

**YEAR/PROJECT: 1996/758**

**TITLE: Spring Canola Variety Trial - Dryland**

**PERSONNEL:** Leon Welty, NWARC  
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Five varieties of *Brassica napus* were evaluated for Svalof Weibull Seed Ltd.: 'Sponsor', 'Coronet', 'SW 02530', 'Bullet', and 'SWLM 02579'. Two varieties from Bonis & Co. Ltd, 'OAC-Springfield' and 'BC 94-123', were also included. The study was designed as a randomized complete block with 4 replicates. Plots consisted of four 8-foot rows spaced 12 inches apart, with 24 inches between plots. All cultivars were seeded at 7 lbs/a on Apr.17, 1996. Treflan, at 0.5 lb AI/a, was preplant incorporated, and the nursery was fertilized with 54 lbs N/a and 28 lbs P<sub>2</sub>O<sub>5</sub>/a on April 25. Maturation time averaged 113 days after seeding, with little variation among cultivars. No *Sclerotinea* symptoms were observed this year. Seed yields averaged 1720 lbs/a, and variation among cultivars was not statistically significant.

## 1996 CANOLA VARIETY TRIAL - KALISPELL, MONTANA

Entries submitted by Svalof Weibull Seed Ltd.

VARIETY	VIGOR (0-5) <sup>1</sup>	FLOWERING	PETAL		HEIGHT inches	YIELD lbs/acre
			DROP	MATURITY		
			days after seeding			
Sponsor	3.00	61.8	85.0	114.8	44.8	1949
Coronet	3.75	61.0	85.3	113.1	44.0	1504
SW 02530	3.50	60.8	85.8	113.1	44.8	1829
Bullet	3.25	58.0	84.3	112.5	45.2	1615
SWLM 02579	4.50	61.5	85.5	114.8	47.6	2046
OAC-Springfield	4.25	60.0	84.0	112.8	40.1	1600
BC 94-123	3.75	61.5	85.0	112.5	41.3	1496
mean	3.71	60.7	85.0	113.4	44.0	1720
LSD (0.05)	1.25	0.6	1.4	1.9	2.8	554
P-VALUE	0.21	0.00	0.15	0.08	0.00	0.27
CV(s/mean)x100	22.6	0.6	1.1	1.1	4.3	21.7

<sup>1</sup>5 = high vigor; 0 = dead

Location: Northwestern Agricultural Research Center, Kalispell, Montana, USA

Latitude: 48 degrees N; Longitude: 114 degrees W

Crop year precipitation (Sept. 1995 - Aug. 1996): 24.49", avg. 19.87"

Season precipitation (Apr.-Aug. 1996): 11.70", avg. 9.97"

Last frost in spring: 5/21/96 (31° F)

Maximum summer temperature: 91° F on 7/19/96

Irrigation: none

Fertilizer: 54 lbs N/a & 28 lbs P<sub>2</sub>O<sub>5</sub>/a

Weed control: Treflan - 0.5 lb ai/a

Seeding date: 4/17/96

Seeding rate: 7 lbs/acre

Design: RCB with 4 replicates

Plots: four 8 ft rows spaced 12 in apart; 24 inches between plots

Harvest area: 38 ft<sup>2</sup>