



RICE MEDIUM GRAIN (Sod Sown)

Farm Enterprise Budget Series - Murrumbidgee Valley

Summer 2011/2012

1. GROSS MARGIN BUDGET:

INCOME:

10.00 t/ha @ \$230.00 /t (on farm)

Standard Budget \$/ha	Your Budget \$/ha
\$2,300	

A. TOTAL INCOME \$/ha:

\$2,300	
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VARIABLE COSTS:

See following page for detail

Cultivation.....	\$1	
Sowing.....	\$71	
Fertiliser.....	\$229	
Herbicide.....	\$185	
Insecticide.....	\$0	
Aerial image.....	\$4	
Irrigation.....	\$173	
Levies & Insurance.....	\$68	
Harvest.....	\$264	
Cartage.....	\$120	
B. TOTAL VARIABLE COSTS \$/ha:	\$1,114	

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

\$1,186	
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D. GROSS MARGIN \$/ML:

\$91	
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SENSITIVITY TABLES

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

YIELD t/ha	On Farm Price				
	\$180 /t	\$205 /t	\$230 /t	\$255 /t	\$280 /t
7.00	\$283	\$455	\$627	\$799	\$971
8.50	\$488	\$697	\$906	\$1,115	\$1,324
10.00	\$694	\$940	\$1,186	\$1,431	\$1,677
11.50	\$899	\$1,182	\$1,465	\$1,748	\$2,030
13.00	\$1,105	\$1,424	\$1,744	\$2,064	\$2,383

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

YIELD t/ha	On Farm Price				
	\$180 /t	\$205 /t	\$230 /t	\$255 /t	\$280 /t
7.00	\$22	\$35	\$48	\$61	\$75
8.50	\$38	\$54	\$70	\$86	\$102
10.00	\$53	\$72	\$91	\$110	\$129
11.50	\$69	\$91	\$113	\$134	\$156
13.00	\$85	\$110	\$134	\$159	\$183

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CALENDAR OF OPERATIONS:		Machinery			Inputs			Total Cost	
Operation	Month	hrs/ha	Cost \$/hour	% of area	Total \$/ha	Rate/ha	Cost	Total \$/ha	Total Cost \$/ha
<i>Broadleaf & grass weed control eg: boom spray glyphosate 450</i>	Sep	0.05	41.38		\$2.23	1.00 L/ha	\$3.64/L	\$3.64	\$5.87
Reform banks		1.18	18.06	4%	\$0.85				\$0.85
Sow	Sep/Oct	0.28	46.71		\$13.08	170kg/ha	\$0.34/kg	\$57.80	\$70.88
Apply starter fertiliser eg: <i>DAP</i>		with above				70kg/ha	\$848.00/t	\$59.36	\$59.36
Grass weed control eg: <i>Cyhalofop (Barnstorm®)</i>		0.05	41.38		\$2.23	1.00 L/ha	\$90.04/L	\$90.04	\$92.27
<i>Grass weed control eg: molinate</i>		Drip				3.75 L/ha	\$23.25/L	\$87.19	\$87.19
Broadcast urea	Oct/Nov	0.10	18.61		\$1.77	80kg/ha	\$677.00/t	\$54.16	\$55.93
Aerial image	Dec				\$3.85				\$3.85
<i>Topdress nitrogen fertiliser eg: aerial topdress urea</i>	Jan	contract			\$29.00	125kg/ha	\$677.00/t	\$84.63	\$113.63
Harvest	Apr/May	contract				10.0 t/ha	\$25.00/t	\$250.00	\$250.00
Chaser bin		0.32	45.05		\$14.19				\$14.19
Irrigation*						13.0ML/ha	\$13.27/ML	\$172.51	\$172.51
Cartage						10.0 t/ha	\$12.00/t	\$120.00	\$120.00
Research levy (farm gate value)						10.0 t/ha	\$3.00/t	\$30.00	\$30.00
Crop insurance (estimated crop value)						\$2,300	1.65%	\$37.95	\$37.95

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

AGRONOMIC NOTES	See <i>RICECHECK Recommendations and Rice Crop Protection Guide 2011.</i>
Price	- Indications are that the medium grain price will be around \$230 per tonne for the C2012 pool. This budget is based on Reiziq. Costs may vary for other varieties.
Rotation	- This is the first crop following a 3 year sub clover pasture.
Varieties	- Reiziq is the standard medium grain variety. Other medium grain varieties include Quest and Sherpa for late October sowing. Sow varieties on time. (See <i>Choosing a Rice Variety for 2011 on the web</i>)
Weed Control	- Aim for a stable seed bed with knockdown herbicides - Barnyard Grass (> 5 leaf) may need to be controlled prior to molinate application. - Barnstorm® or Aura® (group A) can be used for grass control before permanent water - See <i>Rice Crop Protection Guide 2011</i> for application and outline of alternative herbicides. - The reliance on one mode of action e.g. Group A will lead to increased resistance. Always use an alternative mode of action with Group A herbicides.
Insect Control	The budget does not include an insecticide application. - In cooler seasons control of bloodworms and leaf miner may be required following permanent water. Carefully monitor mice populations as drill sown crops will be at risk of damage.
Pesticide Residues	- Drainage water containing pesticides must be retained on-farm for 28 days after application for the MIA and 21 days for the CIA.
Fertiliser	- A low pre-flood nitrogen rate is applied because of the clover history. - Conduct NIR tissue test at PI to verify urea topdressing requirement. - Total nitrogen rate depends on paddock history (ie: how good was the pasture) and seasonal conditions.
Aerial image	- An aerial image may be used at PI to help identify the factors influencing rice crop growth variability and crop yield. This image may then be used to target NIR sampling at PI. - Apply phosphorus where Colwell soil P is less than 20mg/kg.
Costs	- Sodsown rice has lower production costs; less nitrogen fertilizer and machinery use, compared to aerial sown rice.
Irrigation	- High yields require good water depth management. Aim for 20-25cm water depth at microspore. Crop water use varies with variety, seasonal conditions, soil type and depth of watertable. - The medium grain varieties (Amaroo, Quest, Jarrah) are more tolerant of salinity than long grain varieties (Langi, Doongara, Kyeema). There is some evidence that the medium grain varieties growing more sensitive varieties. - The MIA variable water costs are used in the budget. The budget is based on the assumption of 50% water allocation. For water costs in other irrigation districts or river pumpers, check Murrumbidgee irrigation web site. For water costs in the CIA, please go to the web site for the appropriate irrigation authority.
Machinery	- 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.
More information	- See Production of Quality Rice in South East Australia. Also Rice Crop Production Guide 2010, - Choose a Rice Variety for 2010, Ricecheck recommendation Guide 2010 and Using Groundwater for rice production, DPI NSW website

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