

YEAR/PROJECT: 1995/758 Spring Canola Variety Trial - Dryland

PERSONNEL: Leon Welty, NWARC
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In cooperation with Dr. Jack Brown, Univ. of Idaho

Twenty-five varieties were evaluated for the 1995 PNW Canola Variety Trial and eight for Svalof Weibull Seed Ltd. The two nurseries were seeded next to each other in separate RCB designs with four replicates on April 25, 1995. Maturation time ranged from 103 to 118 days after seeding. Three varieties, which were hybrids of winter and spring types, never reached maturity and were still flowering after 126 days. Many plants showed Sclerotinea symptoms, due to the wet, cool season. Four varieties produced over 4000 lbs/acre of seed: 'Hyola.X045' and 'Hyola.401' from the PNW entries and 'Garrison' and 'Bullet' from Svalof. Mean yields were 2792 lbs/acre for PNW and 2961 lbs/acre for Svalof.

1995 PNW CANOLA VARIETY TRIAL - KALISPELL, MONTANA

VARIETY	EMERGENCE	VIGOR	HEIGHT	MATURITY	YIELD
	days after seeding	(0-5)	inches	days after seeding	lbs/acre
Hyola.X045	9.5	4.0	56.6	112	4416
Hyola.401	9.5	5.0	55.0	118	4240
Star	10.5	3.8	61.0	112	3817
Helios	10.3	4.3	68.5	118	3753
Drakkar	9.5	3.3	61.0	114	3702
HN.9462	9.3	3.9	69.0	112	3652
UI92.SN.80.6	9.0	3.6	60.0	118	3417
UI92.SN.88.1	10.8	2.5	59.8	113	3414
HN.9465	9.0	3.7	64.0	112	3261
Profit	10.3	3.3	61.3	113	3057
Legend	10.8	3.3	54.0	106	2983
HN.9466	9.5	4.6	56.6	111	2933
Frontier	9.5	5.0	55.9	106	2930
HN.9452	9.0	4.7	64.3	111	2900
HN.9464	9.8	3.3	65.1	110	2766
HN.9460	9.5	3.3	63.1	111	2744
Bounty	10.0	3.3	62.3	108	2698
HYSIN.110	8.0	4.7	49.3	104	2403
Springfield	9.3	4.3	52.0	107	2398
Westar	14.5	1.5	57.5	107	2059
Tobin	8.5	4.8	50.3	105	1591
Goldrush	9.0	4.5	43.8	104	1411
HN.9331	10.0	4.3	76.5	127	1359
HN.9332	9.3	4.5	70.0	126	1047
HN.090.91	8.8	4.5	71.0	127	838
mean	9.7	3.9	60.3	112	2792
LSD (0.05)	0.7	0.8	7.7	5	741

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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. 1994 - Aug. 1995): 22.6 inches

Season precipitation (Apr.-Aug. 1995): 12.7 inches

Last frost in spring: May 27 (32 degrees F)

Maximum summer temperature: 88 degrees F (Aug. 6)

Irrigation: none

Fertilizer: none

Weed control: by hand

Previous crop: fallow

Seeding date: 4/25/95

Seeding rate: 7 lbs/acre

Design: RCB with 4 replicates

Plots: four 8 ft rows spaced 12 in apart; 18 in between plots

Harvest area: 39 sq ft

1995 CANOLA VARIETY TRIAL - KALISPELL, MONTANA

Entries submitted by Svalof Weibull Seed Ltd.

VARIETY	EMERGENCE	VIGOR ^{1/}	HEIGHT	MATURITY	YIELD
	days after seeding	(0-5)	inches	days after seeding	lbs/acre
Garrison	9.0	4.3	63.7	112	4260
Bullet	9.0	3.4	54.2	106	3688
Battalion	10.0	4.5	61.8	114	3352
Legacy	9.0	4.1	52.8	107	3345
Crusher	11.0	2.5	57.8	112	3171
Princeton	11.0	2.8	61.1	110	2888
Horizon	9.0	4.8	45.3	104	1651
Maverick	8.0	4.5	45.5	103	1336
mean	9.5	3.9	55.3	108	2961
LSD (0.05)	0.6	0.7	5.5	5	745

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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. 1994 - Aug. 1995): 22.6 inches

Season precipitation (Apr.-Aug. 1995): 12.7 inches

Last frost in spring: May 27 (32 degrees F)

Maximum summer temperature: 88 degrees F (Aug. 6)

Irrigation: none

Fertilizer: 80 lbs N + 40 lbs P2O5 / acre on 4/26/95

Weed control: by hand

Previous crop: fallow

Seeding date: 4/25/95

Seeding rate: 7 lbs/acre

Design: RCB with 4 replicates

Plots: four 8 ft rows spaced 12 in apart; 18 in between plots

Harvest area: 39 sq ft