



SURFACE IRRIGATED SOYBEANS (diesel pump from bore)

Farm Enterprise Budget Series - Northern Zone

Summer 2012-2013

1. GROSS MARGIN BUDGET:

INCOME:

3.00 tonnes/ha at \$475.00 /tonne (on farm)

Crop prices were correct at the time of writing (Aug 2012), world market volatility makes estimation of future pricing impractical.

Sample Budget \$/ha	Your Budget \$/ha
\$1,425.00	
\$1,425.00	

A. TOTAL INCOME \$/ha:

VARIABLE COSTS:

see following page(s) for details

Cultivation.....	\$31.03	
Sowing.....	\$123.16	
Fertiliser.....	\$94.00	
Herbicide.....	\$48.54	
Insecticide.....	\$26.43	
Irrigation.....	\$399.90	
Levies and insurance.....	\$76.38	
Harvest.....	\$81.24	
B. TOTAL VARIABLE COSTS \$/ha:	\$880.67	

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

\$544.33

D. GROSS MARGIN \$/ML:

\$90.72

SENSITIVITY TABLES

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

YIELD tonnes/ha	On Farm Price				
	\$425 /t	\$450 /t	\$475 /t	\$500 /t	\$525 /t
1.50	-\$230	-\$193	-\$156	-\$119	-\$82
2.00	-\$20	\$30	\$79	\$129	\$178
2.50	\$191	\$252	\$314	\$376	\$438
3.00	\$396	\$470	\$544	\$619	\$693
3.50	\$601	\$688	\$774	\$861	\$948
4.00	\$807	\$906	\$1,004	\$1,103	\$1,202
4.50	\$1,012	\$1,123	\$1,235	\$1,346	\$1,457

3. EFFECT OF YIELD AND PRICE ON GROSS MARGIN PER MEGALITRE:

YIELD tonnes/ha	On Farm Price				
	\$425 /t	\$450 /t	\$475 /t	\$500 /t	\$525 /t
1.50	-\$38	-\$32	-\$26	-\$20	-\$14
2.00	-\$3	\$5	\$13	\$21	\$30
2.50	\$32	\$42	\$52	\$63	\$73
3.00	\$66	\$78	\$91	\$103	\$115
3.50	\$100	\$115	\$129	\$144	\$158
4.00	\$134	\$151	\$167	\$184	\$200
4.50	\$169	\$187	\$206	\$224	\$243

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CALENDAR OF OPERATIONS:		Machinery			Inputs			Total
Operation	Month	hrs/ha	Cost \$/hour	Total \$/ha	Rate/ha	Cost \$	Total \$/ha	Total Cost \$/ha
Herbicide - ground spray, 450 g/L glyphosate	Jan	0.05	51.87	2.59	1.6 L	4.50	7.20	9.79
Herbicide - 2,4-D i.p.a. 300 g/L	Jan	with above			0.66 L	4.20	2.77	2.77
Wetter - non-ionic surfactant	Jan	with above			0.2 L	6.72	1.34	1.34
Herbicide - ground spray, 450 g/L glyphosate	Mar	0.05	51.87	2.59	1.2 L	4.50	5.40	7.99
Wetter - non-ionic surfactant	Mar	with above			0.2 L	6.72	1.34	1.34
Herbicide - ground spray, 450 g/L glyphosate	May	0.05	51.87	2.59	1.0 L	4.50	4.50	7.09
Wetter - non-ionic surfactant	May	with above			0.2 L	6.72	1.34	1.34
Hill-Up (or Bed)	Aug	0.22	56.32	12.39				12.39
Fertiliser - Granulock SuPreme Z	Aug	with above			100 kg	0.94	94.00	94.00
Spray and incorporate	Nov	0.15	62.13	9.32				9.32
Herbicide - trifluralin (480 g/L)	Nov	with above			2.8 L	6.02	16.86	16.86
Pre-Irrigate	Nov				1.40 ML	66.65	93.31	93.31
Sowing: Seed + inoculum	Dec	0.12	78.38	9.41	65 kg	1.75	113.75	123.16
Inter-row cultivate	Jan	0.15	62.13	9.32				9.32
Irrigate	Jan				1.20 ML	66.65	79.98	79.98
Crop insurance **	Jan			4.34%				61.85
Irrigate	Feb				1.20 ML	66.65	79.98	79.98
Irrigate	Feb				1.20 ML	66.65	79.98	79.98
Insecticide - deltamethrin 27.5 g/L	Mar	aerial spray		20.00	0.5 L	12.85	6.43	26.43
Irrigate	Mar				1.00 ML	66.65	66.65	66.65
Harvest #	Apr	contract		81.24	per ha incl fuel			81.24
Research Levy				1.02%	of farm gate value			14.54

AGRONOMIC NOTES:

Insects: Closely monitor for green vegetable bug, heliothis and mites. Deltamethrin is applied to control green vegetable bugs or heliothis.

Fertiliser: Soybean is sensitive to zinc deficiency. Zinc treatment should be included when necessary in this example zinc is applied 1 year in 5.

Weeds: To reduce the likelihood of herbicide resistance, rotate herbicide groups and weed management techniques.

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

Harvest costs based on \$74.94 (including \$4.94/ha fuel) /ha for a crop up to 2.5 t/ha with estimated increment of \$1.00 per extra 100 kg/ha above 2.5 t/ha.

For further information, refer to the NSW DPI Agfact, "Soybeans" P5.2.6 and the NSW DPI "Summer Crop Production Guide 2012-13".

Use of a particular brand name does NOT imply recommendation of that brand by NSW DPI.

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 \$21.70 /hr, total labour cost would be \$18.17, reducing the gross margin to \$526 /ha.

This does not include labour required to irrigate since this is more likely to be an overhead cost.

MACHINERY ASSUMPTIONS:

Tractor: 170 KW PTO (230 HP) and 200 KW engine (265 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

IRRIGATION: # Water usage charge of \$9.20 per ML assumed, your charges may be different.

Water pumping costs: calculated using a flood/furrow system with diesel powered pumping from surface supply.

Water requirements 6.0 ML/Ha is sufficient to adequately irrigate soybeans 4 out of 5 years.