

## DRYLAND SOYBEANS (No-Till)

Farm Enterprise Budget Series - North East NSW

Summer 2009-2010

### 1. GROSS MARGIN BUDGET:

#### INCOME:

1.50 tonnes/ha @ \$380.00 /tonne ..... 

Sample Budget \$/ha	Your Budget \$/ha
\$570.00	

Cartage costs will vary with distance, so have not been included. The on-farm price is after cartage.

Higher yields may be possible in more eastern areas (eg Inverell)

Crop prices were correct at the time of writing (Aug 2009), world market volatility makes estimation of future pricing impractical.

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

<b>\$570.00</b>	
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#### VARIABLE COSTS:

see following page(s) for details

Sowing.....	\$47.00	
Fertiliser & application.....	\$43.50	
Herbicide & application.....	\$110.98	
Insecticide & application.....	\$89.00	
Harvesting.....	\$74.94	
Levies and insurance.....	\$30.55	

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

<b>\$395.97</b>	
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**C. GROSS MARGIN (A-B) \$/ha:**

<b>\$174.03</b>	
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### 2. EFFECT OF YIELD AND PRICE ON GROSS MARGIN PER HECTARE:

#### (A) SENSITIVITY TABLE

YIELD tonnes/ha	Price						
	\$290 /t	\$320 /t	\$350 /t	<b>\$380 /t</b>	\$410 /t	\$440 /t	\$470 /t
0.80	-\$161	-\$137	-\$113	-\$89	-\$66	-\$42	-\$18
1.00	-\$103	-\$73	-\$44	-\$14	\$16	\$45	\$75
1.25	-\$31	\$6	\$43	\$80	\$117	\$154	\$191
<b>1.50</b>	\$40	\$85	\$129	<b>\$174</b>	\$219	\$263	\$308
1.75	\$112	\$164	\$216	\$268	\$320	\$372	\$424
2.00	\$184	\$243	\$303	\$362	\$421	\$481	\$540
2.25	\$256	\$322	\$389	\$456	\$523	\$590	\$657
2.60	\$356	\$433	\$511	\$588	\$665	\$742	\$819

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CALENDAR OF OPERATIONS:		Machinery			Inputs			Total
Operation	Month	hrs /ha	Cost	Total	Rate/ha	Cost	Total	Total Cost \$/ha
			\$/hour	\$/ha		\$	\$/ha	
Herbicide - glyphosate CT	Jan	0.05	47.19	2.36	1.5 L	5.21	7.82	<b>10.17</b>
Wetter - non-ionic surfactant	Jan	with above			0.2 L	6.86	1.37	<b>1.37</b>
Herbicide - glyphosate CT	Mar	0.05	47.19	2.36	1.5 L	5.21	7.82	<b>10.17</b>
Wetter - non-ionic surfactant	Mar	with above			0.2 L	6.86	1.37	<b>1.37</b>
Herbicide - paraquat 250g/L	May	0.05	47.19	2.36	1.6 L	8.79	14.06	<b>16.42</b>
Herbicide - glyphosate CT	Aug	0.05	47.19	2.36	1.2 L	5.21	6.25	<b>8.61</b>
Wetter - non-ionic surfactant	Aug	with above			0.2 L	6.86	1.37	<b>1.37</b>
Herbicide - glyphosate CT	Sep	0.05	47.19	2.36	1.2 L	5.21	6.25	<b>8.61</b>
Wetter - non-ionic surfactant	Sep	with above			0.2 L	6.86	1.37	<b>1.37</b>
Herbicide - paraquat + diquat	Nov	0.05	47.19	2.36	2.0 L	12.32	24.64	<b>27.00</b>
Sowing: Seed + inoculum	Dec	0.18	66.67	12.00	20 kg	1.75	35.00	<b>47.00</b>
Fertiliser - Starter Z	Dec	with above			50 kg	0.87	43.50	<b>43.50</b>
Herbicide - haloxyfop-R 520g	Jan	0.05	47.19	2.36	0.15 L	147.59	22.14	<b>24.50</b>
Crop insurance **	Jan			4.34%				<b>24.74</b>
Insecticide - deltamethrin ULV	Feb	aerial spray		17.00	2.5 L	11.00	27.50	<b>44.50</b>
Insecticide - deltamethrin ULV	Mar	aerial spray		17.00	2.5 L	11.00	27.50	<b>44.50</b>
Harvest (contract) #	Apr	contract		74.94	per ha incl fuel			<b>74.94</b>
Grains Research Levy				1.02%	of farm gate value			<b>5.81</b>

### AGRONOMIC NOTES:

**Sowing:** Dryland soybeans can be a risky crop to grow. Sow only in most favoured areas on full sub-soil moisture profiles.

**Fertiliser:** Fertiliser requirements should be based on paddock records and soil tests.

**Insects:** Closely monitor for green vegetable bug and heliothis. Deltamethrin is used for green vegetable bug control in this example.

**Weeds:** Select a paddock free of broad-leaf weeds. To reduce the likelihood of herbicide resistance, rotate herbicide groups and weed management techniques. Ensure weed escapes are controlled before they can set seed.

**Insurance:** \*\* Varies with local government area and postcode, check with your insurer.

**Harvest:** Crops that have poor grain prospects at flowering can be turned into good quality hay.

# Harvest costs based on \$70/ha for a crop up to 2.5 t/ha.

**Insurance:** \*\* Varies with local government area and postcode, check with your insurer.

*For further information, refer to the the NSW Department of Primary Industries "Summer Crop Production Guide 2009-10" and the NSW DPI Agfact, "Soybeans" P5.2.6 and PrimeFact- Soybeans: Inland Northern NSW Planting Guide*

*Use of a particular brand name does NOT imply recommendation of that brand by I&I NSW.*

*Always read chemical labels and follow directions, as it is your legal responsibility to do so.*

**LABOUR REQUIREMENTS:** - labour is not costed in this budget. If labour costs \$20.00 /hr, total labour cost would be \$13.25, reducing the gross margin to \$161 /ha.

### MACHINERY ASSUMPTIONS:

Tractor: 130-140 KW PTO (173-180 HP)

Machinery costs refer to variable costs of: fuel, oil, filters, tyres, batteries and repairs.

You may need to add overhead costs as well, please refer to the Tractor and Implement Costs Guide

This budget should be used as a GUIDE ONLY and should be changed by the grower to take account of movements in crop and input prices, changes in seasonal conditions and individual farm characteristics. Estimated prices are GST-exclusive.