



## SURFACE IRRIGATED MAIZE (diesel pump from bore)

Farm Enterprise Budget Series - Northern Zone

Summer 2009-2010

### 1. GROSS MARGIN BUDGET:

**INCOME:**

10.00 tonnes/ha at \$160.00 /tonne (on farm)

Sample Budget \$/ha	Your Budget \$/ha
\$1,600.00	

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

<b>\$1,600.00</b>	
-------------------	--

**VARIABLE COSTS:**

see following page(s) for details

Cultivation.....	\$7.92	
Sowing.....	\$272.29	
Fertilizer.....	\$326.93	
Herbicide.....	\$89.43	
Insecticide.....	\$12.60	
Irrigation.....	\$351.85	
Harvest.....	\$139.94	
Levies and insurance.....	\$78.88	

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

<b>\$1,279.84</b>	
-------------------	--

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

<b>\$320.16</b>	
-----------------	--

**D. GROSS MARGIN \$/MI:**

<b>\$44.78</b>	
----------------	--

### SENSITIVITY TABLES

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

YIELD tonnes/ha	On Farm Price					
	\$120 /t	\$140 /t	\$160 /t	\$190 /t	\$240 /t	\$290 /t
7.00	-\$404	-\$265	-\$126	\$82	\$430	\$777
8.00	-\$295	-\$136	\$22	\$261	\$658	\$1,055
9.00	-\$186	-\$7	\$171	\$439	\$886	\$1,333
<b>10.00</b>	-\$77	\$122	<b>\$320</b>	\$618	\$1,114	\$1,611
11.00	\$32	\$251	\$469	\$797	\$1,343	\$1,889
12.00	\$141	\$380	\$618	\$975	\$1,571	\$2,167
13.00	\$250	\$509	\$767	\$1,154	\$1,799	\$2,445

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

YIELD tonnes/ha	On Farm Price					
	\$120 /t	\$140 /t	\$160 /t	\$190 /t	\$240 /t	\$290 /t
7.00	-\$57	-\$37	-\$18	\$11	\$60	\$109
8.00	-\$41	-\$19	\$3	\$36	\$92	\$148
9.00	-\$26	-\$1	\$24	\$61	\$124	\$186
<b>10.00</b>	-\$11	\$17	<b>\$45</b>	\$86	\$156	\$225
11.00	\$5	\$35	\$66	\$111	\$188	\$264
12.00	\$20	\$53	\$86	\$136	\$220	\$303
13.00	\$35	\$71	\$107	\$161	\$252	\$342

# SURFACE IRRIGATED MAIZE (diesel pump from bore)

Farm Enterprise Budget Series - Northern Zone

Summer 2009-2010

250

CALENDAR OF OPERATIONS:		Machinery			Inputs			Total
Operation	Month	hrs/ha	Cost \$/hour	Total \$/ha	Rate/ha	Cost \$	Total \$/ha	Cost \$/ha
Herbicide - ground spray, glyphosa	Jan	0.05	47.19	2.36	1.2 L	5.21	6.25	<b>8.61</b>
Herbicide - 2,4-D i.p.a. 300g/L	Jan	with above			0.66 L	4.18	2.76	<b>2.76</b>
Wetter - non-ionic surfactant	Jan	with above			0.2 L	6.86	1.37	<b>1.37</b>
Herbicide - ground spray, glyphosa	Mar	0.05	47.19	2.36	1.2 L	5.21	6.25	<b>8.61</b>
Herbicide - triclopyr	Mar	with above			0.08 L	39.99	3.20	<b>3.20</b>
Wetter - non-ionic surfactant	Mar	with above			0.2 L	6.86	1.37	<b>1.37</b>
Herbicide - ground spray, glyphosa	May	0.05	47.19	2.36	1.0 L	5.21	5.21	<b>7.57</b>
Wetter - non-ionic surfactant	May	with above			0.2 L	6.86	1.37	<b>1.37</b>
Herbicide - ground spray, glyphosa	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>
Fertilizer -Bulk Urea	Sep	0.12	65.67	7.88	435 kg	0.59	256.65	<b>264.53</b>
Pre-Irrigate	Sep				1.4 ML	49.21	68.89	<b>68.89</b>
Sowing - thiamethoxam treated seed	Oct	0.12	69.06	8.29	25 kg	10.56	264.00	<b>272.29</b>
Fertiliser-* Starter 12Z	Oct	with above			60 kg	1.04	62.40	<b>62.40</b>
Seed treatment - semevin	Oct	with above			180 ml	0.07	12.60	<b>12.60</b>
Herbicide - s-metolachlor+atrazine	Oct	0.03	47.06	1.41	3.20 L	13.49	43.17	<b>44.58</b>
Inter-row cultivate	Nov	0.15	52.81	7.92				<b>7.92</b>
Irrigate	Dec				1.0 ML	49.21	49.21	<b>49.21</b>
Irrigate	Dec				1.25 ML	49.21	61.51	<b>61.51</b>
Irrigate	Jan				1.25 ML	49.21	61.51	<b>61.51</b>
Irrigate	Jan				1.25 ML	49.21	61.51	<b>61.51</b>
Crop insurance **	Jan			4.21%				<b>67.36</b>
Irrigate	Feb				1.0 ML	49.21	49.21	<b>49.21</b>
Harvest #	Apr	contract		139.94	per ha incl fuel			<b>139.94</b>
Grains Research Levy				0.72%	of farm gate value			<b>11.52</b>

## 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 I&I NSW.*

\* 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 2009-10"

*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 \$15.50, reducing the gross margin to \$305 /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 \$3.71 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.