

YEAR/PROJECT: 1989-90/758 WINTER RAPESEED (CANOLA) VARIETY
TRIAL - DRYLAND

PERSONNEL: Leader - Leon Welty
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In cooperation with Dr. Dick Auld, Univ. of Idaho

Twenty-four varieties of Brassica napus (Argentine rape) and six varieties of B. campestris (Polish rape) were seeded 8/29/89. On the average, B. campestris flowered and matured about one week before B. napus. Yields of B. napus ranged from 5688 lbs/a (KWC386) to 2841 lbs/a (LEI-III). Yields of B. campestris ranged from 3430 lbs/a (SVO1532) to 2536 lbs/a (SVO1552). B. napus varieties yielding more than 4000 lbs/a included KWC386, Diadem, Glacier, Ceres, KWC158, ES-8917, ES-8918, SVO216 and KWC4. B. campestris varieties yielded from 3430 lbs/a (SVO1532) to 2536 lbs/a (SVO1552). Precipitation during the 1989-1990 crop year was over 6 inches higher than average, and the frost-free period was 37 days longer than average. In the absence of summer drought stress and with longer fall and earlier spring growth periods, B. napus varieties produced more seed than B. campestris varieties. Under dryer and colder conditions, however, the earlier flowering and maturation periods and better shatter resistance of B. campestris may be advantageous.

NATIONAL WINTER RAPESEED VARIETY TRIAL - KALISPELL, MT - 1989-90

Brassica napus

VARIETY	EMERGENCE date	STAND		FIRST FLOWER date	MATURITY date	HEIGHT in	YIELD lbs/a
		Fall %	Spring %				
KWC386	9/7	76	63	5/17	7/23	60	5688
Diadem	9/6	88	69	5/18	7/22	58	4727
Glacier	9/7	67	76	5/18	7/23	61	4558
Ceres	9/6	65	58	5/15	7/21	62	4396
KWC158	9/5	79	70	5/13	7/19	61	4277
ES-8917	9/5	93	62	5/15	7/22	60	4096
ES-8918	9/5	90	66	5/16	7/23	56	4094
SVO216	9/6	72	76	5/12	7/20	60	4076
KWC4	9/5	91	68	5/15	7/20	57	4044
Samourai	9/5	89	49	5/11	7/24	50	3850
Crystal	9/7	76	77	5/18	7/22	56	3847
SVO255	9/6	79	70	5/16	7/22	56	3801
ES-8916	9/6	81	74	5/15	7/21	55	3705
SVO506	9/5	87	86	5/16	7/22	56	3646
Bienvenu	9/5	97	75	5/9	7/21	49	3642
Cobra	9/4	93	58	5/16	7/22	60	3547
SVO508	9/5	94	63	5/13	7/21	60	3307
Bridger	9/6	78	77	5/11	7/20	60	3279
Tapidor	9/5	91	62	5/12	7/20	51	3197
Cascade	9/6	81	81	5/10	7/19	50	3087
Humus	9/5	84	74	5/9	7/18	55	3028
Aspen	9/5	89	75	5/11	7/21	52	3012
Olein	9/6	94	79	5/12	7/18	51	2876
LEI-III	9/6	67	81	5/12	7/20	57	2841
Average	9/6	83	81	5/13	7/21	143	3776
LSD(0.05)	1	12	14	2	3	6	772
P-VALUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CV(s/mean)	13.4	10.2	14.6	9.5	9.0	6.9	14.5

Seeding date: 8/29/89

Fertilizer: Fall, 1989 - P2O5 - 44 lbs/a

Spring, 1990 - N - 85 lbs/a

Pesticides: 8/29/89 - Treflan - 0.5 lb AI/a

NATIONAL WINTER RAPESEED VARIETY TRIAL - KALISPELL, MT - 1989-90
Brassica campestris

VARIETY	EMERGENCE date	STAND		FIRST		HEIGHT in	YIELD lbs/a
		Fall %	Spring %	FLOWER date	MATURITY date		
	/89			/90	/90		
Ceres *	9/7	54	63	5/17	7/22	60	5763
Bienvenu *	9/7	62	68	5/11	7/22	48	4712
Tapidor *	9/7	67	66	5/12	7/21	51	4282
Cascade *	9/7	66	72	5/11	7/19	54	4105
SVO1532	9/6	56	87	5/5	7/14	63	3430
SV PER	9/5	82	95	5/4	7/11	64	3420
SVO1551	9/7	43	72	5/5	7/10	66	3089
SVO1531	9/5	74	96	5/5	7/9	62	2716
SVO1533	9/6	54	82	5/5	7/10	67	2682
SVO1552	9/6	55	82	5/5	7/10	63	2536
LSD(0.05)	1	13	11	3	3	7	761
P-VALUE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CV(s/mean)	7.2	14.3	9.9	25.3	12.5	8.5	16.0

* *B. napus* checks

Seeding date: 8/29/89

Fertilizer: Fall, 1989 - P2O5 - 44 lbs/a

Spring, 1990 - N - 85 lbs/a

Pesticides: 8/29/89 - Treflan - 0.5 lb AI/a