



SOYBEANS (edible) - ROWS/BEDS

Farm Enterprise Budget Series - Murrumbidgee Valley

Summer 2009/2010

1. GROSS MARGIN BUDGET:

INCOME:

3.75 t/ha @ 700 /t (on farm; edible price)

Standard Budget \$/ha	Your Budget \$/ha
\$2,625	

A. TOTAL INCOME \$/ha:

\$2,625	
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VARIABLE COSTS:

See following page for detail

Cultivation.....	\$34	
Sowing.....	\$115	
Fertilizer.....	\$69	
Herbicide.....	\$71	
Insecticide.....	\$82	
Irrigation.....	\$127	
Harvest.....	\$99	
Levies & Insurance.....	\$97	

B. TOTAL VARIABLE COSTS \$/ha:

\$694	
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C. GROSS MARGIN (A-B) \$/ha:

\$1,931	
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D. GROSS MARGIN \$/ML:

\$241	
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SENSITIVITY TABLES

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

YIELD t/ha	On Farm Price				
	\$660 /t	\$680 /t	\$700 /t	\$720 /t	\$740 /t
2.25	\$833	\$877	\$920	\$963	\$1,007
3.00	\$1,310	\$1,368	\$1,426	\$1,483	\$1,541
3.75	\$1,787	\$1,859	\$1,931	\$2,004	\$2,076
4.50	\$2,264	\$2,350	\$2,437	\$2,524	\$2,610
5.25	\$2,740	\$2,842	\$2,943	\$3,044	\$3,145

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

YIELD t/ha	On Farm Price				
	\$660 /t	\$680 /t	\$700 /t	\$720 /t	\$740 /t
2.25	\$104	\$110	\$115	\$120	\$126
3.00	\$164	\$171	\$178	\$185	\$193
3.75	\$223	\$232	\$241	\$250	\$259
4.50	\$283	\$294	\$305	\$315	\$326
5.25	\$343	\$355	\$368	\$380	\$393

SOYBEANS (edible) - ROWS/BEDS

(Fallow crop)

Summer 2009/2010

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CALENDAR OF OPERATIONS:		Machinery			Inputs			Total	
Operation	Month	hrs/ha	Cost \$/hour	% of area	Total \$/ha	Rate/ha	Cost	Total \$/ha	Total Cost \$/ha
Deep rip	Feb	0.22	35.06		\$7.83				\$7.83
Bed up		0.26	32.56		\$8.48				\$8.48
<i>Apply phosphorus fertiliser eg:</i>	Sep	0.14	38.80		\$5.39	150kg/ha	\$375/t	\$56.25	\$61.64
<i>grain legume super or sulfos</i>									
<i>Apply molybdenum fertiliser eg:</i>				with above		0.125kg/ha	\$62.00/kg	\$7.75	\$7.75
<i>sodium molybdate</i>									
Prewater & spray glyphosate	Oct/Nov	0.05	31.23		\$1.68	1.20 L/ha	\$4.65/L	\$5.58	\$7.26
Incorporate / or Shape beds		0.26	32.56		\$8.48				\$8.48
Sow	Nov/Early Dec	0.14	38.80		\$5.39	84kg/ha	\$1.20/kg	\$100.80	\$106.19
Seed inoculation				with above		84kg/ha	\$0.10/kg	\$8.40	\$8.40
Inter row cultivate	Dec/Jan	0.17	51.89		\$8.72				\$8.72
<i>Control grass & broadleaf weeds</i>	Dec/Jan	0.05	42.58		\$2.29	0.14kg/ha	\$440/kg	\$61.60	\$63.89
<i>eg: boom sprayer imazethapyr</i>									
<i>(Spinnaker 700WDG[®] ; 1 yr in 2)</i>									
<i>Heliothis control eg: aerial spray</i>	Feb			contract	\$21.00	0.40 L/ha	\$67.00/L	\$26.80	\$47.80
<i>(Steward[®])</i>									
<i>Heliothis and GVB control eg:</i>	Feb/Mar			contract	\$21.00	0.50 L/ha	\$27.00/L	\$13.50	\$34.50
<i>aerial spray deltamethrin (Decis</i>									
<i>options[®])</i>									
Harvest	Apr/May			contract	\$88.00				\$88.00
Chaser bin		0.32	34.56		\$10.89				\$10.89
Irrigation*						8.0ML/ha	\$15.90/ML	\$127.20	\$127.20
Research levy (farm gate value)						\$2,625	1.00%	\$26.25	\$26.25
Crop insurance (estimated crop value)						\$2,625	2.68%	\$70.35	\$70.35

The budget is ONLY A GUIDE and should be altered for movements in crop and input prices, changes in seasonal conditions and the farm characteristics. Estimated prices are GST - exclusive

AGRONOMIC NOTES:	See <i>Summer Crop Guide 2009-10 DII NSW</i>
Prices	- Prices are estimated and GST-exclusive. - For higher quality grain, price could be upto or beyond \$1100/tonne.
Rotation	- Commonly the first crop after a rice fallow grown on hills or raised beds. - Keeping a weed free fallow over winter will help reduce water use when pre-watering
Varieties & Marketing	- Human consumption: Djakal and Snowy. Budget prices are for human consumption Higher value (niche) markets may also exist.
Weed Control	- Trifluralin is applied for barnyard grass control. Broadleaf weed control may be needed depending on paddock history and crop end use. Inter row spraying with non-selective herbicide is a cost effective way to control weeds post emergence. Banding a selective herbicide on the plant row will reduce costs significantly.
Disease Control	- Crop rotation will assist in disease control. If growing more than two consecutive soybean crops, diseases should be closely monitored. eg. Sclerotinia and rhizoctonia. Growing soybeans in rotation with fababeans and canola increases disease risk.
Insect Control	- Deltamethrin (Decis Options) and thiodicarb (Larvin [®]) are used in the budget. Seek advice on alternatives. The level of resistance in heliothis caterpillars will require more attention to pest monitoring, spray timing and the use of alternative chemistry including softer biological insecticides. Follow the Insecticide Resistance Management Strategy. Planting into canola stubble may increase spray frequency and disease risk and consequent pest problems. Damaging mite populations can develop as a consequence of early application of pyrethroid/carbamate insecticides.
Pesticide Residues	- Drainage water containing pesticides must be retained on-farm for at least 28 days after application.
Fertiliser	- Molybdenum is required for successful nodulation of soybeans. Plant in low N paddocks
Irrigation	- Schedule irrigations according to plant water use. *The MIA variable water costs are used in the budget. The budget is based on 25% of water allocations. for costs in other areas and districts, refer to the water costs section.
Drying	- Drying may be required in wet autumn or late harvest that involve an additional cost of \$15/tonne of drying costs.
Capital	- Row cropping may require additional \$2,000-\$20,000 in equipment capital investment. Contractors are commonly used.
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	- Australian Oilseeds Federation website

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