



**MAIZE - GRIT (rows / beds) using bore water**

Farm Enterprise Budget Series - Murrumbidgee Valley/Lachlan valley

Summer 2009/2010

**1. GROSS MARGIN BUDGET:**

**INCOME:**

11.00 t/ha @ \$340.00 /t (on farm)

Standard Budget \$/ha	Your Budget \$/ha
\$3,740	

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

<b>\$3,740</b>
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**VARIABLE COSTS:**

See following page for detail

Cultivation.....	\$43
Sowing.....	\$261
Fertilizer.....	\$472
Herbicide.....	\$54
Insecticide.....	\$26
Irrigation.....	\$552
Levies & Insurance.....	\$94
Harvest.....	\$179
<b>B. TOTAL VARIABLE COSTS \$/ha:</b>	<b>\$1,682</b>

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

<b>\$2,058</b>
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**D. GROSS MARGIN \$/ML:**

<b>\$206</b>
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**SENSITIVITY TABLES**

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

YIELD t/ha	On Farm Price				
	\$300 /t	\$320 /t	\$340 /t	\$360 /t	\$380 /t
8.00	\$797	\$953	\$1,109	\$1,265	\$1,421
9.50	\$1,213	\$1,399	\$1,584	\$1,769	\$1,954
<b>11.00</b>	\$1,630	\$1,844	<b>\$2,058</b>	\$2,273	\$2,487
12.50	\$2,046	\$2,289	\$2,533	\$2,777	\$3,021
14.00	\$2,462	\$2,735	\$3,008	\$3,281	\$3,554

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

YIELD t/ha	On Farm Price				
	\$300 /t	\$320 /t	\$340 /t	\$360 /t	\$380 /t
8.00	\$80	\$95	\$111	\$127	\$142
9.50	\$121	\$140	\$158	\$177	\$195
<b>11.00</b>	\$163	\$184	<b>\$206</b>	\$227	\$249
12.50	\$205	\$229	\$253	\$278	\$302
14.00	\$246	\$273	\$301	\$328	\$355

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Summer 2009/2010

CALENDAR OF OPERATIONS:		Machinery			Inputs			Total Cost
Operation	Month	hrs/ha	Cost \$/hour	% of area	Total \$/ha	Rate/ha	Cost	Total \$/ha
Deep rip	Feb	0.22	48.80		\$10.89			<b>\$10.89</b>
Hill up		0.26	46.38		\$12.08			<b>\$12.08</b>
<i>Broadleaf &amp; grass weed control</i>	August	contract			\$15.00	0.80 L/ha	\$4.65/L	\$3.72
<i>eg: aerial spray glyphosate 450</i>								
<i>Apply nitrogen fertiliser eg:</i>	Aug/Sep	0.28	46.71		\$13.08	350kg/ha	\$551.00/t	\$192.85
<i>apply urea</i>								
<i>Apply starter fertiliser eg: MAP</i>		with above				185kg/ha	\$826/t	\$152.81
<i>Pre emergent Weed control eg:</i>	Sep/Oct	0.05	41.38		\$2.23	3.20 L/ha	\$10.25/L	\$32.80
<i>boom spray s-metolachlor +</i>								
<i>atrazine (Primextra Gold®)</i>								
<i>Apply zinc fertiliser eg: boom</i>		with above				3kg/ha	\$1.15/kg	\$3.45
<i>spray zinc hepta hydrate</i>								
Incorporate/Shape beds		0.26	46.38		\$12.08			<b>\$12.08</b>
Tail drain maintenance	Sep/Oct	0.78	19.70	2%	\$0.31			<b>\$0.31</b>
Sow	Oct/Nov	0.14	56.31		\$7.82	1.1 bags/ha	\$230/bag	\$253.00
<i>Wireworm control eg: apply</i>		with above				2kg/ha	\$12.80/kg	\$25.60
<i>terbufos (Counter150 G®)</i>								
<i>Apply nitrogen fertiliser eg:</i>	Nov/Dec/Jan					200kg/ha	\$551.00/t	\$110.20
<i>water run urea</i>								
Inter row cultivate	Nov/Jan	0.17	45.05		\$7.71			<b>\$7.71</b>
Harvest	Mar/Apr/May	contract				11.0 t/ha	\$15.00/t	\$165.00
Chaser bin		0.32	45.05		\$14.19			<b>\$14.19</b>
Irrigation*						10.0ML/ha	\$55.25/ML	\$552.47
Crop levy (farm gate value)						\$3,740	0.70%	\$26.18
Crop insurance (estimated crop value)						\$3,740	1.82%	\$68.07

The budget is ONLY A GUIDE and should be altered for movements in crop and input prices, changes in seasonal conditions and the farm characteristics. Estimated prices are GST - exclusive

<b>AGRONOMIC NOTES</b>	<b>See <i>Summer Crop Guide 2009-10 DII NSW</i></b>
<b>Prices</b>	<ul style="list-style-type: none"> <li>- Prices are estimated and GST-exclusive.</li> <li>- The maize price mentioned above is weighted for both contracted grit and uncontracted feed maize. Any grower contemplating growing maize should secure markets prior to sowing.</li> </ul>
<b>Rotation</b>	<ul style="list-style-type: none"> <li>- Commonly grown as the first crop in the rotation or in a maize - fallow rotation. Note: this budget does not take into account maize stubble management</li> </ul>
<b>Varieties</b>	<ul style="list-style-type: none"> <li>- Variety is determined by contract and end use. Grit maize is used for cornflakes, cornchips and stockfeed. Waxy maize is used for starch products. High amylose maize is significantly lower yielding, but attracts higher prices. New varieties offer higher yield potential</li> </ul>
<b>Weed Control</b>	<ul style="list-style-type: none"> <li>- Application of s-metalachlor + Atrazine (Primextra Gold®) for the control of some grass and broadleaf weeds. Extra s-metalachlor (Dual Gold®) may be added to s-metalachlor + atrazine (Primextra Gold®) where barnyard grass infestations are heavy.</li> </ul>
<b>Insect Control</b>	<ul style="list-style-type: none"> <li>- Application of terbufos (Counter 150 G®) is for the control of wireworms. If control of armyworm or heliothis is warranted follow the Insecticide Resistance Management Strategy.</li> <li>- More damaging mite populations can develop as a consequence of early application of pyrethroid/carbamate insecticides. Due to poor target coverage heliothis is not normally sprayed.</li> </ul>
<b>Irrigation</b>	<ul style="list-style-type: none"> <li>- Schedule irrigations according to plant water use. Waterlogging increases nitrogen loss and reduces grain yields. Water stressed crops are more prone to disease infection i.e. fusarium, boil smut.</li> <li>- Water costs are the cost of pumping ground water (GW) with diesel engine in the MIA.</li> <li>- Cost of irrigation pumping and delivery varies significantly. Bore pumpers on diesel engines cost up to \$55.25/ML to pump and deliver, however river pumpers will be much less. The budget is based on the assumption of 25% water allocation. The GW costs are based on 2008-09 prices.</li> </ul>
<b>Drying</b>	<ul style="list-style-type: none"> <li>- May not be required on short to medium season hybrids if sown early. Drying costs are not included in this budget.</li> </ul>
<b>Capital Machinery</b>	<ul style="list-style-type: none"> <li>- Row cropping may require additional capital investment in equipment from \$2000 to \$20,000.</li> <li>- Machinery costs include variable costs only for the tractor and implements. Two tractors of 57 kW (77 HP) PTO and 66 kW (90 HP) engine; and of 141 kW (190 HP) PTO and 148 kW (225 HP) engine are assumed.</li> </ul>
<b>More information</b>	<ul style="list-style-type: none"> <li>- See Maize, Growth and Development, Procrop Publication, 'NSW Bookshop Phone'</li> <li>- Maize Association of Australia website <a href="http://www.maizeaustralia.com.au">www.maizeaustralia.com.au</a>.</li> </ul>

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