

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

Winter 2012

1. GROSS MARGIN BUDGET:

		No-Till Standard Budget \$/ha	Your Budget \$/ha
INCOME:			
1.60 tonnes/ha @	\$440.00 /tonne (on farm)	\$704.00	
A. TOTAL INCOME \$/ha:		\$704.00	
VARIABLE COSTS:			
See opposite page for detail			
Sowing.....		\$136.22	
Fertiliser.....		\$103.00	
Herbicide.....		\$119.89	
Fungicide.....		\$55.01	
Insecticide.....		\$2.42	
Contract-harvesting.....		\$50.00	
Levies.....		\$7.15	
Crop Insurance.....		\$9.02	
Cartage, grading & bagging.....		\$0.00	
B. TOTAL VARIABLE COSTS \$/ha:		\$482.71	
C. GROSS MARGIN (A-B) \$/ha:		\$221.29	

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

No-Till YIELD tonnes/ha	ON FARM PRICE (\$/tonne)					Gross Margin (\$/ha)
	\$340 /t	\$390 /t	\$440 /t	\$490 /t	\$540 /t	
1.00	- \$134	- \$85	- \$37	\$12	\$61	
1.20	- \$68	- \$9	\$49	\$108	\$167	
1.40	- \$1	\$67	\$135	\$204	\$272	
1.60	\$65	\$143	\$221	\$299	\$378	
1.80	\$131	\$219	\$307	\$395	\$483	
2.20	\$264	\$372	\$479	\$587	\$694	
2.40	\$331	\$448	\$565	\$682	\$800	

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 DPI other equivalent product from another manufacturer.

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CALENDAR OF OPERATIONS:

Operation	Month	Machinery			Inputs			Total Cost \$/ha
		hrs /ha	Cost \$/hour	Total \$/ha	rate/ha	Cost \$	Total \$/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
Broadleaf weed control eg: 2,4-D amine 300g/L (Surpass®)	Feb/Mar	with above			1.00 L	\$3.80/L	\$3.80	\$3.80
Sowing	May	0.12	104.36	\$12.22	80 kg	\$1.55/kg	\$124.00	\$136.22
Starter fertiliser eg: MAP	May	with above			100 kg	\$1.03/kg	\$103.00	\$103.00
Weed control eg: simazine 500 g/L (Simazine®)	May	0.03	76.36	\$2.50	1.50 L	\$6.00/L	\$9.00	\$11.50
Broadleaf weed control eg: Isoxaflutole 750 g/kg (Balance®)	May	with above			100 g	\$0.36/g	\$36.00	\$36.00
Disease control eg: chlorothalonil 720 g/L (Bravo®)	Jun	0.03	56.03	\$1.83	1.00 L	\$21.00/L	\$21.00	\$22.83
Weed control eg: Haloxypop-R 520 g/L (Verdict®)	Jul	0.03	76.36	\$2.50	0.075 L	\$61.09/L	\$4.58	\$7.08
Disease control eg: mancozeb 800 g/kg (Dithane m45R®)	Jul	with above			1.00 kg	\$9.35/kg	\$9.35	\$9.35
Disease control eg: chlorothalonil 720 g/L (Bravo®)	Sep	0.03	56.03	\$1.83	1.00 L	\$21.00/L	\$21.00	\$22.83
Heliothis control eg: alpha-cypermethrin (Fastac Duo®)	Sep	with above			0.30 L	\$8.07/L	\$2.42	\$2.42
Pre-harvest desiccation eg: glyphosate 540 g/L (Roundup PowerMax®)	Nov	contract		\$18.15	1.80 L	\$8.67/L	\$15.61	\$33.76
Contract-harvest	Nov			\$50.00				\$50.00
Crop Levies					1.02%	of on-farm value		\$7.15
Crop Insurance					1.28%	of on-farm value		\$9.02

*** Input and crop prices are correct at the time of writing (March 2012). 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 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 inoculant is essential.
Weed control:	- An additional knockdown herbicide application (eg. glyphosate 540 g/L @ 1.0 L/ha) should be considered if weeds are present at the time of sowing. - Weed control is critical and a pre-emergent broadleaf herbicide is preferable. - Numerous grass weed control options are available. - 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 is required to control the disease Ascochyta blight in most seasons. - Chlorothalonil is now registered. The registration is valid for two products only, CropCare Barrack® and Nufarm Unite®.
Insect control:	- Heliothis must be monitored from flowering through podding.
Desiccation:	- Desiccation may be required in seasons with wet springs to ensure even ripening. Use Roundup PowerMax® where seed is not being retained for sowing. If retaining seed for sowing consider Reglone®.
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:	- Using a labour cost of \$22/hr, an additional \$4.12 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.