

# Peas Testing Report



## RESEARCH COOPERATORS

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## TRIAL OBJECTIVE

To test the effectiveness of AG FORCE I (Kan Grow- Plant Preparation) on pea crops and soil health.

## CERTIFICATIONS

Kan Grow products are:

- » EPA Listed
- » NSF Certified



## EXPERIMENTAL – DESIGN

Seed Type:	Peas
Location:	Growth Chambers at the University of Saskatchewan
Experimental Design:	5 treatments (control, low, medium, high, and 1 US Gal/acre ) with 4 repetitions (pots) per treatment.
Planting Details:	Seeds were planted on June 2nd, 2015 50mm (2 inches) deep.
Treatment(s):	Applied in two separate applications. First application occurred 2 days prior to planting. The second application occurred three weeks after planting.
Harvest:	8 weeks of growth time.

## EXPERIMENTAL – TREATMENTS

- 1) 1 : 10,000 dilution of AG-Force I (0 oz per acre) - 0 ml/pot (control)
- 2) 1 : 10,000 dilution of AG-Force I (8 oz per acre) - 10.35 ml/pot 1st application (low)
- 3) 1 : 10,000 dilution of AG-Force I (8 oz per acre) - 10.35 ml/pot 2nd application (low)
- 4) 1 : 10,000 dilution of AG-Force I (16 oz per acre) - 20.7 ml/pot 1st application (Medium)
- 5) 1 : 10,000 dilution of AG-Force I (16 oz per acre) - 20.7 ml/pot 2nd application (Medium)
- 6) 1 : 10,000 dilutions of AG-Force I (32 oz per acre) - 41.3 ml/pot 1st application (High)
- 7) 1 : 10,000 dilution of AG-Force I (32 oz per acre) - 41.3 ml/pot 2nd application (High)
- 8) 1 : 10,000 dilution of AG-Force I (64 oz per acre) - 82.65 ml/pot 1st application (1 US gal)
- 9) 1 : 10,000 dilution of AG-Force I (64 oz per acre) - 82.65 ml/pot 2nd application (1 US gal)

SEEDING RATE	Plants per acre	Plants/pot	Seeds/pot
Peas	300,000	1.31	4

## RESULTS

Pea pods per plant appeared to be approximately 13% higher for the two highest application rates. Similarly, root biomass appeared to increase with higher application rates.

Pea plant and root nutrient analysis indicated no difference in plant to root nitrogen but elevated levels of calcium, iron, potassium, sodium and sulfur in the root biomass as compared to the plant biomass.

