



Canola: Long Fallow After Lucerne Central Zone - East

Winter 2012

1. GROSS MARGIN BUDGET:

INCOME:

2.50 tonnes/ha @ \$460.00 /tonne (on farm)

A. TOTAL INCOME \$/ha:

VARIABLE COSTS:

See opposite page for detail

	Standard Budget \$/ha	Your Budget \$/ha
	\$1,150.00	
A. TOTAL INCOME \$/ha:	\$1,150.00	
Cultivation.....	\$20.74	
Sowing.....	\$56.00	
Fertiliser.....	\$228.24	
Herbicide.....	\$34.46	
Insecticide.....	\$51.21	
Contract-harvesting.....	\$135.00	
Levies.....	\$15.42	
Crop Insurance.....	\$41.26	
Cartage, grading & bagging.....	\$0.00	
B. TOTAL VARIABLE COSTS \$/ha:	\$582.33	
C. GROSS MARGIN (A-B) \$/ha:	\$567.67	

2. EFFECT OF YIELD AND PRICE ON GROSS MARGIN PER HECTARE:

YIELD tonnes/ha	ON FARM PRICE (\$/tonne)					Gross Margin (\$/ha)
	\$380 /t	\$420 /t	\$460 /t	\$500 /t	\$540 /t	
1.60	\$62	\$123	\$184	\$245	\$306	
1.90	\$170	\$243	\$315	\$388	\$460	
2.20	\$275	\$359	\$442	\$526	\$610	
2.50	\$377	\$472	\$568	\$663	\$758	←
2.80	\$479	\$586	\$693	\$800	\$907	
3.10	\$581	\$700	\$818	\$936	\$1,055	
3.40	\$684	\$814	\$943	\$1,073	\$1,203	

PRODUCT TRADE NAMES

The product trade names in this publication are supplied on the understanding that no preference between equivalent products is intended and that the inclusion of a product does not imply endorsement by NSW DPI other equivalent product from another manufacturer.

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CALENDAR OF OPERATIONS:

Operation	Month	Machinery			Inputs			Total Cost \$/ha
		hr/ha	Cost \$/hour	Total \$/ha	rate/ha	Cost \$	Total \$/ha	
Weed control eg: glyphosate 450 g/L (Roundup CT®)	Aug	0.05	53.40	\$2.88	1.20 L	\$4.68/L	\$5.62	\$8.49
Wetter eg. alkoxyated alcohol 1000 g/L (BS 1000®)	Aug	with above			0.20 L	\$7.00/L	\$1.40	\$1.40
Broadleaf weed control eg: 2,4-D amine 300 g/L (Surpass®)	Aug	with above			1.20 L	\$3.80/L	\$4.56	\$4.56
Mite control eg: omethoate 290 g/L (Le-mat® 290 SL)	Sept/Oct	with above			0.05 L	\$30.00/L	\$1.50	\$1.50
Chisel Plough	Oct/Nov	0.22	54.87	\$12.25				\$12.25
Cultivation	Feb/Mar	0.17	57.07	9.77				\$9.77
Weed control eg: glyphosate 450 g/L (Roundup CT®)	Apr	0.05	53.40	\$2.88	1.20 L	\$4.68/L	\$5.62	\$8.49
Weed control eg: trifluralin 500 g/L (Triflur® X)	Apr	with above			0.65 L	\$8.53/L	\$5.54	\$5.54
Sowing (treated seed)	Apr/May	0.17	74.40	\$12.50	3.00 kg	\$14.50/kg	\$43.50	\$56.00
Starter fertiliser eg: MAP	Apr/May	with above			100 kg	\$1.03/kg	\$103.00	\$103.00
Mite control eg: bifenthrin 100g/L (Talstar®)	Apr/May	0.05	76.36	\$4.11	0.10 L	\$65.00/L	\$6.50	\$10.61
Top dress nitrogen and 100 g/L sulfur fertiliser eg: Gran Am®	Jun/July	0.17	74.40	\$12.74	125 kg	\$0.90/kg	\$112.50	\$125.24
Broadleaf weed control eg: clopyralid 300 g/L (Lontrel®)	Jun/July	0.05	53.40	\$2.88	0.30 L	\$32.86/L	\$9.86	\$12.73
Weed control eg: haloxyfop-R 520 g/L (Verdict®)	Jun/July	with above			0.05 L	\$61.09/L	\$3.05	\$3.05
Uptake®	Jun/July	with above			0.25 L	\$7.40/L	\$1.85	\$1.85
Aphid control (1 year in 2) eg: Pirimicarb 500 g/Kg (Pirimor WG®) 500 a/L	Sept	contract		\$18.15	0.5 kg	\$43.80/kg	\$21.90	\$20.03
Heliothis control (every year) eg: alphacypermethrin 100g/L (Fastac Duo®)	Oct	contract		\$18.15	0.30 L	\$8.07/L	\$2.42	\$20.57
Contract Windrow	Oct	contract		\$75.00				\$75.00
Contract-harvest	Nov	contract		\$60.00				\$60.00
Crop Levies					\$1.50/tonne + 1.02% of on-farm value			\$15.42
Crop Insurance					3.59% of on-farm value			\$41.26

*** Input and crop prices are correct at the time of writing (March 2012). Market uncertainty makes estimation of future pricing impractical.

NOTES:

Place in rotation:

- First crop for country coming out of lucerne/sub clover pasture.
- Fallow is usually commenced in Aug-Sep to conserve moisture and stop weeds seeding.
- Extended grazing time, weed control and moisture conservation can be achieved by using a herbicide rather than a cultivation early. However, paddocks coming out of lucerne invariably require a chisel ploughing.

Paddock Selection:

- Avoid acidic soils with exchangeable aluminium and manganese. Avoid hard pans.
- Apply lime on acid soils where pH_{Ca} falls below 5.0.
- Subsoil moisture of at least 60 cm is recommended. High stubble load directly over the seeding row may result in poor crop establishment. Adjust the seeding rates accordingly.

Sowing Time:

- Sow after first sufficient rain, from mid April to late May.
- Seed price used above is for purchased seed. Farmer retained seed is not recommended.
- Canola has high requirements for essential nutrients phosphorus, nitrogen and sulfur.

Fertiliser:

- A starter fertiliser is recommended at sowing. Canola is very responsive to phosphorus.
- Phosphorus is essential for good growth & development and effective utilisation of all other nutrients.
- Canola needs 30% more nitrogen than equivalent yielding wheat. All nitrogen should be applied before stem elongation. Soils low in sulfur, particularly red soils should receive 25 kg Sulfur /ha.

Weed control:

- Clopyralid for broadleaf weed control (capeweed, skeleton weeds and saffron thistle).
- Rotate herbicide groups and use other non-chemical methods to delay herbicide resistance developing.

Insect Control:

- Monitor regularly and frequently from flowering onwards for chewing and sucking insects. eg aphids & heliothis
- Earthmite control is essential to protect seedlings.
- Heliothis control is needed in most years.

Windrowing:

- Is recommended to avoid shattering losses and promotes even ripening.

Machinery:

- A tractor with 153 kW (181 HP) pto power and 166 kW (225 HP) engine power is assumed.
- Machinery costs refer only to variable costs: fuel, oil, filters, tyres, batteries & repairs.
- Contract-harvesting does not include the cost of fuel.
- The labour required for machinery operations is 0.91 hr/ha

Labour:

- Using a labour cost of \$22/hr, an additional \$24.62 can be deducted from the budget

Important notes:

- These gross margins are only a guide. They do not include overhead costs.
- **Use your own figures and price assumptions to estimate your own gross margin.**
- Use of a particular brand name does not imply a recommendation of that brand by NSW DPI.