



BARLEY: FEED/MALTING (Flood Irrigated - Border Check/Conv. Sown)
Irrigated Winter - 2012 Murrumbidgee Valley

1. GROSS MARGIN BUDGET:

INCOME:	Standard Budget \$/ha	Your Budget \$/ha
4.50 tonnes/ha @ \$150 /t (on farm, malt price)	\$675	
A. TOTAL INCOME \$/ha:	\$675	
VARIABLE COSTS:		
See following page for detail		
Cultivation.....	\$65	
Sowing.....	\$102	
Fertiliser.....	\$205	
Herbicide.....	\$39	
Contract harvesting.....	\$69	
Levies.....	\$14	
Crop insurance.....	\$15	
Irrigation.....	\$33	
B. TOTAL VARIABLE COSTS \$/ha:	\$542	
C. GROSS MARGIN (A-B) \$/ha:	\$133	
D. GROSS MARGIN \$/ML:	\$53	

SENSITIVITY TABLES

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

YIELD tonnes/ha	ON FARM PRICE (\$/tonne)				
	\$110 /t	\$130 /t	\$150 /t	\$170 /t	\$190 /t
3.00	-\$189	-\$131	-\$73	-\$15	\$43
3.50	-\$137	-\$69	-\$1	\$67	\$134
4.00	-\$88	-\$10	\$67	\$144	\$222
4.50	-\$41	\$46	\$133	\$220	\$307
5.00	\$5	\$102	\$199	\$295	\$392
5.50	\$52	\$158	\$264	\$371	\$477
6.00	\$98	\$214	\$330	\$446	\$562

← Gross Margin (\$/ha)

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

YIELD tonnes/ha	ON FARM PRICE (\$/tonne)				
	\$110 /t	\$130 /t	\$150 /t	\$170 /t	\$190 /t
3.00	-\$76	-\$52	-\$29	-\$6	\$17
3.50	-\$55	-\$28	\$0	\$27	\$54
4.00	-\$35	-\$4	\$27	\$58	\$89
4.50	-\$16	\$18	\$53	\$88	\$123
5.00	\$2	\$41	\$79	\$118	\$157
5.50	\$21	\$63	\$106	\$148	\$191
6.00	\$39	\$86	\$132	\$179	\$225

← Gross Margin (\$/ML)

This budget is ONLY A GUIDE and should be altered for movements in crop and input prices, changes in seasonal conditions and the farm characteristics.

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Murrumbidgee Valley

Irrigated Winter - 2012

CALENDAR OF OPERATIONS:		Machinery			Inputs			Total Cost
Operation	Month	hrs/ha	Cost \$/hour	Total \$/ha	Rate/ha	Cost \$	Total \$/ha	\$/ha
Rip Banks	Nov/Dec	0.22	\$48.80	\$10.89				\$10.89
Disc Plough	Dec/Jan	0.35	\$42.85	\$14.88				\$14.88
Landplane	Mar	0.17	\$45.05	\$7.71				\$7.71
Bank up		0.26	\$46.38	\$12.08				\$12.08
Scarify	Apr/May	0.17	\$45.05	\$7.71				\$7.71
Sow	Apr/May	0.17	\$62.38	\$10.48	90kg/ha	\$1.02/kg	\$91.80	\$102.28
Apply starter fertiliser <i>eg. DAP</i>		with above			125kg/ha	\$0.760/kg	\$95.00	\$95.00
Seed Dressing (<i>eg. Baytan®</i>)		with above			0.125kg/ha	\$35.30/kg	\$4.41	\$4.41
Trail drains		0.26	\$46.38	\$12.08				\$12.08
Grass weed control <i>eg. tralkoxydim, (Achieve®)</i>	Jun	contract		\$10.00	0.4kg/ha	\$60.60/kg	\$24.24	\$34.24
Topdress nitrogen fertiliser <i>eg. broadcast urea</i>	Jun/Jul	0.17	\$62.38	\$10.48	150kg/ha	\$0.662/kg	\$99.30	\$109.78
Contract harvest	Nov	contract		\$58.95				\$58.95
Chaser Bin		0.22	\$45.05	\$9.91				\$9.91
Irrigation					2.5ML/ha	\$13.27/ML	\$33.18	\$33.18
Crop Levies			\$1.50 /t	+	1.02% of on-farm value			\$13.60
Crop Insurance					2.280% of on-farm value			\$15.39

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AGRONOMIC NOTES:

Use of a particular brand name does NOT imply a recommendation of that brand by NSW DPI.

Always read chemical labels and follow directions carefully, as it is your legal responsibility to do so.

Cropcheck:	- Monitor and record crop performance. Key checks include establishment, weeds, insects, tiller numbers, disease and grain fill.
Rotation:	- This is the first crop following wheat after rice.
Varieties:	<ul style="list-style-type: none">- Check "Winter crop variety sowing guide 2012" for approved varieties for SNSW.- There are three main types of barley varieties; malt, food and feed grade.- For feed grain production consider Capstan or Oxford. For food grade consider Hindmarsh.Gardiner Fairview and Baudin are suitable for malt production on full irrigation. For partial irrigation consider Buloke and Commander.- There are a number of new barley varieties undergoing classification. New varieties may be available in limited release and include Bass, Navigator and Westminster.
Seed:	- Budgets based on seed at \$1,0200/t
Protein:	- Protein levels for malt should be between 9-12%, ideal protein 10.5%.
Fertiliser:	- For malt barley, nitrogen application and the spring irrigation need to be strategically applied to ensure grain meets protein specifications. High fertility paddocks usually produce grain protein too high for malt grade. High rates of nitrogen can optimise feed grain yields
Sowing Time:	- See NSW DPI "Winter crop variety sowing guide 2012" for recommended sowing time for each variety, generally May till mid June.
Weed Control:	<ul style="list-style-type: none">- Herbicides are boomsprayed in a dry year and aerial sprayed in a wet year.- An additional broadleaf herbicide may be required if wireweed or toadrush are a problem.- Refer to NSW DPI "Weed control in winter crops 2012" for alternative herbicides.
Seed Dressing:	- Required for control of seedling leaf diseases.
Irrigation:	<ul style="list-style-type: none">- Budget allows for a pre-irrigation (1.5ML) plus one spring irrigation (1ML).- Only pre-irrigating a proportion of intended winter crop area to reduce risk of waterlogging- Barley is the most susceptible winter cereal to waterlogging.- Irrigation cost includes the variable cost only.- Water costs used in the MIA budgets are based on 2011-12 prices.- For water costs in other areas, refer to the water prices section.
Machinery:	<ul style="list-style-type: none">- Machinery costs include variable costs only for the tractor, implements and header.- Contract harvesting does not include the cost of fuel.
Labour:	<ul style="list-style-type: none">- The labour required for machinery operations is 2.70 hr/ha.- Using a labour cost of \$22/hr, an additional \$59/ha can be deducted from the budget.
Economic note:	<ul style="list-style-type: none">- Prices are based on feed barley. These gross margins are only a guide.- They do not include overhead costs or GST.- Input and crop prices are correct at the time of writing (April 2012). Market uncertainty makes estimation of future pricing impractical.- Use your own figures and price assumptions to determine your own gross margin.