Australian Oilseeds Federation

Quality of Australian Canola 2003/04

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Volume No 10
ISSN 1322-9397

NSW Agriculture

AOF Australian Oilseeds Federation

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Acknowledgments

The Australian Oilseeds Federation would like to thank Graincorp Operations Limited and Ausbulk Limited for providing the canola samples from the 2003 harvest. Samples from the "National *Brassica* Improvement Project" were provided by N. Wratten, T. Potter, David Robson and T. Trent. The assistance from all those involved in the analysis of these samples and compilation of the book is greatly appreciated particularly V. Woodbury and R. Stooke.

Introduction

Welcome to the 10th edition of the Quality of Australian Canola Publication. This booklet is funded by the Australian Oilseeds Federation to provide the industry with quality data for the 2003 Australian canola harvest.

Sample Analysis

Canola samples representing the 2003 harvest were received from the bulk handlers in New South Wales, South Australia, and Victoria. These samples are representative of the seed collected at each of their receival points and have been taken to cumulatively represent the Australian harvest. No samples were received from the bulk handlers in Western Australia and therefore the Australian means are calculated on the data from New South Wales, South Australia and Victoria only. The Oils Research Laboratory has no control over the collection of the samples and all data given is based on the analysis of the samples provided.

Each sample was analysed for oil, protein and glucosinolate concentrations, fatty acid profiles and volumetric grain weights according to the standard AOF methods outlined in the methods section at the back of this book. All analyses were performed by the NSW Agriculture Oils Research Laboratory in Wagga Wagga.

Breeding Program Trials

An excerpt of the 2003 trial results for the "National *Brassica* Improvement Project" funded by the Grains Research and Development Corporation has been included. The project involves trials of potential new cultivars at various sites across New South Wales, South Australia, Victoria and Western Australia. Yield and quality data are collected and used to evaluate a cultivar's performance under a range of conditions. The quality parameters analysed by the Oils Research Laboratory were oil, protein and glucosinolate concentrations and fatty acid profiles. The quality results from one site from each state have been included to give an indication of the quality ranges for each cultivar however no yield data is published in this booklet. Due to limited data availability some fatty acid profile results are from different sites to the quality data.

Standard Moisture Content

The moisture content of Australian canola seed is generally very low as the crop matures into increasing summer temperatures and is left to dry in windrows prior to delivery to bulk handlers. Canola is delivered at moisture content of approximately 6% although this may vary. High moisture contents are undesirable as the seed will heat up in storage and cause loss of quality, particularly increased free fatty acids in the oil. The seed may also become mouldy and high temperatures may damage the protein. The Australian Oilseed Federation has set a standard of 8% maximum for moisture content of delivered canola seed.

Moisture also has a direct affect on seed composition with increased moisture resulting in proportional decreases in oil and protein. Previously oil results in this book have been calculated based on an 8.5% moisture basis and protein in oil-free meal at 13%, similar to that of Canada. However, this underestimates the oil and protein content of Australian seed as the moisture content is overrated. Future additions of the book will therefore show oil and glucosinolate concentration in seed at 6.0%

and protein in oil-free meal at 10%. The result will be slightly higher than previously but can be simply recalculated to compare results from previous years if necessary.

Table 1. Comparison of quality parameters in canola at different moisture contents

%Oil content @		%Protein in oil free meal @		Glucosinolate (µmoles/ gram) @	
6% moisture	8.5% moisture	10% moisture	13% moisture	6% moisture	8.5% moisture
39.0	38.0	36.0	34.8	4.0	3.9
40.0	38.9	37.0	35.8	6.0	5.8
41.0	39.9	38.0	36.7	8.0	7.8
42.0	40.9	39.0	37.7	10.0	9.7
43.0	41.9	40.0	38.7	12.0	11.7
44.0	42.8	41.0	39.6	14.0	13.6
45.0	43.8	42.0	40.6	16.0	15.6

Weather and Production Review

The Season

Similar to the situation in 2002, the 2003 growing season across Australia had a variable start. Both South Australia and Western Australia benefited from a good autumn break in early May which enabled plantings in most districts to be completed on or close to time with crops off to a good start. However, in the Eastern States poor to marginal soil moisture conditions and below average autumn rainfall delayed planting beyond the optimum sowing window in many districts. These conditions, combined with grower reaction to the poor results achieved in the drought affected 2002 growing season, resulted in a significant reduction in canola plantings in New South Wales.

In both Victoria and New South Wales, the marginal soil moisture levels and patchy falls of rain at planting caused varying levels of moisture stress in seedling crops resulting in a wide range in plant development throughout the season.

Favourable winter rainfall across most of the main canola growing areas in South Australia and Western Australia benefited crops in these states setting them up for good yield potentials. Despite the low soil moisture levels and variable early winter rainfall crops in the major growing districts of the Wimmera and Mallee in Victoria made satisfactory growth throughout the winter. In New South Wales patchy rainfall combined with poor soil moisture levels caused crops to continue to deteriorate throughout the early winter period. These uncertain conditions also prompted many growers to forgo planned fertiliser topdressing of crops. Fortunately, in both Victoria and New South Wales most districts benefited from widespread rain during August which resulted in a significant improvement in the prospects for a reasonable harvest.

Spring conditions across most of South Australia and Western Australia and parts of Victoria, particularly the Wimmera and Western districts were excellent with crops responding to the generally mild temperatures and favourable conditions resulting in above average yields in these states. However, in New South Wales heavy frosts in late September had a significant adverse impact on many crops particularly in the Central West region of the state. This, combined with hot dry finishing conditions in both the central and southern regions resulted in yields for the state being below average.

Seed oil contents in all states were higher than expected particularly in New South Wales where dry conditions in many districts were not conducive to achieving high oil levels. Western Australia achieved its highest average oil level ever recorded. The canola prices received by growers in 2003 were satisfactory.

One common and favourable aspect of the 2003 growing season right across Australia was the generally low level of disease and insect problems experienced in crops. However, on the Eyre Peninsula in South Australia there were reports of a major breakdown of resistance to the disease blackleg in varieties carrying only the *B. sylvestris* gene for resistance.

Area and Production

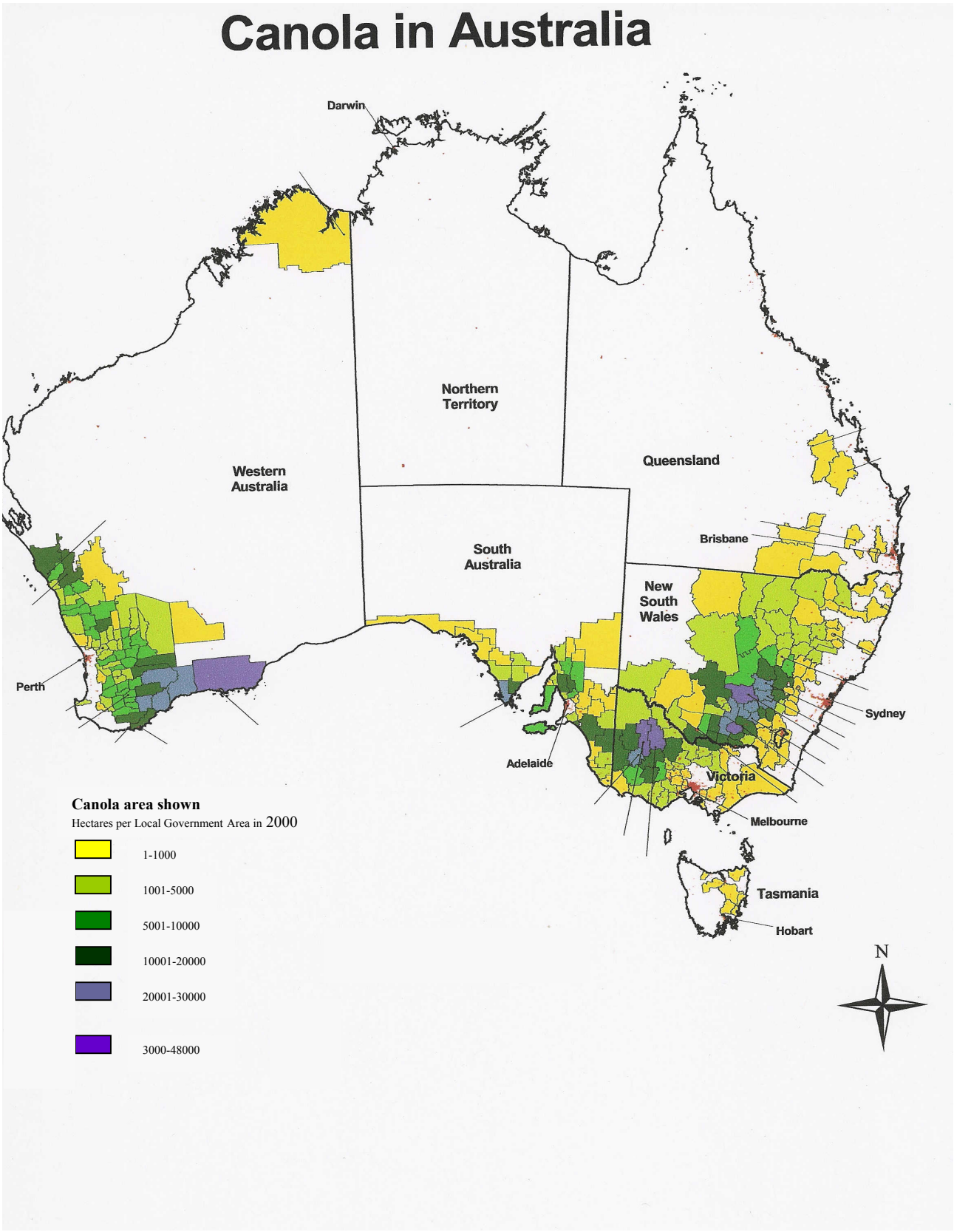

Fig. 1 Areas of canola production in Australia
Published with approval of Biotechnology Australia.

From the 1, 005, 000 hectares of canola sown across the country 1,622,000 tonnes was harvested at an average yield of 1.61 tonnes per hectare. The canola harvest for the 2003 more than doubled the tonnage produced from the 2002 harvest with similar levels to the 2000 harvest.

Table 2.Canola production by state in 2003

State	Production (Kt)	Area (Kha)	Average Yield (t/ha)
NSW	282	195	1.45
Victoria	420	230	1.83
SA	310	180	1.72
WA	610	400	1.53
Australia	1622	1005	1.61

Source: AOF newsletter February 2004
Kt: kilotonnes
Kha: kilohectares

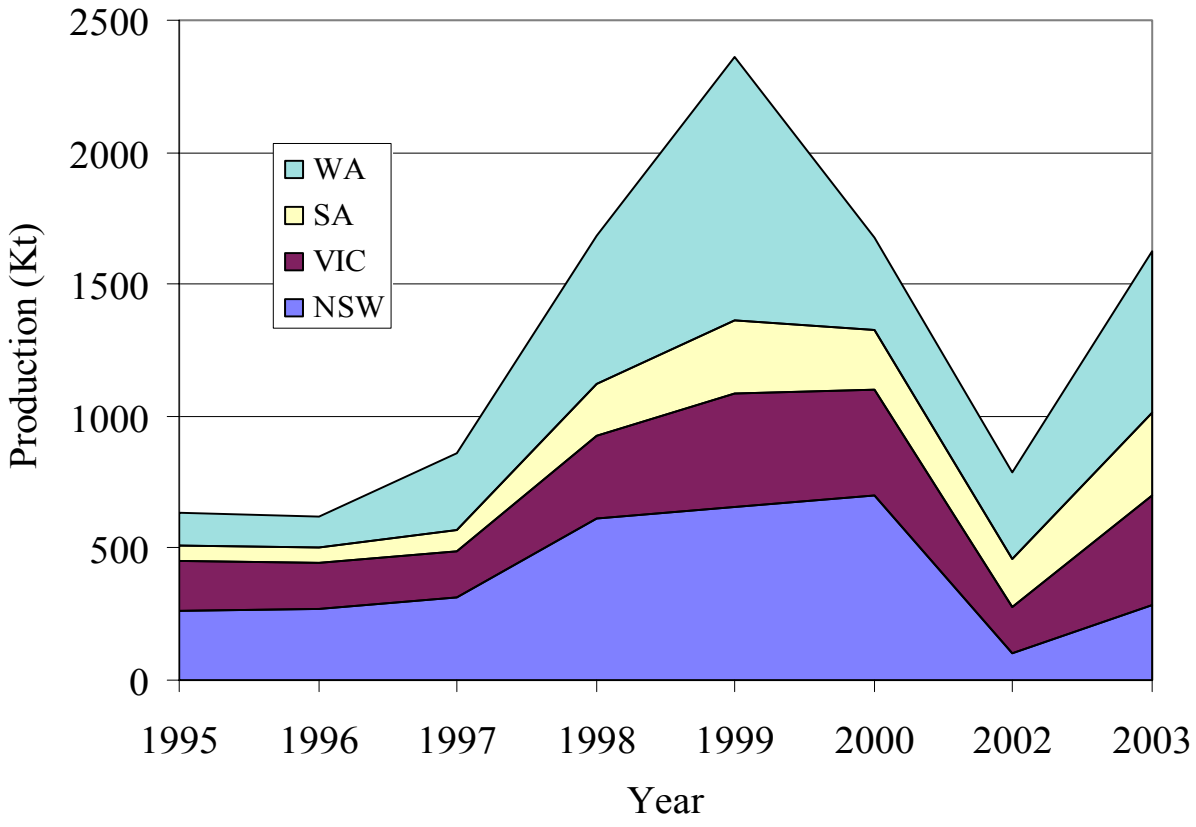

Figure 2. Canola production in Australia 1995-2003

Australian Quality Parameter Summary

The division, state and Australian mean values for all analysis are calculated on the basis of the tonnage that each site represents. However due to the tonnages being confidential information no individual site tonnages can be reported.

Table 3. Average quality data of Australian canola 2003

Quality Parameter	Mean
Oil content, % in whole seed @ 6% moisture	41.5
Protein content, % in oil-free meal @ 10%, moisture (N x 6.25)	39.2
Glucosinolates, µmoles/g whole seed @6%moisture	10.0
Volumetric grain weights, lbs/bl	54.3
kg/hL	67.7
Oleic acid content (C18:1), % in oil	61.5
Linoleic acid content (C18:2), % in oil	20.2
Linolenic acid content (C18:3), % in oil	9.1
Eruic acid content (C22:1), % in oil	0.1
Saturated fatty acid content, %in oil	7.6
Iodine Value	112.9

Oil Content

The average oil content for the Australian 2003 harvest was 41.5%. This is lower than initially expected and may be due to the dry finish experienced by the eastern state crops. The lowest oil content of 33.5% was recorded at Red Bend (NSW) with the highest coming from Port Lincoln (SA) at 46.0%.

Figure 3. Average Australian oil content in canola 1995-2003

Protein Content

The average protein content in oil free meal was 39.2%. The maximum protein content was from Balladoran (NSW) at 44.6% and the lowest of 35.6% was from Kingscote (SA).

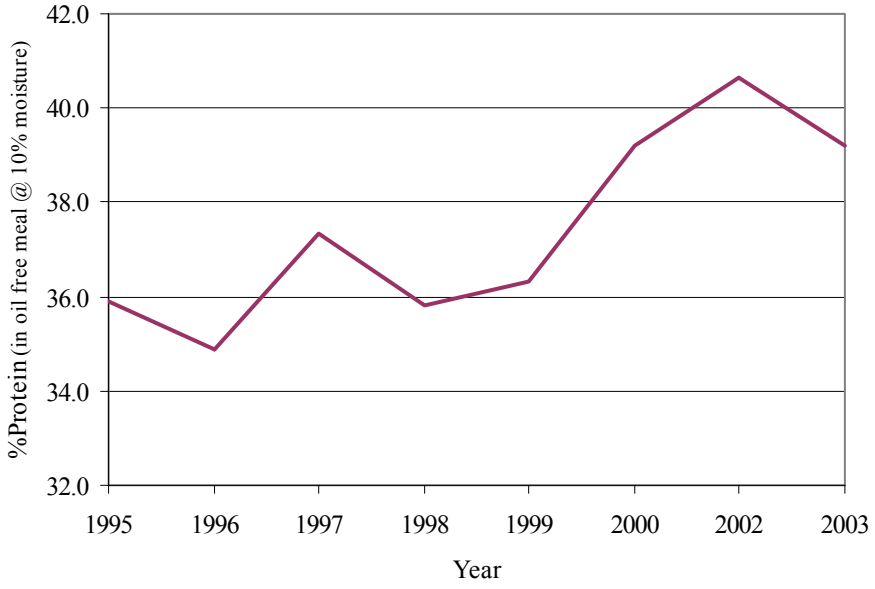

Figure 4. Average Australian protein content in canola meal 1995-2003

Glucosinolate Content

The average glucosinolate concentration has increased to from 8 µmoles/ gram for the past 3 years to 10 µmoles/ gram. The lowest reported glucosinolate concentration was from Port Lincoln (SA) with 5 µmoles/ gram and the highest of 14 µmoles/ gram came from Yarrawonga (Vic) and Alectown, Bogan Gate and The Rock (NSW).

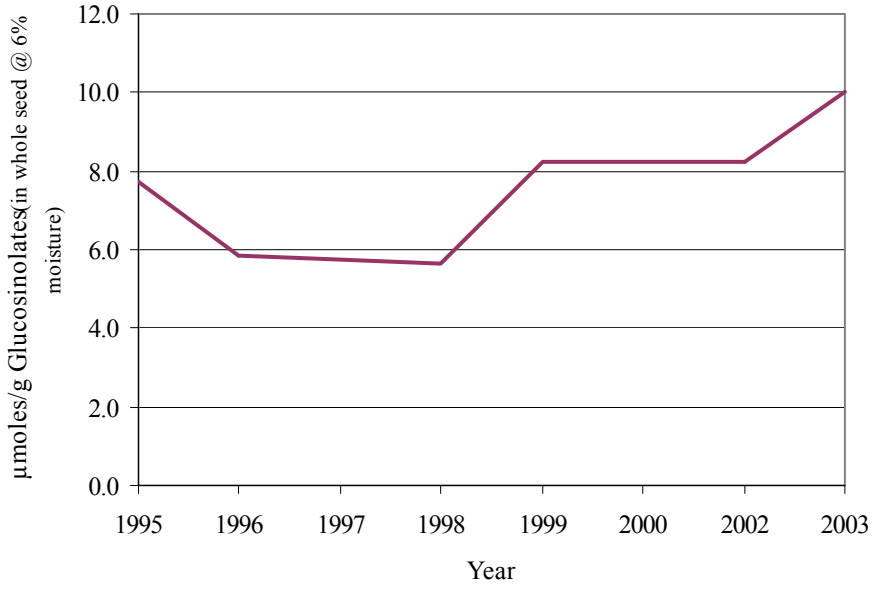

Figure 5. Average Australian glucosinolate concentration in canola 1995-2003

Fatty Acid Composition

Euric acid (C22:1) values for 2003 harvest are well below the canola limit of 2% with all sites from the three states reporting concentrations of 0.2% or less.

The Australian average oleic acid (C18:1) concentration of 61.5% is the same as last year. Values ranged from a low of 58.2% in Rudal, (Vic) to a high of 63.9% in Henty West (NSW).

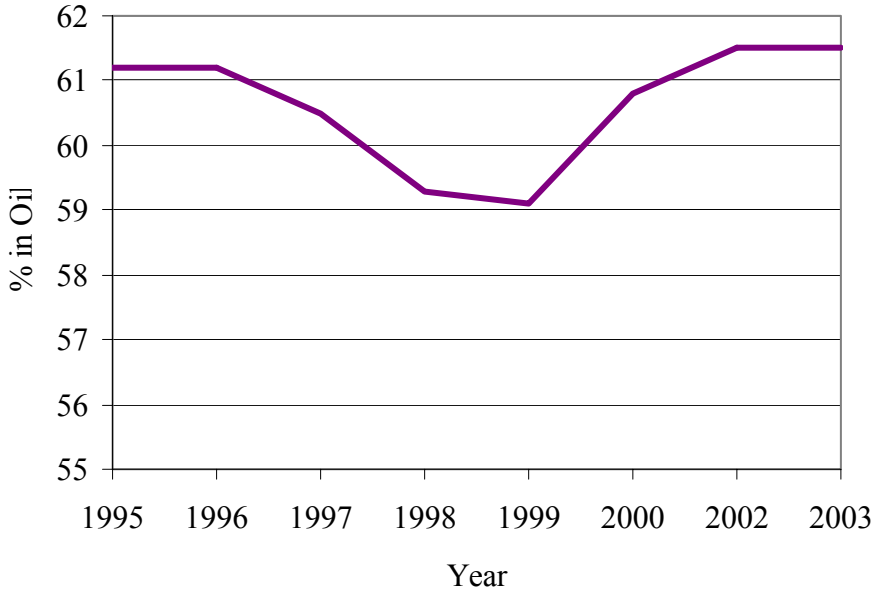

Figure 6. Average Australian oleic acid concentration in canola oil 1995-2003

The linoleic acid (C18:2) average of 20.2% has remained fairly constant since 1998 whereas the linolenic acid (C18:3) levels have fallen again to a new low of 9.1%. The lowest linoleic acid levels came from Tatyoon (SA) with 17.8% and the highest from Rudall (SA) with 22.9%. Linolenic acid levels ranged from 6.8% Coolamon (SA) to 12.0% in Balladoran (NSW).

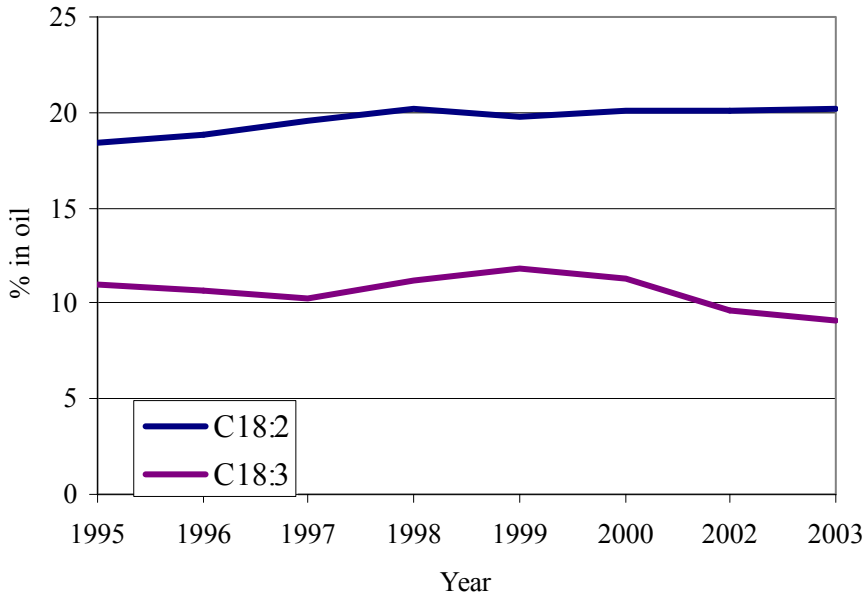

Figure 7. Average linoleic and linolenic acid concentrations in canola oil 1995-2003

Average saturated fatty acid levels are at the highest level seen for 7 years at 7.6%. The concentration ranges from a low of 7% in Rudall, Lock and Tailem Bend (SA) to a high of 8.7% in Alectown (NSW).

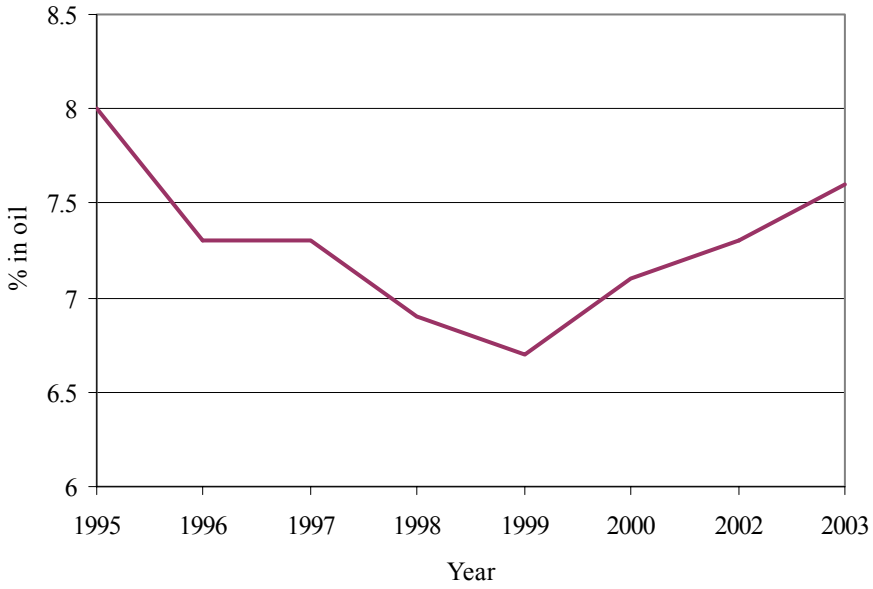

Figure 8. Average Australian saturated fatty acid concentration in canola oil 1995-2003

Quality Data by State

Table 4. Canola quality data 2003- New South Wales

Division/ Region/ Receival Site	[1] Oil	[2] Protein	[3] Glucosinolates	[4] Grain Weight lbs/b	[4] Grain Weight kg/hL
South West Division					
Barellan					
Ardlethan	40.1	39.6	8	55.0	68.5
Ariah Park	38.1	41.3	10	55.4	69.0
Barellan	40.7	40.3	11	54.2	67.5
Temora sub	38.1	40.0	11	54.6	68.0
Cootamundra					
Boorowa	42.4	41.1	11	53.8	67.0
Bribbaree	35.8	42.5	12	55.4	69.0
Caragabal	36.2	42.8	12	55.8	69.5
Cootamundra	35.6	40.2	13	55.4	69.0
Cowra	38.8	40.0	11	55.4	69.0
Greenthorpe	35.4	41.2	12	56.2	70.0
Harden	35.4	39.3	12	55.8	69.5
Maimuru	36.3	39.2	12	55.8	69.5
Milvale	35.5	42.1	12	55.0	68.5
Stockinbingal	36.5	41.5	13	55.4	69.0
Lockhart					
Berrigan	41.2	37.2	9	53.4	66.5
Boree Creek	39.0	39.3	12	55.0	68.5
Henty West	41.0	39.8	12	54.2	67.5
Milbrulong	41.4	39.9	10	53.8	67.0
Rand	42.8	37.6	10	54.6	68.0
The Rock	40.2	40.5	14	53.8	67.0
Tocumwal	43.6	38.5	10	53.4	66.5
Wyalong					
Wyalong	37.0	41.8	12	55.4	69.0
Wagga Wagga					
Coolamon	37.5	40.8	13	55.0	68.5
Grong Grong	40.6	38.6	9	55.0	68.5
Junee	37.2	40.6	10	55.8	69.5
South West Mean	**38.8**	**40.1**	**11**	**54.8**	**68.3**
Western Division					
Parkes sub					
Alectown	37.2	42.1	14	55.0	68.5
Balladoran	37.7	44.6	11	55.0	68.5
Bogan Gate	36.8	43.6	14	55.0	68.5
Condobolin	39.5	43.5	12	55.0	68.5
Elong Elong	40.2	43.1	11	54.2	67.5
Manildra	38.0	41.6	13	55.8	69.5
Mungeribar	38.8	43.3	12	55.0	68.5
Narwonah	40.8	44.1	13	53.8	67.0
Parkes sub	36.4	42.8	13	55.4	69.0
Red Bend	33.5	44.1	12	56.2	70.0
Wirrinya	35.8	43.1	12	55.8	69.5
Wongarbon	40.0	43.9	12	54.6	68.0
Western Mean	**38.3**	**43.4**	**12**	**55.0**	**68.5**

Table 4a. Continued

North West Division					
Narrabri					
Neilrex	39.8	43.0	13	54.6	68.0
Premer	40.3	41.6	10	55.0	68.5
Ulamambri	39.9	43.5	11	55.0	68.5
Willow Tree	39.7	44.2	12	54.6	68.0
North West Mean	**40.0**	**42.8**	**11**	**54.8**	**68.3**
NSW Mean	***38.8***	***40.8***	***11***	***54.8***	***68.3***

[1] % in whole seed @ 6% moisture, [2] % in oil free meal @10% moisture, [3] µmoles/g in whole seed @ 6% moisture

[4] Volumetric Grain Weights- lbs/b: Pounds per bushel, kg/hL: Kilograms per hectolitre

Individual site tonnages are confidential and can not be reported

Table 4b. Canola quality data 2003- South Australia

Division/ Region/				**[4] Grain Weight**	
Receival Site	**[1] Oil**	**[2] Protein**	**[3] Glucosinolates**	**lbs/b**	**kg/hL**
Andrews	40.1	39.4	9	55.4	69.0
Ardrossan	45.0	38.4	7	53.8	67.0
Bowmans	41.8	40.1	8	55.8	69.5
Caltowie	39.4	39.8	8	54.6	68.0
Coolamon	35.9	40.4	11	56.6	70.5
Cummins	44.7	37.5	6	53.8	67.0
Frances	43.8	39.7	10	55.8	69.5
Goolgowi	41.4	41.4	10	56.2	70.0
Keith	43.8	38.3	9	55.0	68.5
Kingscote	43.4	35.6	10	53.0	66.0
Lock	45.9	39.0	6	54.2	67.5
Millicent	43.0	40.6	12	55.4	69.0
North Yeelanna	42.8	38.6	7	53.8	67.0
Port Adelaide	42.6	38.6	9	53.8	67.0
Port Lincoln	46.0	37.9	5	55.8	69.5
Roseworthy	40.8	39.0	8	55.0	68.5
Rudall	43.9	41.2	9	55.0	68.5
Tailem Bend	44.7	39.0	9	52.1	65.0
Tatyoon	38.1	40.0	12	54.2	67.5
The Rock	39.3	39.9	10	53.4	66.5
Wolseley	43.1	38.1	8	55.8	69.5
SA Mean	***42.9***	***38.6***	***8***	***54.1***	***67.4***

[1] % in whole seed @ 6% moisture, [2] % in oil free meal @10% moisture, [3] µmoles/g in whole seed @ 6% moisture

[4] Volumetric Grain Weights- lbs/b: Pounds per bushel, kg/hL: Kilograms per hectolitre

Individual site tonnages are confidential and can not be reported

Table 4c. Canola quality data 2003- Victoria

Division/ Region/ Receival Site	[1] **Oil**	[2] **Protein**	[3] **Glucosinolates**	[4] **Grain Weight** lbs/b	kg/hL
Southern					
Charlton					
Birchip	38.7	41.7	13	55.4	69.0
Borung	40.5	39.3	11	53.4	66.5
Charlton	41.0	40.1	10	54.2	67.5
Cope Cope	37.8	41.1	13	55.4	69.0
Dunolly	39.4	38.9	13	54.2	67.5
Moolort	38.1	40.5	12	54.6	68.0
Dimboola					
Carpolac	41.0	38.3	10	54.2	67.5
Dimboola	41.3	37.8	10	54.2	67.5
Goroke	41.0	39.7	11	54.2	67.5
Horsham	41.1	37.4	11	54.2	67.5
Lillimur	43.7	38.7	9	54.6	68.0
Miram	43.0	39.5	9	55.0	68.5
Naracoorte	43.4	39.3	12	54.6	68.0
Natimuk	41.0	38.2	11	55.4	69.0
Nhill	43.1	38.2	11	54.2	67.5
Rainbow	43.2	36.3	10	53.4	66.5
Serviceton	44.6	37.9	8	54.2	67.5
Yanac	42.6	36.1	10	53.8	67.0
Echuca					
Deniliquin	42.8	39.1	9	54.2	67.5
Elmore	41.7	39.5	10	54.6	68.0
Mitiamo	42.4	39.1	8	54.2	67.5
Murchison Est	40.7	38.4	10	54.6	68.0
Raywood	42.9	40.2	10	54.2	67.5
Murtoa					
Beulah St	40.4	38.5	10	54.6	68.0
Hamilton	41.5	38.4	10	54.2	67.5
Laharum	41.7	39.6	10	54.6	68.0
Lubeck	43.4	37.8	11	54.6	68.0
Marmalake	42.2	38.5	9	54.2	67.5
Minyip	38.6	40.7	12	54.6	68.0
Skipton	40.2	38.5	12	54.6	68.0
Warracknabeal St	42.4	37.4	10	53.8	67.0
Westmere	40.9	37.2	12	54.6	68.0
Willaura	41.2	38.3	10	54.2	67.5
Portland					
Portland	44.8	38.6	8	54.6	68.0
Swan Hill					
Swan Hill	43.2	41.0	9	54.6	68.0
Yarrawonga					
Devenish	42.8	38.3	10	54.2	67.5
Dookie	41.9	38.3	11	54.2	67.5
Oaklands	42.8	37.1	10	53.0	66.0
Sanger	43.8	38.9	11	53.0	66.0
Wangamong	44.3	39.1	10	53.0	66.0
Yarrawonga St	44.6	39.9	14	53.4	66.5
Vic Mean	***42.0***	***38.8***	***11***	***54.1***	***67.5***

[1] % in whole seed @ 6% moisture, [2] % in oil free meal @10% moisture, [3] µmoles/g in whole seed @ 6% moisture

[4] Volumetric Grain Weights- lbs/b: Pounds per bushel, kg/hL: Kilograms per hectolitre

Individual site tonnages are confidential and can not be reported

Fatty Acid Composition by State

Table 5a. Fatty acid composition- New South Wales

Division/ Region/ Receival Site	**14:0**	**16:0**	**16:1**	**18:0**	**18:1**	**18:2**	**18:3**	**20:0**	**20:1**	**22:0**	**22:1**	**24:0**	**24:1**	**[1] Sat.**	**[2] Iodine Value**
South West Division															
Barellan															
Ardlethan	0.1	4.7	0.4	2.4	61.4	19.7	9.8	0.5	0.9	0.2	0.0	0.1	0.1	7.8	113.6
Ariah Park	0.1	4.9	0.4	2.3	60.5	21.1	8.7	0.6	1.1	0.2	0.0	0.1	0.1	8.1	112.5
Barellan	0.1	5.6	0.5	2.3	61.3	19.6	9.5	0.4	0.7	0.1	0.0	0.0	0.1	8.5	112.4
Temora sub	0.1	4.6	0.3	2.3	62.3	19.9	8.3	0.6	1.1	0.2	0.1	0.1	0.1	7.9	111.0
Cootamundra															
Boorowa	0.1	4.3	0.3	2.1	61.9	18.9	10.3	0.5	1.1	0.2	0.1	0.1	0.1	7.3	114.1
Bribbaree	0.1	5.3	0.4	2.5	61.2	20.6	8.3	0.5	0.9	0.1	0.1	0.1	0.0	8.5	111.1
Caragabal	0.1	4.7	0.4	2.5	61.8	20.0	8.5	0.6	1.0	0.2	0.1	0.1	0.1	8.1	111.3
Cootamundra	0.1	5.1	0.4	2.6	61.9	19.9	8.3	0.5	0.9	0.2	0.1	0.1	0.1	8.5	110.6
Cowra	0.1	4.9	0.4	2.4	63.3	18.7	8.3	0.5	1.0	0.2	0.1	0.1	0.1	8.1	109.8
Greenthorpe	0.1	5.0	0.4	2.5	62.6	19.8	7.7	0.6	1.0	0.2	0.1	0.1	0.1	8.4	109.5
Harden	0.1	4.8	0.4	2.6	62.0	19.6	8.7	0.6	0.9	0.2	0.1	0.1	0.1	8.3	111.0
Maimuru	0.1	4.8	0.4	2.5	62.0	19.3	8.7	0.6	1.0	0.2	0.1	0.1	0.1	8.3	110.9
Milvale	0.1	5.0	0.4	2.5	62.3	20.1	7.6	0.5	1.0	0.2	0.1	0.1	0.1	8.5	109.4
Stockinbingal	0.1	4.8	0.4	2.6	62.1	20.2	7.7	0.6	1.0	0.2	0.1	0.1	0.1	8.4	109.7
Lockhart															
Berrigan	0.1	4.4	0.3	2.4	61.8	19.6	9.5	0.5	1.0	0.2	0.1	0.1	0.1	7.6	113.0
Boree Creek	0.1	4.5	0.3	2.4	59.9	20.5	10.0	0.5	1.1	0.2	0.2	0.1	0.1	7.8	114.6
Henty West	0.1	4.3	0.3	2.3	63.9	19.3	7.6	0.6	1.1	0.3	0.1	0.2	0.1	7.6	109.4
Milbrulong	0.1	4.5	0.3	2.4	63.5	19.7	7.4	0.6	1.0	0.2	0.0	0.1	0.1	7.8	109.3
Rand	0.1	4.4	0.3	2.4	62.6	19.9	8.2	0.5	1.0	0.2	0.1	0.1	0.1	7.8	110.8
The Rock	0.1	4.5	0.3	2.3	63.2	19.0	8.5	0.5	1.0	0.2	0.1	0.1	0.1	7.8	110.7
Tocumwal	0.1	5.1	0.4	2.2	62.7	19.2	8.4	0.5	1.0	0.2	0.1	0.1	0.1	8.2	110.2
Wyalong															
Wyalong	0.1	4.5	0.3	2.5	60.5	20.3	9.7	0.5	1.0	0.2	0.1	0.1	0.1	7.9	113.7
Wagga Wagga															
Coolamon	0.1	4.6	0.3	2.4	63.3	19.3	7.8	0.6	1.1	0.2	0.1	0.1	0.1	8.0	109.5
Grong Grong	0.1	4.2	0.3	2.4	60.4	19.7	10.7	0.6	1.0	0.2	0.1	0.1	0.1	7.6	115.2
Junee	0.1	4.9	0.4	2.5	63.0	20.0	6.9	0.6	1.1	0.3	0.1	0.2	0.1	8.5	108.1
South West Mean	**0.1**	**4.7**	**0.4**	**2.4**	**62.2**	**19.7**	**8.5**	**0.5**	**1.0**	**0.2**	**0.1**	**0.1**	**0.1**	**8.0**	**111.0**
Western Division															
Parkes sub															
Alectown	0.1	5.3	0.4	2.4	59.4	19.9	10.5	0.5	0.8	0.2	0.1	0.3	0.1	8.7	114.1
Balladoran	0.1	4.6	0.3	2.2	59.1	19.9	12.0	0.5	1.0	0.2	0.0	0.1	0.1	7.6	117.7
Bogan Gate	0.1	4.5	0.3	2.5	59.4	20.0	11.1	0.5	1.0	0.2	0.1	0.1	0.1	7.9	115.9
Condobolin	0.1	4.5	0.3	2.4	60.2	20.0	10.7	0.5	1.0	0.2	0.0	0.1	0.1	7.7	115.5
Elong Elong	0.1	4.5	0.3	2.2	60.7	19.4	10.7	0.5	1.0	0.2	0.1	0.1	0.1	7.6	115.0
Manildra	0.1	4.6	0.3	2.4	62.6	19.6	8.4	0.5	1.0	0.2	0.1	0.1	0.1	7.9	111.0
Mungeribar	0.1	4.4	0.3	2.2	60.0	19.9	11.0	0.6	1.1	0.2	0.0	0.1	0.1	7.6	116.0
Narwonah	0.1	4.3	0.3	2.3	60.7	20.1	10.2	0.5	1.0	0.2	0.0	0.1	0.1	7.5	114.9
Parkes sub	0.1	4.9	0.3	2.4	60.0	20.4	10.0	0.5	1.0	0.2	0.1	0.1	0.1	8.1	114.3
Red Bend	0.1	5.0	0.4	2.4	61.1	20.6	8.5	0.5	1.0	0.2	0.1	0.1	0.0	8.3	111.7
Wirrinya	0.1	4.8	0.3	2.4	60.8	21.0	8.6	0.5	1.0	0.2	0.1	0.1	0.1	8.0	112.4
Wongarbon	0.1	4.4	0.3	2.3	60.9	19.4	10.6	0.5	1.1	0.2	0.1	0.1	0.1	7.5	114.8
Western Mean	**0.1**	**4.6**	**0.3**	**2.3**	**60.4**	**19.9**	**10.5**	**0.5**	**1.0**	**0.2**	**0.1**	**0.1**	**0.1**	**7.7**	**114.9**

Table 5a continued

North West Division															
Narrabri															
Neilrex	0.1	4.4	0.3	2.2	60.5	19.8	10.7	0.5	1.0	0.2	0.0	0.1	0.1	7.5	115.4
Premer	0.1	4.1	0.3	2.2	59.8	20.4	10.9	0.6	1.1	0.3	0.0	0.1	0.1	7.3	116.4
Ulamambri	0.1	4.1	0.3	2.3	60.6	19.5	10.9	0.6	1.2	0.3	0.0	0.1	0.1	7.4	115.5
Willow Tree	0.1	4.6	0.3	2.1	59.4	20.9	10.7	0.5	1.0	0.2	0.1	0.1	0.1	7.5	116.4
North West Mean	**0.1**	**4.2**	**0.3**	**2.2**	**60.0**	**20.2**	**10.8**	**0.6**	**1.1**	**0.3**	**0.0**	**0.1**	**0.1**	**7.4**	**116.0**
NSW Mean	***0.1***	***4.7***	***0.3***	***2.4***	***61.8***	***19.7***	***9.0***	***0.5***	***1.0***	***0.2***	***0.1***	***0.1***	***0.1***	***8.0***	***111.9***

[1] Sat- Sum of the saturated fatty acids including 14:0, 16:0, 18:0, 20:0, 22:0 and 24:0

[2] Iodine Value- Calculated from the fatty acid composition

Table 5b. Fatty acid composition- South Australia

Division/ Region/ Receival Site	**14:0**	**16:0**	**16:1**	**18:0**	**18:1**	**18:2**	**18:3**	**20:0**	**20:1**	**22:0**	**22:1**	**24:0**	**24:1**	**[1] Sat.**	**[2] Iodine Value**
Lock	0.1	4.3	0.2	2.0	59.8	22.6	9.3	0.4	0.9	0.2	0.0	0.1	0.1	7.0	115.8
Cummins	0.1	4.7	0.3	2.0	59.3	22.0	10.0	0.4	0.9	0.2	0.1	0.1	0.1	7.4	116.2
Tailem Bend	0.1	4.3	0.3	1.9	60.4	21.0	10.0	0.5	1.1	0.2	0.1	0.1	0.1	7.0	115.6
Ardrossan	0.1	4.6	0.3	2.0	59.4	21.7	9.8	0.5	1.1	0.3	0.1	0.1	0.1	7.5	115.5
Frances	0.1	4.4	0.3	2.2	63.0	19.3	8.4	0.6	1.1	0.2	0.1	0.1	0.1	7.6	110.9
Millicent	0.1	4.5	0.3	1.9	61.4	19.3	10.4	0.5	1.1	0.2	0.1	0.2	0.1	7.4	114.6
Keith	0.1	4.3	0.3	2.0	61.2	20.7	9.0	0.6	1.2	0.3	0.1	0.1	0.2	7.4	113.3
Bowmans	0.1	4.5	0.3	2.1	59.3	22.3	9.4	0.5	1.0	0.2	0.0	0.1	0.1	7.5	115.4
Roseworthy	0.1	4.9	0.3	2.2	61.8	20.8	8.2	0.4	0.9	0.2	0.0	0.1	0.1	7.9	111.6
Tatyoon	0.1	4.3	0.3	2.4	63.2	17.8	9.5	0.6	1.2	0.2	0.1	0.1	0.1	7.8	111.2
North Yeelanna	0.1	4.4	0.3	2.0	58.5	22.8	9.8	0.5	1.0	0.2	0.2	0.1	0.1	7.3	116.6
Coolamon	0.1	4.9	0.4	2.5	62.8	20.4	6.8	0.6	1.0	0.2	0.1	0.1	0.1	8.4	108.3
The Rock	0.1	4.5	0.3	2.4	63.6	19.6	7.3	0.6	1.1	0.2	0.1	0.1	0.1	7.9	109.1
Rudall	0.1	4.5	0.3	1.9	58.2	22.9	10.5	0.4	0.9	0.2	0.1	0.1	0.1	7.0	118.3
Goolgowi	0.1	4.2	0.3	2.2	60.1	20.3	10.5	0.5	1.2	0.2	0.1	0.1	0.1	7.3	115.6
Kingscote	0.1	4.4	0.3	1.9	61.0	19.7	10.2	0.5	1.1	0.3	0.1	0.1	0.1	7.3	114.7
Wolseley	0.1	4.3	0.3	2.2	62.9	19.9	7.9	0.6	1.2	0.3	0.1	0.2	0.1	7.6	110.5
Caltowie	0.1	4.5	0.3	2.2	62.6	20.4	7.6	0.6	1.2	0.3	0.1	0.1	0.1	7.8	110.2
Andrews	0.1	4.4	0.3	2.2	63.4	19.3	7.9	0.6	1.1	0.3	0.1	0.2	0.1	7.8	109.8
Port Lincoln	0.1	4.5	0.3	2.0	59.8	21.5	10.0	0.5	1.0	0.2	0.0	0.1	0.1	7.3	115.9
Port Adelaide	0.1	4.2	0.3	2.0	59.9	21.2	10.2	0.5	1.1	0.2	0.1	0.1	0.1	7.1	116.0
SA Mean	***0.1***	***4.5***	***0.3***	***2.1***	***60.6***	***21.1***	***9.3***	***0.5***	***1.0***	***0.2***	***0.1***	***0.1***	***0.1***	***7.5***	***114.2***

[1] Sat- Sum of the saturated fatty acids including 14:0, 16:0, 18:0, 20:0, 22:0 and 24:0

[2] Iodine Value- Calculated from the fatty acid composition

Table 5c. Fatty acid composition- Victoria

Division/ Region/ Receival Site	14:0	16:0	16:1	18:0	18:1	18:2	18:3	20:0	20:1	22:0	22:1	24:0	24:1	[1] Sat.	[2] Iodine Value
Southern															
Charlton															
Birchip	0.1	4.8	0.3	2.2	60.7	20.3	9.9	0.4	0.9	0.2	0.0	0.1	0.1	7.7	114.4
Borung	0.1	4.9	0.3	2.2	62.1	19.6	9.0	0.4	0.9	0.1	0.1	0.1	0.1	7.9	112.1
Charlton	0.1	4.8	0.3	2.1	61.8	20.7	8.3	0.5	1.0	0.2	0.1	0.1	0.1	7.7	111.9
Cope Cope	0.1	4.7	0.3	2.1	61.6	20.3	9.0	0.5	1.0	0.2	0.0	0.1	0.1	7.6	112.7
Dunolly	0.1	4.7	0.3	2.2	62.5	19.1	9.3	0.5	0.9	0.2	0.0	0.1	0.1	7.7	112.2
Moolort	0.1	4.8	0.3	2.3	62.2	19.1	9.4	0.5	1.0	0.2	0.1	0.1	0.1	7.9	112.2
Dimboola															
Carpolac	0.1	4.8	0.3	2.2	61.9	19.8	9.2	0.5	0.9	0.2	0.1	0.1	0.1	7.7	112.6
Dimboola	0.1	4.6	0.3	2.2	62.0	19.8	9.1	0.5	0.9	0.2	0.1	0.1	0.1	7.7	112.5
Goroke	0.1	4.8	0.4	2.2	63.0	18.6	8.9	0.5	1.0	0.2	0.1	0.1	0.1	8.0	110.7
Horsham	0.1	4.8	0.4	2.2	62.5	19.1	9.1	0.5	0.9	0.2	0.0	0.1	0.1	7.9	111.7
Lillimur	0.1	4.7	0.3	2.1	63.7	20.0	7.3	0.5	1.0	0.2	0.0	0.1	0.1	7.6	109.6
Miram	0.1	4.5	0.3	2.1	63.4	20.2	7.4	0.5	1.1	0.2	0.0	0.1	0.1	7.5	110.0
Naracoorte	0.1	4.2	0.3	2.1	62.7	19.0	9.1	0.6	1.2	0.3	0.1	0.2	0.2	7.5	111.9
Natimuk	0.1	4.6	0.3	2.2	62.7	18.9	9.3	0.5	0.9	0.2	0.0	0.1	0.1	7.6	112.2
Nhill	0.1	4.4	0.3	2.1	62.3	19.9	8.8	0.5	1.0	0.2	0.1	0.1	0.1	7.5	112.2
Rainbow	0.1	4.5	0.3	2.0	60.6	20.4	10.4	0.4	0.9	0.2	0.1	0.1	0.1	7.3	115.5
Serviceton	0.0	4.2	0.3	2.0	63.5	20.5	7.2	0.6	1.2	0.3	0.0	0.1	0.1	7.3	110.0
Yanac	0.1	4.3	0.3	2.2	61.1	19.9	10.1	0.5	1.0	0.2	0.1	0.1	0.1	7.4	114.5
Echuca															
Deniliquin	0.1	4.6	0.3	2.1	60.6	20.8	9.5	0.5	1.0	0.2	0.1	0.1	0.1	7.6	114.1
Elmore	0.1	4.3	0.3	2.2	62.0	19.9	8.8	0.6	1.2	0.2	0.1	0.1	0.1	7.5	112.1
Mitiamo	0.1	4.5	0.3	2.2	60.9	19.9	10.1	0.5	1.0	0.2	0.1	0.1	0.1	7.6	114.5
Murchison Est	0.1	4.3	0.3	2.2	62.5	18.7	9.6	0.5	1.1	0.2	0.1	0.1	0.1	7.5	112.4
Raywood	0.1	4.7	0.3	2.1	62.2	19.8	8.9	0.5	1.0	0.2	0.1	0.1	0.1	7.6	112.3
Murtoa															
Beluah St	0.1	4.2	0.3	2.1	60.0	20.5	11.0	0.5	1.0	0.2	0.1	0.1	0.1	7.1	116.9
Hamilton	0.1	4.6	0.3	2.1	62.4	19.1	9.2	0.5	1.0	0.2	0.1	0.1	0.1	7.6	112.2
Laharum	0.1	4.6	0.3	2.2	63.3	18.7	8.6	0.5	1.0	0.2	0.1	0.1	0.1	7.8	110.5
Lubeck	0.1	4.7	0.3	2.2	63.1	19.1	8.8	0.5	0.9	0.2	0.0	0.1	0.1	7.7	111.3
Marmalake	0.1	4.9	0.3	2.1	63.0	19.5	8.3	0.5	0.9	0.2	0.0	0.1	0.1	7.9	110.6
Minyip	0.1	4.8	0.3	2.1	60.5	20.8	9.4	0.5	1.0	0.2	0.1	0.1	0.1	7.7	113.9
Skipton	0.1	4.4	0.3	2.2	62.1	18.8	9.6	0.6	1.1	0.3	0.2	0.1	0.1	7.7	112.4
Warracknabeal St	0.1	4.6	0.3	2.2	61.9	19.8	9.3	0.5	1.0	0.2	0.0	0.1	0.1	7.6	112.8
Westmere	0.1	4.6	0.3	2.2	61.6	19.5	9.5	0.5	1.1	0.2	0.2	0.1	0.1	7.7	112.9
Willaura	0.1	4.3	0.3	2.1	62.4	19.4	9.0	0.6	1.1	0.3	0.1	0.1	0.1	7.5	112.1
Portland															
Portland	0.1	4.5	0.3	2.1	63.7	19.2	8.0	0.5	1.0	0.2	0.0	0.1	0.1	7.6	110.0
Swan Hill															
Swan Hill	0.1	4.3	0.3	2.1	60.6	20.7	10.1	0.5	0.9	0.2	0.1	0.1	0.1	7.2	115.4
Yarrawonga															
Devenish	0.1	4.4	0.3	2.2	61.7	20.2	9.1	0.5	1.0	0.2	0.1	0.1	0.1	7.5	113.1
Dookie	0.1	4.3	0.3	2.3	62.3	19.3	9.2	0.5	1.1	0.2	0.1	0.1	0.1	7.5	112.4
Oaklands	0.1	4.4	0.3	2.4	61.9	19.8	9.0	0.5	1.1	0.2	0.1	0.1	0.1	7.7	112.3
Sanger	0.1	4.3	0.3	2.2	62.6	20.3	8.2	0.5	1.1	0.2	0.1	0.1	0.1	7.3	111.5
Wangamong	0.1	4.4	0.3	2.2	62.7	20.8	7.4	0.5	1.1	0.2	0.1	0.1	0.1	7.6	110.4
Yarrawonga St	0.1	4.6	0.3	2.2	62.3	20.1	8.6	0.5	0.9	0.2	0.0	0.1	0.1	7.6	111.9
Vic Mean	***0.1***	***4.5***	***0.3***	***2.2***	***62.2***	***19.7***	***9.0***	***0.5***	***1.0***	***0.2***	***0.1***	***0.1***	***0.1***	***7.6***	***112.3***

[1] Sat- Sum of the saturated fatty acids including 14:0, 16:0, 18:0, 20:0, 22:0 and 24:0

[2] Iodine Value- Calculated from the fatty acid composition

Bulk Handlers Published Data

Table 6a. Graincorp published quality data from 2003 canola harvest

Canola Statistics as at January 28, 2004

Division Name	Site	Site Name	Ave Admix	Ave Oil
North West Division	1860	Neilrex	2.6	40.3
North West Division	1990	Premer	1.9	40.2
North West Division	2320	Ulamambri	1.6	39.9
North West Division	2570	Willow Tree	1.8	40.1
Western Division	30	Alectown West	2.7	37.9
Western Division	140	Balladoran	3.2	37.6
Western Division	330	Bogan Gate	3.1	38.1
Western Division	600	Condobolin	3.0	38.1
Western Division	860	Elong Elong	1.9	40.5
Western Division	1510	Manildra	1.6	39.8
Western Division	1760	Mungeribar	2.6	39.5
Western Division	1840	Narwonah	2.9	40.6
Western Division	2070	Red Bend	2.1	34.4
Western Division	2590	Wirrinya	2.1	36.3
Western Division	2600	Wongarbon	2.1	39.9
Western Division	3020	Parkes S.T.	2.8	36.4
South West Division	70	Ardlethan	1.5	40.9
South West Division	80	Ariah Park	2.2	37.9
South West Division	180	Barellan	1.3	41.7
South West Division	270	Berrigan	1.6	43.6
South West Division	360	Boorowa	1.3	41.5
South West Division	370	Boree Creek	2.1	39.8
South West Division	0390	Bribbaree	1.9	36.0
South West Division	0530	Caragabal	1.9	36.6
South West Division	0630	Coolamon	1.8	39.4
South West Division	0660	Cootamundra	1.7	38.2
South West Division	690	Cowra	1.9	39.3
South West Division	1130	Greenethorpe	1.3	36.3
South West Division	1160	Grong Grong	1.6	41.0
South West Division	1240	Harden	1.9	38.3
South West Division	1470	Maimuru	2.2	37.1
South West Division	1630	Milbrulong	1.7	41.2
South West Division	1660	Milvale	1.8	36.3
South West Division	2050	Rand	1.5	43.9
South West Division	2120	Stockinbingal	1.5	37.6
South West Division	2190	The Rock	1.7	42.0
South West Division	2220	Tocumwal	2.0	44.0
South West Division	2620	Wyalong	1.8	37.4
South West Division	2990	Henty West	1.9	42.5
South West Division	3030	Temora S.T.	1.8	38.6
South West Division	3040	Junee S.T.	1.6	38.7

Table 6a. continued

Division Name	Site	Site Name	Ave Admix	Ave Oil
Southern Division	3280	Oaklands	1.5	43.7
Southern Division	3300	Warracknabeal S 1	1.5	43.3
Southern Division	3330	Nhill	1.3	45.2
Southern Division	3340	Yarrawonga St	1.1	43.5
Southern Division	3350	Echuca	1.3	42.6
Southern Division	3370	Dookie St	1.1	43.1
Southern Division	3380	Beulah St	2.0	40.8
Southern Division	3590	Birchip	1.7	41.5
Southern Division	3630	Borung	1.8	42.0
Southern Division	3670	Burrum	1.5	40.3
Southern Division	3720	Charlton	1.4	42.9
Southern Division	3780	Cope Cope	1.6	40.0
Southern Division	3850	Deniliquin	1.4	43.1
Southern Division	3870	Devenish	1.2	44.1
Southern Division	3890	Dimboola	1.5	43.7
Southern Division	3930	Dunolly	1.6	41.8
Southern Division	3950	Elmore	1.3	41.9
Southern Division	3990	Geelong	1.6	42.4
Southern Division	4080	Goroke	1.7	43.1
Southern Division	4130	Horsham	1.6	43.2
Southern Division	4340	Lillimur	0.9	44.7
Southern Division	4390	Lubeck	1.5	44.2
Southern Division	4410	Marmalake	1.4	43.2
Southern Division	4470	Minyip	1.8	41.1
Southern Division	4490	Miram	1.2	44.8
Southern Division	4600	Mitiamo	1.4	43.6
Southern Division	4630	Moolort	1.7	40.2
Southern Division	4660	Murchison East	1.1	44.0
Southern Division	4720	Natimuk	1.3	43.3
Southern Division	4950	Rainbow	1.7	43.5
Southern Division	4960	Raywood	1.1	43.9
Southern Division	5250	Sanger	1.5	44.4
Southern Division	5270	Serviceton	1.0	45.6
Southern Division	5300	Skipton	1.6	41.7
Southern Division	4370	Swan Hill	1.6	44.1
Southern Division	5680	Wangamong	1.8	43.1
Southern Division	5770	Westmere	1.4	43.3
Southern Division	5780	Willaura	1.7	43.3
Southern Division	5850	Yanac	1.8	43.9
Southern Division	5960	Hamilton	1.4	43.8
Southern Division	6370	Laharum	0.8	43.5
Southern Division	6400	Portland	1.2	45.1
Southern Division	6430	Carpolac	1.2	45.1
Southern Division	6480	Naracoorte	1.6	44.5
Bta Newcastle	4010	Bulk Terminal Aust Carring	2.0	41.0

This information is provided as a reference only.

The weighted averages are calculated from deliveries ex grower and are not updated to include site to site movements.

Published with approval of Graincorp

Table 6b. Ausbulk published quality data from 2003 canola harvest

Canola Statistics 2003/2004
9/03/2004

Results are published for sites where the tonnage received is greater then or equal to 500 tonnes.

Site	Oil %	Green Seeds (%)	Total Foreign Material (%)	Defective Material (%)
Andrews	41.6	0.1	1.3	0.1
Ardrossan	44.5	0.1	1.0	1.1
Bowmans	43.1	0.0	1.0	0.0
Caltowie	41.5	0.0	1.5	0.0
Coolamon	39.9	0.0	1.0	0.0
Cummins	45.4	0.5	1.3	1.5
Frances	43.9	0.0	1.4	0.3
Goolgowi	42.6	0.1	1.4	0.2
Keith	43.5	0.0	1.1	0.5
Kingscote	42.9	0.1	1.8	0.1
Lock	46.4	0.4	0.4	0.2
Millicent	42.7	0.1	1.2	0.8
Naracoorte	42.1	0.1	1.7	0.1
Nullawil	41.9	0.0	1.3	0.0
Port Adelaide	43.4	0.2	0.9	0.8
Port Adelaide (ex Kingscote)	42.9	0.1	1.8	0.1
Port Lincoln	46.6	0.2	1.6	0.4
Roseworthy	43.3	0.0	1.0	0.1
Rudall	44.5	0.1	1.1	0.0
Tailem Bend	44.7	0.0	1.0	0.0
Tatyoon North	40.8	0.0	1.0	0.0
The Rock	41.8	0.0	1.2	0.0
Tocumwal	43.4	0.0	1.1	0.0
Wolseley	43.3	0.0	1.0	0.3
Yeelanna	44.3	0.7	1.3	2.3

The results are Weighted results for Canola Oil % (As Is) on a clean seed basis, Defective Material (%), Foreign Material (% by weight) and Green Seeds (%) for 2003/04 Season, for all deliveries ex Grower.

Published with approval of Ausbulk.

National Brassica Improvement Project- Quality Data

Table 7a. Oil content for 2003 canola trials

S2 Early Conventional Trials

Variety	W	H	M	N	Mean
02N703	37.6	41.9	39.2	40.7	**39.9**
02N708	36.6	40.6	38.0	40.0	**38.8**
AG-EMBLEM	*	39.2	*	38.8	**39.0**
AG-OUTBACK	35.2	39.3	37.2	*	**37.3**
AGC202	36.1	38.9	37.6	39.7	**38.1**
AGC206	37.5	42.1	39.1	42.1	**40.2**
AGC207	36.9	41.9	39.4	41.2	**39.8**
AGC208	38.0	42.5	40.0	43.5	**41.0**
AGC321	40.4	43.7	41.9	43.4	**42.4**
AGC322	37.3	39.7	38.5	40.2	**38.9**
AGC323	34.4	37.7	37.0	38.7	**37.0**
AGC324	39.1	42.6	40.1	43.0	**41.2**
BLN2002*SL909	36.9	40.5	38.1	40.9	**39.1**
BLN2037*SL903-SL123	38.4	41.3	38.5	41.3	**39.9**
BLN2062*SL021	37.8	40.6	39.2	40.8	**39.6**
BLN2299*SL013	38.8	43.0	39.9	41.1	**40.7**
BLN2683	36.8	40.8	39.2	40.1	**39.2**
BLN2844	37.2	40.7	38.5	43.3	**39.9**
BLN2845	38.0	41.3	38.2	40.8	**39.5**
BLN2846	38.4	43.1	39.0	40.5	**40.3**
BLN2847	39.5	43.1	40.2	44.2	**41.8**
BLN2848	36.7	39.9	37.9	40.2	**38.7**
BLN2849	38.0	40.5	39.8	41.2	**39.9**
BLN2850	38.7	42.4	39.5	41.1	**40.4**
C8197	40.1	42.6	40.9	42.4	**41.5**
H9071	38.7	44.0	40.6	43.5	**41.7**
MYSTIC	37.6	40.1	38.8	40.7	**39.3**
RAINBOW	35.5	*	37.4	39.2	**37.4**
RGAS0322	38.1	42.4	39.2	*	**39.9**
RIVETTE	37.7	40.7	38.9	41.5	**39.7**
RR001	39.4	45.4	40.0	42.6	**41.8**
RR002	40.7	45.0	39.3	43.4	**42.1**
RR003	37.5	40.7	38.2	41.4	**39.4**
RR004	36.9	39.9	38.5	40.9	**39.0**
RR005	36.6	40.6	37.7	39.4	**38.6**
RR006	36.2	38.4	37.6	39.1	**37.8**
RR007	38.0	40.8	39.5	41.6	**40.0**
RR008	38.6	42.7	40.0	42.4	**40.9**

S2 Early Triazine Trials

Variety	W	H	M	N	Mean
AGT341	37.3	36.7	35.7	39.0	**37.2**
AGT342	34.7	*	*	38.7	**36.7**
AGT343	37.2	37.3	37.1	39.3	**37.7**
AGT346	38.3	37.1	38.2	*	**37.9**
ATR-BEACON	34.9	35.4	35.2	38.1	**35.9**
ATR-EYRE	38.7	38.6	36.7	40.5	**38.6**
ATR-HYDEN	35.0	35.4	34.3	36.1	**35.2**
BLN2858TT	35.4	36.5	35.4	38.8	**36.5**
BLN2859TT	35.2	35.0	34.5	36.1	**35.2**
BLN2860TT	35.8	36.1	34.6	38.9	**36.3**
RGAS03T15	35.5	35.1	34.5	36.5	**35.4**
RGAS03T19	*	*	35.9	39.4	**37.6**
SURPASS501TT	39.6	39.2	39.5	41.0	**39.8**
T2028	36.7	37.9	38.7	39.8	**38.3**
T2029	39.6	39.2	40.2	41.1	**40.0**
T2038	*	*	36.1	37.6	**36.8**
T2044	38.1	38.2	38.0	39.8	**38.5**
T2045	38.3	38.2	38.2	39.8	**38.6**
T2047	38.4	39.3	37.2	39.7	**38.7**
TO080*SP001	37.4	39.3	37.4	40.3	**38.6**
TO080*SP003	36.8	38.7	36.3	40.1	**38.0**
TO094*SP015	38.1	38.7	37.5	40.3	**38.7**
TO129*SP006	37.1	37.0	36.1	39.0	**37.3**
TR001	36.0	36.6	36.4	38.5	**36.9**
TR002	37.9	38.2	36.9	40.1	**38.3**
TR003	37.1	37.6	37.4	39.5	**37.9**
TRIGOLD	*	39.0	37.9	40.8	**39.2**
TRILOGY	*	36.0	35.5	38.4	**36.6**

S2 Early Clearfield Trials

Variety	W	H	M	N	Mean
44C73	38.0	39.3	38.0	40.1	**38.9**
BLN2864CL	38.0	40.4	39.2	40.3	**39.5**
BLN2865CL	39.3	41.5	40.5	41.1	**40.6**
BLN2866CL	39.7	41.6	40.7	41.7	**40.9**
SURPASS402CL	39.5	40.2	41.3	40.3	**40.3**
SURPASS404CL	41.5	43.1	43.9	42.2	**42.7**

W = Wagga- NSW H = Horsham - VIC M= Minnipa - SA N = Newdegate - WA

[1] % in whole seed @ 6% moisture

Table 7a. continued

S2 Mid Conventional Trials

Variety	W	H	S	K	Mean
02N710	37.3	42.9	45.7	48.7	**43.6**
02N714	36.2	41.1	41.8	44.6	**40.9**
AGC210	36.2	40.4	42.3	45.8	**41.2**
AGC211	36.1	43.6	45.5	51.0	**44.0**
AGC217	37.8	41.9	45.2	47.3	**43.0**
AGC331	37.1	42.0	45.6	48.2	**43.2**
AGC332	37.0	42.1	45.7	48.6	**43.3**
AGC333	36.9	41.4	45.8	48.4	**43.1**
AGC334	37.6	43.1	45.6	48.1	**43.6**
AGC335	36.8	41.3	46.4	47.5	**43.0**
AV-SAPPHIRE	37.6	40.4	45.4	47.0	**42.6**
BLN2690	37.6	42.8	45.8	49.1	**43.8**
BLN2851	40.8	45.1	47.7	47.6	**45.3**
BLN2852	40.2	44.1	46	48.0	**44.6**
BLN2853	37.9	41.3	43.5	47.2	**42.5**
BLN2854	39.2	42.7	46.4	49.6	**44.5**
BLN2855	39.7	44.3	46.4	48.7	**44.8**
BLN2856	38.0	42.2	44.5	47.2	**43.0**
BLN2857	38.6	40.9	46.4	50.8	**44.2**
H1488	38.2	41.7	43.3	46.0	**42.3**
H1663	39.1	41.8	44.6	43.7	**42.3**
HYOLA60	38.7	42.5	44.6	49.5	**43.8**
LANTERN	39.1	*	46.2	48.8	**44.7**
RAINBOW	35.3	38.9	41.8	44.3	**40.1**
RGAS03025	35.3	38.5	*	*	**36.9**
RGAS03026	37.5	42.0	45.3	*	**41.6**
RGAS03027	35.0	38.7	41.1	*	**38.3**
RGAS03028	36.1	40.1	42.9	*	**39.7**
RR009	40.2	43.3	46.1	49.2	**44.7**
RR010	39.6	43.5	45.5	49.5	**44.5**
RR011	39.5	42.9	45	48.5	**44.0**
RR012	39.4	44.7	46.2	48.2	**44.6**
RR013	40.4	43.9	45.1	49.5	**44.7**
RR014	37.4	42.2	46	47.8	**43.4**
RR015	37.8	40.0	45.2	45.5	**42.1**
RR016	38.3	42.1	46.8	48.8	**44.0**

S2 Mid Triazine Trials

Variety	W	H	S	K	Mean
AGT205	37.4	37.0	42.8	45.5	**40.7**
AGT208	38.5	*	42.8	*	**40.6**
AGT344	38.5	40.7	45.3	46.9	**42.8**
AGT345	37.5	38.7	43.7	45.9	**41.5**
ATR-BEACON	34.6	35.6	41.8	42.5	**38.6**
ATR-GRACE	34.8	35.7	41.6	41.5	**38.4**
ATR-HYDEN	34.2	34.6	40.6	42.0	**37.8**
BLN2832TT	33.9	34.8	41.0	41.2	**37.7**
BLN2861TT	35.0	34.9	40.6	41.8	**38.1**
BLN2862TT	33.7	34.8	39.5	41.0	**37.3**
CBWA-004	35.5	*	*	40.5	**38.0**
CBWA-005	36.3	*	*	45.0	**40.7**
RGAS03T16	32.8	33.4	40.6	*	**35.6**
RGAS03T17	33.0	32.7	39.2	*	**34.9**
RGAS03T18	31.8	33.1	40.5	*	**35.1**
RGAS03T20	35.3	36.7	41.3	*	**37.8**
RGAS03T21	33.8	*	41.4	*	**37.6**
SURPASS501TT	40.2	39.4	44.7	43.6	**42.0**
T2031	37.9	*	42.3	*	**40.1**
T2032	34.9	36.4	43.3	41.8	**39.1**
T2034	35.0	35.5	40.2	41.5	**38.0**
T2035	*	*	44.3	47.0	**45.7**
T2046	39.6	40.5	44.8	47.6	**43.1**
TR004	34.3	36.3	43.4	42.7	**39.2**
TR005	37.6	37.4	43.9	44.9	**40.9**
TR006	37.8	38.6	44.4	44.4	**41.3**
TR007	36.9	37.3	43.2	44.1	**40.4**
TR008	36.7	37.3	43.4	43.8	**40.3**
TRIBUNE	*	34.8	40.1	*	**37.4**
TRISTATE	*	36.0	40.1	*	**38.1**

S2 Mid Clearfield Trials

Variety	W	H	S	K	Mean
45C75	37.2	39.6	42.8	45.0	**41.1**
46C74	36.9	38.2	42.0	44.0	**40.3**
BLN2825CL	38.6	40.2	43.4	46.4	**42.1**
BLN2867CL	38.9	40.5	42.9	47.2	**42.4**
BLN2868CL	38.5	40.7	43.5	47.2	**42.5**
BLN2869CL	38.5	41.0	43.8	47.9	**42.8**
BLN2870CL	38.0	39.1	42.1	44.5	**40.9**
NS4876	36.4	38.4	42.3	45.9	**40.8**
NS4912	37.8	41.2	43.5	45.7	**42.0**
SURPASS603CL	39.9	41.3	44.8	48.9	**43.7**

W = Wagga- NSW H = Horsham - VIC S = Struan - SA K = Katanning - WA

[1] % in whole seed @ 6% moisture

Table 7b. Protein content for 2003 canola trials

S2 Early Conventional Trials

	W	H	M	N	Mean
02N703	43.6	39.0	45.5	41.1	**42.3**
02N708	42.6	38.5	45.2	40.7	**41.8**
AG-EMBLEM	*	37.0	*	*	**37.0**
AG-OUTBACK	41.6	37.8	44.9	39.6	**41.0**
AGC202	41.2	38.8	44.0	38.4	**40.6**
AGC206	44.2	40.2	45.0	40.3	**42.4**
AGC207	43.1	40.2	46.3	41.3	**42.7**
AGC208	44.0	41.9	46.8	41.2	**43.5**
AGC321	43.6	42.1	44.4	40.0	**42.5**
AGC322	40.3	38.7	43.5	37.9	**40.1**
AGC323	40.9	38.2	44.9	39.9	**41.0**
AGC324	39.5	37.6	43.8	38.1	**39.8**
BLN2002*SL909	43.6	39.6	45.8	40.9	**42.5**
BLN2037*SL903-SL123	43.8	39.7	46.7	40.8	**42.7**
BLN2062*SL021	41.3	38.7	45.2	40.1	**41.3**
BLN2299*SL013	42.2	37.7	45.6	40.5	**41.5**
BLN2683	43.0	38.8	44.9	40.2	**41.7**
BLN2844	43.0	40.4	45.9	40.9	**42.6**
BLN2845	42.8	41.2	44.6	41.1	**42.4**
BLN2846	44.5	41.8	44.5	41.1	**43.0**
BLN2847	44.0	40.4	45.8	41.0	**42.8**
BLN2848	41.6	39.1	44.6	40.0	**41.3**
BLN2849	43.6	41.5	45.3	41.8	**43.1**
BLN2850	42.8	41.7	44.7	40.2	**42.4**
C8197	44.0	41.9	46.4	42.8	**43.8**
H9071	45.8	41.6	47.1	42.0	**44.1**
MYSTIC	40.9	39.1	44.3	41.2	**41.4**
RAINBOW	41.3	*	44.4	40.2	**42.0**
RGAS0322	43.2	39.0	45.1	*	**42.4**
RIVETTE	45.2	42.6	45.8	42.8	**44.1**
RR001	46.2	42.4	47.1	43.1	**44.7**
RR002	46.2	40.8	46.4	43.2	**44.1**
RR003	42.5	40.6	46.7	40.4	**42.6**
RR004	42.7	39.6	45.8	40.5	**42.2**
RR005	41.0	37.3	45.1	39.7	**40.8**
RR006	40.9	38.2	44.6	39.4	**40.8**
RR007	42.8	40.3	43.9	41.6	**42.2**
RR008	44.2	41.5	46.0	42.4	**43.5**

S2 Early Triazine Trials

	W	H	M	N	Mean
AGT341	45.5	42	46.7	41.9	44.0
AGT342	44.0	*	*	*	44.0
AGT343	45.1	43.3	46.6	41.9	44.2
AGT346	46.0	43.2	47.3	43.5	45.0
ATR-BEACON	43.9	41.9	46.4	41.6	43.5
ATR-EYRE	44.7	41.4	45.1	40.4	42.9
ATR-HYDEN	45.4	41.6	46.2	41.4	43.6
BLN2858TT	44.5	41.1	45.8	40.9	43.1
BLN2859TT	44.7	40.8	45.8	40.5	43.0
BLN2860TT	45.1	42.5	46.2	41.4	43.8
RGAS03T15	44.8	41.0	46.2	41.6	43.4
RGAS03T19	*		46.3	41.6	44.0
SURPASS501TT	44.2	41.5	46.4	41.6	43.4
T2028	47.0	42.4	46.9	43.4	44.9
T2029	46.3	43.2	47.1	42.7	44.8
T2038	*	*	46.7	43.1	44.9
T2044	46.1	44.9	48.0	44.6	45.9
T2045	45.3	43.0	45.3	42.3	44.0
T2047	44.8	43.3	45.2	42.6	44.0
TO080*SP001	45.6	42.8	47.4	43.4	44.8
TO080*SP003	46.1	42.6	47.3	42.1	44.5
TO094*SP015	44.2	41.5	45.3	41.7	43.2
TO129*SP006	45.2	42.9	47.4	41.9	44.3
TR001	44.9	43.2	47.2	43.3	44.7
TR002	44.5	42.4	46.0	41.8	43.7
TR003	43.9	42.6	46.0	41.8	43.6
TRIGOLD	*	40.4	45.8	40.1	42.1
TRILOGY	*	41.9	44.3	40.5	42.2

S2 Early Clearfield Trials

	W	H	M	N	Mean
44C73	43.2	38.5	43.6	39.8	**41.3**
BLN2864CL	45.0	39.8	45.2	40.7	**42.7**
BLN2865CL	44.9	41.9	44.2	40.9	**43.0**
BLN2866CL	43.2	40.0	43.0	41.2	**41.9**
SURPASS402CL	45.5	40.6	44.7	40.1	**42.7**
SURPASS404CL	43.3	40.9	43.5	42.8	**42.6**

W = Wagga- NSW H = Horsham - VIC M= Minnipa - SA N = Newdegate - WA

[1]% in oil free meal @ 10% moisture

Table 7b. continued

S2 Mid Conventional Trials

	W	H	S	K	Mean
02N710	43.1	37.6	38.8	35.9	**38.8**
02N714	41.8	38.8	39.1	36.5	**39.0**
AGC210	40.6	38.5	37.4	33.5	**37.5**
AGC211	39.9	38.2	38.9	35.1	**38.0**
AGC217	42.4	39.7	39.6	35.5	**39.3**
AGC331	42.4	37.8	36.8	34.6	**37.9**
AGC332	42.5	38.5	37.9	34.4	**38.3**
AGC333	43.1	39.7	40.4	34.4	**39.4**
AGC334	43.3	39.2	39.7	35.0	**39.3**
AGC335	44.0	40.6	40.7	35.5	**40.2**
AV-SAPPHIRE	43.4	40.4	39.7	36.9	**40.1**
BLN2690	43.7	40.2	40.6	35.8	**40.1**
BLN2851	45.2	40.9	40.4	37.1	**40.9**
BLN2852	44.0	40.2	39.6	35.3	**39.8**
BLN2853	42.7	40.8	39.6	33.6	**39.2**
BLN2854	43.4	39.8	39.7	34.7	**39.4**
BLN2855	44.0	40.5	40.0	37.9	**40.6**
BLN2856	43.9	39.8	39.1	36.4	**39.8**
BLN2857	43.9	40.3	40.2	35.8	**40.1**
H1488	44.4	39.6	41.0	38.5	**40.9**
H1663	45.7	41.8	41.1	33.7	**40.6**
HYOLA60	45.0	42.5	41.1	39.8	**42.1**
LANTERN	44.8	*	41.2	39.0	**41.7**
RAINBOW	41.1	38.1	37.5	34.6	**37.8**
RGAS03025	42.6	39.9	*	*	**41.2**
RGAS03026	45.1	40.4	39.0	*	**41.5**
RGAS03027	41.9	38.2	38.5	*	**39.5**
RGAS03028	43.2	40.1	38.0	*	**40.4**
RR009	45.6	41.3	41.0	38.3	**41.5**
RR010	46.3	43.7	41.8	39.2	**42.8**
RR011	46.1	42.4	43.1	40.7	**43.1**
RR012	46.4	42.8	41.4	41.2	**42.9**
RR013	46.3	41.7	42.6	38.1	**42.2**
RR014	43.4	40.2	41.4	36.5	**40.3**
RR015	42.9	39.6	39.7	37.5	**39.9**
RR016	42.2	40.5	39.3	34.5	**39.1**

S2 Mid Triazine Trials

	W	H	S	K	Mean
AGT205	42.9	42.7	38.8	38.3	**40.7**
AGT208	44.9	*	41.2	*	**43.1**
AGT344	44.6	43.9	40.7	40.6	**42.4**
AGT345	44.7	43.6	39.2	40.0	**41.9**
ATR-BEACON	43.7	42.0	38.7	38.9	**40.8**
ATR-GRACE	44.3	42.5	38.5	39.5	**41.2**
ATR-HYDEN	43.8	42.1	38.0	37.1	**40.2**
BLN2832TT	43.5	43.2	38.2	37.8	**40.7**
BLN2861TT	43.9	43.6	38.6	38.1	**41.1**
BLN2862TT	44.0	42.3	37.6	39.2	**40.8**
RGAS03T16	44.5	43.8	37.4	*	**41.9**
RGAS03T17	44.9	42.0	39.5	*	**42.1**
RGAS03T18	44.1	42.8	39.0	*	**42.0**
RGAS03T20	43.7	42.3	36.6	*	**40.9**
RGAS03T21	42.9	41.7	38.4	*	**41.0**
SURPASS501TT	44.3	42.1	38.6	40.2	**41.3**
T2031	44.3	*	38.1	*	**41.2**
T2032	43.6	41.9	36.4	38.7	**40.1**
T2034	42.7	40.6	39.8	39.3	**40.6**
T2035	*	*	41.3	40.9	**41.1**
T2046	45.4	44.0	*	42.6	**44.0**
TR004	42.9	41.8	37.7	38.5	**40.2**
TR005	43.4	41.7	38.5	38.2	**40.5**
TR006	44.8	41.1	37.9	39.2	**40.8**
TR007	44.2	42.9	38.9	40.0	**41.5**
TR008	44.5	43.0	39.7	40.3	**41.9**
TRISBUNE	*	*	35.2	*	**35.2**
TRISTATE	*	*	37.6	*	**37.6**

S2 Mid Clearfield Trials

	W	H	S	K	Mean
45C75	43.6	40.1	38.4	35.2	**39.3**
46C74	43.3	40.1	38.8	37.3	**39.9**
BLN2825CL	44.4	41.3	37.6	36.0	**39.8**
BLN2867CL	45.5	41.3	38.4	35.9	**40.3**
BLN2868CL	44.7	41.7	39.4	37.0	**40.7**
BLN2869CL	45.4	42.8	39.8	37.8	**41.4**
BLN2870CL	42.9	40.9	38.0	37.0	**39.7**
NS4876	42.5	38.9	38.8	35.7	**39.0**
NS4912	42.7	38.7	37.1	37.5	**39.0**
SURPASS603CL	45.7	41.7	40.6	39.3	**41.8**

W = Wagga- NSW H = Horsham - VIC S = Struan - SA K = Katanning - WA

[1]% in oil free meal @ 10% moisture

Table 7c. Glucosinolate concentrations for 2003 canola trials

S2 Early Conventional Trials

	W	H	M	N	Mean
02N703	8	11	10	9	**9**
02N708	10	12	9	10	**10**
AG-EMBLEM	*	14	*	13	**14**
AG-OUTBACK	12	13	12	*	**12**
AGC202	14	17	19	15	**16**
AGC206	10	12	10	10	**10**
AGC207	9	11	12	9	**10**
AGC208	8	10	13	7	**10**
AGC321	9	11	9	10	**10**
AGC322	17	24	25	21	**22**
AGC323	11	13	12	13	**12**
AGC324	8	10	10	9	**10**
BLN2002*SL909	11	12	13	11	**12**
BLN2037*SL903-SL123	12	15	15	12	**13**
BLN2062*SL021	9	9	10	9	**9**
BLN2299*SL013	9	10	9	10	**10**
BLN2683	7	12	12	11	**11**
BLN2844	9	10	10	9	**10**
BLN2845	8	11	14	9	**11**
BLN2846	9	11	14	10	**11**
BLN2847	12	14	9	9	**11**
BLN2848	10	15	11	11	**12**
BLN2849	8	11	10	9	**10**
BLN2850	9	11	11	9	**10**
C8197	10	12	10	11	**11**
H9071	9	12	11	10	**11**
MYSTIC	7	11	10	10	**10**
RAINBOW	13	*	9	12	**11**
RGAS0322	10	12	10	*	**10**
RIVETTE	13	12	10	10	**11**
RR001	9	14	13	10	**11**
RR002	7	11	12	7	**9**
RR003	14	19	10	14	**14**
RR004	14	18	22	15	**17**
RR005	8	11	21	11	**13**
RR006	15	18	13	14	**15**
RR007	11	16	17	11	**14**
RR008	14	15	11	10	**13**

S2 Early Triazine Trials

	W	H	M	N	Mean
AGT341	12	16	18	12	**15**
AGT342	11	*	*	12	**11**
AGT343	13	15	14	12	**13**
AGT346	14	16	17	*	**16**
ATR-BEACON	12	14	12	10	**12**
ATR-EYRE	7	12	9	7	**9**
ATR-HYDEN	10	16	11	11	**12**
BLN2858TT	12	14	14	10	**12**
BLN2859TT	14	14	14	12	**14**
BLN2860TT	16	18	15	12	**15**
RGAS03T15	10	14	8	10	**11**
RGAS03T19	*	*	10	9	**10**
SURPASS501TT	11	11	7	7	**9**
T2028	10	11	9	9	**10**
T2029	13	13	9	10	**11**
T2038	*	*	8	9	**8**
T2044	11	10	9	8	**10**
T2045	13	12	11	9	**11**
T2047	10	12	9	9	**10**
TO080*SP001	9	15	10	8	**11**
TO080*SP003	10	11	10	7	**9**
TO094*SP015	10	12	9	7	**9**
TO129*SP006	9	11	11	9	**10**
TR001	7	11	7	8	**8**
TR002	11	13	10	9	**11**
TR003	9	12	9	9	**10**
TRIGOLD	*	14	9	9	**11**
TRILOGY	*	12	11	9	**11**

S2 Early Clearfield Trials

	W	H	M	N	Mean
44C73	9	9	10	9	**9**
45C75	*	14	*	12	**13**
BLN2864CL	11	15	13	14	**13**
BLN2865CL	15	17	17	10	**15**
BLN2866CL	11	12	11	11	**11**
SURPASS402CL	12	13	10	6	**10**
SURPASS404CL	8	9	6	8	**8**

W = Wagga- NSW H = Horsham - VIC M= Minnipa - SA N = Newdegate - WA

[1]% in whole seed @ 6% moisture

Table 7c. continued

S2 Mid Conventional Trials

	W	H	S	K	Mean
02N710	10	11	8	6	**9**
02N714	9	9	9	6	**8**
AGC210	11	8	7	7	**9**
AGC211	11	8	9	3	**8**
AGC217	12	11	8	8	**10**
AGC331	13	12	13	7	**11**
AGC332	12	14	12	8	**11**
AGC333	14	13	14	12	**13**
AGC334	16	14	10	11	**13**
AGC335	15	18	16	11	**15**
AV-SAPPHIRE	13	11	11	10	**11**
BLN2690	11	12	9	9	**10**
BLN2851	8	9	8	5	**8**
BLN2852	8	9	8	4	**8**
BLN2853	8	11	9	5	**8**
BLN2854	11	11	9	6	**9**
BLN2855	7	8	9	5	**7**
BLN2856	8	9	9	7	**8**
BLN2857	10	12	8	6	**9**
H1488	11	12	15	10	**12**
H1663	12	12	11	5	**10**
HYOLA60	10	12	10	7	**10**
LANTERN	13	*	10	10	**11**
RAINBOW	12	9	12	11	**11**
RGAS03025	11	12	*	*	**11**
RGAS03026	11	10	10	*	**10**
RGAS03027	9	8	10	*	**9**
RGAS03028	10	13	15	*	**13**
RR009	10	9	9	5	**8**
RR010	12	11	9	6	**9**
RR011	7	11	8	5	**8**
RR012	14	13	7	7	**10**
RR013	7	9	9	4	**7**
RR014	12	13	11	12	**12**
RR015	12	13	11	10	**12**
RR016	9	9	7	6	**8**

S2 Mid Triazine Trials

	W	H	S	K	Mean
AGT205	15	18	12	13	**15**
AGT208	11	*	9	*	**10**
AGT344	12	12	8	10	**10**
AGT345	11	15	8	8	**11**
ATR-BEACON	12	15	12	10	**12**
ATR-GRACE	14	16	13	11	**13**
ATR-HYDEN	12	13	11	10	**11**
BLN2832TT	16	14	14	13	**14**
BLN2861TT	17	13	12	14	**14**
BLN2862TT	18	18	14	16	**16**
RGAS03T16	14	13	11	*	**12**
RGAS03T17	13	16	10	*	**13**
RGAS03T18	13	13	13	*	**13**
RGAS03T20	9	19	9	*	**12**
RGAS03T21	13	12	10	*	**12**
SURPASS501TT	10	9	7	10	**9**
T2031	12	*	9	*	**11**
T2032	10	11	7	11	**10**
T2034	10	9	7	9	**9**
T2035	*	*	6	5	**6**
T2046	10	10	8	7	**9**
TR004	10	13	8	9	**10**
TR005	7	10	9	8	**9**
TR006	15	12	9	8	**11**
TR007	12	13	10	9	**11**
TR008	11	15	10	9	**11**
TRIBUNE	*	11	10	*	**10**
TRISTATE	*	12	9	*	**10**

S2 Mid Clearfield Trials

	W	H	S	K	Mean
45C75	11	15	10	6	**10**
46C74	11	10	10	6	**9**
BLN2825CL	14	17	11	10	**13**
BLN2867CL	11	15	11	7	**11**
BLN2868CL	13	14	11	9	**12**
BLN2869CL	14	18	12	9	**13**
BLN2870CL	13	17	13	10	**13**
NS4876	9	11	8	6	**9**
NS4912	10	10	8	10	**9**
SURPASS603CL	8	9	9	5	**8**

W = Wagga- NSW H = Horsham - VIC S = Struan - SA K = Katanning - WA

[1]% in whole seed @ 6% moisture

National Brassica Improvement Project- Fatty Acid Composition

Table 8a. Fatty acid composition for 2003 canola trials- S2 early conventional Wagga Wagga (NSW)

Sample	14:0	16:0	16:1	18:0	18:1	18:2	18:3	20:0	20:1	22:0	22:1	24:0	24:1	[1] Sat.	[2] Iodine Value
02N703	0.1	5.1	0.4	2.6	62.6	18.7	8.5	0.6	1.0	0.3	0.0	0.1	0.1	8.7	109.6
02N708C	0.1	5.6	0.4	2.6	60.2	20.5	8.5	0.6	0.9	0.2	0.0	0.2	0.1	9.3	110.6
AGC202	0.1	5.7	0.5	2.7	59.6	19.7	10.1	0.5	0.8	0.2	0.0	0.1	0.1	9.3	112.8
AGC206	0.1	4.8	0.4	2.7	63.3	18.7	7.7	0.7	1.1	0.3	0.0	0.2	0.1	8.8	108.0
AGC207	0.1	4.7	0.4	3.1	66.5	14.8	7.4	0.8	1.3	0.4	0.2	0.2	0.2	9.3	103.6
AGC208	0.1	4.3	0.4	2.9	69.5	13.2	6.9	0.8	1.2	0.3	0.0	0.2	0.1	8.6	102.0
AGC321	0.1	5.3	0.4	2.4	63.6	18.6	7.5	0.6	1.0	0.2	0.0	0.2	0.1	8.9	107.6
AGC322	0.1	5.0	0.4	2.7	60.8	18.2	10.8	0.6	0.9	0.2	0.0	0.1	0.1	8.8	113.3
AGC323	0.1	5.4	0.4	3.2	62.8	17.9	7.8	0.8	1.0	0.3	0.0	0.2	0.1	9.9	106.7
AGC324	0.1	5.4	0.5	2.5	60.2	19.9	9.2	0.6	1.1	0.3	0.0	0.2	0.1	9.0	111.5
AG-OUTBACK	0.1	4.8	0.4	3.0	63.1	17.7	8.4	0.8	1.1	0.3	0.0	0.2	0.1	9.2	108.1
BLN2002*SL909	0.1	5.1	0.4	2.2	59.2	20.5	10.2	0.6	1.1	0.3	0.1	0.1	0.1	8.4	114.5
BLN2037*SL903-SL123	0.1	4.9	0.4	2.3	60.6	21.0	8.4	0.6	1.1	0.3	0.0	0.1	0.1	8.3	111.8
BLN2062*SL021	0.1	5.3	0.4	2.3	60.7	19.7	9.2	0.6	1.1	0.3	0.0	0.1	0.1	8.8	111.6
BLN2299*SL013	0.1	5.1	0.4	2.5	60.9	20.9	8.2	0.6	1.0	0.2	0.0	0.1	0.1	8.6	111.1
BLN2683	0.1	5.0	0.4	2.4	60.7	19.9	9.1	0.7	1.2	0.4	0.0	0.2	0.1	8.7	111.6
BLN2844	0.1	5.0	0.4	2.4	62.0	19.6	8.2	0.6	1.0	0.3	0.0	0.2	0.1	8.7	109.8
BLN2845	0.1	5.3	0.4	2.7	61.8	19.6	8.3	0.5	0.9	0.2	0.0	0.1	0.1	9.0	109.9
BLN2846	0.1	5.5	0.4	2.7	62.3	19.1	8.1	0.5	0.8	0.2	0.0	0.2	0.1	9.1	108.9
BLN2847	0.1	4.8	0.4	2.6	63.1	18.5	8.3	0.7	1.0	0.3	0.0	0.2	0.1	8.5	109.3
BLN2848	0.1	4.9	0.4	2.9	64.7	16.8	7.8	0.8	1.1	0.3	0.0	0.1	0.1	9.1	106.3
BLN2849	0.1	5.1	0.4	2.4	60.5	20.2	9.1	0.6	1.0	0.3	0.0	0.1	0.1	8.6	112.0
BLN2850	0.1	5.7	0.4	2.5	60.1	21.2	7.9	0.6	0.9	0.3	0.0	0.1	0.1	9.3	110.3
C8197	0.1	5.1	0.4	2.7	64.5	16.7	8.1	0.7	1.1	0.3	0.0	0.1	0.1	9.1	106.9
H9071	0.1	5.3	0.4	2.4	60.5	21.9	7.3	0.6	1.0	0.3	0.0	0.1	0.1	8.8	110.3
MYSTIC	0.1	5.2	0.4	2.7	61.3	20.2	7.9	0.6	1.0	0.3	0.0	0.2	0.1	9.1	109.6
RAINBOW	0.1	5.5	0.4	2.9	61.5	19.5	7.9	0.5	0.8	0.2	0.1	0.3	0.3	9.6	108.4
RGAS0322	0.1	5.1	0.4	2.5	62.2	19.6	8.3	0.5	0.9	0.2	0.0	0.1	0.1	8.5	110.4
RIVETTE	0.1	5.0	0.4	2.3	62.1	19.5	8.1	0.7	1.2	0.3	0.0	0.2	0.1	8.6	109.7
RR001	0.1	4.9	0.3	2.6	61.9	20.3	8.1	0.5	0.9	0.2	0.0	0.1	0.1	8.4	110.6
RR002	0.1	5.0	0.3	2.5	60.5	21.3	8.5	0.5	0.9	0.2	0.0	0.1	0.1	8.4	112.0
RR003	0.1	5.2	0.4	2.5	58.9	20.9	10.1	0.5	0.9	0.2	0.0	0.1	0.1	8.6	114.5
RR004	0.1	5.0	0.4	2.4	60.4	19.5	10.3	0.5	0.9	0.2	0.0	0.1	0.1	8.3	113.9
RR005	0.1	5.1	0.5	2.5	58.4	20.4	11.2	0.5	0.9	0.2	0.0	0.2	0.1	8.6	115.8
RR006	0.1	5.8	0.4	2.3	57.7	21.0	10.8	0.5	0.9	0.2	0.0	0.1	0.1	9.1	115.3
RR007	0.1	5.4	0.4	2.9	59.0	20.7	9.6	0.6	0.9	0.2	0.0	0.1	0.1	9.3	112.8
RR008	0.1	5.2	0.4	2.6	62.0	19.6	8.3	0.5	0.8	0.2	0.0	0.2	0.2	8.8	110.0

[1] Sat- Sum of the saturated fatty acids including 14:0, 16:0, 18:0, 20:0, 22:0 and 24:0

[2] Iodine Value- Calculated from the fatty acid composition

Table 8b. Fatty acid composition for 2003 canola trials- S2 early conventional Minnipa (SA)

Sample	14:0	16:0	16:1	18:0	18:1	18:2	18:3	20:0	20:1	22:0	22:1	24:0	24:1	[1] Sat.	[2] Iodine Value
02N703	0.0	3.9	0.3	2.1	60.6	18.9	12.0	0.6	1.2	0.2	0.0	0.1	0.1	7.0	117.3
02N708C	0.1	4.1	0.3	2.2	58.6	20.8	11.7	0.6	1.1	0.3	0.0	0.1	0.1	7.3	118.3
AGC202	0.0	4.3	0.4	2.4	59.4	18.3	13.5	0.5	0.9	0.2	0.0	0.1	0.1	7.4	119.1
AGC206	0.1	4.0	0.3	2.1	60.7	19.4	11.3	0.6	1.1	0.3	0.0	0.1	0.1	7.1	116.4
AGC207	0.0	4.2	0.3	2.2	62.1	17.2	11.8	0.5	1.1	0.3	0.0	0.1	0.1	7.3	115.2
AGC208	0.1	4.1	0.3	2.4	60.2	19.3	11.4	0.6	1.1	0.3	0.0	0.1	0.1	7.5	116.4
AGC321	0.0	3.9	0.2	2.1	60.3	19.2	11.9	0.6	1.2	0.3	0.0	0.1	0.1	7.0	117.5
AGC322	0.1	4.2	0.3	2.4	59.6	18.3	13.4	0.5	0.9	0.2	0.0	0.1	0.1	7.5	118.8
AGC323	0.0	4.0	0.3	2.0	58.5	19.5	13.8	0.5	1.0	0.2	0.0	0.1	0.1	6.8	121.3
AGC324	0.1	5.1	0.4	2.0	58.5	20.6	11.6	0.5	1.0	0.2	0.0	0.1	0.1	7.9	117.5
AG-OUTBACK	0.0	4.0	0.3	1.9	57.8	20.5	13.1	0.6	1.2	0.3	0.1	0.1	0.1	6.9	120.9
BLN2002*SL909	0.0	4.5	0.3	2.4	58.8	19.3	13.0	0.5	0.9	0.2	0.0	0.1	0.1	7.6	119.0
BLN2037*SL903-SL123	0.0	4.2	0.3	2.0	57.9	21.8	11.4	0.6	1.2	0.3	0.0	0.1	0.1	7.3	118.7
BLN2062*SL021	0.1	4.4	0.3	1.9	57.9	20.6	12.8	0.5	1.1	0.2	0.0	0.1	0.1	7.2	120.1
BLN2299*SL013	0.1	4.4	0.3	2.1	59.8	20.7	10.7	0.5	1.0	0.2	0.0	0.1	0.1	7.3	116.5
BLN2683	0.1	4.4	0.3	1.9	58.8	20.3	12.3	0.5	1.1	0.2	0.0	0.1	0.1	7.2	119.0
BLN2844	0.0	4.0	0.3	1.9	58.1	21.7	11.6	0.6	1.2	0.3	0.0	0.1	0.1	7.0	119.2
BLN2845	0.0	4.1	0.3	2.4	59.5	18.6	13.2	0.5	1.0	0.2	0.0	0.1	0.1	7.4	118.8
BLN2846	0.0	4.2	0.3	2.3	59.9	20.1	11.4	0.5	1.0	0.2	0.0	0.1	0.1	7.2	117.2
BLN2847	0.1	4.1	0.3	2.0	58.5	20.2	12.9	0.5	1.1	0.2	0.0	0.1	0.1	6.9	120.2
BLN2848	0.0	4.4	0.3	2.1	60.8	19.3	11.3	0.5	1.0	0.2	0.0	0.1	0.1	7.3	116.2
BLN2849	0.1	4.4	0.3	1.9	58.4	21.4	11.7	0.5	1.0	0.2	0.0	0.1	0.1	7.1	119.0
BLN2850	0.0	4.4	0.3	2.3	59.3	18.6	13.1	0.5	0.9	0.2	0.0	0.1	0.1	7.5	118.8
C8197	0.0	4.0	0.3	2.3	62.9	16.0	12.1	0.6	1.2	0.3	0.0	0.1	0.1	7.4	114.8
H9071	0.1	4.4	0.3	1.9	59.7	21.3	10.6	0.5	1.0	0.2	0.0	0.1	0.1	7.0	117.1
RAINBOW	0.1	4.2	0.3	2.4	58.4	19.8	12.6	0.5	1.2	0.2	0.2	0.1	0.1	7.5	118.8
RGAS0322	0.0	3.9	0.3	2.2	60.1	19.5	12.1	0.5	1.0	0.2	0.0	0.1	0.1	6.9	118.3
RIVETTE	0.0	4.4	0.3	1.9	59.7	20.0	11.7	0.5	1.1	0.2	0.1	0.1	0.1	7.1	117.7
RR001	0.1	4.2	0.3	2.2	58.1	21.0	12.4	0.5	0.9	0.2	0.0	0.1	0.1	7.2	119.7
RR002	0.1	4.5	0.3	2.2	57.6	21.8	11.9	0.5	0.9	0.2	0.0	0.1	0.1	7.5	119.3
RR003	0.1	4.2	0.3	2.1	57.3	20.4	13.6	0.5	1.1	0.2	0.0	0.1	0.1	7.1	121.4
RR004	0.1	3.9	0.3	2.1	58.3	19.7	13.8	0.5	1.1	0.2	0.0	0.1	0.1	6.8	121.5
RR005	0.0	4.0	0.3	2.0	62.6	17.2	11.7	0.5	1.2	0.3	0.1	0.1	0.1	6.9	115.5
RR006	0.1	4.3	0.3	2.0	57.6	19.7	14.0	0.5	1.1	0.2	0.0	0.1	0.1	7.1	121.5
RR007	0.0	4.0	0.3	2.4	59.7	18.3	13.3	0.6	1.0	0.2	0.0	0.1	0.1	7.4	118.9
RR008	0.1	4.2	0.3	2.1	59.7	19.5	12.5	0.4	0.9	0.2	0.0	0.1	0.1	7.0	118.9

[1] Sat- Sum of the saturated fatty acids including 14:0, 16:0, 18:0, 20:0, 22:0 and 24:0

[2] Iodine Value- Calculated from the fatty acid composition

Table 8c. Fatty acid composition for 2003 canola trials- S2 early conventional Horsham (Vic)

Sample	14:0	16:0	16:1	18:0	18:1	18:2	18:3	20:0	20:1	22:0	22:1	24:0	24:1	[1] Sat.	[2] Iodine Value
02N703	0.1	4.2	0.3	2.5	66.4	16.6	7.8	0.6	1.0	0.3	0.0	0.1	0.1	7.7	107.4
02N708C	0.1	4.7	0.3	2.5	64.1	18.7	7.7	0.6	1.0	0.2	0.0	0.1	0.1	8.2	108.7
AGC202	0.1	4.4	0.4	2.7	65.2	16.2	9.3	0.5	0.8	0.2	0.0	0.1	0.1	8.0	109.5
AGC206	0.1	4.1	0.3	2.5	66.3	16.5	7.8	0.7	1.1	0.3	0.0	0.2	0.1	7.8	107.2
AGC207	0.1	4.2	0.4	2.7	68.1	13.8	7.6	0.7	1.4	0.3	0.4	0.2	0.1	8.2	104.1
AGC208	0.0	3.8	0.3	2.4	68.9	14.0	8.0	0.7	1.2	0.3	0.0	0.2	0.1	7.5	105.6
AGC321	0.1	4.4	0.3	2.2	63.5	18.0	9.2	0.6	1.1	0.3	0.0	0.2	0.1	7.7	111.1
AGC322	0.1	4.5	0.4	2.7	65.0	15.9	9.8	0.5	0.8	0.2	0.0	0.1	0.1	8.1	109.9
AGC323	0.1	4.5	0.4	2.8	66.1	16.7	7.3	0.7	1.0	0.3	0.0	0.2	0.1	8.5	106.0
AGC324	0.1	4.4	0.3	2.3	63.3	18.7	8.4	0.7	1.1	0.3	0.0	0.2	0.1	8.0	110.0
AG-EMBLEM	0.1	4.4	0.4	2.8	64.7	16.3	9.2	0.6	0.9	0.3	0.0	0.1	0.1	8.4	109.2
AG-OUTBACK	0.1	4.4	0.3	2.8	66.2	16.5	7.3	0.7	1.0	0.3	0.0	0.2	0.1	8.5	105.9
BLN2002*SL909	0.1	4.4	0.4	2.1	63.7	18.0	9.1	0.6	1.1	0.3	0.0	0.2	0.1	7.7	110.9
BLN2037*SL903-SL123	0.1	4.6	0.3	2.2	64.2	19.1	7.6	0.6	1.0	0.3	0.0	0.1	0.1	7.7	109.2
BLN2062*SL021	0.1	4.5	0.3	2.2	64.1	18.1	8.7	0.6	1.0	0.2	0.0	0.1	0.1	7.6	110.3
BLN2299*SL013	0.1	4.3	0.4	2.7	65.7	17.5	7.3	0.6	0.9	0.2	0.0	0.1	0.1	8.1	106.9
BLN2683	0.1	4.6	0.3	2.3	64.1	17.6	8.9	0.6	1.0	0.3	0.0	0.1	0.1	8.0	109.9
BLN2844	0.1	4.3	0.3	2.4	64.4	18.2	8.0	0.6	1.0	0.3	0.0	0.2	0.1	7.9	109.0
BLN2845	0.1	4.3	0.3	2.6	65.3	17.5	7.8	0.6	1.0	0.2	0.0	0.1	0.1	8.0	107.9
BLN2846	0.1	4.2	0.3	2.7	65.8	17.0	8.1	0.6	0.9	0.2	0.0	0.1	0.1	7.9	108.1
BLN2847	0.1	4.0	0.3	2.4	64.3	17.7	8.7	0.7	1.1	0.3	0.0	0.2	0.1	7.8	109.9
BLN2848	0.1	4.1	0.3	2.7	67.0	16.1	7.3	0.7	1.1	0.3	0.0	0.2	0.1	8.1	105.8
BLN2849	0.1	4.5	0.3	2.2	63.3	19.3	8.4	0.5	1.0	0.2	0.0	0.1	0.1	7.6	110.9
BLN2850	0.1	4.9	0.3	2.3	62.9	19.4	7.9	0.6	1.0	0.3	0.0	0.2	0.1	8.3	109.5
C8197	0.1	4.5	0.3	2.7	67.3	14.2	8.4	0.8	1.1	0.3	0.0	0.2	0.1	8.5	105.7
H9071	0.1	4.4	0.3	2.1	65.0	18.9	7.1	0.5	1.0	0.2	0.0	0.1	0.1	7.5	108.4
MYSTIC	0.1	4.5	0.3	2.5	64.7	18.0	7.9	0.6	1.0	0.2	0.0	0.1	0.1	7.9	108.6
RGAS0322	0.1	4.4	0.3	2.4	65.4	17.4	8.3	0.5	0.9	0.2	0.0	0.1	0.1	7.6	109.1
RIVETTE	0.1	4.3	0.3	2.2	64.7	17.8	8.2	0.7	1.1	0.3	0.0	0.2	0.1	7.7	109.1
RR001	0.1	4.2	0.3	2.4	65.4	17.7	8.3	0.5	0.9	0.2	0.0	0.1	0.1	7.4	109.4
RR002	0.1	4.3	0.3	2.4	64.6	18.4	8.0	0.5	0.9	0.2	0.0	0.1	0.1	7.6	109.5
RR003	0.1	4.7	0.3	2.3	62.9	18.4	9.5	0.5	0.9	0.2	0.0	0.1	0.1	7.9	111.8
RR004	0.1	4.5	0.3	2.3	64.1	17.8	9.1	0.5	0.9	0.2	0.0	0.1	0.1	7.6	110.8
RR005	0.1	4.2	0.3	2.4	64.2	17.6	9.3	0.5	1.0	0.2	0.0	0.1	0.1	7.5	111.1
RR006	0.1	4.6	0.3	2.3	62.7	18.1	9.6	0.6	1.0	0.2	0.0	0.2	0.1	8.0	111.7
RR007	0.1	4.8	0.4	2.7	62.8	18.2	9.4	0.5	0.8	0.2	0.0	0.1	0.1	8.3	111.1
RR008	0.1	4.5	0.3	2.4	64.4	17.6	9.0	0.5	0.8	0.2	0.0	0.1	0.1	7.8	110.3

[1] Sat- Sum of the saturated fatty acids including 14:0, 16:0, 18:0, 20:0, 22:0 and 24:0

[2] Iodine Value- Calculated from the fatty acid composition

Table 8d. Fatty acid composition for 2003 canola trials- S2 early conventional Newdegate (WA)

Sample	14:0	16:0	16:1	18:0	18:1	18:2	18:3	20:0	20:1	22:0	22:1	24:0	24:1	[1] Sat.	[2] Iodine Value
02N703	0.1	4.2	0.3	2.3	63.6	17.4	10.0	0.6	1.1	0.3	0.0	0.1	0.1	7.5	112.2
02N708C	0.1	4.5	0.3	2.3	61.7	19.2	9.8	0.6	1.0	0.2	0.0	0.1	0.1	7.8	113.2
AGC202	0.1	4.4	0.4	2.4	62.0	17.6	11.4	0.5	0.9	0.2	0.0	0.1	0.1	7.6	114.6
AGC206	0.1	4.4	0.4	2.3	63.3	17.6	9.8	0.6	1.1	0.3	0.0	0.1	0.1	7.7	111.7
AGC207	0.1	4.1	0.4	2.4	65.9	15.0	9.6	0.6	1.3	0.3	0.1	0.2	0.1	7.6	109.1
AGC208	0.0	3.9	0.3	2.1	66.3	15.2	9.6	0.6	1.3	0.3	0.1	0.1	0.1	7.1	109.9
AGC321	0.0	4.3	0.3	2.0	61.2	18.9	11.0	0.6	1.1	0.3	0.0	0.2	0.1	7.3	115.3
AGC322	0.1	4.3	0.3	2.4	62.3	17.0	11.7	0.6	0.9	0.2	0.0	0.1	0.1	7.7	114.6
AGC323	0.0	4.0	0.3	2.6	63.2	17.7	9.3	0.8	1.3	0.4	0.0	0.2	0.2	8.0	110.7
AGC324	0.0	4.2	0.3	2.2	62.4	18.2	9.9	0.7	1.3	0.4	0.0	0.2	0.2	7.7	112.5
AG-OUTBACK	0.1	4.3	0.3	2.6	63.4	17.4	9.4	0.7	1.1	0.3	0.0	0.2	0.1	8.1	110.5
BLN2002*SL909	0.1	4.3	0.4	1.9	61.4	18.7	10.9	0.5	1.2	0.3	0.1	0.1	0.1	7.3	115.1
BLN2037*SL903-SL123	0.1	4.3	0.3	2.1	61.6	20.0	9.5	0.6	1.2	0.3	0.0	0.1	0.1	7.3	113.7
BLN2062*SL021	0.1	4.8	0.4	1.9	60.5	19.7	10.6	0.5	1.0	0.2	0.0	0.1	0.1	7.7	115.0
BLN2299*SL013	0.1	4.3	0.4	2.2	61.4	20.3	9.3	0.5	1.1	0.2	0.0	0.1	0.1	7.5	113.3
BLN2683	0.1	4.5	0.3	2.0	59.9	19.8	10.8	0.6	1.2	0.3	0.1	0.1	0.1	7.7	115.4
BLN2844	0.1	4.2	0.3	2.1	63.0	18.4	9.6	0.6	1.1	0.3	0.0	0.1	0.1	7.4	112.4
BLN2845	0.0	4.1	0.3	2.4	63.4	18.3	9.3	0.6	1.1	0.3	0.0	0.1	0.1	7.5	111.7
BLN2846	0.1	4.6	0.3	2.4	63.1	18.2	9.6	0.5	0.9	0.2	0.0	0.1	0.1	7.8	112.0
BLN2847	0.0	3.8	0.3	2.2	63.0	17.7	10.5	0.7	1.2	0.3	0.0	0.2	0.1	7.1	113.6
BLN2848	0.1	4.4	0.3	2.3	64.5	17.0	9.3	0.6	1.0	0.2	0.0	0.1	0.1	7.7	110.4
BLN2849	0.0	4.1	0.3	2.1	62.1	19.1	10.0	0.6	1.2	0.3	0.0	0.1	0.1	7.1	113.9
BLN2850	0.1	4.5	0.3	2.1	60.6	20.2	9.6	0.7	1.2	0.3	0.0	0.2	0.2	7.8	113.6
C8197	0.1	4.4	0.3	2.3	64.0	15.6	10.9	0.7	1.2	0.3	0.0	0.1	0.1	7.9	111.8
H9071	0.1	4.4	0.3	1.9	61.7	20.5	9.0	0.5	1.1	0.2	0.0	0.1	0.1	7.2	113.5
MYSTIC	0.1	4.4	0.3	2.3	62.8	18.9	9.1	0.5	1.0	0.2	0.0	0.1	0.1	7.6	111.9
RAINBOW	0.1	4.3	0.3	2.4	60.6	19.2	11.0	0.5	1.0	0.2	0.1	0.1	0.1	7.6	115.3
RIVETTE	0.1	4.4	0.3	1.9	62.7	18.3	10.0	0.6	1.2	0.3	0.0	0.1	0.1	7.3	113.1
RR001	0.1	4.1	0.3	2.2	62.1	19.3	10.2	0.5	0.9	0.2	0.0	0.1	0.1	7.0	114.6
RR002	0.1	4.4	0.3	2.2	61.6	19.9	9.7	0.5	0.9	0.2	0.0	0.1	0.1	7.4	114.0
RR003	0.1	4.3	0.3	2.1	60.8	19.0	11.4	0.5	1.0	0.2	0.0	0.1	0.1	7.3	116.1
RR004	0.1	4.3	0.3	2.2	62.0	18.0	11.2	0.5	1.0	0.2	0.0	0.1	0.1	7.3	115.0
RR005	0.1	4.0	0.3	2.2	62.2	18.0	11.2	0.5	1.0	0.2	0.0	0.1	0.1	7.1	115.1
RR006	0.1	4.9	0.4	2.0	59.3	19.9	11.5	0.5	1.0	0.2	0.0	0.1	0.1	7.8	116.8
RR007	0.1	4.8	0.4	2.4	59.5	19.6	11.4	0.5	0.9	0.2	0.0	0.1	0.1	8.1	116.2
RR008	0.1	4.4	0.3	2.1	61.9	19.1	10.6	0.4	0.9	0.2	0.0	0.1	0.1	7.2	114.8

[1] Sat- Sum of the saturated fatty acids including 14:0, 16:0, 18:0, 20:0, 22:0 and 24:0

[2] Iodine Value- Calculated from the fatty acid composition

Table 8e. Fatty acid composition for 2003 canola trials- S2 early Triazine tolerant- Wagga Wagga (NSW)

Sample	14:0	16:0	16:1	18:0	18:1	18:2	18:3	20:0	20:1	22:0	22:1	24:0	24:1	[1] Sat.	[2] Iodine Value
AGT341	0.1	5.3	0.4	2.6	61.3	20.2	7.8	0.7	1.0	0.3	0.0	0.1	0.1	9.1	109.4
AGT342	0.1	4.8	0.4	2.9	63.6	18.3	7.7	0.6	1.1	0.2	0.2	0.1	0.1	8.8	107.7
AGT343	0.1	5.3	0.4	2.4	61.9	19.8	7.5	0.6	1.3	0.3	0.3	0.1	0.1	8.8	108.6
AGT346	0.1	5.2	0.4	2.3	61.3	20.3	8.0	0.7	1.1	0.3	0.0	0.2	0.1	8.8	109.9
ATR-BEACON	0.1	5.0	0.4	2.8	63.0	18.9	7.8	0.6	0.9	0.2	0.0	0.2	0.1	8.9	108.4
ATR-EYRE	0.1	5.0	0.4	2.6	62.0	19.0	9.1	0.5	0.9	0.2	0.0	0.1	0.1	8.5	111.1
ATR-HYDEN	0.1	4.8	0.4	2.9	64.5	17.6	7.3	0.7	1.1	0.3	0.0	0.2	0.1	9.1	106.1
BLN2858TT	0.1	5.5	0.4	2.6	60.4	20.6	8.1	0.7	1.0	0.3	0.0	0.2	0.1	9.3	110.0
BLN2859TT	0.1	5.2	0.4	2.5	58.1	22.5	8.7	0.7	1.1	0.4	0.0	0.2	0.2	9.0	113.0
BLN2860TT	0.1	4.8	0.3	2.4	57.0	21.0	9.4	0.7	1.9	0.3	1.7	0.2	0.2	8.5	113.1
RGAS03T15	0.1	5.3	0.4	2.3	57.4	23.1	9.8	0.5	0.8	0.2	0.0	0.1	0.1	8.5	116.0
SURPASS501TT	0.1	5.0	0.3	2.2	60.8	22.1	7.7	0.5	0.9	0.2	0.0	0.1	0.1	8.0	111.8
T2028	0.1	5.1	0.4	2.6	63.4	18.5	7.7	0.6	1.0	0.3	0.0	0.2	0.1	8.9	107.9
T2029	0.1	4.4	0.3	2.2	62.4	19.4	8.7	0.7	1.3	0.3	0.0	0.2	0.1	7.8	111.2
T2044	0.1	4.7	0.4	2.5	59.5	21.1	9.4	0.7	1.1	0.3	0.0	0.2	0.1	8.4	113.5
T2045	0.1	5.1	0.4	2.5	60.6	20.5	8.7	0.6	1.0	0.3	0.0	0.2	0.1	8.8	111.5
T2047	0.1	4.6	0.3	2.5	64.8	18.2	6.9	0.7	1.2	0.3	0.2	0.2	0.1	8.3	106.7
TO080*SP001	0.1	4.9	0.3	2.5	61.7	19.4	9.1	0.6	0.9	0.2	0.0	0.1	0.1	8.4	111.5
TO080*SP003	0.1	5.0	0.3	2.5	61.2	19.6	9.1	0.6	1.0	0.3	0.0	0.2	0.1	8.7	111.5
TO094*SP015	0.1	5.1	0.3	2.6	64.2	18.1	8.2	0.0	0.9	0.2	0.0	0.1	0.1	8.1	109.1
TO129*SP006	0.1	5.1	0.3	2.3	59.4	20.9	9.2	0.7	1.2	0.4	0.0	0.2	0.2	8.7	112.8
TR001	0.1	4.9	0.4	2.3	39.3	18.8	8.6	0.9	10.4	0.4	13.2	0.2	0.5	8.7	107.1
TR002	0.1	4.9	0.3	2.4	62.2	19.9	8.2	0.5	1.0	0.2	0.0	0.1	0.1	8.2	110.6
TR003	0.1	5.2	0.3	2.4	61.8	21.2	7.2	0.5	0.9	0.2	0.0	0.1	0.1	8.5	109.7

Table 8f. Fatty acid composition for 2003 canola trials- S2 early Triazine tolerant- Minnipa (SA)

Sample	14:0	16:0	16:1	18:0	18:1	18:2	18:3	20:0	20:1	22:0	22:1	24:0	24:1	[1] Sat.	[2] Iodine Value
AGT341	0.1	5.2	0.4	1.9	54.6	23.4	12.9	0.4	0.8	0.2	0.0	0.1	0.1	7.8	122.2
AGT343	0.0	4.8	0.4	1.8	55.2	22.6	12.7	0.5	1.3	0.3	0.2	0.1	0.1	7.6	121.3
AGT346	0.1	4.9	0.3	1.8	57.2	21.4	12.0	0.4	1.3	0.2	0.3	0.1	0.1	7.4	119.2
ATR-BEACON	0.1	4.2	0.3	2.0	54.8	22.0	14.3	0.5	1.2	0.2	0.2	0.1	0.1	7.1	124.0
ATR-EYRE	0.1	5.5	0.4	1.9	55.4	20.6	14.9	0.3	0.6	0.1	0.0	0.0	0.0	8.0	123.3
ATR-HYDEN	0.0	4.1	0.3	2.1	56.9	20.4	13.6	0.6	1.3	0.3	0.2	0.1	0.2	7.2	121.2
BLN2858TT	0.1	4.9	0.3	1.8	53.4	23.3	14.0	0.5	1.1	0.3	0.0	0.1	0.1	7.7	124.2
BLN2859TT	0.0	4.6	0.3	1.9	53.0	24.6	13.1	0.6	1.1	0.3	0.0	0.1	0.2	7.6	123.7
BLN2860TT	0.1	4.3	0.3	1.8	50.5	22.1	14.6	0.5	2.5	0.3	2.7	0.1	0.2	7.1	124.2
RGAS03T15	0.1	4.7	0.4	1.7	50.8	26.0	14.7	0.4	0.8	0.2	0.0	0.1	0.1	7.1	128.4
RGAS03T19	0.0	4.3	0.3	2.1	56.7	20.6	13.6	0.6	1.1	0.3	0.0	0.2	0.1	7.4	121.2
SURPASS501TT	0.0	4.4	0.2	1.8	56.8	24.2	10.8	0.4	1.0	0.2	0.1	0.1	0.1	6.9	119.9
T2028	0.0	4.7	0.3	2.0	58.2	20.5	12.7	0.4	0.9	0.2	0.0	0.0	0.0	7.3	119.8
T2029	0.1	4.1	0.3	1.7	56.4	22.2	13.3	0.5	1.1	0.2	0.0	0.1	0.1	6.6	122.9
T2038	0.0	4.6	0.3	1.8	55.5	21.4	14.2	0.5	1.2	0.2	0.1	0.1	0.1	7.2	123.3
T2044	0.1	4.4	0.3	1.7	52.1	24.6	14.5	0.5	1.2	0.3	0.2	0.1	0.1	7.0	126.6
T2045	0.1	5.3	0.4	1.9	53.8	22.9	13.9	0.4	1.0	0.2	0.1	0.1	0.1	7.8	123.6
T2047	0.1	4.8	0.4	1.8	58.4	21.4	11.5	0.4	0.9	0.2	0.0	0.0	0.1	7.3	118.5
TO080*SP001	0.0	5.0	0.3	1.9	54.8	22.5	13.9	0.4	0.8	0.1	0.1	0.0	0.1	7.5	123.5
TO080*SP003	0.1	5.8	0.4	1.8	52.9	23.4	14.2	0.3	0.7	0.1	0.0	0.0	0.1	8.2	124.3
TO094*SP015	0.1	5.2	0.3	2.0	56.5	20.9	13.4	0.4	0.8	0.2	0.0	0.1	0.1	7.9	120.9
TO129*SP006	0.1	5.3	0.4	1.6	52.9	23.6	14.1	0.4	1.0	0.2	0.0	0.1	0.1	7.8	124.6
TR001	0.1	4.8	0.3	1.7	34.7	20.8	14.6	0.6	10.1	0.2	11.7	0.1	0.3	7.5	120.6
TR002	0.1	4.6	0.3	1.8	55.5	22.6	13.5	0.4	0.9	0.1	0.1	0.1	0.1	7.0	123.2
TR003	0.1	4.9	0.3	1.7	55.4	23.6	12.4	0.4	0.9	0.1	0.1	0.1	0.1	7.3	122.1
TRIGOLD	0.1	4.5	0.3	1.6	53.8	22.6	15.4	0.4	1.0	0.2	0.0	0.1	0.1	6.8	126.8
TRILOGY	0.1	5.2	0.4	1.8	56.8	21.3	13.0	0.4	0.9	0.1	0.0	0.0	0.1	7.6	120.7

[1] Sat- Sum of the saturated fatty acids including 14:0, 16:0, 18:0, 20:0, 22:0 and 24:0

[2] Iodine Value- Calculated from the fatty acid composition

Table 8g. Fatty acid composition for 2003 canola trials- S2 early Triazine tolerant- Horsham (Vic)

Sample	14:0	16:0	16:1	18:0	18:1	18:2	18:3	20:0	20:1	22:0	22:1	24:0	24:1	[1] Sat.	[2] Iodine Value
AGT341	0.1	5.2	0.4	2.2	61.4	20.1	8.6	0.6	0.9	0.2	0.0	0.1	0.1	8.4	111.3
AGT343	0.1	5.4	0.4	2.1	61.3	19.8	8.6	0.5	1.1	0.2	0.2	0.1	0.1	8.4	111.1
AGT346	0.1	5.1	0.4	2.1	63.5	18.9	8.1	0.5	0.9	0.2	0.0	0.1	0.1	8.1	109.7
ATR-BEACON	0.1	4.8	0.4	2.3	62.3	18.7	9.6	0.5	0.9	0.2	0.1	0.1	0.1	7.9	112.2
ATR-EYRE	0.1	5.3	0.4	2.3	61.5	18.9	10.1	0.4	0.7	0.2	0.0	0.1	0.1	8.3	112.9
ATR-HYDEN	0.1	5.2	0.4	2.3	62.2	18.5	9.4	0.5	0.9	0.2	0.0	0.1	0.1	8.4	111.4
BLN2858TT	0.1	5.2	0.4	2.2	60.6	19.8	9.7	0.6	1.0	0.2	0.0	0.1	0.1	8.4	113.0
BLN2859TT	0.1	5.1	0.4	2.3	59.7	21.6	8.6	0.6	1.0	0.3	0.0	0.2	0.1	8.6	112.3
BLN2860TT	0.1	4.4	0.3	2.1	59.0	19.5	10.2	0.6	1.8	0.3	1.3	0.2	0.1	7.7	114.0
RGAS03T15	0.1	5.0	0.4	2.0	59.9	21.3	9.8	0.4	0.8	0.1	0.0	0.1	0.1	7.8	115.0
SURPASS501TT	0.1	5.0	0.3	2.1	61.8	21.7	7.3	0.4	0.9	0.2	0.0	0.1	0.1	7.9	110.9
T2028	0.1	5.1	0.4	2.2	62.5	18.3	9.4	0.5	1.0	0.2	0.0	0.1	0.1	8.2	111.2
T2029	0.1	4.2	0.3	1.9	62.3	19.3	9.4	0.6	1.2	0.3	0.0	0.2	0.1	7.2	113.1
T2044	0.1	5.0	0.4	2.0	60.0	20.6	10.2	0.5	0.9	0.2	0.0	0.1	0.1	7.8	115.0
T2045	0.1	5.1	0.4	2.2	61.3	19.3	9.2	0.5	1.1	0.2	0.3	0.1	0.1	8.3	111.8
T2047	0.1	4.7	0.3	2.1	65.2	18.1	7.7	0.5	1.0	0.2	0.0	0.1	0.1	7.6	108.7
TO080*SP001	0.1	4.7	0.3	2.2	62.8	18.6	9.5	0.5	0.8	0.2	0.0	0.1	0.1	7.8	112.1
TO080*SP003	0.1	5.0	0.3	2.1	61.4	19.8	9.5	0.5	0.9	0.2	0.0	0.1	0.1	7.9	113.1
TO094*SP015	0.1	5.1	0.3	2.3	63.3	18.2	8.9	0.5	0.8	0.2	0.1	0.1	0.1	8.2	110.5
TO129*SP006	0.1	5.2	0.4	2.1	60.0	20.6	9.5	0.6	1.0	0.3	0.0	0.2	0.1	8.4	113.2
TR001	0.1	5.1	0.4	2.0	40.3	17.8	10.2	0.7	9.9	0.4	12.5	0.2	0.4	8.5	109.3
TR002	0.1	4.7	0.3	2.1	63.9	18.7	8.5	0.4	0.9	0.2	0.0	0.1	0.1	7.6	110.5
TR003	0.1	5.0	0.3	2.2	61.7	20.3	8.7	0.4	0.9	0.1	0.0	0.1	0.1	8.0	112.0
TRIGOLD	0.1	4.5	0.4	2.0	59.9	19.4	11.0	0.6	1.3	0.3	0.4	0.1	0.1	7.6	115.4
TRILOGY	0.1	5.0	0.4	2.2	63.1	18.4	8.9	0.5	1.0	0.2	0.0	0.1	0.1	8.1	110.5

Table 8h. Fatty acid composition for 2003 canola trials- S2 early Triazine tolerant- Newdegate (WA)

Sample	14:0	16:0	16:1	18:0	18:1	18:2	18:3	20:0	20:1	22:0	22:1	24:0	24:1	[1] Sat.	[2] Iodine Value
AGT341	0.1	4.8	0.4	2.0	57.5	21.7	10.6	0.6	1.4	0.2	0.5	0.1	0.1	7.7	116.6
AGT343	0.1	4.7	0.4	1.9	59.0	20.8	10.5	0.6	1.3	0.3	0.2	0.1	0.1	7.7	115.8
AGT346	0.1	4.8	0.4	1.9	58.8	21.4	10.2	0.6	1.2	0.3	0.2	0.1	0.1	7.7	115.8
ATR-BEACON	0.1	4.5	0.3	2.2	60.0	19.6	11.4	0.5	1.0	0.2	0.0	0.1	0.1	7.6	116.3
ATR-EYRE	0.1	4.3	0.3	2.1	59.8	19.5	11.8	0.5	1.0	0.2	0.1	0.1	0.1	7.4	117.2
ATR-HYDEN	0.1	4.5	0.4	2.2	60.4	18.9	11.2	0.6	1.2	0.2	0.1	0.1	0.1	7.7	115.4
BLN2858TT	0.1	5.2	0.4	2.0	57.9	21.2	11.4	0.5	1.0	0.2	0.0	0.1	0.1	8.0	117.5
BLN2859TT	0.1	5.0	0.4	2.1	55.4	23.9	10.7	0.6	1.2	0.3	0.0	0.1	0.1	8.2	118.5
BLN2860TT	0.1	4.4	0.3	2.0	56.9	19.7	12.0	0.5	2.0	0.2	1.5	0.1	0.1	7.4	117.4
RGAS03T15	0.1	5.5	0.5	1.9	55.4	23.6	11.8	0.3	0.7	0.1	0.1	0.0	0.1	7.9	120.3
RGAS03T19	0.1	5.0	0.4	2.0	58.1	21.5	11.0	0.5	0.9	0.2	0.1	0.1	0.1	7.9	117.2
SURPASS501TT	0.1	4.6	0.3	2.0	60.3	21.3	9.6	0.4	1.0	0.2	0.0	0.1	0.1	7.4	115.0
T2028	0.1	4.6	0.4	2.2	60.7	19.4	10.6	0.5	1.1	0.2	0.0	0.1	0.1	7.7	114.8
T2029	0.1	4.4	0.3	1.9	59.4	20.5	10.9	0.6	1.2	0.3	0.0	0.2	0.2	7.3	116.6
T2038	0.0	4.3	0.3	1.9	58.7	20.1	11.7	0.7	1.4	0.4	0.0	0.2	0.2	7.4	117.5
T2044	0.1	4.1	0.3	2.0	57.7	21.3	11.9	0.6	1.3	0.3	0.0	0.2	0.2	7.2	119.0
T2045	0.1	4.8	0.4	2.0	58.4	20.8	11.3	0.5	1.1	0.2	0.2	0.1	0.1	7.8	117.0
T2047	0.1	4.0	0.3	2.1	62.2	19.0	9.8	0.6	1.3	0.3	0.0	0.2	0.2	7.2	113.3
TO080*SP001	0.1	4.7	0.3	2.1	60.0	19.8	11.2	0.4	0.9	0.2	0.1	0.1	0.1	7.5	116.4
TO080*SP003	0.1	4.4	0.3	2.1	58.3	21.1	11.5	0.6	1.1	0.2	0.1	0.1	0.1	7.5	118.0
TO094*SP015	0.0	4.3	0.3	2.0	60.1	21.7	9.6	0.5	1.0	0.2	0.0	0.1	0.1	7.2	115.5
TO129*SP006	0.1	4.7	0.3	1.9	57.6	21.4	11.4	0.6	1.3	0.3	0.0	0.2	0.2	7.8	117.8
TR001	0.1	4.4	0.3	1.9	35.5	17.8	11.3	0.7	11.5	0.3	15.6	0.1	0.5	7.5	111.6
TR002	0.1	4.7	0.3	2.0	59.6	20.8	10.4	0.4	1.1	0.2	0.2	0.1	0.1	7.3	116.0
TR003	0.1	4.6	0.3	1.9	58.2	22.6	10.5	0.5	1.0	0.2	0.0	0.1	0.1	7.3	117.6
TRILOGY	0.1	4.5	0.3	2.1	61.7	18.7	10.5	0.5	1.2	0.2	0.0	0.1	0.1	7.6	114.1

[1] Sat- Sum of the saturated fatty acids including 14:0, 16:0, 18:0, 20:0, 22:0 and 24:0

[2] Iodine Value- Calculated from the fatty acid composition

Table 8i. Fatty acid composition for 2003 canola trials- S2 early Clearfield- Wagga Wagga (NSW)

Sample	14:0	16:0	16:1	18:0	18:1	18:2	18:3	20:0	20:1	22:0	22:1	24:0	24:1	[1] Sat.	[2] Iodine Value
44C73	0.1	4.2	0.3	2.5	62.7	19.5	8.8	0.5	1.0	0.2	0.0	0.1	0.1	7.6	111.8
BLN2864CL	0.1	4.1	0.3	2.6	62.4	20.1	7.7	0.7	1.3	0.3	0.0	0.2	0.2	8.0	110.0
BLN2865CL	0.1	4.5	0.3	2.4	64.6	17.4	8.3	0.6	1.1	0.3	0.0	0.1	0.1	8.0	108.8
BLN2866CL	0.1	4.2	0.3	2.5	63.8	19.8	6.8	0.7	1.3	0.3	0.1	0.2	0.1	7.9	108.2
SURPASS402CL	0.1	4.6	0.3	2.7	63.6	19.7	7.0	0.5	1.0	0.2	0.0	0.1	0.1	8.2	108.3
SURPASS404CL	0.1	4.9	0.3	2.0	58.4	24.4	8.1	0.5	1.0	0.2	0.0	0.1	0.1	7.7	114.6

Table 8j. Fatty acid composition for 2003 canola trials- S2 early Clearfield- Minnipa (SA)

Sample	14:0	16:0	16:1	18:0	18:1	18:2	18:3	20:0	20:1	22:0	22:1	24:0	24:1	[1] Sat.	[2] Iodine Value
44C73	0.1	3.9	0.3	2.1	56.4	22.2	13.2	0.5	1.0	0.2	0.0	0.1	0.1	6.8	122.4
BLN2864CL	0.1	3.9	0.3	2.1	58.2	22.2	11.0	0.6	1.2	0.3	0.0	0.1	0.2	7.0	118.5
BLN2865CL	0.0	4.1	0.3	1.9	58.2	19.8	13.1	0.6	1.2	0.3	0.0	0.1	0.2	7.1	120.0
BLN2866CL	0.1	4.0	0.2	2.1	59.6	22.0	10.0	0.5	1.1	0.2	0.0	0.1	0.1	7.0	116.5
SURPASS402CL	0.1	4.1	0.3	2.1	58.3	22.0	11.3	0.4	1.0	0.2	0.0	0.1	0.1	6.9	118.9
SURPASS404CL	0.1	4.2	0.2	1.7	56.7	24.6	10.5	0.4	1.1	0.2	0.0	0.1	0.1	6.7	119.9

Table 8k. Fatty acid composition for 2003 canola trials- S2 early Clearfield- Horsham (Vic)

Sample	14:0	16:0	16:1	18:0	18:1	18:2	18:3	20:0	20:1	22:0	22:1	24:0	24:1	[1] Sat.	[2] Iodine Value
44C73	0.0	4.1	0.4	2.3	63.6	18.9	8.8	0.5	0.9	0.2	0.0	0.1	0.1	7.3	111.6
BLN2864CL	0.0	4.2	0.3	2.3	64.8	18.7	7.6	0.6	1.0	0.2	0.0	0.1	0.0	7.5	109.1
BLN2865CL	0.0	4.2	0.3	2.2	66.2	16.2	8.7	0.6	1.1	0.3	0.0	0.2	0.1	7.4	108.9
BLN2866CL	0.0	4.1	0.3	2.4	65.5	18.4	7.0	0.6	1.1	0.3	0.0	0.1	0.1	7.6	107.6
SURPASS402CL	0.0	4.4	0.3	2.2	62.6	21.1	7.5	0.4	1.0	0.2	0.0	0.1	0.1	7.4	111.1
SURPASS404CL	0.0	5.2	0.3	2.1	61.1	22.6	7.2	0.4	0.8	0.2	0.0	0.1	0.0	8.0	111.4

Table 8l. Fatty acid composition for 2003 canola trials- S2 early Clearfield- Minegew (WA)

Sample	14:0	16:0	16:1	18:0	18:1	18:2	18:3	20:0	20:1	22:0	22:1	24:0	24:1	[1] Sat.	[2] Iodine Value
44C73	0.1	3.9	0.3	2.3	63.5	18.2	10.0	0.5	0.9	0.2	0.0	0.1	0.1	7.0	113.3
BLN2864CL	0.2	4.0	0.3	2.2	63.5	18.5	9.1	0.6	1.1	0.3	0.0	0.1	0.1	7.4	111.7
BLN2865CL	0.0	4.0	0.3	2.1	64.3	16.8	10.2	0.6	1.1	0.3	0.0	0.1	0.1	7.1	112.1
BLN2866CL	0.1	3.8	0.2	2.2	65.0	18.4	8.0	0.6	1.2	0.3	0.0	0.1	0.1	7.1	109.8
SURPASS402CL	0.1	4.1	0.3	2.1	62.7	19.5	9.5	0.4	1.0	0.2	0.0	0.1	0.1	6.9	113.7
SURPASS404CL	0.1	4.5	0.2	1.7	57.7	24.2	9.8	0.4	1.0	0.2	0.0	0.1	0.1	7.0	118.1

[1] Sat- Sum of the saturated fatty acids including 14:0, 16:0, 18:0, 20:0, 22:0 and 24:0

[2] Iodine Value- Calculated from the fatty acid composition

Table 8m. Fatty acid composition for 2003 canola trials- S2 mid conventional- Wagga Wagga (NSW)

Sample	14:0	16:0	16:1	18:0	18:1	18:2	18:3	20:0	20:1	22:0	22:1	24:0	24:1	[1] Sat.	[2] Iodine Value
02N710C	0.1	4.6	0.3	2.6	59.9	22.4	7.8	0.6	1.1	0.3	0.0	0.2	0.2	8.3	111.8
02N714	0.1	4.6	0.3	2.8	61.4	21.2	7.0	0.7	1.1	0.3	0.0	0.2	0.1	8.7	109.2
AGC210	0.1	4.9	0.4	2.6	60.4	21.1	8.7	0.6	0.9	0.2	0.0	0.1	0.1	8.4	112.4
AGC211	0.1	4.6	0.3	2.5	58.5	22.2	9.6	0.6	1.0	0.3	0.0	0.1	0.2	8.2	114.9
AGC217	0.1	4.7	0.3	2.4	62.1	21.2	6.6	0.7	1.2	0.4	0.0	0.2	0.1	8.4	108.7
AGC331	0.1	5.6	0.4	2.3	65.4	18.3	6.3	0.5	0.8	0.2	0.0	0.1	0.0	8.7	105.3
AGC332	0.1	4.5	0.4	2.4	66.0	17.9	6.3	0.7	1.1	0.3	0.0	0.2	0.1	8.2	105.5
AGC333	0.1	5.3	0.4	2.2	65.0	18.7	6.6	0.5	0.9	0.2	0.0	0.1	0.1	8.4	106.5
AGC334	0.1	4.7	0.3	2.3	65.6	18.0	6.5	0.7	1.1	0.3	0.0	0.2	0.1	8.3	105.8
AGC335	0.1	4.9	0.4	2.3	65.5	18.1	6.7	0.6	1.0	0.3	0.0	0.1	0.1	8.2	106.3
AV-SAPPHIRE	0.1	5.9	0.4	2.7	61.6	20.0	7.7	0.4	0.8	0.1	0.1	0.1	0.1	9.3	108.9
BLN2690	0.1	4.8	0.4	2.3	63.4	19.4	7.5	0.6	1.0	0.3	0.0	0.1	0.1	8.2	108.8
BLN2851	0.1	4.9	0.3	2.6	63.1	19.8	7.7	0.4	0.8	0.1	0.0	0.0	0.0	8.1	109.8
BLN2852	0.1	4.6	0.3	2.6	62.5	20.0	7.6	0.6	1.2	0.2	0.2	0.1	0.1	8.1	109.7
BLN2853	0.1	4.7	0.3	2.3	61.5	19.7	8.8	0.7	1.2	0.4	0.0	0.2	0.1	8.4	111.2
BLN2854	0.1	5.2	0.4	2.5	64.4	19.0	6.5	0.6	1.0	0.2	0.0	0.1	0.1	8.7	106.3
BLN2855	0.1	4.9	0.3	2.7	62.4	19.7	7.7	0.6	1.0	0.3	0.0	0.1	0.1	8.7	109.1
BLN2856	0.1	4.6	0.4	2.7	64.6	18.6	6.6	0.7	1.1	0.3	0.0	0.2	0.1	8.5	106.4
BLN2857	0.1	4.7	0.3	2.5	61.7	19.4	8.3	0.6	1.4	0.2	0.4	0.1	0.1	8.3	110.0
H1488	0.1	4.6	0.4	2.9	63.5	18.4	7.1	0.7	1.4	0.3	0.2	0.2	0.1	8.8	106.8
H1663	0.1	4.8	0.3	2.5	62.2	19.7	8.1	0.7	1.1	0.3	0.0	0.2	0.1	8.4	110.0
HYOLA60	0.1	5.0	0.4	2.3	61.6	21.2	6.9	0.6	1.2	0.3	0.1	0.2	0.1	8.5	109.2
LANTERN	0.1	4.7	0.3	2.4	61.6	20.0	8.4	0.7	1.2	0.3	0.0	0.2	0.1	8.3	110.9
RAINBOW	0.1	4.8	0.4	2.9	60.8	20.2	8.6	0.6	1.0	0.2	0.1	0.2	0.1	8.8	111.0
RGAS03026	0.1	4.9	0.3	2.2	62.5	20.7	6.9	0.6	1.1	0.3	0.0	0.2	0.1	8.3	108.9
RGAS03027	0.1	6.0	0.5	2.4	59.5	22.3	7.4	0.5	0.8	0.2	0.0	0.1	0.1	9.4	110.4
RGAS03028	0.1	5.2	0.4	2.3	62.0	20.7	7.2	0.6	1.0	0.2	0.0	0.1	0.1	8.6	109.2
RR009	0.1	4.9	0.3	2.4	60.7	21.3	8.5	0.5	0.9	0.2	0.0	0.1	0.1	8.2	112.3
RR010	0.1	4.7	0.3	2.6	63.1	20.2	7.4	0.5	0.9	0.1	0.0	0.1	0.1	8.1	109.5
RR011	0.1	4.7	0.3	2.6	60.8	21.4	8.2	0.5	1.0	0.2	0.0	0.1	0.1	8.1	111.9
RR012	0.1	4.5	0.3	2.6	61.9	20.9	7.9	0.5	1.0	0.2	0.0	0.1	0.1	7.9	111.2
RR013	0.1	5.2	0.3	2.5	61.4	20.6	8.4	0.4	0.8	0.1	0.0	0.1	0.1	8.4	111.3
RR014	0.1	5.5	0.4	2.8	62.2	19.5	7.5	0.5	1.0	0.2	0.2	0.1	0.1	9.0	108.3
RR015	0.1	5.0	0.3	2.7	61.5	20.1	7.9	0.6	1.0	0.3	0.1	0.2	0.2	8.9	109.5
RR016	0.1	5.6	0.5	2.1	41.5	20.1	9.6	0.7	10.9	0.2	8.4	0.1	0.2	8.9	110.6

[1] Sat- Sum of the saturated fatty acids including 14:0, 16:0, 18:0, 20:0, 22:0 and 24:0

[2] Iodine Value- Calculated from the fatty acid composition

Table 8n. Fatty acid composition for 2003 canola trials- S2 mid conventional- Struan (SA)

Sample	14:0	16:0	16:1	18:0	18:1	18:2	18:3	20:0	20:1	22:0	22:1	24:0	24:1	[1] Sat.	[2] Iodine Value
02N710C	0.1	4.6	0.3	2.1	60.5	21.7	9.2	0.4	0.8	0.1	0.0	0.0	0.1	7.4	114.7
02N714	0.1	4.7	0.3	2.3	61.3	20.8	8.6	0.5	1.0	0.2	0.0	0.1	0.1	7.9	112.3
AGC210	0.1	4.6	0.3	2.3	60.5	20.4	10.4	0.4	0.8	0.1	0.0	0.1	0.0	7.5	115.4
AGC211	0.0	4.1	0.3	2.0	60.8	20.6	9.8	0.6	1.1	0.3	0.0	0.2	0.2	7.2	114.7
AGC217	0.1	4.9	0.3	2.0	61.3	20.7	8.9	0.5	0.9	0.2	0.0	0.1	0.1	7.7	112.9
AGC331	0.0	4.2	0.3	2.1	65.1	17.6	8.7	0.6	1.1	0.2	0.0	0.1	0.1	7.2	110.4
AGC332	0.0	3.9	0.3	2.0	64.9	17.5	9.2	0.6	1.1	0.3	0.0	0.1	0.1	6.9	111.2
AGC333	0.0	4.0	0.3	1.9	64.0	17.9	9.6	0.6	1.1	0.3	0.0	0.1	0.1	6.9	112.3
AGC334	0.1	4.5	0.3	2.0	61.7	20.6	8.8	0.5	1.0	0.2	0.0	0.1	0.1	7.4	112.9
AGC335	0.1	4.7	0.3	1.8	63.3	18.2	9.8	0.5	0.9	0.2	0.0	0.1	0.1	7.4	112.6
AV-SAPPHIRE	0.0	4.4	0.3	2.2	61.5	19.5	10.2	0.4	1.0	0.2	0.1	0.1	0.1	7.3	114.4
BLN2690	0.0	4.0	0.3	1.9	63.5	18.7	9.5	0.5	1.1	0.3	0.0	0.1	0.1	6.8	113.0
BLN2851	0.1	4.2	0.3	2.3	62.6	19.2	9.7	0.4	0.9	0.1	0.0	0.1	0.1	7.2	113.5
BLN2852	0.0	4.3	0.3	2.4	63.9	18.5	8.9	0.4	0.9	0.1	0.1	0.1	0.1	7.4	111.3
BLN2853	0.1	4.7	0.3	2.1	62.6	18.7	9.9	0.5	0.9	0.2	0.0	0.1	0.1	7.6	113.0
BLN2854	0.1	4.6	0.3	2.2	63.3	18.8	9.1	0.5	0.9	0.2	0.0	0.1	0.1	7.6	111.8
BLN2855	0.1	4.4	0.3	2.4	63.4	18.7	8.9	0.5	1.0	0.2	0.0	0.1	0.1	7.6	111.2
BLN2856	0.1	4.1	0.3	2.2	63.8	18.9	8.6	0.6	1.0	0.2	0.0	0.1	0.1	7.2	111.3
BLN2857	0.1	4.2	0.3	2.2	63.3	18.4	9.8	0.4	0.9	0.2	0.1	0.1	0.1	7.2	113.0
H1488	0.0	4.2	0.3	2.6	63.6	18.1	8.9	0.7	1.1	0.3	0.1	0.1	0.1	7.9	110.4
H1663	0.1	4.8	0.3	2.0	62.3	20.0	8.7	0.5	1.0	0.2	0.0	0.1	0.1	7.6	112.0
HYOLA60	0.1	4.4	0.3	2.1	63.5	19.3	8.5	0.5	1.0	0.2	0.0	0.1	0.1	7.4	111.3
LANTERN	0.0	4.0	0.3	2.1	63.2	18.1	9.7	0.6	1.3	0.2	0.2	0.1	0.1	7.1	112.6
RAINBOW	0.1	4.3	0.3	2.5	60.7	19.4	10.4	0.5	1.1	0.2	0.3	0.1	0.1	7.6	114.5
RGAS03026	0.0	4.3	0.3	1.9	61.6	20.2	9.6	0.5	1.1	0.2	0.0	0.1	0.1	7.1	114.3
RGAS03027	0.1	5.5	0.4	1.9	58.6	22.1	9.8	0.4	0.9	0.1	0.0	0.0	0.1	8.1	115.5
RGAS03028	0.0	4.5	0.3	1.9	60.9	20.1	10.2	0.5	1.1	0.2	0.0	0.1	0.1	7.3	115.0
RR009	0.0	4.5	0.3	2.2	61.4	20.0	9.8	0.4	0.9	0.2	0.1	0.1	0.1	7.4	114.1
RR010	0.0	4.4	0.3	2.2	62.0	20.0	9.5	0.4	0.8	0.2	0.0	0.1	0.1	7.3	113.7
RR011	0.0	4.2	0.3	2.3	61.0	20.6	9.8	0.4	0.9	0.2	0.0	0.1	0.1	7.2	114.9
RR012	0.0	4.1	0.3	2.2	61.6	20.2	9.8	0.5	0.9	0.2	0.0	0.1	0.1	7.1	114.5
RR013	0.0	4.7	0.3	2.2	60.9	19.8	10.3	0.4	0.9	0.1	0.1	0.1	0.1	7.6	114.7
RR014	0.0	4.5	0.3	2.1	62.0	19.2	10.0	0.4	0.9	0.1	0.1	0.1	0.1	7.3	114.0
RR015	0.0	4.2	0.3	2.2	62.1	19.3	10.0	0.4	0.9	0.2	0.2	0.1	0.1	7.1	114.1
RR016	0.0	3.7	0.3	1.6	36.4	16.0	10.6	0.7	14.5	0.3	15.6	0.1	0.4	6.4	109.6

[1] Sat- Sum of the saturated fatty acids including 14:0, 16:0, 18:0, 20:0, 22:0 and 24:0

[2] Iodine Value- Calculated from the fatty acid composition

Table 8o. Fatty acid composition for 2003 canola trials- S2 mid conventional- Horsham (Vic)

Sample	14:0	16:0	16:1	18:0	18:1	18:2	18:3	20:0	20:1	22:0	22:1	24:0	24:1	[1] Sat.	[2] Iodine Value
02N710C	0.1	4.2	0.3	2.5	64.2	19.1	7.7	0.5	1.0	0.2	0.0	0.1	0.1	7.6	109.5
02N714	0.0	4.0	0.3	2.8	65.2	17.9	7.1	0.7	1.2	0.3	0.1	0.2	0.1	8.0	107.1
AGC210	0.1	4.3	0.3	2.5	63.7	18.9	8.5	0.5	0.9	0.2	0.0	0.1	0.1	7.6	110.7
AGC211	0.1	4.4	0.3	2.3	65.7	17.5	7.6	0.6	1.0	0.3	0.0	0.2	0.1	7.8	107.7
AGC217	0.1	4.5	0.3	2.3	63.5	19.2	7.5	0.6	1.3	0.3	0.2	0.2	0.1	7.9	108.9
AGC331	0.0	3.9	0.3	2.3	68.5	15.4	7.1	0.7	1.1	0.3	0.0	0.2	0.1	7.5	105.3
AGC332	0.0	4.0	0.3	2.4	68.6	15.3	7.1	0.6	1.0	0.3	0.0	0.2	0.1	7.5	105.3
AGC333	0.1	4.2	0.3	2.1	66.0	16.7	8.4	0.6	1.1	0.3	0.0	0.1	0.1	7.4	108.7
AGC334	0.1	4.0	0.3	2.1	67.2	16.0	8.0	0.6	1.1	0.3	0.0	0.2	0.1	7.3	107.5
AGC335	0.1	4.1	0.3	2.1	66.0	16.7	8.4	0.6	1.2	0.3	0.0	0.2	0.1	7.3	108.8
AV-SAPPHIRE	0.1	4.4	0.3	2.5	63.9	18.0	8.8	0.5	1.0	0.2	0.1	0.1	0.1	7.8	110.3
BLN2690	0.1	4.0	0.3	2.2	66.6	17.0	7.7	0.6	1.0	0.3	0.0	0.1	0.1	7.3	107.9
BLN2851	0.1	3.9	0.3	2.6	65.7	17.5	8.0	0.5	1.0	0.2	0.1	0.1	0.1	7.4	108.8
BLN2852	0.1	4.4	0.3	2.6	66.3	17.0	7.7	0.5	0.9	0.2	0.0	0.1	0.1	7.8	107.5
BLN2853	0.1	4.6	0.4	2.2	64.7	17.7	8.1	0.6	1.0	0.3	0.0	0.2	0.1	7.9	108.7
BLN2854	0.1	4.1	0.3	2.4	66.2	17.5	7.2	0.6	1.1	0.3	0.0	0.1	0.1	7.6	107.2
BLN2855	0.0	4.2	0.3	2.6	66.1	17.3	7.3	0.6	1.1	0.3	0.0	0.1	0.1	7.8	107.1
BLN2856	0.1	4.1	0.3	2.5	66.7	17.2	6.9	0.6	1.0	0.3	0.0	0.1	0.1	7.7	106.4
BLN2857	0.1	4.1	0.3	2.7	63.6	18.0	9.0	0.6	1.1	0.2	0.1	0.2	0.1	7.8	110.6
CBI4407	0.1	4.7	0.4	2.2	63.4	18.8	8.3	0.6	1.1	0.3	0.0	0.1	0.1	7.9	110.0
CHARLTON	0.1	4.6	0.3	2.1	64.0	17.4	9.2	0.6	1.1	0.3	0.1	0.1	0.1	7.8	110.4
H1488	0.1	4.5	0.4	2.6	65.5	17.2	7.5	0.6	1.0	0.3	0.0	0.2	0.1	8.3	107.0
H1663	0.1	4.4	0.3	2.2	65.5	17.8	7.4	0.6	1.1	0.3	0.1	0.2	0.1	7.6	107.8
HYOLA60	0.1	4.3	0.3	2.2	64.3	18.7	7.9	0.6	1.2	0.3	0.0	0.2	0.1	7.6	109.4
NS4876	0.1	4.0	0.3	2.7	64.7	16.9	8.7	0.7	1.2	0.4	0.0	0.2	0.1	8.0	108.9
NS4912	0.1	4.8	0.3	2.3	63.2	18.7	8.5	0.6	1.0	0.3	0.0	0.2	0.1	8.2	109.9
RAINBOW	0.1	4.6	0.4	2.7	63.7	17.7	8.8	0.5	1.0	0.2	0.2	0.1	0.1	8.1	109.9
RGAS03026	0.1	4.7	0.3	2.1	63.0	19.1	8.6	0.5	1.0	0.2	0.0	0.1	0.1	7.7	111.0
RGAS03027	0.1	5.0	0.4	2.3	63.4	18.9	8.2	0.5	0.9	0.2	0.0	0.1	0.1	8.1	109.8
RGAS03028	0.1	4.3	0.3	2.2	63.5	18.4	8.9	0.6	1.1	0.3	0.0	0.2	0.1	7.6	111.0
RIVETTE	0.1	4.2	0.3	2.2	65.8	17.3	7.7	0.6	1.2	0.3	0.1	0.2	0.1	7.6	107.7
RR009	0.1	4.5	0.3	2.4	64.4	18.5	8.0	0.5	1.0	0.2	0.0	0.2	0.1	7.7	109.3
RR010	0.1	4.4	0.3	2.5	65.9	17.3	8.0	0.4	0.8	0.1	0.0	0.1	0.1	7.6	108.3
RR011	0.1	4.6	0.3	2.4	64.2	18.6	8.1	0.4	0.9	0.2	0.0	0.1	0.1	7.8	109.6
RR012	0.1	3.9	0.3	2.5	65.4	17.7	8.3	0.5	0.9	0.2	0.0	0.1	0.1	7.3	109.6
RR013	0.1	4.3	0.3	2.5	64.8	17.8	8.5	0.4	0.9	0.2	0.0	0.1	0.1	7.6	109.9
RR014	0.1	4.5	0.3	2.4	64.9	17.3	8.1	0.5	1.3	0.2	0.4	0.1	0.1	7.7	108.5
RR015	0.1	4.3	0.3	2.5	64.5	17.9	8.5	0.5	0.9	0.2	0.1	0.1	0.1	7.7	109.9
RR016	0.1	3.6	0.3	1.7	37.1	14.3	8.8	0.8	14.6	0.4	17.7	0.2	0.5	6.7	104.3

[1] Sat- Sum of the saturated fatty acids including 14:0, 16:0, 18:0, 20:0, 22:0 and 24:0

[2] Iodine Value- Calculated from the fatty acid composition

Table 8p. Fatty acid composition for 2003 canola trials- S2 mid conventional- Katanning (WA)

Sample	14:0	16:0	16:1	18:0	18:1	18:2	18:3	20:0	20:1	22:0	22:1	24:0	24:1	[1] Sat.	[2] Iodine Value
02N710C	0.1	4.7	0.3	2.1	59.9	21.9	9.3	0.5	0.8	0.2	0.0	0.1	0.1	7.7	114.7
02N714	0.1	4.2	0.3	2.4	61.7	20.2	8.5	0.7	1.2	0.3	0.2	0.2	0.2	7.8	111.5
AGC210	0.1	4.0	0.3	2.3	60.7	19.9	10.7	0.5	0.9	0.2	0.0	0.1	0.2	7.3	115.6
AGC211	0.1	4.2	0.3	2.1	63.0	19.4	8.8	0.6	1.0	0.3	0.0	0.1	0.2	7.5	111.7
AGC217	0.1	4.3	0.3	2.0	61.2	20.8	8.8	0.6	1.1	0.3	0.0	0.2	0.2	7.6	113.0
AGC331	0.0	4.1	0.3	2.0	65.3	17.4	8.5	0.6	1.2	0.3	0.1	0.1	0.1	7.1	109.8
AGC332	0.0	4.0	0.3	2.0	65.1	17.8	8.3	0.6	1.2	0.4	0.0	0.1	0.1	7.2	109.8
AGC333	0.1	4.2	0.3	1.9	63.8	18.0	9.5	0.6	1.1	0.3	0.0	0.1	0.1	7.2	112.1
AGC334	0.1	4.7	0.3	1.9	63.4	18.5	9.3	0.5	0.9	0.2	0.0	0.1	0.1	7.4	112.0
AGC335	0.1	4.1	0.3	1.9	64.0	17.9	9.4	0.6	1.1	0.3	0.0	0.1	0.1	7.1	111.8
AV-SAPPHIRE	0.1	4.4	0.3	2.0	63.8	18.1	9.2	0.6	1.0	0.3	0.0	0.1	0.1	7.4	111.5
BLN2690	0.1	4.1	0.3	1.9	64.2	18.1	9.2	0.5	1.0	0.3	0.0	0.1	0.1	7.0	111.9
BLN2851	0.1	4.1	0.3	2.2	62.8	19.2	9.6	0.4	0.9	0.2	0.1	0.1	0.1	7.0	113.5
BLN2852	0.1	4.2	0.3	2.4	63.4	18.5	9.1	0.5	1.1	0.2	0.1	0.1	0.1	7.4	111.5
BLN2853	0.1	4.1	0.3	2.2	62.0	18.5	10.3	0.7	1.1	0.4	0.1	0.1	0.2	7.6	113.5
BLN2854	0.1	4.1	0.3	2.2	63.4	18.7	9.0	0.6	1.1	0.3	0.0	0.1	0.1	7.4	111.5
BLN2855	0.1	4.4	0.3	2.5	62.7	19.0	9.1	0.6	1.0	0.2	0.0	0.1	0.1	7.8	111.7
BLN2856	0.1	4.3	0.3	2.2	63.4	19.3	8.3	0.6	1.0	0.3	0.0	0.1	0.1	7.5	110.8
BLN2857	0.1	4.1	0.3	2.3	62.3	17.9	10.3	0.5	1.3	0.2	0.3	0.1	0.1	7.4	113.1
H1488	0.1	4.7	0.4	2.5	63.7	18.2	8.5	0.6	0.9	0.2	0.0	0.1	0.1	8.1	109.7
H1663	0.1	5.0	0.3	2.4	59.8	20.0	10.9	0.4	0.7	0.1	0.0	0.1	0.1	8.1	115.5
HYOLA60	0.1	4.3	0.3	2.0	61.9	19.9	9.0	0.5	1.2	0.3	0.1	0.2	0.2	7.3	112.7
LANTERN	0.1	4.1	0.3	2.1	62.8	18.0	10.1	0.6	1.2	0.3	0.1	0.1	0.2	7.3	112.9
RAINBOW	0.1	4.1	0.3	2.5	61.3	18.7	10.6	0.6	1.1	0.3	0.2	0.2	0.2	7.7	114.2
RR009	0.1	4.5	0.3	2.2	61.0	20.2	10.0	0.5	0.9	0.2	0.0	0.1	0.1	7.5	114.5
RR010	0.1	4.7	0.3	2.2	61.4	19.9	10.0	0.4	0.7	0.1	0.0	0.1	0.1	7.6	114.4
RR011	0.1	4.4	0.3	2.3	61.2	20.1	10.0	0.4	0.8	0.2	0.0	0.1	0.1	7.4	114.6
RR012	0.1	4.3	0.3	2.2	61.5	20.1	9.6	0.5	0.9	0.2	0.0	0.1	0.2	7.3	113.9
RR013	0.1	4.2	0.3	2.2	61.0	19.7	10.8	0.5	0.9	0.2	0.0	0.1	0.1	7.3	115.6
RR014	0.1	4.2	0.3	2.2	63.0	18.3	9.6	0.4	1.1	0.2	0.3	0.1	0.1	7.2	112.4
RR015	0.1	4.8	0.3	2.2	62.3	19.3	9.6	0.4	0.7	0.1	0.0	0.1	0.1	7.7	112.9
RR016	0.0	3.5	0.3	1.5	33.1	15.0	10.0	0.7	15.4	0.3	19.6	0.2	0.5	6.2	107.1

[1] Sat- Sum of the saturated fatty acids including 14:0, 16:0, 18:0, 20:0, 22:0 and 24:0

[2] Iodine Value- Calculated from the fatty acid composition

Table 8q. Fatty acid composition for 2003 canola trials- S2 mid Triazine tolerant- Wagga Wagga (NSW)

Sample	14:0	16:0	16:1	18:0	18:1	18:2	18:3	20:0	20:1	22:0	22:1	24:0	24:1	[1] Sat.	[2] Iodine Value
AGT205	0.1	5.5	0.4	2.3	59.9	21.5	8.2	0.6	1.0	0.3	0.0	0.1	0.1	8.9	111.4
AGT208	0.1	4.3	0.4	2.9	70.1	12.9	6.7	0.8	1.2	0.3	0.0	0.2	0.1	8.5	101.6
AGT344	0.1	5.0	0.3	2.3	62.4	21.2	6.4	0.6	1.0	0.3	0.0	0.1	0.1	8.5	108.4
AGT345	0.1	5.4	0.4	2.3	61.7	21.4	6.7	0.6	1.0	0.3	0.0	0.1	0.1	8.8	108.7
ATR-GRACE	0.1	4.9	0.4	2.7	63.6	18.9	7.3	0.6	1.0	0.2	0.1	0.1	0.1	8.7	107.7
ATR-HYDEN	0.1	5.0	0.4	2.8	64.0	18.2	7.6	0.6	1.0	0.2	0.0	0.1	0.1	8.7	107.5
BLN2861TT	0.1	5.1	0.4	2.5	60.5	20.4	8.5	0.7	1.1	0.3	0.0	0.2	0.1	9.0	110.8
BLN2862TT	0.1	5.1	0.4	2.5	60.2	21.4	8.1	0.7	1.0	0.3	0.0	0.2	0.1	8.7	111.2
RGAS03T16	0.1	4.8	0.4	2.8	64.0	18.6	6.9	0.7	1.1	0.3	0.0	0.2	0.1	8.9	106.4
RGAS03T20	0.1	5.2	0.4	2.6	63.9	18.7	6.9	0.7	1.1	0.3	0.0	0.1	0.1	9.0	106.6
RGAS03T21	0.1	5.8	0.4	2.6	59.9	21.6	7.5	0.6	0.9	0.3	0.0	0.2	0.1	9.6	109.7
SURPASS501TT	0.1	5.0	0.3	2.2	61.7	21.8	7.3	0.4	0.9	0.2	0.0	0.1	0.1	8.0	110.9
T2031	0.1	5.7	0.3	2.1	57.6	22.9	9.0	0.6	1.1	0.3	0.0	0.2	0.1	8.9	113.9
T2032	0.1	6.0	0.4	2.4	59.9	22.3	6.8	0.7	1.0	0.3	0.0	0.2	0.1	9.6	108.9
T2046	0.1	5.1	0.3	2.1	61.1	21.4	8.2	0.5	0.8	0.2	0.0	0.1	0.1	8.1	112.0
TR004	0.1	5.2	0.4	2.7	61.1	21.4	7.2	0.6	0.8	0.2	0.0	0.1	0.1	9.0	109.5
TR005	0.1	4.9	0.3	2.6	62.9	19.8	7.6	0.5	0.8	0.2	0.0	0.1	0.1	8.4	109.4
TR006	0.1	5.0	0.3	2.7	63.5	18.8	8.0	0.4	0.8	0.1	0.0	0.1	0.1	8.5	109.1
TR007	0.1	5.1	0.3	2.6	61.8	20.8	7.6	0.5	0.8	0.2	0.0	0.1	0.1	8.5	110.1
TRISTATE	0.1	5.4	0.4	2.1	58.9	24.1	7.5	0.4	0.8	0.2	0.0	0.1	0.1	8.3	112.9

Table 8r. Fatty acid composition for 2003 canola trials- S2 mid Triazine tolerant- Struan (SA)

Sample	14:0	16:0	16:1	18:0	18:1	18:2	18:3	20:0	20:1	22:0	22:1	24:0	24:1	[1] Sat.	[2] Iodine Value
AGT205	0.1	4.6	0.3	1.9	60.4	20.6	10.0	0.5	1.1	0.3	0.0	0.1	0.1	7.5	115.0
AGT208	0.1	4.2	0.3	2.0	62.0	20.7	8.7	0.5	1.0	0.2	0.0	0.1	0.2	7.2	112.9
AGT344	0.0	4.3	0.3	1.8	61.0	21.7	8.5	0.6	1.2	0.3	0.0	0.1	0.1	7.2	113.5
AGT345	0.1	4.6	0.3	1.9	59.4	22.7	8.8	0.6	1.1	0.3	0.0	0.1	0.1	7.6	114.5
ATR-BEACON	0.1	4.6	0.3	2.0	59.8	20.1	10.8	0.5	1.1	0.2	0.2	0.1	0.1	7.5	115.9
ATR-GRACE	0.1	4.4	0.3	1.9	60.6	20.1	10.2	0.5	1.2	0.3	0.2	0.1	0.1	7.3	114.9
ATR-HYDEN	0.1	4.3	0.3	2.1	62.2	18.6	9.8	0.6	1.2	0.3	0.1	0.2	0.2	7.5	112.8
BLN2832TT	0.1	4.5	0.3	1.9	60.0	21.5	9.5	0.6	1.1	0.3	0.0	0.1	0.1	7.5	114.8
BLN2861TT	0.1	4.4	0.3	2.0	59.4	21.2	10.3	0.6	1.1	0.3	0.0	0.1	0.1	7.5	116.0
BLN2862TT	0.1	4.5	0.3	1.9	59.2	21.5	10.2	0.6	1.1	0.3	0.0	0.1	0.2	7.5	116.1
RGAS03T16	0.0	4.1	0.3	1.8	60.1	21.4	9.5	0.6	1.3	0.4	0.0	0.2	0.2	7.1	115.0
RGAS03T17	0.1	4.4	0.3	1.7	57.6	22.8	11.2	0.4	1.0	0.2	0.0	0.1	0.1	6.9	119.5
RGAS03T18	0.1	4.1	0.3	1.8	57.7	23.4	10.2	0.6	1.2	0.3	0.0	0.2	0.2	7.1	117.9
RGAS03T20	0.1	4.6	0.4	1.9	61.6	20.0	9.4	0.5	1.1	0.3	0.0	0.1	0.1	7.5	113.3
RGAS03T21	0.1	4.5	0.3	1.9	58.4	22.0	10.6	0.5	1.1	0.3	0.0	0.2	0.2	7.5	117.1
SURPASS501TT	0.1	4.2	0.3	2.1	62.9	20.6	8.0	0.5	1.0	0.2	0.0	0.1	0.1	7.1	111.7
T2031	0.0	4.5	0.3	1.9	60.9	21.2	9.5	0.4	0.9	0.2	0.0	0.1	0.1	7.1	114.9
T2032	0.1	4.7	0.3	1.8	58.4	22.6	9.8	0.6	1.1	0.3	0.0	0.2	0.1	7.6	116.2
T2034	0.0	4.5	0.3	2.2	61.3	22.3	7.3	0.5	1.0	0.2	0.0	0.1	0.1	7.6	111.5
T2035	0.0	4.3	0.3	2.3	62.5	18.9	9.6	0.5	1.1	0.2	0.0	0.1	0.1	7.5	112.7
T2046	0.1	4.5	0.3	2.0	62.1	19.8	9.6	0.4	0.9	0.2	0.0	0.1	0.1	7.2	113.9
TR004	0.1	3.9	0.2	2.1	61.1	21.0	9.4	0.5	1.1	0.3	0.0	0.2	0.1	7.0	114.7
TR005	0.1	4.4	0.3	2.1	62.5	19.6	9.2	0.4	0.9	0.2	0.0	0.1	0.1	7.3	112.9
TR006	0.0	4.2	0.3	2.3	63.9	18.7	9.0	0.4	0.8	0.2	0.0	0.1	0.1	7.2	111.8
TR007	0.0	4.2	0.3	2.1	61.5	20.4	9.8	0.4	0.9	0.2	0.0	0.1	0.1	7.0	114.9
TR008	0.0	4.2	0.3	2.0	61.3	21.2	9.2	0.4	0.9	0.2	0.0	0.1	0.1	7.0	114.5
TRIBUNE	0.1	4.2	0.3	1.8	62.0	22.2	7.2	0.5	1.2	0.3	0.0	0.2	0.1	7.0	111.8
TRISTATE	0.1	4.4	0.4	1.8	59.1	23.1	9.5	0.4	0.9	0.2	0.0	0.1	0.1	7.0	116.7

[1] Sat- Sum of the saturated fatty acids including 14:0, 16:0, 18:0, 20:0, 22:0 and 24:0

[2] Iodine Value- Calculated from the fatty acid composition

Table 8s. Fatty acid composition for 2003 canola trials- S2 mid Triazine tolerant- Horsham (Vic)

Sample	14:0	16:0	16:1	18:0	18:1	18:2	18:3	20:0	20:1	22:0	22:1	24:0	24:1	[1] Sat.	[2] Iodine Value
AGT205	0.1	5.0	0.3	2.1	61.2	20.2	8.9	0.6	1.0	0.3	0.0	0.1	0.1	8.2	112.0
AGT344	0.1	4.6	0.3	2.1	62.0	20.5	8.0	0.6	1.1	0.3	0.0	0.2	0.1	7.8	111.1
AGT345	0.1	5.0	0.3	2.1	60.7	21.5	8.2	0.6	1.0	0.3	0.0	0.1	0.1	8.1	112.0
ATR-BEACON	0.1	4.4	0.4	2.4	62.0	18.6	9.7	0.6	1.2	0.2	0.3	0.2	0.1	7.9	112.2
ATR-GRACE	0.1	4.4	0.3	2.3	62.0	18.6	9.5	0.7	1.3	0.3	0.3	0.2	0.2	7.9	111.9
ATR-HYDEN	0.1	4.5	0.4	2.5	62.8	17.8	9.2	0.7	1.2	0.4	0.0	0.3	0.2	8.4	110.3
BLN2832TT	0.1	4.6	0.4	2.3	61.2	20.3	8.9	0.6	1.1	0.3	0.0	0.2	0.1	8.0	112.2
BLN2861TT	0.1	4.9	0.4	2.3	61.2	19.6	9.4	0.6	1.0	0.3	0.0	0.1	0.1	8.2	112.3
BLN2862TT	0.1	4.7	0.4	2.3	60.4	20.2	9.6	0.6	1.1	0.3	0.1	0.2	0.1	8.2	113.2
RGAS03T16	0.1	4.5	0.4	2.3	61.2	19.6	9.4	0.7	1.1	0.3	0.0	0.2	0.1	8.1	112.5
RGAS03T17	0.1	5.0	0.4	2.1	59.1	21.3	10.3	0.5	0.9	0.2	0.0	0.1	0.1	8.0	115.6
RGAS03T20	0.1	4.8	0.4	2.3	63.3	18.0	8.8	0.7	1.1	0.3	0.0	0.2	0.1	8.2	109.9
SURPASS501TT	0.1	4.7	0.3	2.2	61.9	21.6	7.4	0.5	0.9	0.2	0.0	0.1	0.1	7.7	111.0
T2032	0.1	5.2	0.4	2.1	58.1	22.4	9.3	0.6	1.1	0.3	0.0	0.2	0.1	8.6	114.3
T2034	0.1	5.1	0.4	2.3	61.3	22.8	6.2	0.5	0.9	0.2	0.0	0.1	0.1	8.3	109.4
TR004	0.1	4.5	0.3	2.5	61.1	20.5	8.9	0.6	0.9	0.2	0.1	0.1	0.1	8.0	112.5
TR005	0.1	4.6	0.3	2.4	63.1	19.1	8.6	0.5	0.9	0.2	0.0	0.1	0.1	7.8	110.9
TR006	0.1	4.4	0.3	2.5	64.2	18.5	8.2	0.5	0.9	0.2	0.0	0.1	0.1	7.8	109.8
TR007	0.1	4.7	0.3	2.4	62.8	19.3	8.9	0.4	0.9	0.2	0.0	0.1	0.1	7.9	111.5
TR008	0.1	4.5	0.3	2.3	62.1	20.6	8.5	0.5	0.9	0.2	0.0	0.1	0.1	7.6	112.2

Table 8t. Fatty acid composition for 2003 canola trials- S2 mid Triazine tolerant- Katanning (WA)

Sample	14:0	16:0	16:1	18:0	18:1	18:2	18:3	20:0	20:1	22:0	22:1	24:0	24:1	[1] Sat.	[2] Iodine Value
AGT205	0.1	4.7	0.3	1.8	58.6	21.5	10.7	0.5	1.1	0.3	0.0	0.1	0.1	7.6	116.8
AGT344	0.2	4.7	0.3	1.9	60.0	21.6	9.2	0.5	1.1	0.3	0.0	0.1	0.1	7.6	114.4
AGT345	0.1	4.6	0.3	1.9	59.8	21.6	9.6	0.6	1.0	0.3	0.0	0.1	0.1	7.6	115.0
ATR-BEACON	0.1	4.4	0.3	2.1	61.1	19.0	11.0	0.5	1.0	0.2	0.1	0.1	0.1	7.4	115.4
ATR-GRACE	0.1	4.3	0.3	2.1	61.0	19.0	10.5	0.6	1.2	0.3	0.1	0.2	0.2	7.6	114.1
ATR-HYDEN	0.1	4.4	0.4	2.1	62.0	18.1	10.4	0.6	1.2	0.3	0.2	0.2	0.2	7.7	113.2
BLN2832TT	0.1	4.4	0.3	1.9	59.1	21.4	10.3	0.6	1.1	0.3	0.0	0.1	0.2	7.5	116.2
BLN2861TT	0.1	4.5	0.3	2.0	59.4	20.6	10.8	0.6	1.1	0.3	0.0	0.1	0.2	7.6	116.2
BLN2862TT	0.1	4.3	0.3	2.0	59.9	20.2	10.7	0.6	1.2	0.3	0.0	0.2	0.2	7.5	115.8
SURPASS501TT	0.1	4.7	0.3	2.1	61.2	21.2	8.9	0.4	0.8	0.2	0.0	0.1	0.1	7.4	113.6
T2032	0.2	4.4	0.4	2.0	60.1	19.7	10.6	0.5	1.2	0.3	0.3	0.1	0.2	7.5	115.2
T2034	0.1	4.4	0.3	2.0	60.3	19.7	10.5	0.5	1.3	0.3	0.4	0.2	0.2	7.4	114.9
T2035	0.1	4.6	0.3	2.2	62.5	18.9	9.6	0.5	0.9	0.2	0.0	0.1	0.1	7.6	112.6
T2046	0.1	4.6	0.2	1.9	59.9	21.0	10.6	0.4	0.9	0.2	0.0	0.1	0.1	7.2	116.7
TR004	0.1	4.2	0.3	2.1	60.0	20.9	10.4	0.5	0.9	0.2	0.0	0.1	0.1	7.3	116.1
TR005	0.1	4.3	0.3	2.1	61.1	19.9	10.4	0.5	0.9	0.2	0.0	0.1	0.1	7.3	115.1
TR006	0.1	4.3	0.3	2.2	61.3	19.6	10.4	0.5	0.9	0.2	0.0	0.1	0.2	7.4	114.7
TR007	0.1	4.4	0.3	2.1	60.5	20.2	10.6	0.5	0.9	0.2	0.0	0.1	0.2	7.3	115.8
TR008	0.1	4.4	0.3	2.0	60.1	21.3	10.0	0.4	0.9	0.2	0.0	0.1	0.1	7.3	115.7
TRIBUNE	0.1	4.2	0.3	1.6	59.2	24.0	8.1	0.5	1.2	0.3	0.0	0.2	0.2	7.0	115.0
TRISTATE	0.1	4.3	0.3	1.7	58.2	23.3	10.5	0.4	0.8	0.2	0.0	0.1	0.1	6.7	118.9

[1] Sat- Sum of the saturated fatty acids including 14:0, 16:0, 18:0, 20:0, 22:0 and 24:0

[2] Iodine Value- Calculated from the fatty acid composition

Table 8u. Fatty acid composition for 2003 canola trials- S2 mid Clearfield- Wagga Wagga (NSW)

Sample	14:0	16:0	16:1	18:0	18:1	18:2	18:3	20:0	20:1	22:0	22:1	24:0	24:1	[1] Sat.	[2] Iodine Value
45C75	0.1	4.4	0.3	2.5	61.9	19.7	8.7	0.7	1.2	0.3	0.0	0.2	0.1	8.1	111.2
46C74	0.1	5.1	0.4	2.4	60.8	21.0	7.7	0.7	1.1	0.4	0.0	0.2	0.1	8.9	110.0
BLN2825CL	0.1	4.3	0.3	2.5	66.0	17.8	6.6	0.7	1.2	0.3	0.0	0.1	0.1	8.0	106.1
BLN2867CL	0.1	4.4	0.3	2.4	62.7	20.2	7.2	0.7	1.3	0.4	0.0	0.2	0.2	8.1	109.1
BLN2868CL	0.1	4.4	0.3	2.6	61.5	19.2	9.3	0.8	1.3	0.4	0.0	0.2	0.1	8.3	111.7
BLN2869CL	0.1	5.4	0.5	2.4	62.1	19.8	7.6	0.6	1.0	0.2	0.0	0.1	0.1	8.8	109.1
BLN2870CL	0.1	4.4	0.3	2.7	58.4	20.5	10.9	0.8	1.3	0.3	0.0	0.2	0.2	8.4	115.5
NS4876	0.1	4.5	0.3	2.8	62.3	18.9	8.4	0.8	1.2	0.4	0.0	0.2	0.1	8.7	109.6
NS4912	0.1	4.9	0.3	2.2	58.5	22.8	8.5	0.7	1.2	0.4	0.0	0.2	0.2	8.5	113.3
SURPASS603CL	0.0	4.6	0.3	2.4	64.8	19.5	5.8	0.7	1.3	0.3	0.0	0.2	0.1	8.2	106.0

Table 8v. Fatty acid composition for 2003 canola trials- S2 mid Clearfield- Struan (SA)

Sample	14:0	16:0	16:1	18:0	18:1	18:2	18:3	20:0	20:1	22:0	22:1	24:0	24:1	[1] Sat.	[2] Iodine Value
45C75	0.1	4.7	0.3	2.0	61.8	19.2	9.9	0.5	1.0	0.2	0.0	0.1	0.1	7.6	113.5
46C74	0.1	4.3	0.3	2.0	61.8	19.7	9.5	0.6	1.2	0.3	0.0	0.1	0.1	7.4	113.3
BLN2825CL	0.0	4.0	0.3	2.1	64.7	18.3	8.4	0.6	1.1	0.3	0.0	0.1	0.1	7.2	110.3
BLN2867CL	0.1	4.3	0.3	2.0	62.2	20.2	8.8	0.6	1.1	0.2	0.0	0.1	0.1	7.2	112.7
BLN2868CL	0.1	4.1	0.3	2.2	62.0	18.6	10.6	0.6	1.2	0.3	0.0	0.1	0.1	7.3	114.3
BLN2869CL	0.0	4.2	0.3	2.0	62.6	19.5	9.2	0.6	1.1	0.3	0.0	0.1	0.1	7.2	112.8
BLN2870CL	0.0	4.3	0.3	2.2	60.6	19.6	10.9	0.6	1.0	0.2	0.0	0.1	0.1	7.5	115.6
NS4876	0.1	4.1	0.3	2.3	62.7	18.5	9.5	0.7	1.2	0.3	0.0	0.2	0.1	7.6	112.0
NS4912	0.1	4.6	0.3	2.0	60.9	20.9	9.0	0.6	1.1	0.3	0.0	0.1	0.1	7.6	113.4
SURPASS603CL	0.0	4.1	0.2	1.9	63.8	20.4	7.3	0.6	1.2	0.3	0.0	0.1	0.1	6.9	110.4

Table 8w. Fatty acid composition for 2003 canola trials- S2 mid Clearfield- Horsham (Vic)

Sample	14:0	16:0	16:1	18:0	18:1	18:2	18:3	20:0	20:1	22:0	22:1	24:0	24:1	[1] Sat.	[2] Iodine Value
45C75	0.1	4.7	0.3	2.2	63.5	18.2	9.0	0.6	1.0	0.2	0.0	0.1	0.1	7.9	110.7
46C74	0.1	4.4	0.3	2.3	62.8	18.8	8.7	0.7	1.2	0.4	0.0	0.2	0.1	8.0	110.7
BLN2825CL	0.1	4.0	0.3	2.4	66.3	16.9	7.7	0.7	1.1	0.3	0.0	0.1	0.1	7.5	107.7
BLN2867CL	0.1	4.1	0.3	2.1	63.5	19.5	7.9	0.7	1.2	0.3	0.0	0.2	0.1	7.4	110.3
BLN2868CL	0.1	4.3	0.3	2.3	63.3	17.8	9.7	0.6	1.1	0.3	0.0	0.1	0.1	7.7	111.8
BLN2869CL	0.1	4.3	0.3	2.1	63.8	18.6	8.5	0.6	1.1	0.3	0.0	0.1	0.1	7.5	110.5
BLN2870CL	0.1	4.2	0.3	2.3	60.8	19.2	10.9	0.6	1.1	0.2	0.0	0.1	0.1	7.6	115.2
NS4876	0.1	4.5	0.4	2.5	63.5	17.9	8.9	0.7	1.1	0.3	0.0	0.2	0.1	8.2	110.0
NS4912	0.1	5.0	0.3	2.2	61.5	20.3	8.5	0.6	1.0	0.3	0.0	0.2	0.1	8.3	111.3
SURPASS603CL	0.1	4.2	0.3	2.1	65.3	19.2	6.2	0.7	1.3	0.3	0.0	0.2	0.1	7.6	107.0

Table 8x. Fatty acid composition for 2003 canola trials- S2 mid Clearfield- Katanning (Vic)

Sample	14:0	16:0	16:1	18:0	18:1	18:2	18:3	20:0	20:1	22:0	22:1	24:0	24:1	[1] Sat.	[2] Iodine Value
45C75	0.0	3.7	0.3	2.2	63.1	18.3	10.5	0.5	0.9	0.2	0.0	0.1	0.1	6.8	114.4
46C74	0.1	4.5	0.3	2.1	60.9	19.7	10.1	0.6	1.1	0.3	0.0	0.1	0.1	7.7	114.1
BLN2825CL	0.0	4.0	0.3	2.1	64.5	17.8	9.0	0.6	1.1	0.3	0.0	0.1	0.1	7.1	111.1
BLN2867CL	0.0	4.0	0.3	2.4	62.3	17.8	10.6	0.7	1.2	0.4	0.0	0.2	0.2	7.7	113.3
BLN2868CL	0.1	4.3	0.3	2.1	61.4	18.3	11.2	0.6	1.1	0.3	0.0	0.1	0.1	7.5	115.0
BLN2869CL	0.0	4.4	0.3	1.9	61.7	19.6	9.9	0.5	1.1	0.3	0.0	0.1	0.1	7.2	114.2
BLN2870CL	0.1	4.2	0.4	2.3	58.9	19.5	12.4	0.6	1.0	0.3	0.0	0.1	0.2	7.6	118.1
NS4876	0.0	3.9	0.3	2.2	63.0	18.3	10.4	0.5	0.9	0.2	0.0	0.1	0.1	6.9	114.1
NS4912	0.1	4.0	0.3	2.2	62.3	18.5	10.7	0.5	0.9	0.2	0.1	0.1	0.1	7.0	114.8
SURPASS603CL	0.0	3.8	0.2	1.9	64.6	19.1	7.7	0.6	1.3	0.3	0.0	0.1	0.1	6.8	110.1

[1] Sat- Sum of the saturated fatty acids including 14:0, 16:0, 18:0, 20:0, 22:0 and 24:0

[2] Iodine Value- Calculated from the fatty acid composition

Definition

Canola is a term used to describe seed of the species *Brassica napus or Brassica campestris*, the oil component of which seed contains less than 2% erucic acid (C22:1) and the solid component of which seed contains less than 30 micromoles of any one of, or any mixture of, 3-butenyl glucosinolate, 4-pentenyl glucosinolate, 2-hydroxy-3-butenyl glucosinolate and 2-hydroxy-4-pentenyl glucosinolate per gram of air-dry, oil-free solid as measured by the gas chromatographic method of the Canadian Grain Commission (Canola Council, Winnipeg, Manitoba, Canada).

Methods

Moisture Content:
Moisture is determined on whole seed using a 6500 near infrared (NIR) spectrometer calibrated against using AOF 4-1.6," Moisture content of oilseeds oven method". The moisture contents are used to convert the raw data for oil and protein to the appropriate moisture content for reporting.

Oil Content:
Oil content is determined by NIR calibrated using from results obtained by supercritical fluid extraction (SCFE) AOF 4-1.27, "Oil content of oilseeds-supercritical fluid extractor". The SCFE uses low temperature and high pressure carbon dioxide to extract the oil from ground up canola seed. Settings of extraction chamber temperature 120^0C, extraction chamber pressure 7500 psi , restrictor temperature 150^0C and extraction time of 1hr give good correlation with the previous reference method (petroleum ether (40-60^0C) extraction using a Goldfische apparatus). The results are reported as a percentage of the seed at 6% moisture.

Protein Content:
Protein content is determined on whole seed by NIR, calibrated from samples analysed by the LECO elemental determinator using AOF 4-3.3, "Protein, crude, of meals (generic combustion)". Results are reported as percent protein (nitrogen x 6.25) and calculated to 10% moisture on oil-free meal.

Glucosinolate Content:
Total glucosinolate concentration is determined by NIR, calibrated using the reference method AOF 4-1.22 "Glucosinolate content, Glucose method, Canola and Rapeseed". The method involves an enzymatic hydrolysis to release glucose followed by a colorimetric reaction and determination using a UV-Vis spectrophotometer. The method has compared favourably with the HPLC methodology of the AOCS with the added advantage of speed and economy. Results are reported as µmoles glucosinolates/gram whole seed at 6% moisture.

Fatty Acid Composition:
Fatty acid composition involves methylation of fatty acids with sodium methoxide, AOF4-2.18, "Preparation of fatty acid methyl esters". The methyl esters are then separated on a gas chromatograph using a BPX70 capillary column. Fatty acids are reported as a percentage of the total fatty acids.

Iodine Values:
Iodine values are calculated from the fatty acid profile using AOF 4-2.14, "Iodine value by fatty acid composition".

Volumetric Grain Weights:
Volumetric grain weights are measured using a Franklin chrondrometer and reported as both lbs/bushel and kg/hectolitre.