

YEAR/PROJECT: 1988/758 WINTER RAPESEED NATIONAL VARIETY TRIAL

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Sixteen varieties of winter rapeseed were planted on 8/19/87 in field P-2 at 16 lbs/a seeding rate. Treflan was incorporated at 1/2 lb. AI/a just prior to seeding. N fertilizer was applied at 70 lbs/a on 4/6/88.

Stand counts were made approximately one week after emergence in the fall and on 4/12/88 the following spring to determine % survival over winter. Because of standing water in the spring, reps 3 and 4 had very low stands. Bridger, Dwarf Essex, and Cascade had the highest fall stands, while Crystal and SV0220 had the lowest. In the spring, SV0261 stands were best, while Jet Neuf was lowest. SV0261 had the highest over-winter survival rate, while AWR0107, Jet Neuf, and Dwarf Essex had the poorest. SV0223 was rated highest for spring vigor, and Bienvenu and AWR0110 were poorest. On 5/23/88 two racemes in each plot were enclosed in bags to obtain self-pollinated seed for determination of fatty acid composition and glucosinolate content. The date when 50% of the plants in a plot had racemes with open flowers was recorded. Cascade and SV0261 matured earliest, while KB-3 was latest. Plant height was measured when each variety reached maturity. SV0261 was tallest at maturity and Bridger was shortest. The plants were cut and bundled to be thrashed with the Hege plot combine when dry. A harvest area of 72 square feet (6'x12') was used to determine yields. Because of the sparse stands in reps 3 and 4, plot weights from reps 1 and 2 only were used. KB-3 and SV0223 produced the highest yields, and SV0261 and AWR0110 produced the lowest. Note that SV0261, which had the 2nd lowest yields, had the best over-winter survival, was tallest and earliest to mature, and was highly rated for spring vigor. Apparently this variety sacrifices seed production for more vegetative growth.

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Kalispell, MT

VARIETY -----	FALL STAND --plants/sqft--	SPRING STAND	SURV --%--	BLOOM date	VIGOR 0-5	MATUR date	HT in	YIELD lbs/a
KB-3	25.5	12.4	49	5/15	4.5	7/22	48	3166
SV0223	33.0	14.2	43	5/11	5.0	7/13	44	2368
Jet Neuf	25.0	6.1	24	5/13	2.5	7/18	40	2270
KB-1	33.0	10.7	33	5/14	3.0	7/10	42	2210
Bridger	41.5	13.4	33	5/12	3.5	7/12	31	1923
Crystal	24.0	12.0	51	5/14	4.5	7/13	49	1915
Glacier	34.0	11.3	34	5/15	3.5	7/14	44	1869
SV0253	27.5	7.9	29	5/14	4.5	7/15	45	1786
Dwarf Essex	39.5	8.4	22	5/14	4.0	7/17	43	1784
AWR0107	29.0	7.4	25	5/12	3.0	7/12	43	1728
Bienvenu	29.0	8.2	28	5/11	2.0	7/12	37	1686
SV0220	23.0	7.9	35	5/13	2.5	7/14	43	1611
SV0238	27.0	7.3	27	5/15	3.0	7/15	44	1522
Cascade	39.5	13.9	36	5/10	2.5	7/7	42	1465
SV0261	31.0	17.7	57	5/14	4.5	7/7	54	1451
AWR0110	30.5	9.4	31	5/13	2.0	7/14	35	1285
LSD(0.05)	5.0	5.8	23	2	1.4	4	5	808
P-VALUE	0.00	0.03	0.13	0.00	0.00	0.00	0.00	0.02
CV(s/mean)	7.6	26.1	31	6.6	18.9	15.4	6	20.2