



RICE MEDIUM GRAIN (Sod Sown)

Farm Enterprise Budget Series - Murrumbidgee Valley

Summer 2009/2010

1. GROSS MARGIN BUDGET:

INCOME:

10.00 t/ha @ \$550.00 /t (on farm)

Standard Budget \$/ha	Your Budget \$/ha
\$5,500	

A. TOTAL INCOME \$/ha:

\$5,500	
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VARIABLE COSTS:

See following page for detail

Cultivation.....	\$2	
Sowing.....	\$93	
Fertiliser.....	\$199	
Herbicide.....	\$137	
Insecticide.....	\$0	
Aerial image.....	\$4	
Irrigation.....	\$207	
Levies & Insurance.....	\$91	
Harvest.....	\$264	
Cartage.....	\$115	
B. TOTAL VARIABLE COSTS \$/ha:	\$1,112	

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

\$4,388	
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D. GROSS MARGIN \$/ML:

\$338	
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SENSITIVITY TABLES

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

YIELD t/ha	On Farm Price				
	\$550 /t	\$550 /t	\$550 /t	\$550 /t	\$550 /t
7.00	\$2,875	\$2,875	\$2,875	\$2,875	\$2,875
8.50	\$3,632	\$3,632	\$3,632	\$3,632	\$3,632
10.00	\$4,388	\$4,388	\$4,388	\$4,388	\$4,388
11.50	\$5,145	\$5,145	\$5,145	\$5,145	\$5,145
13.00	\$5,902	\$5,902	\$5,902	\$5,902	\$5,902

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

YIELD t/ha	On Farm Price				
	\$550 /t	\$550 /t	\$550 /t	\$550 /t	\$550 /t
7.00	\$221	\$221	\$221	\$221	\$221
8.50	\$279	\$279	\$279	\$279	\$279
10.00	\$338	\$338	\$338	\$338	\$338
11.50	\$396	\$396	\$396	\$396	\$396
13.00	\$454	\$454	\$454	\$454	\$454

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CALENDAR OF OPERATIONS:		Machinery			Inputs			Total	
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	\$4.65/L	\$4.65	\$6.88
Reform banks		1.18	46.38	4%	\$2.18				\$2.18
Sow	Sep/Oct	0.28	46.71		\$13.08	170kg/ha	\$0.47/kg	\$79.90	\$92.98
Apply starter fertiliser eg: DAP		with above				70kg/ha	\$826.00/t	\$57.82	\$57.82
Grass weed control eg: paraquat, Barnstorm 250	Oct/Nov	with above				1.00 L/ha	\$8.35/L	\$8.35	\$8.35
Grass weed control eg: Cyhalofop (Barnstorm®)		0.05	41.38		\$2.23	1.00 L/ha	\$96.00/L	\$96.00	\$98.23
<i>Grass weed control eg: molinate</i>		Drip				3.75 L/ha	\$6.31/L	\$23.66	\$23.66
Broadcast urea	Oct/Nov	with above				80kg/ha	\$551.00/t	\$44.08	\$44.08
Aerial image	Dec				\$3.85				\$3.85
<i>Topdress nitrogen fertiliser eg: aerial topdress urea</i>	Jan	contract			\$28.00	125kg/ha	\$551.00/t	\$68.88	\$96.88
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	\$15.90/ML	\$206.70	\$206.70
Cartage						10.0 t/ha	\$11.50/t	\$115.00	\$115.00
Research levy (farm gate value)						10.0 t/ha	\$0.00/t	\$0.00	\$0.00
Crop insurance (estimated crop value)						\$5,500	1.65%	\$90.75	\$90.75

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 2009</i>
Price	- The prices of medium and long grain for 2009-10 are Sunrice premium pool contract prices for 65,000 tonnes. Tonnes grown above the the premium pool will probably be received at a lower price. on Amaroo. Costs may vary for other varieties.
Rotation	- This is the first crop following a 3 year sub clover pasture.
Varieties	- Amaroo and Reiziq are standard. Other medium grain varieties include Quest for late October sowing and Jarrah for November sowing. Sow varieties on time (See <i>Choosing a Rice Variety for 2007 on the web</i>)
Weed Control	- 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 2009</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 herbicide.
Insect Control	- In cooler seasons control of bloodworms and leaf miner may be required following permanent water.
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.
Aerial image	- Total nitrogen rate depends on paddock history (ie: how good was the pasture) and seasonal conditions. - 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.
Costs	- Apply phosphorus where Colwell soil P is less than 20mg/kg. - 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 MIA variable water costs are used in the budget. - The medium grain varieites (Amaroo, Quest, Jarrah) are more tolerant of salinity than long grain varieities (Langi, Doongara, Kyeema). There is some evidence that the medium grain varieities Reiziq and Illabong are more sensitive to salinity than the other medium grains. - It is suggested that growers monitor & very carefully manage water salinity levels if growing if growing more sensitive varieties. The budget is based on the assumption of 25% water allocation.
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, - Choose a Rice Variety, Ricecheck and Using Groudwater for rice production, DII NSW website

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