

Assessing different seeding rates for Quinoa production

Project Duration – 2018

Objectives – To compare four different seeding rates to see their effect on quinoa productivity.

Collaborators – Northern Quinoa Production Corporation

Project Findings

This was the first year of testing. Dry soil conditions during seeding resulted in poor germination in some of the treatment plots and the trial was not well established. Data from this trial were not presentable during to high variation (CV).

Material and methods

Experimental Design – Randomised block design with four replications

Treatments – Four seeding rate treatments – 2.5 lbs/acre, 5.0 lbs/acre, 7.5 lbs/acre, 10.0 lbs/acre

Plot size – 8.22m²

Data collected – plant stand, plant height, vigor, heading date, lodging, days to maturity, yield

Agronomic info

Stubble, soil type – Fallow, heavy clay

Fertilizer applied – Soil nutrient levels (lbs/acre): N – 129, P – 46, K – 780

N – 25lbs/acre; P – 20lbs/acre was applied at seeding.

Pesticides applied/Weed control – Manual weeding on June 23

Decis @ 45 ml/acre for insects on June 25

Manual weeding on July 11

Decis @ 50 ml/acre for insects on August 10

Seeding/harvesting date – May 22 / Oct 19