



APPLICATIONS UNDER EXAMINATION

CANOLA

CANOLA (*Brassica napus*)

Proposed denomination: '9552'
Application number: 08-6190
Application date: 2008/02/27
Applicant: Viterra Inc., Saskatoon, Saskatchewan
Breeder: Laurie Friesen, Saskatchewan Wheat Pool, Saskatoon, Saskatchewan

Varieties used for comparison: 'SP Banner', '9550', 'SWJ8001RR', 'NR04-04769' and 'NR04-01675'

Summary: '9552' has fewer leaf lobes per leaf than that of '9550', 'SWJ8001RR', 'NR04-04769', and 'NR04-01675'. The margin dentation of '9552' is shallower and less dense than that of 'SWJ8001RR' and '9550'. '9552' has shorter leaves than 'SWJ8001RR' and narrower leaves than '9550'. At full flowering, the plants of '9552' are shorter than 'SWJ8001RR' and 'NR04-01675'. '9552' flowers earlier than 'SWJ8001RR' and 'NR04-04769'. The flowers of '9552' have shorter petals than those of 'SP Banner', broader petals than 'SWJ8001RR' and narrower petals than 'SP Banner'. '9552' has a wider silique than 'SP Banner' and '9550'. The silique beak of '9552' is shorter than '9550' and longer than 'SWJ8001RR', 'NR04-04769' and 'NR04-01675'. 'NR04-04769'. '9552' has dark brown to black seeds whereas those of 'SWJ8001RR' are red brown to black. At maturity, the plants of '9552' are shorter than those of 'NR04-01675'. Note that 'SP Armada' was also included as a reference variety, however it differs from '9552' mostly by its susceptibility to glyphosate.

Description:

PLANT: open pollinated type, spring seasonal type

LEAF: dark green to blue green, very few lobes, rounded margin, very shallow to shallow dentation of margin, medium length, narrow to medium width

FLOWER PETALS: yellow, medium length, medium width

SILIQUE: semi-erect attitude, long, wide, medium length beak, medium length pedicel

SEED: dark brown to black

QUALITY CHARACTERISTICS: erucic acid is 0.27% of total fatty acids, very low glucosinolates (8.74 umol/gm)

HERBICIDE RESISTANCE: resistant to glyphosate herbicide

Origin and Breeding: '9552' (experimental designation NR04-04346) was developed by the Agriculture Research and Development Division of Viterra in Saskatoon, Saskatchewan. The variety originated from a cross made in 2003. Segregating generations were selected for maturity, lodging resistance, and seed quality. Roundup herbicide was applied at several stages of development to further select for herbicide resistant lines.

Tests and Trials: Test and trials for '9552' were conducted during the summers of 2007 and 2008 in Rosthern, Saskatchewan. Plots consisted of 6 rows per variety spaced 20 centimeters apart with a row length of 5.5 meters. There were 4 replicates arranged in an RCB design.

Comparison table for '9552'

	'9552'	'SP Banner'*	'9550'*	'SWJ8001RR'*	'NR04-04769'*	'NR04-01675'*
<i>Flowering date (days)</i>						
mean	46.6	45.5	47.1	49.7	49.5	47.4
<i>Silique length (mm)</i>						
mean	72.2	68.2	77.4	65.5	64.5	65.3
std. deviation	2.95	2.95	3.17	2.91	2.89	3.33
significance	N/A	not significant	p less than 0.0016	p less than 0.0016	p less than 0.0016	p less than 0.0016
<i>Silique width (mm)</i>						
mean	4.9	4.4	4.1	4.6	4.5	4.7
std. deviation	0.27	0.41	0.29	0.29	0.28	0.29
significance	N/A	p less than 0.01	p less than 0.01	not significant	not significant	not significant

*reference varieties



Canola: '9552' (left) with reference varieties from left to right: 'SP Banner', 'SP Armada', '9550', 'SWJ8001RR', 'NR04-04769' and 'NR04-01675'