

5.3 CANOLA

5.3.1 CANOLA VARIETY TRIAL (INVERLEIGH, VIC)

Abstract:

There are a number of excellent canola varieties available for producers in south west Victoria. It is important to consider many aspects of a variety such as disease resistance, maturity, standability, as well as yield and oil content before making the final selection. The choice of conventional, triazine tolerant or Clearfield types will depend upon the weed spectrum at planting. It would appear that Jockey® seed treatment is worth considering where Blackleg is a problem, although the benefit is dependent upon the variety being grown. This is supported by trial work from last year.

Researchers: Dom Bolton, Wes Arnott and Colin Hacking Southern Farming Systems Ltd

Location: Inverleigh

Growing Season Rainfall (Apr – Nov): 313mm

Background:

There are many canola varieties on the market which are suitable for producers to grow. This trial aims to provide further data for producers to evaluate when making their varietal selection.

Aim:

- To evaluate different canola varieties for yield and grain quality.
- To assess the value of using Jockey® as a seed treatment.

Methodology:

The trial was a split plot design, with each variety being replicated 4 times. The plot length was 11 metres. The varieties were grown on 2 metre raised beds.

Sowing Date: 31st May 2004 (sown dry)

Fertiliser:

Sowing 100 kg/ha Granulock CuZn plus 100 kg/ha Urea 3/9/04

Weed Control:

- 1.5 L/ha Simazine + 1.5 L/ha Atrazine on Triazine varieties
- Clearfield and Conventional varieties 250ml/ha Select + Hasten @ 1%

Harvest:

The trial was direct headed on 9th Dec 2004.

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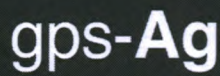
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Results:

Variety	Company	Type ⁶	Height cm	Yield kg/ha	Sig Diff					Shatter % ⁷	Oil %	Protein %
44C11 (J)	Pioneer	C	120	2,451	1					1.5	45.4	20.2
Tornado 555 (J)	Pac Seeds	TT	120	2,350	1					5.3	46.6	20.8
Spectrum (J)	Dovuro	C	90	2,324	1	1				1.0	44.9	20.3
AGC 114 (J)	Dovuro	C	100	2,299	1	1				1.5	49.1	18.6
Thunder (J)	Pac Seeds	TT	110	2,147	1	1	1			1.3	44.0	22.9
46C04 (J)	Pioneer	C	120	2,117	1	1	1			1.8	44.1	19.7
Beacon TT (J)	Dovuro	TT	100	2,115	1	1	1			4.5	44.1	20.8
Surpass 501 TT (J)	Pac Seeds	TT	100	2,102	1	1	1			9.5	47.8	20.0
46C76 (J)	Pioneer	CI	110	2,092	1	1	1			2.0	45.7	20.5
Hyola 60 (J)	Pac Seeds	C	140	2,058	1	1	1			18.3	45.7	21.5
Hyola 61 (no J)	Pac Seeds	C	120	2,000	1	1	1	1		3.3	43.6	20.6
Sapphire (J)	Dovuro	C	110	1,839		1	1	1		1.8	45.6	20.8
Grace TT (J)	Dovuro	TT	100	1,824		1	1	1		4.0	44.0	21.5
Tornado 555 (no J)	Pac Seeds	TT	110	1,730			1	1		5.5	46.5	21.2
46C75 (J)	Pioneer	CI	120	1,663			1	1	1	8.3	46.3	20.0
Hyola 61 (J)	Pac Seeds	C	110	1,661			1	1	1	2.5	44.3	20.7
45C05 (J)	Pioneer	C	90	1,647			1	1	1	2.8	44.2	19.5
Hyden TT (J)	Dovuro	TT	120	1,539				1	1	8.3	42.5	21.8
Surpass 603 CL (J)	Pac Seeds	CI	140	1,166					1	20.0	46.6	20.9
LSD 5%				506.96						3.2		
CV				24.52								

⁶ C = Conventional, TT = Triazine Tolerant, CI = Clearfield, J = seed treated with Jockey ® prior to planting

⁷ % Shattering at harvest

Discussion:

The results of the trial should be viewed in light of a high CV (Coefficient of Variation). This indicates that there was a high degree of variation within the trial, mainly caused through harvesting difficulties and the amount of grain shattering. This variation is however picked up when looking at the LSD figure. In terms of yield, any variety that yielded 507 kg/ha more than any other variety is significantly superior. Note that the top 11 varieties are not significantly different in yield. It is important to note also that the yield was adjusted for the amount of shattering. The degree of shattering does not indicate a poor variety, but simply the result of very windy and wet weather prior to harvest.

The poor result of Surpass 603 CL, Hyden TT and 45C05 does not reflect previous years' performance. It can possibly be explained by the high degree of shattering and perhaps greater losses at harvest.

The seed treatment Jockey ® gave a significant yield advantage with the variety Tornado 555, however the treatment had no significant impact on Hyola 61. There was a moderate level of the disease blackleg in the trial.