



Canola: Long Fallow After Lucerne Central Zone - East

Winter 2009

1. GROSS MARGIN BUDGET:

INCOME:
2.40 tonnes/ha @ \$480.00 /tonne (on farm)

A. TOTAL INCOME \$/ha:

VARIABLE COSTS:
See opposite page for detail

- Cultivation.....
- Sowing.....
- Fertiliser.....
- Herbicide.....
- Insecticide.....
- Contract-harvesting.....
- Levies.....
- Crop Insurance.....
- Cartage, grading & bagging.....

B. TOTAL VARIABLE COSTS \$/ha:

C. GROSS MARGIN (A-B) \$/ha:

Standard Budget \$/Ha	Your Budget \$/Ha
\$1,152.00	
\$1,152.00	
\$21.19	
\$37.82	
\$206.02	
\$48.21	
\$44.37	
\$133.00	
\$15.29	
\$41.33	
\$0.00	
\$547.24	
\$604.76	

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

YIELD tonnes/ha	ON FARM PRICE (\$/tonne)				
	\$400 /t	\$440 /t	\$480 /t	\$520 /t	\$560 /t
1.50	\$88	\$145	\$202	\$259	\$316
1.80	\$202	\$270	\$339	\$408	\$476
2.10	\$314	\$394	\$474	\$554	\$634
2.40	\$422	\$513	\$605	\$696	\$788
2.70	\$530	\$633	\$736	\$839	\$942
3.00	\$638	\$752	\$867	\$981	\$1,096
3.30	\$746	\$872	\$998	\$1,123	\$1,249

Gross Margin (\$/ha)

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 Department of Primary Industries over any other equivalent product from another manufacturer.

This budget is ONLY A GUIDE and should be altered for movements in crop and input prices, changes in seasonal conditions and the farm characteristics.

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CALENDAR OF OPERATIONS:

Operation	Month	Machinery			Inputs			Total Cost \$/ha
		hrs/ha	Cost \$/hour	Total \$/ha	Rate/ha	Cost \$	Total \$/ha	
Weed control eg: glyphosate 450 g/litre	Sept	0.05	43.36	\$2.34	1.20 L	\$7.38/L	\$8.85	\$11.19
Broadleaf weed control eg: 2,4-D amine 300g/L (Surpass®)	Sept	with above			1.20 L	\$6.22/L	\$7.46	\$7.46
Mite control eg: Omethoate (Le-mat®)	Sept/Oct	with above			0.05 L	\$33.67/L	\$1.68	\$1.68
Chisel Plough	Oct/Nov	0.22	44.83	\$10.01				\$10.01
Weed control eg: glyphosate 450 g/litre	Dec/Jan	0.05	43.36	\$2.34	1.20 L	\$7.38/L	\$8.85	\$11.19
Weed control eg: Garlon®	Dec/Jan	with above			0.12 L	\$29.93/L	\$3.59	\$3.59
Weed control eg: glyphosate 450 g/litre	Mar	0.05	43.36	\$2.34	1.20 L	\$7.38/L	\$8.85	\$11.19
Weed control eg: trifluralin 480 g/Litre	Apr	0.05	43.36	\$2.34	1.70 L	\$8.05/L	\$13.68	\$16.02
Sowing (treated seed)	Apr/May	0.17	64.36	\$10.82	3.00 kg	\$9.00/kg	\$27.00	\$37.82
Starter fertiliser eg: MAP	Apr/May	with above			100 kg	\$0.98/kg	\$97.50	\$97.50
Mite control eg: bifenthrin (Talstar®)	Apr/May	0.05	79.73	\$4.30	0.10 L	\$33.67/L	\$3.37	\$7.66
Top dress Nitrogen and Sulfur fertiliser eg: Gran Am®	Jun/July	0.17	64.36	\$11.02	125 kg	\$0.78/kg	\$97.50	\$108.52
Broadleaf weed control eg: Clopyralid (Lontrel®)	Jun	0.05	43.36	\$2.34	0.30 L	\$44.67/L	\$13.40	\$15.74
Heliothis control (every year) eg: alphacypermethrin (Fastac Duo®)	Oct	contract		\$18.15	0.30 L	\$10.50/L	\$3.15	\$21.30
Aphid control (1 year in 2) eg: Pirimicarb (Pirimor WG®)	Sept	contract		\$18.15	0.5 kg	\$25.35/kg	\$12.68	\$15.41
Contract Windrow		contract		\$75.00				\$75.00
Contract-harvest		contract		\$58.00				\$58.00
Crop Levies					\$1.50/tonne + 1.02% of on-farm value			\$15.29
Crop Insurance					3.59% of on-farm value			\$41.33

*** Input and crop prices are correct at the time of writing (March 2009). 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 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 and saffron thistle).
- Rotate herbicide groups and use other non-chemical methods to delay herbicide resistance developing.
- Monitor regularly and frequently from flowering onwards for chewing and sucking insects. eg aphids & heliothis

Insect Control:

- 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 149 kW (200 HP) pto power and 177 kW (240 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 0.83 hrs/ha

Labour:

- Using a labour cost of \$14/hr, an additional \$14.56 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 recommendation of that brand by NSW Department of Primary Industries.