



RICE - LONG GRAIN (aerial sown)

Farm Enterprise Budget Series - Murrumbidgee Valley

Summer 2009/2010

1. GROSS MARGIN BUDGET:

INCOME:

9.25 t/ha @ \$610.00 /t (on farm)

Standard Budget \$/ha	Your Budget \$/ha
\$5,643	

A. TOTAL INCOME \$/ha:

\$5,643	
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VARIABLE COSTS:

See following page for detail

Cultivation.....	\$19	
Sowing.....	\$114	
Fertilizer.....	\$296	
Herbicide.....	\$279	
Insecticide.....	\$4	
Aerial Image.....	\$4	
Irrigation.....	\$207	
Harvest.....	\$245	
Cartage.....	\$106	
Levies & Insurance.....	\$93	
B. TOTAL VARIABLE COSTS \$/ha:	\$1,368	

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

\$4,274	
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D. GROSS MARGIN \$/ML:

\$329	
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SENSITIVITY TABLES

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

YIELD t/ha	On Farm Price				
	\$610 /t	\$610 /t	\$610 /t	\$610 /t	\$610 /t
6.85	\$2,922	\$2,922	\$2,922	\$2,922	\$2,922
7.65	\$3,373	\$3,373	\$3,373	\$3,373	\$3,373
8.45	\$3,824	\$3,824	\$3,824	\$3,824	\$3,824
9.25	\$4,274	\$4,274	\$4,274	\$4,274	\$4,274
10.05	\$4,725	\$4,725	\$4,725	\$4,725	\$4,725
10.85	\$5,176	\$5,176	\$5,176	\$5,176	\$5,176
11.65	\$5,627	\$5,627	\$5,627	\$5,627	\$5,627

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

YIELD t/ha	On Farm Price				
	\$610 /t	\$610 /t	\$610 /t	\$610 /t	\$610 /t
6.85	\$225	\$225	\$225	\$225	\$225
7.65	\$259	\$259	\$259	\$259	\$259
8.45	\$294	\$294	\$294	\$294	\$294
9.25	\$329	\$329	\$329	\$329	\$329
10.05	\$363	\$363	\$363	\$363	\$363
10.85	\$398	\$398	\$398	\$398	\$398
11.65	\$433	\$433	\$433	\$433	\$433

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CALENDAR OF OPERATIONS:		Machinery			Inputs			Total Cost \$/ha	
Operation	Month	hrs/ha	Cost \$/hour	% of area	Total \$/ha	Rate/ha	Cost		Total \$/ha
Chisel plough	Aug	0.22	48.80		\$10.89				\$10.89
<i>Broadcast phosphorus fertiliser eg: broadcast Superfect®</i>	Sept	0.10	16.61		\$1.58	125kg/ha	\$371/t	\$46.38	\$47.96
<i>Apply nitrogen fertiliser eg: drill urea</i>	Sep/Oct	0.28	46.71		\$13.08	250kg/ha	\$551/t	\$137.75	\$150.83
Reform banks	Sep/Oct	1.18	18.06	4%	\$0.85				\$0.85
Rolling	Sep/Oct	0.20	38.55		\$7.56				\$7.56
<i>Grass weed control eg: aerial spray molinate</i>	Oct	contract			\$25.00	3.75 L/ha	\$18.75/L	\$70.31	\$95.31
	Oct	with above				2.00 L/ha	\$54.59/L	\$109.18	\$109.18
<i>Aquatic weed control eg: aerial spray Benzofenap (Taipan®)</i>		with above				0.15 L/ha	\$20.91/L	\$3.14	\$3.14
<i>Bloodworm control eg: aerial spray chlorpyrifos</i>		with above							
Sow	Oct	contract			\$36.00	150kg/ha	\$0.52/kg	\$78.00	\$114.00
<i>Bloodworm control eg: aerial alpha cypermethrin (Dominex Due®)</i>		with above				0.10 L/ha	\$12.80/L	\$1.28	\$1.28
<i>Aquatic weed control eg: aerial spray Basagran M60</i>	Nov/Dec	contract			\$27.00	2.50 L/ha	\$19.15/L	\$47.88	\$74.88
<i>Aerial image of crop</i>	Dec				\$3.85				\$3.85
<i>Topdress nitrogen fertiliser eg: aerial topdress urea</i>	January	contract			\$28.00	125kg/ha	\$551.00/t	\$68.88	\$96.88
Harvest	Mar/Apr/May	contract				9.25 t/ha	\$25.00/t	\$231.25	\$231.25
Chaser bin		0.32	45.05		\$14.19				\$14.19
Irrigation*						13.0ML/ha	\$15.90/ML	\$206.70	\$206.70
Cartage						9.25 t/ha	\$11.50/t	\$106.38	\$106.38
Research levy (farm gate value)						9.25 t/ha	\$0.00/t	\$0.00	\$0.00
Crop insurance (estimated crop value)						\$5,643	1.65%	\$93.10	\$93.10

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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. This budget is based on Langi. Inputs may vary for other varieties.
Rotation	- This is the first crop following a winter cereal or a previous rice crop.
Varieties	- Langi. Other long grain varieties required for year 2010 are Doongara (\$20-\$30 /t premium) and Kyeema (\$150/t premium) above medium grain prices.
Weed Control	- Sow varieties on time. Recommendations for <i>Choosing a Rice Variety 2 007 are on the web</i> - Herbicides used in the budget are based on program 1 in the 'Rice Crop protection Guide 2009'. Seek advice when using alternative programs and refer to 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. Alphacypermethrin (Dominex Duo®) and Fipronil (Cosmos®) seed dressing are alternatives to chlorpyrifos. The 'Rice Crop Protection Guide 2009' outlines the alternatives for bloodworm control.
Other Pests	- Ducks may also need to be controlled, 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 for the MIA and 21 days for the CIA.
Fertiliser	- Split apply urea to minimise risk of cold damage. Conduct NIR tissue test at PI to verify urea topdressing 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 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.
Sowing costs	- Aerial sown rice has a lower labour requirement than other sowing alternatives but consequently incurs higher application costs.
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 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 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 Eastern Australia.

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