

# Wheat: Short Fallow (No-till)

## Central Zone - West

### Winter 2012

#### 1. GROSS MARGIN BUDGET:

PREVIOUS CROP:

	CEREAL Standard Budget	CANOLA Standard Budget	PULSES Standard Budget	Your Budget
	\$/ha	\$/ha	\$/ha	\$/ha
			\$522.50	
		\$495.00		
	\$412.50			
<b>A. TOTAL INCOME \$/ha:</b>	<b>\$412.50</b>	<b>\$495.00</b>	<b>\$522.50</b>	
	\$0.00	\$0.00	\$0.00	
	\$44.35	\$44.35	\$44.35	
	\$130.02	\$130.02	\$130.02	
	\$54.96	\$54.96	\$54.96	
	\$0.00	\$0.00	\$0.00	
	\$8.15	\$8.15	\$8.15	
	\$48.00	\$48.00	\$48.00	
	\$4.21	\$5.05	\$5.33	
	\$4.23	\$5.07	\$5.36	
	\$0.00	\$0.00	\$0.00	
<b>B. TOTAL VARIABLE COSTS \$/ha:</b>	<b>\$293.91</b>	<b>\$295.60</b>	<b>\$296.16</b>	
<b>C. GROSS MARGIN (A-B) \$/ha:</b>	<b>\$118.59</b>	<b>\$199.40</b>	<b>\$226.34</b>	

After	INCOME:		
Pulses	1.90 tonnes/ha @	\$275.00 /tonne (on farm) (PH)	
Canola	1.80 tonnes/ha @	\$275.00 /tonne (on farm) (PH)	
Cereal	1.50 tonnes/ha @	\$275.00 /tonne (on farm) (PH)	

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

#### VARIABLE COSTS:

See opposite page for detail

Cultivation.....	\$0.00	\$0.00	\$0.00
Sowing.....	\$44.35	\$44.35	\$44.35
Fertiliser.....	\$130.02	\$130.02	\$130.02
Herbicide.....	\$54.96	\$54.96	\$54.96
Insecticide.....	\$0.00	\$0.00	\$0.00
Fungicide.....	\$8.15	\$8.15	\$8.15
Contract-harvesting.....	\$48.00	\$48.00	\$48.00
Levies.....	\$4.21	\$5.05	\$5.33
Crop Insurance.....	\$4.23	\$5.07	\$5.36
Cartage, grading & bagging.....	\$0.00	\$0.00	\$0.00

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

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

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

**After Cereal**

YIELD tonnes/ha	ON FARM PRICE (\$/tonne)				
	\$235.00	\$255.00	\$275.00	\$295.00	\$315.00
0.50	-\$162	-\$152	-\$143	-\$133	-\$123
1.00	-\$47	-\$28	-\$8	\$12	\$31
<b>1.50</b>	\$68	\$97	<b>\$119</b>	\$156	\$186
2.00	\$183	\$222	\$261	\$301	\$340
2.50	\$298	\$347	\$396	\$445	\$494

Gross Margin (\$/ha)

**After Canola**

YIELD tonnes/ha	ON FARM PRICE (\$/tonne)				
	\$235 /t	\$255 /t	<b>\$275 /t</b>	\$295 /t	\$315 /t
0.30	-\$208	-\$202	-\$197	-\$191	-\$185
0.80	-\$93	-\$77	-\$62	-\$46	-\$30
1.30	\$22	\$47	\$73	\$98	\$124
<b>1.80</b>	\$137	\$172	<b>\$199</b>	\$243	\$278
2.30	\$252	\$297	\$342	\$387	\$432
2.80	\$364	\$418	\$473	\$528	\$583
3.30	\$473	\$537	\$602	\$667	\$731

Gross Margin (\$/ha)

**After Pulses**

YIELD tonnes/ha	ON FARM PRICE (\$/tonne)				
	\$235 /t	\$255 /t	<b>\$275 /t</b>	\$295 /t	\$315 /t
0.40	-\$185	-\$177	-\$170	-\$162	-\$154
0.90	-\$70	-\$53	-\$35	-\$17	\$0
1.40	\$45	\$72	\$100	\$127	\$155
<b>1.90</b>	\$160	\$197	<b>\$226</b>	\$272	\$309
2.40	\$275	\$322	\$369	\$416	\$463
2.90	\$385	\$442	\$499	\$556	\$613
3.40	\$495	\$561	\$628	\$694	\$761

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 DPI over any other equivalent product from another manufacturer.

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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 540 g/L (Roundup PowerMAX®)	Dec/Jan	0.03	76.36	<b>\$2.50</b>	1.20 L	\$8.67/L	<b>\$10.40</b>	<b>\$12.90</b>
Weed control eg: triclopyr 600 g/L (Garlon®)	Dec/Jan	with above			0.10 L	\$19.60/L	<b>\$1.96</b>	<b>\$1.96</b>
Weed control eg: glyphosate 540 g/L (Roundup PowerMAX®)	Feb/Mar	0.03	76.36	<b>\$2.50</b>	1.00 L	\$8.67/L	<b>\$8.67</b>	<b>\$11.17</b>
Weed control eg: 2,4-D amine 300 g/L (Surpass®)	Feb/Mar	with above			1.00 L	\$3.80/L	<b>\$3.80</b>	<b>\$3.80</b>
Nitrogen Fertiliser- After Canola eg: Urea	May	0.12	104.36	<b>\$12.22</b>	80 kg	\$0.70/kg	<b>\$56.00</b>	<b>\$68.22</b>
Nitrogen Fertiliser- After Cereal eg: Urea	May	0.12	104.36	<b>\$12.22</b>	80 kg	\$0.70/kg	<b>\$56.00</b>	<b>\$68.22</b>
Nitrogen Fertiliser- After Pulses eg: Urea	May	0.12	104.36	<b>\$12.22</b>	80 kg	\$0.70/kg	<b>\$56.00</b>	<b>\$68.22</b>
Sowing	May	0.12	104.36	<b>\$12.22</b>	35 kg	\$0.92/kg	<b>\$32.13</b>	<b>\$44.35</b>
Starter fertiliser eg: MAP	May	with above			60 kg	\$1.03/kg	<b>\$61.80</b>	<b>\$61.80</b>
Grass weed control eg: clodinafop-propargyl (Topik®)	Jun/July	0.03	76.36	2.50	0.09 L	\$130.00/L	<b>\$11.44</b>	<b>\$13.94</b>
Uptake®	Jun/July	with above			0.25 L	\$6.80/L	<b>\$1.70</b>	<b>\$1.70</b>
Broadleaf weed control eg: LVE Agritone® 500g/L	July	0.03	76.36	<b>\$2.50</b>	0.70 L	\$10.00/L	<b>\$7.00</b>	<b>\$9.50</b>
Foliar Fungicide eg: tebuconazole 430 g/L (Folicur®)	July/Aug	0.03	76.36	2.50	0.145 L	\$39.00/L	<b>\$5.66</b>	<b>\$8.15</b>
Contract-harvest - After Canola	Nov	contract		<b>\$48.00</b>				<b>\$48.00</b>
Contract-harvest - After Cereal	Nov	contract		<b>\$48.00</b>				<b>\$48.00</b>
Contract-harvest - After Pulses	Nov	contract		<b>\$48.00</b>				<b>\$48.00</b>
Crop Levies - After Canola					1.02%	of on-farm value		<b>\$5.05</b>
Crop Levies - After Cereal					1.02%	of on-farm value		<b>\$4.21</b>
Crop Levies - After Pulses					1.02%	of on-farm value		<b>\$5.33</b>
Crop Insurance - After Canola					1.03%	of on-farm value		<b>\$5.07</b>
Crop Insurance - After Cereal					1.03%	of on-farm value		<b>\$4.23</b>
Crop Insurance - After Pulses					1.03%	of on-farm value		<b>\$5.36</b>

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

### NOTES:

#### Sowing Time:

- Sowing at the optimum time for the selected variety is critical for maximum yield.
- There is a 4 to 7% yield loss for every week delay past the optimum sowing time.
- Seed price used above is for purchased seed; if using retained seed adjust budget accordingly.

#### Place in rotation:

- Short fallow wheat crops perform differently depending on the previous crop.
- Pulse and canola crops provide an effective disease break and yield benefit for the following wheat crop. Additionally, a pulse crop improves soil nitrogen reducing the amount of fertiliser required to achieve PH quality.
- Short Fallow: Fallow or weed free period of 5-6 months between harvest of one crop and sowing of the next crop. For example, canola harvested in November would be under a 5-6 month fallow until sowing in May of the following year.

#### Weed control:

- Timing of fallow herbicide applications vary according to rainfall
- Weed control, if required, should be implemented either pre-emergent or within 6 to 8 weeks after sowing time to limit yield loss.
- Uptake oil @ 0.25 L/ha assumes a water rate of 50 L/ha.
- An additional knockdown herbicide application (eg. glyphosate 540 g/L @ 1.0 L/ha) should be considered if weeds are present at the time of sowing. Triasulfuron @ 35 g/ha can also be tankmixed with glyphosate immediately prior to sowing for residual control of some weed species.
- Rotate herbicide groups and use other non-chemical methods to delay herbicide resistance.

#### Fertiliser:

- Adequate phosphorus is essential before applying extra nitrogen fertiliser.
- To achieve PH quality, wheat must have a protein level of 13% or higher.
- Seasonal conditions will also have a large effect on grain size and protein percentage.
- Nitrogen fertiliser applications may be split i.e. some applied presowing and some applied in the mid to late vegetative stage (2nd node to flag leaf emergence) .
- The later nitrogen fertiliser is applied to a crop, the greater its effect on raising protein percentage, and the less effect it has on increasing yield.

#### Machinery:

- A tractor with 196 kW (263 HP) pto power and 242kW (325 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 0.71 hr/ha
- Using a labour cost of \$22/hr, an additional \$15.58 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.