Barley: Short Fallow (No-till)

Central Zone - East

Winter 2012

1. GROSS MARGIN BUDGET:

					Malt Standard Budget $/ha	2 Row Feed Standard Budget $/ha	Your Budget $/ha
INCOME:							
2 Row Feed	4.20	tonnes/ha @	$150.00	/tonne (on farm) (feed)		$630.00	
Malt	4.20	tonnes/ha @	$180.00	/tonne (on farm) (malt)	$756.00		
		A. TOTAL INCOME $/ha:			**$756.00**	**$630.00**	
VARIABLE COSTS:							
See opposite page for detail							
		Sowing			$66.05	$66.05	
		Fertiliser			$164.50	$164.50	
		Herbicide			$71.92	$71.92	
		Insecticide			$0.00	$0.00	
		Contract-harvesting			$68.40	$68.40	
		Levies			$13.97	$12.69	
		Crop Insurance			$15.50	$12.92	
		Cartage, grading & bagging			$0.00	$0.00	
		B. TOTAL VARIABLE COSTS $/ha:			**$400.35**	**$396.48**	
		C. GROSS MARGIN (A-B) $/ha:			**$355.65**	**$233.52**	

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
2.70	$9	$62	$114	$167	$219
3.20	$71	$133	$195	$257	$319
3.70	$132	$203	$275	$347	$419
4.20	$193	$274	**$356**	$437	$519
4.70	$254	$345	$436	$527	$618
5.20	$315	$416	$517	$617	$718
5.70	$376	$487	$597	$708	$818
6.20	$437	$557	$678	$798	$918

Gross Margin ($/ha)

2 Row Feed Barley

YIELD tonnes/ha	ON FARM PRICE ($/tonne) $110 /t	$130 /t	**$150 /t**	$170 /t	$190 /t
2.70	-$69	-$17	$36	$88	$140
3.20	-$22	$40	$102	$164	$226
3.70	$24	$96	$168	$239	$311
4.20	$71	$152	**$234**	$315	$396
4.70	$117	$208	$299	$391	$482
5.20	$164	$265	$365	$466	$567
5.70	$210	$321	$431	$542	$652
6.20	$257	$377	$497	$618	$738

Gross Margin ($/ha)

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CALENDAR OF OPERATIONS:

Operation	Month	Machinery hr/ha	Machinery Cost $/hour	Machinery Total $/ha	Inputs rate/ha	Inputs Cost $	Inputs Total $/ha	Total Cost $/ha
Weed control eg: glyphosate 450 g/L (Roundup CT®)	Jan	0.05	53.40	**$2.88**	1.20 L	$4.68/L	**$5.62**	**$8.49**
Wetter eg. alkoxylated alcohol 1000 g/L (BS 1000®)	Jan	with above			0.20 L	$7.00/L	**$1.40**	**$1.40**
Weed control eg: triclopyr 600 g/L (Garlon®)	Jan	with above			0.08 L	$19.60/L	**$1.57**	**$1.57**
Weed control eg: glyphosate 450 g/L (Roundup CT®)	Mar	0.05	53.40	**$2.88**	1.00 L	$4.68/L	**$4.68**	**$7.56**
Wetter eg. alkoxylated alcohol 1000 g/L (BS 1000®)	Mar	with above			0.20 L	$7.00/L	**$1.40**	**$1.40**
Weed control eg: 2,4-D amine 300 g/L (Surpass®)	Mar	with above			1.00 L	$3.80/L	**$3.80**	**$3.80**
Weed control eg: glyphosate 450 g/L (Roundup CT®)	Mar	0.05	53.40	**$2.88**	0.80 L	$4.68/L	**$3.74**	**$6.62**
Wetter eg. alkoxylated alcohol 1000 g/L (BS 1000®)	May	with above			0.20 L	$7.00/L	**$1.40**	**$1.40**
Nitrogen fertiliser eg: Urea	May	0.17	74.40	**$12.50**	70 kg	$0.70/kg	**$49.00**	**$61.50**
Sowing	May	0.17	74.40	**$12.50**	50 kg	$1.07/kg	**$53.55**	**$66.05**
Grass weed control eg: Tristar®Advance clodinafop-propargyl + fenoxaprop p-ethyl	May	with above			0.05 kg	$130.00/kg	**$6.500**	**$6.50**
Wetter eg. alkoxylated alcohol 1000 g/L (BS 1000®)	May	with above			0.20 L	$7.00/L	**$1.40**	**$1.40**
Starter fertiliser eg: MAP	May	with above			100 kg	$1.03/kg	**$103.00**	**$103.00**
Grass weed control eg: diclofop-methyl 500 g/L (Hoegrass®)	Jun	0.05	53.40	**$2.88**	1.00 L	$21.50/L	**$21.50**	**$24.38**
Wetter eg. alkoxylated alcohol 1000 g/L (BS 1000®)	Jun	with above			0.20 L	$7.00/L	**$1.40**	**$1.40**
Broadleaf weed control eg: LVE Agritone® 500g/L	Jun	with above			0.60 L	$10.00/L	**$6.00**	**$6.00**
Contract-harvest	Nov	contract		**$68.40**				**$68.40**
Crop Levies - 2 row feed					$1.50/tonne + 1.015% of on-farm value			**$12.69**
Crop Levies - malt					$1.50/tonne + 1.015% of on-farm value			**$13.97**
Crop Insurance - 2 row feed					2.05%	of on-farm value		**$12.92**
Crop Insurance - malt					2.05%	of on-farm value		**$15.50**

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

NOTES:

Place in rotation:
- Barley is a useful crop to follow wheat in the rotation as it does not host the same leaf diseases.
- Barley will respond to good soil fertility, however it is better adapted to lower nitrogen fertility situations than wheat. Barley is more sensitive to acid soils than other cereals.
- Tulla and Yambla have some tolerance to acid soils.
- Select lower nitrogen fertility paddocks for malting barley (less than 80-100 kg mineral soil N/ha at planting)
- Barley is a useful break crop where root lesion nematode are a problem.
- Short Fallow: Fallow or weed-free period of 5-6 months between harvest of one crop and sowing of the next crop. For example, a paddock harvested in November would create a 5-6 month fallow until sowing in May.

Sowing time:
- Ideally late April to June. However, barley is more adapted to late plantings than wheat.
- Seed price used above is for purchased seed; if using retained seed adjust budget accordingly.

Fertiliser:
- Moderate nitrogen rates can be applied to barley without greatly affecting the malting quality.

Variety:
- Obtain advice from district agronomist or see Winter Crop Variety Sowing Guide-2012

Weed control:
- There are a wide range of herbicide combinations which can be used. Seed rates and row spacing also affect weed growth.
- Rotate herbicide groups and use other non-chemical methods to avoid herbicide resistance.

Machinery:
- A tractor with 153 kW (181 HP) pto power and 166 kW (225 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:
- Using a labour cost of $22/hr, an additional $15.17 can be deducted from the budget

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.