



RICE - MEDIUM GRAIN (aerial 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.....	\$19	
Sowing.....	\$107	
Fertiliser.....	\$296	
Herbicide.....	\$324	
Insecticide.....	\$4	
Irrigation.....	\$223	
Aerial image.....	\$4	
Levies & Insurance.....	\$91	
Harvest.....	\$264	
Cartage	\$115	
B. TOTAL VARIABLE COSTS \$/ha:	\$1,446	

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

\$4,054	
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D. GROSS MARGIN \$/ML:

\$290	
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SENSITIVITY TABLES

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

YIELD t/ha	On Farm Water Price				
	\$550 /t	\$550 /t	\$550 /t	\$550 /t	\$550 /t
7.00	\$2,431	\$2,431	\$2,431	\$2,431	\$2,431
8.50	\$3,243	\$3,243	\$3,243	\$3,243	\$3,243
10.00	\$4,054	\$4,054	\$4,054	\$4,054	\$4,054
11.50	\$4,866	\$4,866	\$4,866	\$4,866	\$4,866
13.00	\$5,677	\$5,677	\$5,677	\$5,677	\$5,677

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

YIELD t/ha	On Farm Price				
	\$550 /t	\$550 /t	\$550 /t	\$550 /t	\$550 /t
7.00	\$174	\$174	\$174	\$174	\$174
8.50	\$232	\$232	\$232	\$232	\$232
10.00	\$290	\$290	\$290	\$290	\$290
11.50	\$348	\$348	\$348	\$348	\$348
13.00	\$405	\$405	\$405	\$405	\$405

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CALENDAR OF OPERATIONS:		Machinery			Inputs			Total
Operation	Month	hrs/ha	Cost \$/hour	% of area	Total \$/ha	Rate/ha	Cost \$/ha	Total \$/ha
Chisel plough	Aug	0.22	48.80		\$10.89			\$10.89
Broadcast phosphorus fertiliser eg: <i>broadcast Superfect®</i>	Sept	0.10	16.61		\$1.58	125kg/ha	\$371.00/t	\$46.38
Apply nitrogen fertiliser eg: <i>drill urea</i>	Sep/Oct	0.28	46.71		\$13.08	250kg/ha	\$551.00/t	\$137.75
Reform banks	Sep/Oct	1.18	18.06	4%	\$0.85			\$0.85
Rolling	Sep/Oct	0.20	38.55		\$7.56			\$7.56
Grass weed control eg: <i>aerial spray molinate</i>	Oct	contract			\$25.00	1.50 L/ha	\$6.31/L	\$9.47
Aquatic weed control eg: <i>aerial spray benzofenap (Taipan®)</i>	Oct	with above				2.00 L/ha	\$54.59/L	\$109.18
Bloodworm control eg: <i>aerial spray chlorpyrifos</i>	Oct	with above				0.15 L/ha	\$20.91/L	\$3.14
Aerial sow	Oct	contract			\$36.00	150kg/ha	\$0.47/kg	\$70.50
Aquatic weed control eg: <i>aerial spray thiobencarb (Saturn®)</i>	Oct/Nov	contract			\$25.00	3.75kg/ha	\$21.35/kg	\$80.06
Bloodworm control eg: <i>aerial spray alpha cypermethrin (Dominex Duo®)</i>	Oct/Nov	with above				0.10 L/ha	\$12.80/L	\$1.28
Aquatic weed control eg: <i>aerial spray Basagran M60</i>	Nov/Dec	contract			\$27.00	2.50 L/ha	\$19.15/L	\$47.88
Aerial Image	Dec				\$3.85			\$3.85
Topdress Nitrogen fertiliser eg: <i>aerial topdress urea</i>	Jan	contract			\$28.00	125kg/ha	\$551.00/t	\$68.88
Harvest	Apr/May	contract				10.0 t/ha	\$25.00/t	\$250.00
Chaser bin		0.32	45.05		\$14.19			\$14.19
Irrigation*						14.0ML/ha	\$15.90/ML	\$222.60
Cartage						10.0 t/ha	\$11.50/t	\$115.00
Research levy (farm gate value)						10.0 t/ha	\$0.00	\$0.00
Crop insurance (estimated crop value)						\$5,500	1.65%	\$90.75

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AGRONOMIC NOTES	See <i>RICECHECK Recommendation s and Rice Crop Protection Guide 2009.</i> Note that average yield in the past 5 years for Amaroo in the MIA is 10t/ha.
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. This budget is based on Amaroo. Costs may vary for other varieties.
Varieties	- Amaroo and Reiziq are standard medium grain varieties. Other medium grain varieties include Quest for late October sowing, Jarrah for November sowing. Other medium grain varieties include Opus and Illabong.
Rotation	- This is the first crop following a winter cereal or previous rice crop.
Weed Control	- Herbicides used in the budget are based on the Taipan [®] with standard Saturn [®] & Molinate Primer program (program 3). Seek advice for using alternative programs and see the 'Rice Crop Protection Guide 2009". Sound weed management for aquatic weeds delays the build up of herbicide resistance. Management programs emphasise the importance of using 2 herbicides on each weed and/or rotating herbicides to avoid using the same herbicide in consecutive rice crops.
Insect Control	- Bloodworms are a major insect pest at establishment and should be controlled before or at sowing. Alpha cypermethrin (Dominex Duo [®]) and Fipronil (Cosmos [®]) seed dressing are alternatives to chlorpyrifos (See Rice Crop Protection Guide 2009). Other Pests: Ducks may need controlling, especially in the more western areas. Duck control is not included in this budget.
Pesticide Residues	- Drainage water containing pesticides must be retained on-farm for at least 28 days after application for MIA and 21 days for CIA.
Fertiliser	- Split apply urea to minimise risk of cold damage. Conduct NIR tissue test at PI to verify urea topdress requirement. Total nitrogen rate depends on paddock history and seasonal conditions. Apply phosphorus where Colwell soil P is less than 20mg/kg.
Aerial Image	- An aerial image should 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.
Sowing costs	- Aerial sown rice has a lower labour requirement than other sowing alternatives but consequently incurs higher application costs. The cost of dry broadcast sowing is \$70.20/ha at a sowing rate of 180kg/ha compared to \$93.53 in the aerial sown budget with 150 kg/ha seed rate.
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 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 Reiz and Illabong are more sensitive to salinity than the other medium grain varieties. It is suggested that growers monitor and very carefully manage water salinity levels if growing more sensitive varieties.
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 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 Groundwater for rice production, DII NSW website

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