



SURFACE IRRIGATED SUNFLOWERS (mono-unsaturated) Farm Enterprise Budget Series - Northern Zone

Summer 2011-2012

(diesel pump from bore)

1. GROSS MARGIN BUDGET:

INCOME:

3.00 tonnes/ha at \$563.00 /tonne (on farm)

Crop prices were correct at the time of writing (Sep 2011), world market volatility makes estimation of future pricing impractical.

Sample Budget \$/ha	Your Budget \$/ha
\$1,689.00	

A. TOTAL INCOME \$/ha:

\$1,689.00	
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VARIABLE COSTS:

see following page(s) for details

Cultivation.....	\$21.40	
Sowing.....	\$66.81	
Fertiliser.....	\$228.53	
Herbicide.....	\$69.66	
Insecticide.....	\$58.34	
Irrigation.....	\$257.71	
Levies and insurance.....	\$88.33	
Harvest.....	\$71.20	
B. TOTAL VARIABLE COSTS \$/ha:	\$861.99	

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

\$827.01	
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D. GROSS MARGIN \$/ML:

\$212.05	
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2. EFFECT OF YIELD AND PRICE ON GROSS MARGIN PER HECTARE:

(A) SENSITIVITY TABLE

YIELD tonnes/ha	On Farm Price				
	\$513 /t	\$538 /t	\$563 /t	\$588 /t	\$613 /t
1.50	-\$78	-\$41	-\$4	\$33	\$70
2.00	\$176	\$225	\$275	\$324	\$374
2.50	\$430	\$492	\$553	\$615	\$677
3.00	\$679	\$753	\$827	\$901	\$975
3.50	\$927	\$1,014	\$1,101	\$1,187	\$1,274
4.00	\$1,176	\$1,275	\$1,374	\$1,473	\$1,572
4.50	\$1,425	\$1,537	\$1,648	\$1,759	\$1,871

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

YIELD tonnes/ha	On Farm Price				
	\$513 /t	\$538 /t	\$563 /t	\$588 /t	\$613 /t
1.50	-\$20	-\$11	-\$1	\$9	\$18
2.00	\$45	\$58	\$70	\$83	\$96
2.50	\$110	\$126	\$142	\$158	\$174
3.00	\$174	\$193	\$212	\$231	\$250
3.50	\$238	\$260	\$282	\$304	\$327
4.00	\$302	\$327	\$352	\$378	\$403
4.50	\$365	\$394	\$423	\$451	\$480

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Operation	Month	Machinery			Inputs			Total Cost \$/ha
		hrs/ha	Cost \$/hour	Total \$/ha	Rate/ha	Cost \$	Total \$/ha	
Herbicide - ground spray, glyphos	Jan	0.05	54.60	2.73	1.2 L	4.42	5.30	8.03
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	6.45	1.29	1.29
Herbicide - ground spray, glyphos	Mar	0.05	54.60	2.73	1.2 L	4.42	5.30	8.03
Herbicide - triclopyr	Mar	with above			0.08 L	19.00	1.52	1.52
Wetter - non-ionic surfactant	Mar	with above			0.2 L	6.45	1.29	1.29
Hill-Up (or bed)	May	0.22	55.33	12.17				12.17
Fertilize -Bulk Urea	May	with above			260 kg	0.70	182.00	182.00
Herbicide - Stomp Xtra	Aug	0.03	55.78	1.67	3.3 L	11.92	39.34	41.01
Herbicide - glyphosate CT	Aug	with above			1.0 L	4.42	4.42	4.42
Wetter - non-ionic surfactant	Aug	with above			0.2 L	6.45	1.29	1.29
Fertiliser - Granulock SuPreme Z	Aug	0.12	74.39	8.93	40 kg	0.94	37.60	46.53
Pre-Irrigate	Aug				1.50 ML	66.08	99.12	99.12
Sow with planter	Sept	0.12	77.78	9.33				9.33
Seed	Sept	with above			3 kg	19.16	57.48	57.48
Insecticide - chlorpyrifos EC	Sept	with above			0.75 L	14.64	10.98	10.98
Inter-row cultivate	Oct	0.15	61.53	9.23				9.23
Irrigate	Nov				1.20 ML	66.08	79.30	79.30
Insecticide - alpha-cypermethrin 100 g/L	Dec	aerial spray		20.00	0.4 L	9.20	3.68	23.68
Irrigate	Dec				1.20 ML	66.08	79.30	79.30
Insecticide - alpha-cypermethrin 100 g/L	Jan	aerial spray		20.00	0.4 L	9.20	3.68	23.68
Crop insurance **	Jan			4.21%				71.11
Harvest (contract) #	Feb	contract		71.20	per ha incl fuel			71.20
Grains Research Levy				1.02%	of farm gate value			17.23

AGRONOMIC NOTES:

Spring sown sunflowers are likely to have higher water requirements, up to 7.5 ML/ha.

Do not sow poly-unsaturated sunflowers in spring as low quality oil is unacceptable to margarine manufacturers.

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

Insects: *Deltamethrin assumed to be required to control Rutherglen bug or heliothis.

For further information see the NSW DPI "Summer Crop Production Guide 2011-12"

Harvest costs based on \$64.94 (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.

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.

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

LABOUR REQUIREMENTS: - labour is not costed in this budget. If labour costs \$21.00 /hr, total labour cost would be \$19.43, reducing the gross margin to \$808 /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 groundwater.

Water requirements 3.90 ML is sufficient to adequately irrigate sunflowers 4 out of 5 years.

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.