

PRAIRIE CANOLA VARIETY TRIALS 2006 Test Results

Choose your varieties based on comprehensive, objective data.

Prairie Canola Variety Trials (PCVT) coordinated by the Canola Council of Canada were conducted in 2006 across western Canada according to a standard protocol used by seed companies, government researchers and independent contractors in three growing zones across the prairies—short season, mid-season and long season. Two replicated tests took place at each site to group together varieties with similar maturity and to ensure that valid statistical comparisons could be made among varieties.

Test plots were kept weed free using conventional herbicides depending on the weeds at each site. Herbicide-tolerant varieties were not sprayed with their companion herbicide. Each zone has been identified on the accompanying map. Variety characteristics appear in one table.

Trial results at the individual sites are presented in tables according to the three growing season zones and the two tests.

USE THESE GUIDELINES TO HELP SELECT VARIETIES:

Weed control system

- What are the weeds on the field chosen to grow canola?
- What is the weed spectrum of the different herbicides in each weed control system (Roundup, Liberty, CLEARFIELD or conventional)?
- What is the current herbicide rotation? Remember to rotate herbicides between different groups to delay the development of weed resistance.
- Is there potential herbicide carryover (especially Group 2) that would influence crop or variety choice?

CONSIDER BLACKLEG RESISTANCE

Choose a variety that is MR (moderately resistant) or R (resistant) to blackleg. Two new strains of blackleg (PG3 and PG4) have been confirmed in western Canada and not all varieties will have resistance to this new strain. Blackleg cankers from these new strains may develop on varieties rated as resistant.

EVALUATE YIELD POTENTIAL

Check the PCVT results for information on yield. Look at locations across the growing zone and at the zone average. Ask a seed dealer for more information on the varieties. Review additional data on the Canola Performance On-line Database at www.canola-council.org/POD. Consider other information such as maturity, lodging resistance and cost.



Interpreting PCVT information

Use the site map to identify the closest growing zone and the trial locations. But don't limit the analysis to the closest growing areas. Compare local results to other locations within the same zone.

Zone tables show the actual yield of the check (Brassica napus – 46A65) and other variety yields relative to the check. Two tests were conducted at each site. Compare each variety to the check

variety—not to other varieties. Comparisons between varieties in different tests are not statistically valid, even if they were at the same location. Although variety trials are conducted very carefully, small percentage differences in yield are usually meaningless.

Check the Least Significant Difference (LSD) of the test. If the difference between two varieties is less than the LSD, the varieties are not considered different.

The Coefficient of Variation (CV) gives an indication of the random variability in the test. The smaller the CV, the better the test.

The characteristics table includes yield and additional information on maturity, resistance to lodging, blackleg resistance, varietal type (open-pollinated, hybrid, synthetic) and herbicide tolerance. Use this information in addition to yield to choose a variety.



All season zone summary

VARIETY <i>B. napus</i> (ARGENTINE)	Type	2004 Yield	2005 Yield	2006 Yield % of 46A65				Days to Maturity				Height	Lodging	Rating + = "better"	Blackleg Rating	Organization	
		% of 46A65 All Zones Avg	% of 46A65 All Zones Avg	Zones (Station Years)				+/- days to 46A65 Zones									
				Short (8)	Mid (13)	Long (11)	All Zone Average	Short	Mid	Long	All Zones	+/- inches					
Conventional																	
46A65	OP	100	100	100	100	100	100	0	0	0	0	0	0	0	R		Pioneer Hi-Bred Production Ltd.
Roper	OP				89		89		0			3	0	R			Seed Industry Partnership (SIP)
Clearfield																	
292 CL	OP		104	106	100	107	104	1	0	1	1	-1	0	R			Agricore United
45P70	Hyb			120	122	121	121	-1	-1	1	0	2	0	R			Agricore United
71-20 CL	Hyb		104	104	106		105	-2	-2		-2	0	0	R			DEKALB/Monsanto Canada Inc.
Nex 828 CL	OP**		96	96	91	94		2	5	3	4	0	R				Dow AgroScience
Manor	OP		103	105	101	100	102	2	1	3	2	0	0	MS			FarmPure Seeds Inc.
45H72	Hyb	112	112	112	114	119	115	-1	-2	1	-1	3	0	R			Pioneer Hi-Bred Production Ltd.
45H73	Hyb			118	124	125	123	-2	-2	0	-1	2	0	R			Pioneer Hi-Bred Production Ltd.
SP Force CL	OP			92	99	102	98	1	-1	3	1	1	0	R			Saskatchewan Wheat Pool Inc.
Liberty Link																	
5020	Hyb	124	126	124	127	131	127	-1	-4	0	-2	0	0	R			Bayer CropScience
5030	Hyb	128	129	126	131	130	129	-2	-1	3	0	5	0	R			Bayer CropScience
5070	Hyb	128	128	128	131	125	128	-1	-1	4	0	5	0	R			Bayer CropScience
9590	Hyb			124	127	128	127	-2	-2	1	-1	2	0	R			Bayer CropScience
74P00 LL	OP			104	98	108	103	1	0	2	1	-1	0	MS			FarmPure Seeds Inc.
BCS301L	OP*			105	107	111	108	-2	-1	1	-1	1	0	MR			FarmPure Seeds Inc.
Roundup Ready																	
46P50	Hyb			127	128	121	125	1	1	3	2	3	0	R			Agricore United
9551	OP			107	107	100	105	0	-1	1	0	1	0	MR			Agricore United
997 RR	OP			105	109	103	106	0	-1	1	0	0	0	R			Brett Young Seeds
1759 S	Syn			105	107	110	108	-1	-3	0	-1	0	0	MR			Canterra Seed
1818	OP		110	110	105	108	107	1	0	2	1	-3	0	R			Canterra Seed
1839 V	OP		97	99			99	-2			-2	-4	0	MR			Canterra Seed
1841	Hyb	110	115		117	112	115		0	4	2	3	0	R			Canterra Seed
1851 H	Hyb		111		110		110		-1		-1	0	0	MR			Canterra Seed
1852 H	Hyb			114	114	110	113	-1	-3	0	-1	2	0	R			Canterra Seed
1878 V	OP				104	105	104		0	3	1	1	0	MR			Canterra Seed
1896	Hyb	101	101	102	107		105	-1	-3		-2	0	0	R			Canterra Seed
IMC209RR	OP**	89	97			92	92			5	5	2	0	MR			Cargill Specialty Canola Oil
v1030	Hyb**		110	108	118	107	112	-1	-2	0	-1	2	0	MR			Cargill Specialty Canola Oil
v1031	Hyb**	106	110	110	120	108	114	-1	-1	2	0	3	0	MR			Cargill Specialty Canola Oil
v1035	Hyb**			122	128	120	124	-1	-1	1	0	0	0	R			Cargill Specialty Canola Oil
45H21	Hyb	116	116	117	121	121	120	-2	-3	0	-2	0	0	R			Pioneer Hi-Bred Production Ltd.
32-75	OP			106			106	-1			-1	-4	0	R			DEKALB/Monsanto Canada Inc.
34-65	OP				107	107	107		-2	0	-1	1	0	R			DEKALB/Monsanto Canada Inc.
71-45 RR	Hyb		112	119	122	117	120	-2	-4	0	-2	0	0	MR			DEKALB/Monsanto Canada Inc.
Reaper	OP		99	97	91	95	94	2	1	3	2	0	0	R			FarmPure Seeds Inc.
43A56	OP	94	91	104	100		102	-5	-6		-6	-1	0	MR			Pioneer Hi-Bred Production Ltd.
45H24	Hyb	116	115	121	120	120	120	-2	-2	0	-2	3	0	R			Pioneer Hi-Bred Production Ltd.
45H25	Hyb		113	114	121	116	118	-2	-3	-1	-2	3	0	R			Pioneer Hi-Bred Production Ltd.
45H26	Hyb			125	126	125	126	-3	-2	0	-2	1	0	R			Pioneer Hi-Bred Production Ltd.
SP Banner	OP	101	98	104	105	98	102	0	-1	1	0	0	0	R			Saskatchewan Wheat Pool Inc.
SP Desirable	Syn	107	110	112	114	112	113	-2	-3	-1	-2	1	0	R			Saskatchewan Wheat Pool Inc.
SW-PF 02-3902	Syn*			112	110	112	111	-2	-2	2	-1	2	0	R			Saskatchewan Wheat Pool Inc.
SP 621 RR	Hyb			112	114		113	-1	-3		-2	0	0	MR			Saskatchewan Wheat Pool Inc.
SP Favourable RR	Syn			113	117	117	116	1	0	3	1	2	0	MR			Saskatchewan Wheat Pool Inc.
Café	OP			101	96		98	-3	-5		-4	-2	0	R			SeCan
Fortune RR	OP	93		99	96		97	-1	-2		-1	1	0	R			SeCan
SW H5263 RR	OP*			108	103	98	103	1	0	4	1	-1	0	R			SW Seed Ltd.
SW H5269 RR	Hyb*			112	115	111	113	-1	-1	1	0	2	0	R			SW Seed Ltd.
SW H5289 RR	Hyb*			109	106	108	107	-1	-3	1	-1	0	0	R			SW Seed Ltd.

Type: OP - open pollinated; Syn - synthetic; and Hyb - hybrid • * Not registered ** Specialty oil • PCVT information is available on-line at www.canola-council.org

Site specific information

Short Season Zone Test 2

VARIETY <i>B. napus</i> (ARGENTINE)	2006 Average Yield	Didsbury, AB	Ft. St. John, BC	Ft. Vermillion, AB	Lacombe, AB	Nestow, AB	Rycroft, AB	Shellbrook, SK	Westlock, AB
Conventional									
46A65	100	100	100	100	100	100	100	100	100
Clearfield Res									
292 CL	106	107	115	112	94	101	108	100	108
45P70	120	119	127	119	111	124	113	121	126
Manor	105	104	114	97	102	114	105	96	107
45H72	112	112	120	100	97	116	107	118	125
SP Force CL	92	82	95	105	89	95	94	87	85
Liberty Res									
5030	126	119	139	117	114	138	115	141	128
5070	128	123	138	124	116	139	118	138	131
74P00 LL	104	104	113	102	81	111	108	95	114
BCS301L*	105	108	115	104	88	113	105	104	105
Roundup Res									
46P50	127	130	137	134	115	137	114	125	124
1818	110	111	123	91	92	125	112	105	119
v1030**	108	112	114	91	100	111	104	104	124
v1031**	110	112	112	111	103	107	96	122	114
v1035**	122	119	135	134	99	133	115	125	116
45H21	120	116	118	129	112	131	108	121	124
Reaper	97	93	90	128	95	97	94	108	72
45H24	121	116	126	126	107	127	109	125	131
45H26	125	125	127	116	125	132	116	121	136
SP Banner	104	106	116	96	102	116	101	88	108
SW-PF 02-3902*	112	107	110	114	105	124	105	116	112
SP Favourable RR	113	117	106	111	100	124	109	121	118
Fortune RR	99	98	105	99	100	101	100	94	98
SW H5263 RR*	108	104	121	130	100	108	102	98	100
SW H5269 RR*	112	112	116	119	113	117	102	116	103
46A65 Yield (bu/ac)	35	43	24	45	28	30	35	36	42
CV		6	8	12	11	6	5	6	8
LSD .05 (AS % OF 46A65)		9	13	20	15	11	7	9	13

*Not registered **Specialty oil

Short Season Zone Test 1

VARIETY <i>B. napus</i> (ARGENTINE)	2006 Average Yield	Didsbury, AB	Ft. St. John, BC	Ft. Vermillion, AB	Lacombe, AB	Nestow, AB	Rycroft, AB	Shellbrook, SK	Westlock, AB
Conventional									
46A65	100	100	100	100	100	100	100	100	100
Clearfield Res									
71-20 CL	104	103	109	125	91	99	105	93	111
45H73	118	109	123	125	107	118	113	129	121
Liberty Res									
5020	124	117	122	132	113	125	120	136	126
9590	124	112	127	124	120	126	121	136	127
Roundup Res									
9551	107	100	127	105	93	114	107	103	107
997 RR	105	98	110	119	92	101	104	108	106
1759 S	105	96	124	114	98	106	111	85	106
1839 V	99	96	101	118	85	99	102	87	106
1852 H	114	103	130	121	105	109	114	112	115
1896	102	99	112	103	92	104	109	91	105
45H21	115	107	117	125	102	118	114	115	120
32-75	106	102	117	112	98	106	106	88	115
71-45 RR	119	116	145	115	104	119	115	117	124
43A56	104	106	107	103	85	113	104	96	114
45H25	114	101	121	123	99	113	112	122	118
SP Desirable	112	105	110	126	101	116	103	121	111
SP 621 RR	112	100	122	120	107	116	107	107	116
Café	101	97	109	121	93	102	102	81	107
SW H5289 RR*	109	102	117	111	97	111	106	112	116
46A65 Yield (bu/ac)	35	46	22	33	26	30	42	36	45
CV		5	8	14	13	4	4	9	6
LSD .05 (AS % OF 46A65)		7	14	23	18	7	6	13	10

*Not registered

Mid Season Zone Test 2

VARIETY <i>B. napus</i> (ARGENTINE)	2006 Average Yield	Aberdeen, SK	Asquith, SK	Camrose, AB	Ft. Saskatchewan, AB	Kelvington, SK	Kitscoty, AB	Lake Lenore, SK	Lashburn, SK	Melfort, SK	North Battleford, SK	Rosthern, SK	Trochu, AB	Watrous, SK
Conventional														
46A65	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Roper	89	102	106	97	84	71	72	104	123	66	45	101	81	99
Clearfield Res														
292 CL	100	77	99	97	112	105	97	105	108	99	88	93	115	109
45P70	122	115	117	110	162	109	115	123	141	110	111	109	131	130
Nex 828 CL**	96	115	93	94	97	113	82	107	93	73	103	92	91	100
Manor	101	107	94	110	110	85	98	111	97	95	95	98	105	104
SP Force CL	99	95	101	102	98	92	91	103	112	101	85	94	105	110
Liberty Res														
5030	131	110	133	114	190	107	120	129	154	125	123	129	131	134
5070	131	119	139	123	179	99	120	132	153	121	125	127	129	134
74P00 LL	98	101	103	104	96	86	101	105	100	81	63	105	107	117
Roundup Res														
46P50	128	126	126	122	169	119	117	124	151	130	118	121	123	122
1818	105	99	99	111	122	80	107	105	123	99	101	98	108	109
1841	117	113	125	104	119	90	100	119	160	112	110	115	125	128
1878 V	104	107	109	104	118	88	93	96	126	98	101	98	98	112
v1030**	118	122	114	118	154	89	109	110	142	105	113	120	122	114
v1031**	120	108	124	110	153	94	107	113	171	104	105	121	127	125
v1035**	128	123	134	120	170	100	116	122	160	117	117	117	133	131
45H21	119	100	111	111	148	104	114	117	154	111	109	122	131	122
34-65	107	76	105	100	149	84	108	109	137	96	105	104	106	105
Reaper	91	87	84	98	72	89	89	92	108	92	87	97	86	104
45H24	120	115	113	108	136	98	116	120	162	119	112	128	126	112
SW-PF 02-3902*	110	110	110	94	140	73	104	103	142	105	103	111	119	109
SP Favourable RR	117	120	125	122	131	84	112	109	137	110	111	117	119	120
Fortune RR	96	91	102	98	118	80	89	91	115	88	79	96	97	97
46A65 Yield (bu/ac)	48	41	39	47	30	37	41	64	29	52	41	67	69	67
CV	13	12	7	11	11	6	8	9	7	6	7	10	11	11
LSD .05 (AS % OF 46A65)	20	19	10	21	15	8	13	16	10	9	11	16	17	17

*Not registered **Specialty oil

Mid Season Zone Test 1

VARIETY <i>B. napus</i> (ARGENTINE)	2006 Average Yield	Aberdeen, SK	Asquith, SK	Camrose, AB	Ft. Saskatchewan, AB	Kelvington, SK	Kitscoty, AB	Lake Lenore, SK	Lashburn, SK	Melfort, SK	North Battleford, SK	Rosthern, SK	Trochu, AB	Watrous, SK
Conventional														
46A65	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Clearfield Res														
71-20 CL	106	98	112	104	135	89	101	97	124	106	95	113	105	94
45H72	114	106	120	110	155	96	112	106	131	108	116	112	112	98
45H73	124	107	136	116	155	99	118	123	175	118	114	121	117	117
Liberty Res														
5020	127	114	128	113	176	95	121	115	141	129	125	139	123	127
9590	127	120	128	103	169	93	130	121	156	132	122	127	127	125
BCS301L*	107	103	112	113	126	86	101	99	124	110	99	105	104	108
Roundup Res														
9551	107	107	110	91	116	91	103	105	139	115	90	102	113	112
997 RR	109	102	98	112	113	102	104	102	159	117	100	91	98	114
1759 S	107	101	113	94	112	84	102	103	132	123	94	111	109	117
1851 H	110	109	113	106	118	82	102	100	151	121	102	100	108	114
1852 H	114	105	100	111	122	90	108	109	149	133	109	112	112	122
1896	107	104	118	101	117	80	107	93	144	106	95	107	94	121
45H21	123	113	121	110	140	114	117	113	172	134	105	117	119	120
71-45 RR	122	123	120	125	159	95	115	105	159	127	113	112	113	124
43A56	100	91	96	97	102	100	99	84	145	111	90	88	99	102
45H25	121	116	122	109	138	88	118	115	169	137	114	125	118	108
45H26	126	109	124	124	143	117	125	117	187	136	114	123	106	118
SP Banner	105	106	100	111	116	98	106	95	140	102	90	106	96	101
SP Desirable	114	103	118	121	115	83	108	106	158	109	111	121	101	127
SP 621 RR	114	110	113	102	132	87	110	103	149	115	112	118	112	124
Café	96	96	102	91	98	91	99	93	125	101	87	104	90	75
SW H5263 RR*	103	102	101	99	99	76	104	102	150	111	98	103	102	96
SW H5269 RR*	115	102	123	79	134	90	110	113	160	122	106	106	112	133
SW H5289 RR*	106	98	111	104	109	90	107	91	148	120	100	109	104	88
46A65 Yield (bu/ac)	48	41	40	39	31	41	40	72	24	47	40	63	77	67
CV	12	9	12	10	8	4	8	11	7	7	7	11	12	12
LSD .05 (AS % OF 46A65)	18	14	18	19	10	7	12	23	12	10	11	17	22	22

*Not registered **Specialty oil

Site specific information

Long Season Zone Test 2

VARIETY <i>B. napus</i> (ARGENTINE)	2006 Average Yield	Arden, MB	Boissevain, MB	Brandon, MB	Elgin, MB	High Bluff, MB	Letellier, MB	Portage, MB	Rosebank, MB	Stonewall, MB	Thornhill, MB	Treherne, MB
Conventional												
46A65	100	100	100	100	100	100	100	100	100	100	100	100
Clearfield Res												
292 CL	107	125	111	113	118	99	101	92	98	99	105	115
Nex 828 CL**	91	96	102	92	81	94	102	84	96	61	94	94
Manor	100	121	123	102	95	96	87	96	95	85	88	118
SP Force CL	102	113	104	100	103	103	96	99	102	84	100	119
Liberty Res												
5030	130	167	125	135	127	139	123	113	131	116	110	143
5070	125	164	128	117	116	132	120	106	133	110	116	133
74P00 LL	108	127	96	109	108	111	104	107	107	89	108	122
Roundup Res												
46P50	121	152	129	121	105	119	104	114	119	122	112	131
1818	108	126	108	113	113	95	91	101	110	105	102	128
1841	112	132	116	114	103	114	102	112	120	96	102	126
1878 V	105	123	105	113	92	108	101	105	110	77	101	116
IMC209RR**	92	113	95	89	81	113	95	83	100	53	93	100
v1030**	107	129	112	108	89	111	106	101	104	109	99	109
v1031**	108	139	130	104	89	111	106	105	106	104	93	106
45H21	120	145	113	116	109	114	126	112	118	126	115	131
34-65	107	109	122	100	113	106	103	92	109	102	97	119
Reaper	95	100	84	101	101	102	90	93	96	78	97	100
45H24	120	143	126	126	117	123	131	104	121	102	98	127
SW-PF 02-3902*	112	132	114	117	112	114	117	95	125	104	90	116
SP Favourable RR	117	147	119	120	115	122	102	106	125	99	103	128
46A65 Yield (bu/ac)	46	49	42	50	42	62	38	71	42	24	44	39
CV		8	11	9	10	10	13	11	9	11	9	10
LSD .05 (AS % OF 46A65)		15	17	15	14	16	19	16	15	15	13	17

*Not registered **Specialty oil

Long Season Zone Test 1

VARIETY <i>B. napus</i> (ARGENTINE)	2006 Average Yield	Arden, MB	Boissevain, MB	Brandon, MB	Elgin, MB	High Bluff, MB	Letellier, MB	Portage, MB	Rosebank, MB	Stonewall, MB	Thornhill, MB	Treherne, MB
Conventional												
46A65	100	100	100	100	100	100	100	100	100	100	100	100
Clearfield Res												
45P70	121	133	128	133	120	119	137	93	122	128	104	109
45H72	119	147	142	119	111	123	125	100	108	129	93	109
45H73	125	150	146	149	116	121	131	102	114	134	95	118
Liberty Res												
5020	131	161	137	141	129	141	144	112	118	131	102	127
9590	128	167	116	151	122	141	149	98	115	126	93	125
BCS301L*	111	131	105	120	110	118	113	94	111	104	98	119
Roundup Res												
9551	100	123	106	107	106	104	100	79	93	85	97	105
997 RR	103	114	110	120	112	107	105	90	92	83	96	104
1759 S	110	136	124	108	114	120	120	89	112	93	96	99
1852 H	110	137	92	113	113	119	112	101	108	111	90	116
v1035**	120	135	140	123	114	124	124	97	116	125	102	120
45H21	121	146	123	123	120	116	125	96	119	132	105	126
71-45 RR	117	128	121	120	120	112	124	101	119	130	96	120
45H25	116	144	125	125	96	124	133	101	106	111	97	114
45H26	125	154	122	148	122	126	125	109	117	123	104	128
SP Banner	98	101	104	115	97	97	100	86	90	96	84	102
SP Desirable	112	124	120	133	109	112	125	82	105	120	95	105
SW H5263 RR*	98	105	105	114	96	111	105	76	92	80	87	106
SW H5269 RR*	111	139	120	104	117	119	121	87	93	108	92	118
SW H5289 RR*	108	123	107	122	108	115	126	88	93	95	93	118
46A65 Yield (bu/ac)	48	53	40	47	42	65	38	81	44	28	49	47
CV		6	12	12	10	7	9	10	9	11	8	8
LSD .05 (AS % OF 46A65)		12	21	24	15	12	16	13	13	18	10	13

*Not registered **Specialty oil