NSW GOVERNMENT Primary Industries

Barley: Short Fallow [No-till]

Central Zone - West

Winter 2012

1. GROSS MARGIN BUDGET:

				Malt Standard Budget $/ha	Feed Standard Budget $/ha	Your 2006 Budget $/ha
INCOME:						
Feed Barley	2.20 tonnes/ha @	$140.00	/tonne (on farm) (feed)		$308.00	
Malt Barley	1.90 tonnes/ha @	$180.00	/tonne (on farm) (malt)	$342.00		
		A. TOTAL INCOME $/ha:		**$342.00**	**$308.00**	
VARIABLE COSTS:						
See opposite page for detail						
		Sowing		$49.70	$49.70	
		Fertiliser		$61.80	$61.80	
		Herbicide		$80.05	$80.05	
		Insecticide		$0.00	$0.00	
		Contract-harvesting		$48.00	$48.00	
		Levies		$6.32	$6.43	
		Crop Insurance		$3.51	$3.16	
		Cartage, grading & bagging		$0.00	$0.00	
		B. TOTAL VARIABLE COSTS $/ha:		**$249.39**	**$249.14**	
		C. GROSS MARGIN (A-B) $/ha:		**$92.61**	**$58.86**	

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

Malt Barley

YIELD tonnes/ha	ON FARM PRICE ($/tonne) $140 /t	$160 /t	**$180 /t**	$200 /t	$220 /t
1.40	- $50	- $22	$5	$33	$60
1.60	- $23	$9	$40	$72	$103
1.80	$5	$40	$75	$110	$146
1.90	$18	$55	**$93**	$130	$167 ←
2.20	$59	$102	$145	$188	$231
2.40	$86	$133	$180	$227	$274
2.60	$112	$163	$214	$265	$316

Gross Margin ($/ha)

Feed Barley

YIELD tonnes/ha	ON FARM PRICE ($/tonne) $100 /t	$120 /t	**$140 /t**	$160 /t	$180 /t
1.70	- $76	- $42	- $9	$24	$58
1.90	- $56	- $19	$18	$55	$93
2.10	- $37	$4	$45	$86	$128
2.20	- $27	$16	**$59**	$102	$145 ←
2.50	$2	$51	$100	$149	$198
2.70	$18	$71	$124	$177	$230
2.90	$35	$92	$149	$206	$263

Gross Margin ($/ha)

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CALENDAR OF OPERATIONS:

Operation	Month	Machinery hrs /ha	Machinery Cost $/hour	Machinery Total $/ha	Inputs rate/ha	Inputs Cost $	Inputs Total $/ha	Total Cost $/ha
Weed control eg: glyphosate 540 g/L (Roundup PowerMAX®)	Dec/Jan	0.03	76.36	**$2.50**	1.20 L	$8.67/L	**$10.40**	**$12.90**
Weed control eg: triclopyr 600 g/L (Garlon®)	Dec/Jan	with above			0.10 L	$19.60/L	**$1.96**	**$1.96**
Weed control eg: glyphosate 540 g/L (Roundup PowerMAX®)	Feb/Mar	0.03	76.36	**$2.50**	1.20 L	$8.67/L	**$10.40**	**$12.90**
Weed control eg: 2,4-D amine 300 g/L (Surpass®)	Feb/Mar	with above			1.00 L	$3.80/L	**$3.80**	**$3.80**
Sowing seed	May	0.12	104.36	**$12.22**	35 kg	$1.07/kg	**$37.49**	**$49.70**
Starter fertiliser eg: MAP	May	with above			60 kg	$1.03/kg	**$61.80**	**$61.80**
Grass weed control eg: diclofop+fenoxaprop (Tristar® Advance)	Jul	0.03	76.36	**$2.50**	1.50 L	$26.00/L	**$39.00**	**$41.50**
Broadleaf weed control eg: MCPA LVE 500 g/L (MCPA LVE®)	Jul	with above			0.70 L	$10.00/L	**$7.00**	**$7.00**
Contract-harvest	Nov	contract		**$48.00**				**$48.00**
Crop Levies - 2 row feed						1.02% of on-farm value		**$6.43**
Crop Levies - malt						1.02% of on-farm value		**$6.32**
Crop Insurance - 2 row feed					1.03%	of on-farm value		**$3.16**
Crop Insurance - malt					1.03%	of on-farm value		**$3.51**

*** Input and crop prices are correct at the time of writing (March 2012). Market uncertainty makes estimation of future pricing impractical.

NOTES:

Sowing time:
- Sowing at the optimum time for the selected variety is critical for maximum yield.
- Seed price used above is for purchased seed; if using retained seed adjust budget accordingly.

Place in rotation:
- Barley is a useful crop to follow wheat in the rotation.
- Barley will respond to good soil fertility, however it is better adapted to lower nitrogen fertility situations than wheat.
- Select lower nitrogen paddocks for malting barley.
- Tulla & Yambla are more tolerant to acid soils.
- Barley is a useful break crop where root lesion nematode is a problem, but check the varieties tolerance rating.
- Short Fallow: Fallow or weed free period of 5-6 months between harvest of one crop and sowing of the next crop. For example, canola harvested in November would be under a 5-6 month fallow until sowing in the following May.

Variety:
- Feed varieties will usually yield more than a standard malting variety.

Weed control:
- Timing of fallow herbicide applications will vary according to rainfall.
- Barley is generally more competitive than wheat in relation to weeds.
- An additional knockdown herbicide application (i.e. glyphosate 540 g/L @1.0 L/ha) should be considered if weeds are present at the time of sowing.
- Rotate herbicide groups and use other non-chemical methods to delay herbicide resistance.

Machinery:
- A tractor with 196 kW (263 HP) pto power and 242kW (325 HP) engine power is assumed.
- Machinery costs refer only to variable costs: fuel, oil, filters, tyres, batteries & repairs.
- Contract-harvesting does not include the cost of fuel.

Labour:
- The labour required for machinery operations is 0.23 hr/ha

Important notes:
- These gross margins are only a guide. They do not include overhead costs.
- **Use your own figures and price assumptions to estimate your own gross margin.**
- Use of a particular brand name does NOT imply a recommendation of that brand by NSW DPI.