sept 3
Moisture	Sept 3
Agronomic info Previous year's crop Soil Type Landscape Seedbed preparation	Oat barley silage Erickson Loam Clay Rolling with trees to the east No-till due to moisture concerns; direct-seeded into stubble

## Table 2: Spring 2018 Soil Test

	Available	Needed
Ν	54 lb/ac	76 lb/ac
Ρ	13 ppm	10 lb/ac
К	228 ppm	0 lb/ac
S	118 lb/ac	0 lb/ac

# Table 3: 100% Target Added N and P Fertilizer

Blend	Blend (actual lbs/ac)	Actual lbs N	Actual lbs P
46-0-0	160.62	76	0
11-52-0-0	19.23	2.12	10
Total	-	78.12	10

N side-banded; P Banded with seed

Table 4: Herbicide Application

Crop stage	Date	Product	Rate
Pre-emerge	May 19	Heat	28.4g/ac
		Round-up	0.67L/ac
In-crop	June 20	Brotex 240	0.5 L/ac
		Centurion	0.15 L/ac