

## WASHINGTON OILSEEDS COMMISSION FINAL REPORT FOR 2016

**Title:** Winter Canola Variety Testing in Fallow Transitional Rainfall Zone.

**Personnel:** Frank Young and Bill Pan, Co-Pi's consulting with Jim Davis and Mike Stamm.

**Reporting Period:** August, 2015 to August, 2016.

### **Results:**

This past growing season winter canola variety trials were established in August at Mansfield and Pomeroy, WA. Winter canola was planted no-till into chemical fallow with an Ag-Pro drill with 16-inch row spacing. At Pomeroy, canola was planted with a JD deep-furrow drill with 28-inch row spacing. Seeding conditions were drier in Mansfield compared to Pomeroy. In the spring of 2016 a herd of deer destroyed the plots at Mansfield. Crop-year precipitation at Pomeroy was 18 inches with snow-cover most of the winter. Seeding rate was approximately 4lbs/A for all varieties except Mercedes and Largo (small seeded varieties which were seeded at slightly more than 2lbs/A).

**Survival:** Cold weather survival was between 60% (KSR07363-RR) and 106% (Largo).

Mercedes had a survival of 64% while Amanda and Falstaff, two non-GMO varieties survived at 80% or greater. Griffin (74%) and Claremore (85%) had excellent survivability.

**Yield:** Overall yield of the 13 varieties was 3550 lbs/A and ranged from 3195 (Largo) to 3970 lbs/A (Mercedes). Griffin and Claremore, two varieties from the "Plains" continue to yield high (3790 and 3635 respectively) in the PNW. Two new glyphosate-resistant varieties from Croplan yielded between 3400 and 3500 lbs/A while two new glyphosate-resistant varieties from Mike Stamm of Kansas St. U. yielded between 3450 and 3550 lbs/A.

**Table 1:** Winter canola variety trial survival and yield at Pomeroy, WA; 2015-2016.

<b>Variety</b>	<b>Survival</b>	<b>Yield</b>
	<b>%</b>	<b>lbs/A</b>
<b>Rubisco Seeds</b>		
Mercedes	64	3970
Edimax	89	3455
<b>Spectrum Crop Development</b>		
Largo	106	3195
Falstaff	87	3495
<b>Croplan by Winfield</b>		
CP115	74	3535
CP 220	88	3405
CP 225	75	3470
<b>Kansas State University</b>		
Griffin	74	3790
KSR07363-RR	60	3465
KSR4652-RR	73	3550
<b>High Plains Crop Development</b>		
Claremore	85	3635
<b>University of Idaho</b>		
Amanda	80	3615
WC-1	63	3555