



SURFACE IRRIGATED MAIZE (diesel pump from bore)

Farm Enterprise Budget Series - Northern Zone
Summer 2011-2012

1. GROSS MARGIN BUDGET:

INCOME:

10.00 tonnes/ha at \$268.00 /tonne (on farm, feed)

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

pricing impractical.

A. TOTAL INCOME \$/ha:

Sample Budget \$/ha	Your Budget \$/ha
\$2,680.00	

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VARIABLE COSTS:

see following page(s) for details

Cultivation.....	\$9.23	
Sowing.....	\$344.33	
Fertiliser.....	\$369.83	
Herbicide.....	\$87.47	
Insecticide.....	\$0.00	
Irrigation.....	\$472.47	
Harvest.....	\$141.20	
Levies and insurance.....	\$132.12	
B. TOTAL VARIABLE COSTS \$/ha:	\$1,556.65	

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

\$1,123.35	
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D. GROSS MARGIN \$/ML:

\$157.11	
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SENSITIVITY TABLES

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

YIELD tonnes/ha	On Farm Price					
	\$228 /t	\$248 /t	\$268 /t	\$298 /t	\$348 /t	\$398 /t
7.00	\$77	\$216	\$355	\$564	\$911	\$1,259
8.00	\$294	\$452	\$611	\$849	\$1,247	\$1,644
9.00	\$510	\$689	\$867	\$1,135	\$1,582	\$2,029
10.00	\$726	\$925	\$1,123	\$1,421	\$1,918	\$2,414
11.00	\$943	\$1,161	\$1,379	\$1,707	\$2,253	\$2,799
12.00	\$1,159	\$1,397	\$1,635	\$1,993	\$2,589	\$3,184
13.00	\$1,375	\$1,633	\$1,892	\$2,279	\$2,924	\$3,569

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

YIELD tonnes/ha	On Farm Price					
	\$228 /t	\$248 /t	\$268 /t	\$298 /t	\$348 /t	\$398 /t
7.00	\$11	\$30	\$50	\$79	\$127	\$176
8.00	\$41	\$63	\$85	\$119	\$174	\$230
9.00	\$71	\$96	\$121	\$159	\$221	\$284
10.00	\$102	\$129	\$157	\$199	\$268	\$338
11.00	\$132	\$162	\$193	\$239	\$315	\$391
12.00	\$162	\$195	\$229	\$279	\$362	\$445
13.00	\$192	\$228	\$265	\$319	\$409	\$499

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250

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, glyphosat	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, glyphosat	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
Herbicide - ground spray, glyphosate CT	May	0.05	54.60	2.73	1.0 L	4.42	4.42	7.15
Wetter - non-ionic surfactant	May	with above			0.2 L	6.45	1.29	1.29
Herbicide - ground spray, glyphosat	Aug	0.05	54.60	2.73	1.2 L	4.42	5.30	8.03
Wetter - non-ionic surfactant	Aug	with above			0.2 L	6.45	1.29	1.29
Fertiliser -Bulk Urea	Sep	0.12	74.39	8.93	435 kg	0.70	304.50	313.43
Pre-Irrigate	Sep				1.4 ML	66.08	92.51	92.51
Sowing - thiamethoxam treated seed	Oct	0.12	77.78	9.33	25 kg	13.40	335.00	344.33
Fertiliser-* Granulock SuPreme Z	Oct	with above			60 kg	0.94	56.40	56.40
Herbicide - S-metolachlor+atrazine	Oct	0.03	55.78	1.67	3.20 L	14.09	45.09	46.76
Inter-row cultivate	Nov	0.15	61.53	9.23				9.23
Irrigate	Dec				1.00 ML	66.08	66.08	66.08
Irrigate	Dec				1.25 ML	66.08	82.60	82.60
Irrigate	Jan				1.25 ML	66.08	82.60	82.60
Irrigate	Jan				1.25 ML	66.08	82.60	82.60
Crop insurance **	Jan	4.21%						112.83
Irrigate	Feb				1.0 MI	66.08	66.08	66.08
Harvest #	Apr	contract		141.20	per ha incl fuel			141.20
Grains Research Levy					0.72% of farm gate value			19.30

AGRONOMIC NOTES:

Sowing Time:

Maize can be sown from October onwards.

Weeds:

s-metolachlor+atrazine used for grass and broadleaf weed control.

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

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

* Maize is sensitive to zinc deficiency. Zinc boosted fertiliser or treatment should be included where necessary.

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

Harvest costs based on \$39.50/ha for a crop up to 2.5 t/ha with estimated increment of \$1.58 per extra 100 kg/ha above 2.5 t/ha.

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

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 \$21.00 /hr, total labour cost would be \$16.28, reducing the gross margin to \$1,107 /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.

Maize harvesting requires a corn front. Ownership or running costs are not included in this budget.

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 7.15 ML is sufficient to adequately irrigate maize 4 out of 5 years.