

WASHINGTON OILSEEDS COMMISSION

Project No.:

Title: Winter and Spring Canola Variety Testing

Personnel: Isaac Madsen, Ph.D. (PI) and Ian C. Burke, PhD. (Co-PI)

Reporting Period: October 2020 - October 2021

Accomplishments:

1. Completed spring canola variety trials including stand counts, pod counts, and yield data, at Albion, Cloverland, and Davenport.
2. Harvested 2020-2021 winter canola trial near Ralston and established 2021-2022 winter canola trials near Almira and Brewster.

Results: Three spring and one winter variety trial were harvested in 2021. The spring variety trials were planted near Albion, Cloverland, and Davenport WA (Table 1). Variety was a significant factor on yield at Albion and Davenport. At Cloverland, there was no significant difference between varieties. Several new varieties were entered in the 2021 spring variety trials which had not been included in the previous year's trials. NCC101 s which had been one of the top varieties in 2019 and 2020 did not perform well in 2021. This may have been due to the unusually dry summer experienced in E. WA during 2021 or the that the new InVigor varieties appear to be superior varieties to previous InVigor lines. Both InVigor lines LR344 and L345 performed well at all locations, with LR344 PC doing extremely well at Albion and achieving the highest yield overall. In the winter canola variety trials established near Ralston for the 2020-2021 growing season the hybrid variety of Mercedes continues to be the highest yielding variety.

Variety	All Locations		Albion		Davenport		Cloverland	
CP9919	711	b	755	b	640	bc	749	a
CP9978TF	642	b	436	b	673	ab	765	a
InVigor L345 P	785	ab	671	b	758	a	897	a
InVigor LR344 PC	911	a	1207	a	741	ab	858	a
NCC 101 s	615	b	323	b	571	c	878	a
Location Means	733		678		677		830	
CV %	31		35		10		24	
LSD	192		435		101		308	

Publications:

Madsen, I. J. (2021) Plant Density and Pod Count Variation Within Large-Scale Variety Trials. 2021 Field Day Abstracts: Highlights of Research Progress (pp. 56).

Madsen, I. J. (2021) Spring and Winter Canola Large Scale Variety Trials. 2021 Field Day Abstracts: Highlights of Research Progress (pp. 57).