



## DRYLAND MUNGBEANS (No-till, Double-crop)

Farm Enterprise Budget Series - North-East NSW

Summer 2012-2013

### 1. GROSS MARGIN BUDGET:

#### INCOME:

<b>Yield</b>	1.20 tonnes/ha	
1.06 tonnes/ha at	\$850.00 /tonne (clean seed, processing grade).....	\$897.60
0.14 tonnes/ha at	\$160.00 /tonne (gradings).....	\$23.04

Sample Budget \$/ha	Your Budget \$/ha
\$897.60	
\$23.04	

Crop prices were correct at the time of writing (Aug 2012), world market volatility makes estimation of future pricing impractical.

A grading percentage of 12% is assumed, but it will vary according to crop and harvest conditions.

**A. TOTAL INCOME \$/ha:**

**\$920.64**

#### VARIABLE COSTS:

see following page(s) for details

Sowing.....	\$66.07	
Fertiliser & application.....	\$50.50	
Herbicide & application.....	\$40.87	
Insecticide & application.....	\$35.86	
harvesting.....	\$76.24	
Levies and insurance.....	\$49.35	
Grading & bagging.....	\$108.00	

**B. TOTAL VARIABLE COSTS \$/ha:**

**\$426.89**

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

**\$493.75**

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

#### SENSITIVITY TABLE

YIELD t/ha		Price					
gradings		\$140 /t	\$150 /t	\$160 /t	\$170 /t	\$180 /t	\$190 /t
	clean seed	\$750 /t	\$800 /t	<b>\$850 /t</b>	\$900 /t	\$950 /t	\$1,000 /t
0.08	0.62	\$96	\$128	<b>\$159</b>	\$190	\$222	\$253
0.11	0.79	\$212	\$253	\$293	\$333	\$373	\$414
0.13	0.92	\$299	\$346	\$393	\$440	\$487	\$534
<b>0.14</b>	<b>1.06</b>	\$386	\$440	<b>\$494</b>	\$547	\$601	\$655
0.17	1.23	\$502	\$565	\$628	\$690	\$753	\$816
0.19	1.41	\$618	\$690	\$762	\$833	\$905	\$976
0.20	1.50	\$676	\$752	<b>\$828</b>	\$904	\$981	\$1,057

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CALENDAR OF OPERATIONS:		Machinery			Inputs			Total
Operation	Month	hrs /ha	Cost	Total	Rate/ha	Cost	Total	Cost \$/ha
			\$/hour	\$/ha		\$	\$/ha	
harvest winter cereal crop	Nov							
Herbicide - ground spray, 450 g/L gl	Nov	0.05	51.87	2.59	1.6 L	4.50	7.20	<b>9.79</b>
Wetter - non-ionic surfactant		with above			0.2 L	6.72	1.34	<b>1.34</b>
Sowing: Seed + inoculum	Dec	0.20	67.87	13.57	25 kg	2.10	52.50	<b>66.07</b>
Fertiliser - Granulock SuPreme Z	Dec	with above			50 kg	1.01	50.50	<b>50.50</b>
Herbicide - haloxyfop-R 520 g/L	Jan	0.05	51.87	2.59	0.15 L	57.07	8.56	<b>11.15</b>
Uptake oil	Jan	with above			0.50 L	6.97	3.49	<b>3.49</b>
Crop insurance **	Jan			4.34%				<b>39.96</b>
Insecticide - indoxacarb	Jan	0.05	51.87	2.59	0.4 L	69.15	27.66	<b>30.25</b>
Insecticide - alpha cypermethrin 100	Feb	0.05	51.87	2.59	0.4 L	7.54	3.02	<b>5.61</b>
Desiccant- Roundup Attack™ 570 g	Mar	0.05	51.87	2.59	1.6 L	7.81	12.50	<b>15.09</b>
harvest	Mar	contract		76.24	per ha incl fuel			<b>76.24</b>
Grains Research Levy				1.02%	of farm gate value			<b>9.39</b>
Grading & bagging	May	contract		\$90 /t				<b>108.00</b>

### AGRONOMIC NOTES:

Mungbeans can be an ideal opportunity double crop following winter cereals. Soil moisture profiles must be replenished if satisfactory yields of high quality beans are to be produced. Best suited to loam and heavier soils.

**Weeds:** Select a paddock free of broadleaf weeds. Good weed control is essential. To reduce the likelihood of herbicide resistance, rotate herbicide groups and weed management techniques. Ensure weed escapes are controlled before they can set seed.

**Pests:** Closely monitor crops for thrips, mirids (from pre-budding and flowering), heliothis and green vegetable bug.

**Fertiliser:** If applying phosphate fertiliser, use a fertiliser that contains good levels of sulfur as well, e.g. single superphosphate. Fertiliser requirements should be based on paddock records and soil tests.

**Desiccation:** Usually required to even up crop maturity across a paddock and to prevent additional flowering.

**Harvest:** Use air assist headers to reduce losses at harvest. Harvest costs based on \$70/ha for a crop up to 2.5 t/ha. Communicate with your buyer throughout the season and have storage options available.

**Insurance:** \*\* Varies with Local Government Area and postcode, check with your insurer.

*For further information, refer to the NSW DPI Agfact, "Mungbeans" P4.2.19 and the NSW DPI "Summer Crop Production Guide 2012-13", "Mungbean management guide 2011"*

*[http://www.daff.qld.gov.au/26\\_19754.htm](http://www.daff.qld.gov.au/26_19754.htm) and the Australian Mungbean Association*

*<http://www.mungbean.org.au/>*

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

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

**PRICE:** - The price given is for processing grade mungbeans at the time of writing.

**Consult marketing sources for more up to date price information.**

**LABOUR REQUIREMENTS:** - labour is not costed in this budget. If labour costs \$21.70 /hr, total labour cost would be \$10.85, reducing the gross margin to \$483 /ha.

### MACHINERY ASSUMPTIONS:

Tractor: 130-140 KW PTO (173-180 HP)

Machinery costs refer to variable costs of: fuel, oil, filters, tyres, batteries and repairs.

You may need to add overhead costs as well, please refer to the Tractor and Implement Costs Guide

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