



Chickpeas: Short Fallow (No-till) Central Zone - West

Winter 2009

1. GROSS MARGIN BUDGET:

INCOME:

1.20 tonnes/ha @ \$450.00 /tonne (on farm)

A. TOTAL INCOME \$/ha:

VARIABLE COSTS:

See opposite page for detail

	No-Till Standard Budget \$/Ha	Your Budget \$/Ha
	\$540.00	
A. TOTAL INCOME \$/ha:	\$540.00	
Sowing.....	\$92.77	
Fertiliser.....	\$78.00	
Herbicide.....	\$112.05	
Fungicide.....	\$38.49	
Insecticide.....	\$21.30	
Contract-harvesting.....	\$50.00	
Levies.....	\$5.48	
Crop Insurance.....	\$6.92	
Cartage, grading & bagging.....	\$0.00	
B. TOTAL VARIABLE COSTS \$/ha:	\$405.00	
C. GROSS MARGIN (A-B) \$/ha:	\$135.00	

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

No-Till

YIELD tonnes/ha	ON FARM PRICE (\$/tonne)					Gross Margin (\$/ha)
	\$350 /t	\$400 /t	\$450 /t	\$500 /t	\$550 /t	
0.60	- \$187	- \$158	- \$129	- \$99	- \$70	
0.80	- \$119	- \$80	- \$41	- \$2	\$37	
1.00	- \$51	- \$2	\$47	\$96	\$145	
1.20	\$18	\$76	\$135	\$194	\$252	←
1.40	\$86	\$155	\$223	\$291	\$360	
1.80	\$223	\$311	\$399	\$487	\$575	
2.00	\$291	\$389	\$487	\$584	\$682	

PRODUCT TRADE NAMES

The product trade names in this publication are supplied on the understanding that no preference between equivalent products is intended and that the inclusion of a product does not imply endorsement by NSW Department of Primary Industries over any other equivalent product from another manufacturer.

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CALENDAR OF OPERATIONS:

Operation	Month	Machinery			Inputs			Total Cost \$/ha
		hrs /ha	Cost	Total	Rate/ha	Cost	Total	
			\$/hour	\$/ha		\$	\$/ha	
Weed control eg: glyphosate 450 g/litre	Dec/Jan	0.03	79.73	\$2.61	1.20 L	\$7.38/L	\$8.85	\$11.46
Weed control eg: Garlon®	Dec/Jan	with above			0.10 L	\$29.93/L	\$2.99	\$2.99
Weed control eg: glyphosate 450 g/litre	Feb/Mar	0.03	79.73	\$2.61	1.20 L	\$7.38/L	\$8.85	\$11.46
Broadleaf weed control eg: 2,4-D amine 300g/L (Surpass®)	Feb/Mar	with above			1.20 L	\$6.22/L	\$7.46	\$7.46
Sowing	May	0.12	107.73	\$12.62	70 kg	\$1.15/kg	\$80.15	\$92.77
Phosphorus fertiliser eg: MAP	May	with above			80 kg	\$0.98/kg	\$78.00	\$78.00
Weed control eg: Simazine®	May	0.03	79.73	\$2.61	1.50 L	\$9.60/L	\$14.40	\$17.01
Broadleaf weed control eg: Balance®	May	with above			50 g	\$0.34/g	\$16.88	\$16.88
Post emergent grass weed control eg: Verdict®	Jul	0.03	79.73	\$2.61	0.05 L	\$96.88/L	\$4.84	\$7.45
Disease control eg: Mancozeb ®	Aug	0.03	56.03	\$1.83	1.00 kg	\$11.00/L	\$11.00	\$12.83
Disease control eg: Mancozeb ®	Sep	0.03	56.03	\$1.83	1.00 kg	\$11.00/L	\$11.00	\$12.83
Disease control eg: Mancozeb ®	Oct	0.03	56.03	\$1.83	1.00 kg	\$11.00/L	\$11.00	\$12.83
Heliathis control eg: Fastac Duo®	Oct	contract		\$18.15	0.30 L	\$10.50/L	\$3.15	\$21.30
Pre-harvest desiccation eg: Glyphosate 540 (Roundup PowerMax®)	Nov	contract		\$18.15	1.80 L	\$10.67/L	\$19.20	\$37.35
Contract-harvest	Nov			\$50.00				\$50.00
Crop Levies					1.02%	of on-farm value		\$5.48
Crop Insurance					1.28%	of on-farm value		\$6.92

*** Input and crop prices are correct at the time of writing (March 2009). Market uncertainty makes estimation of future pricing impractical.

NOTES:

Soil:	- Must be grown on the better loam, clay loam and heavy self-mulching clay soils with good water holding capacity. - All soils must be well drained.
Place in rotation	- Useful as a break crop later in cereal rotations for disease control, weed control and nitrogen benefits for following cereal crops. - Ideally should be no-tilled into cereal stubbles using wider row spacings of 30 to 50 cm. - Short Fallow: Fallow or weed free period of 5-6 months between harvest of one crop and sowing of the next crop. For example, wheat harvested in November would be under a 5-6 month fallow until sowing in the next May.
Seed:	- Seed price used above is for purchased seed; if using retained seed adjust budget accordingly.
Inoculation:	- With Group N inoculum is essential.
Weed control:	- Numerous grass weed control options are available. - Weed control is critical and a pre-emergent broadleaf herbicide is preferable. - An additional knockdown herbicide application (i.e. Glyphosate 450® @ 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.
Fertiliser:	- Adequate levels of phosphorus and sulfur should be applied.
Fungicide:	- Fungicide program required to control the disease Ascochyta in older varieties. crops or crop residues for feed.
Insect control:	- Heliathis must be monitored from flowering through podding.
Machinery:	- A tractor with 203 kW (272 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:	- Using a labour cost of \$14/hr, an additional \$2.62 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 Department of Primary Industries.