

**WASHINGTON OILSEEDS COMMISSION  
PROGRESS REPORT FORMAT FOR 2021 PROJECTS**

**Project No.:**

**Title:** The effects of plant growth regulators and plant density on early seeded winter canola plant dimensions and survival

**Personnel:** Isaac Madsen, Ph.D. (PI)

**Reporting Period:** June 2021 - October 2021

**Accomplishments:**

This project began in the summer of 2021 and full year of data collection has not been completed. The objective of this trial is to assess the impacts of seeding rate and plant growth regulators (PGRs) on early seeded canola. Preliminary observations made during the 2020-2021 growing season indicated that lower plant densities and PGR applications improved desirable characteristics of canola plants prior to winter. During the summer of 2021 two seeding date x seeding rate x and PGR small plot trials were planted near Davenport and LaCrosse. At the LaCrosse the plots failed to establish. This is likely due to the use of a hoe type opener which resulted in a dry seed bed and horned larks which were repeatedly found at this location. At the Davenport location a no-till disk drill was used to plant into thick residue and the canola plants were able to establish. The three different planting dates at Davenport were successfully established, and PGRs were applied. Plant measurements were taken in the fall of 2021, but have not been analyzed.

**Results:**

Plant dimension measurements taken in the fall of 2021, but analysis of these plant dimension has not been completed. The photo on the right is from the July 15<sup>th</sup> planting date, the center is the July 30<sup>th</sup> planting date, and the right is the August 16<sup>th</sup> planting date. All photos were taken on October 29<sup>th</sup>.



**Publications:**

None.