



# Canola: Short Fallow (No-till) Central Zone - East

Winter 2009

## 1. GROSS MARGIN BUDGET:

**INCOME:**

1.80 tonnes/ha @ \$480.00 /tonne (on farm)

**A. TOTAL INCOME \$/ha:**

**VARIABLE COSTS:**

See opposite page for detail

Sowing..... \$37.82  
 Fertiliser..... \$241.59  
 Herbicide..... \$67.07  
 Insecticide..... \$44.37  
 Contract-harvesting..... \$125.00  
 Levies..... \$11.47  
 Crop Insurance..... \$31.00  
 Cartage, grading & bagging..... \$0.00

**B. TOTAL VARIABLE COSTS \$/ha:**

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

Standard Budget \$/Ha	Your Budget \$/Ha
\$864.00	
<b>\$864.00</b>	
\$37.82	
\$241.59	
\$67.07	
\$44.37	
\$125.00	
\$11.47	
\$31.00	
\$0.00	
<b>\$558.32</b>	
<b>\$305.68</b>	

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

YIELD tonnes/ha	ON FARM PRICE (\$/tonne)					Gross Margin (\$/ha)
	\$400 /t	\$440 /t	<b>\$480 /t</b>	\$520 /t	\$560 /t	
0.90	-\$174	-\$139	-\$105	-\$71	-\$36	
1.20	-\$60	-\$14	\$32	\$78	\$123	
1.50	\$54	\$112	\$169	\$226	\$283	
<b>1.80</b>	\$168	\$237	<b>\$306</b>	\$374	\$443	←
2.10	\$280	\$360	\$441	\$521	\$601	
2.40	\$388	\$480	\$572	\$663	\$755	
2.70	\$496	\$599	\$702	\$805	\$909	
3.00	\$604	\$719	\$833	\$948	\$1,062	

**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.

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## Central Zone - East

### Winter 2009

#### 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	Dec/Jan	0.05	43.36	<b>\$2.34</b>	1.20 L	\$7.38/L	<b>\$8.85</b>	<b>\$11.19</b>
Weed control eg: Garlon®	Dec/Jan	with above			0.12 L	\$29.93/L	<b>\$3.59</b>	<b>\$3.59</b>
Weed control eg: glyphosate 450 g/litre	Feb/Mar	0.05	43.36	<b>\$2.34</b>	0.80 L	\$7.38/L	<b>\$5.90</b>	<b>\$8.24</b>
Weed control eg: 2,4-D amine (Surpass®).	Feb/Mar	with above			1.20 L	\$6.22/L	<b>\$7.46</b>	<b>\$7.46</b>
Weed control eg: trifluralin 480 g/L	Apr	0.05	43.36	<b>\$2.34</b>	1.70 L	\$8.05/L	<b>\$13.68</b>	<b>\$16.02</b>
Nitrogen and sulfur fertiliser eg: Extra Sul®	Apr	0.17	47.03	<b>\$8.05</b>	84 kg	\$0.78/kg	<b>\$65.52</b>	<b>\$73.57</b>
Sowing - treated seed	Apr/May	0.17	64.36	<b>\$10.82</b>	3.00 kg	\$9.00/kg	<b>\$27.00</b>	<b>\$37.82</b>
Starter fertiliser eg: MAP	Apr/May	with above			100 kg	\$0.98/kg	<b>\$97.50</b>	<b>\$97.50</b>
Mite control eg: omethoate (Le-mat®)	May	0.05	79.73	<b>\$4.30</b>	0.10 L	\$33.67/L	<b>\$3.37</b>	<b>\$7.66</b>
Topdress Urea	Jun/Jul	0.17	64.36	<b>\$11.02</b>	70.00 Kg	\$0.85/kg	<b>\$59.50</b>	<b>\$70.52</b>
Weed control eg: clopyralid (Lontrel®)	Jun	0.05	43.36	<b>\$2.34</b>	0.30 L	\$44.67/L	<b>\$13.40</b>	<b>\$15.74</b>
Weed control eg: (Verdict®)	Jun	with above			0.05 L	\$96.88/L	<b>\$4.84</b>	<b>\$4.84</b>
Heliothis control (every year) eg: Fastac Duo®	Oct	contract		<b>\$18.15</b>	0.30 L	\$10.50/L	<b>\$3.15</b>	<b>\$21.30</b>
Aphid control (1 year in 2) eg: Pirimicarb (Pirimor WG®)	Sep	contract		<b>\$18.15</b>	0.5 kg	\$25.35/kg	<b>\$12.68</b>	<b>\$15.41</b>
Contract Windrow	Nov			<b>\$75.00</b>				<b>\$75.00</b>
Contract-harvest		contract		<b>\$50.00</b>				<b>\$50.00</b>
Crop Levies					\$1.50/tonne + 1.02% of on-farm value			<b>\$11.47</b>
Crop Insurance					3.59% of on-farm value			<b>\$31.00</b>

\*\*\* 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:

This budget applies to canola following cereal.

- Excellent disease and weed break crop for wheat.
- Short Fallow: Fallow or weed free period of 5-6 months between harvest of one crop and sowing of the next crop. For example, a paddock harvested in November would allow for a 5-6 month fallow until sowing in May.

##### Paddock selection:

- Avoid acidic soils with exchangeable aluminium and manganese. Avoid hard pans.
- Apply lime on acid soils where pH<sub>Ca</sub> is below 5.0.
- Subsoil moisture of at least 60 cm is recommended.

##### Sowing time:

- Sow from mid April to late May.
- High stubble loads directly over seeding row may result in poor crop establishment.
- Adjust seeding rates accordingly.
- Seed price used above is for purchased seed of open pollinated varieties. Farmer retained seed is not recommended.

##### Fertiliser:

- Canola has high requirements for essential nutrients phosphorus, nitrogen and sulfur.
- A starter fertiliser is recommended at sowing. Canola is very responsive to phosphorus.
- Phosphorus is essential for good growth and development and effective utilisation of other nutrients.
- 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 per hectare.

##### Weed control:

- Trifluralin as a pre-emergent for selected grass and broadleaf weeds.
- Clopyralid for broadleaf weed control (capeweed and saffron thistle).
- Rotate herbicide groups & use other non-chemical methods to delay herbicide resistance.

##### Insect control:

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

##### Windrowing:

- Is recommended to promote even ripening and minimise shattering losses.

##### 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.

##### Labour:

- The labour required for machinery operations is 0.76 hrs/ha
- Using a labour cost of \$14/hr, an additional \$10.65 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.