

PROJECT TITLE Pacific Northwest Canola Variety Trial

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OBJECTIVE: To compare seed yield potential of experimental canola breeding lines in comparison with available varieties in a northwest Montana environment.

METHODS: Thirty cultivars/experimental lines of canola were seeded 4/26/04. Each plot consisted of 7-20' rows with 6" row spacing and 2' between plots. Seeding rate was 6 lbs/acre. The varieties were arranged in a split block configuration with 4 replicates. Stand establishment was evaluated by counting plants in square foot quadrats in each plot. The date on which 50% of the plants bloomed was recorded for each plot.

All plots were sprayed with Paraquat on 8/11/04 to facilitate drying prior to harvest. The trial was harvested with a Hege plot combine on 9/8/04. The seed was dried and weighed for yield determination, and 1-pint samples from each were weighed to determine test weight.

RESULTS: Stand establishment was good, with 'HyClass 2061 RR', 'Profit', 'UISC00.3.1.7', and 'UISH03.2' having over 30 plants/ft². 'Goldrush' was the earliest to bloom. Plant height varied from 48 to 58 inches. Because of late August rains, harvesting was difficult, and some seed had sprouted. Many plots lodged severely. Seed yield ranged from 1027 lbs/acre (Goldrush) to 2488 lbs/acre ('KAB.36'). Test weight ranged from 48.8 lbs/bu ('Sterling') to 53.6 lbs/bu ('IMC 210RR').

A table summarizing this data is presented on the next page

PACIFIC NORTHWEST CANOLA VARIETY TRIAL

Kalispell, 2004

<u>Variety</u>	<u>Stand</u> #/sqft	<u>1st Blm.</u> day*	<u>Height</u> in	<u>Maturity</u> day*	<u>Yield</u> lbs/a	<u>Test</u> <u>Weight</u> lbs/bu
UISH00.3.13.25	25.5	60	50	104	ms	ms
KAB.36	22.5	64	52	107	2488	49.8
HyClass 2061 RR	32.3	61	54	107	2319	50.6
SW Marksman RR	26.3	62	53	108	2304	51.6
UISH00.3.19.23	29.3	61	51	106	2237	49.9
UISC00.3.1.17	19.8	60	55	107	2125	50.3
DLK 225 RR	14.8	59	53	106	2096	50.6
Hylite 225	24.5	60	49	106	2096	51.1
Sterling	24.5	60	50	105	2055	48.8
UISC00.3.8.DE	20.3	60	49	105	1913	49.6
CNH 1503RR	19.5	62	58	106	1871	50.8
IMC 209RR	23.5	65	56	108	1831	52.1
CNH 1501RR	13.0	61	56	108	1827	51.6
Hyola 357 Magn	23.3	60	50	107	1827	50.4
Premier	21.0	60	52	106	1811	53.2
Sunrise	20.0	62	52	107	1804	51.5
Gem CF	24.5	60	50	107	1803	50.1
Hyola 401	22.8	60	48	108	1772	50.9
UISC02.4.18	21.8	60	50	105	1760	51.3
Profit	33.3	60	55	108	1740	50.3
UISC00.1.3.5	24.5	60	52	104	1629	50.9
UISC00.3.1.7	31.5	60	48	105	1600	49.8
Clearwater CF	23.5	64	54	105	1582	51.6
CNR 603	26.0	65	51	108	1558	52.1
IMC 210RR	27.8	65	53	108	1492	53.6
Hero	14.0	60	52	105	1371	50.4
UISH03.2	38.5	62	52	104	1353	51.0
Westar	14.3	63	52	105	1343	51.0
CNH 1604RR	23.3	63	57	108	1343	49.0
Goldrush	19.0	48	53	103	1027	53.0
mean	23.5	61	52	106	1792	50.9
LSD(0.05)	10.5	2	5	2	927	1.6
Pr>F	0.000	< 0.0001	0.006	< 0.0001	0.035	0.016