

Chickpeas: Short Fallow (No-till)

Central Zone - East

Winter 2012

1. GROSS MARGIN BUDGET:

INCOME:
2.20 tonnes/ha @ \$440.00 /tonne (on farm)

A. TOTAL INCOME \$/ha:

VARIABLE COSTS:
See opposite page for detail

Sowing..... \$140.18
 Fertiliser..... \$65.88
 Herbicide..... \$75.91
 Fungicides..... \$65.88
 Insecticide..... \$54.33
 Contract-harvesting..... \$50.00
 Levies..... \$9.83
 Crop Insurance..... \$24.81
 Cartage, grading & bagging..... \$0.00

B. TOTAL VARIABLE COSTS \$/ha:

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

Standard Budget \$/ha	Your Budget \$/ha
\$968.00	
\$968.00	
\$140.18	
\$65.88	
\$75.91	
\$65.88	
\$54.33	
\$50.00	
\$9.83	
\$24.81	
\$0.00	
\$486.80	
\$481.20	

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

YIELD tonnes/ha	ON FARM PRICE (\$/tonne)					Gross Margin (\$/ha)
	\$340 /t	\$390 /t	\$440 /t	\$490 /t	\$540 /t	
1.60	\$72	\$150	\$227	\$304	\$381	
1.80	\$138	\$225	\$311	\$398	\$485	
2.00	\$203	\$300	\$396	\$493	\$589	
2.20	\$269	\$375	\$481	\$587	\$693	←
2.40	\$335	\$450	\$566	\$682	\$797	
2.60	\$400	\$526	\$651	\$776	\$902	
2.80	\$466	\$601	\$736	\$871	\$1,006	

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 over any other equivalent product from another manufacturer.

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CALENDAR OF OPERATIONS:								
Operation	Month	Machinery			Inputs			Total Cost \$/ha
		hr/ha	Cost \$/hour	Total \$/ha	rate/ha	Cost \$	Total \$/ha	
Weed control eg: glyphosate 450 g/L (Roundup CT®)	Jan/Feb	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/Feb	with above			0.20 L	\$7.00/L	\$1.40	\$1.40
Weed control eg: triclopyr 600 g/L (Garlon®)	Jan/Feb	with above			0.08 L	\$19.60/L	\$1.57	\$1.57
Weed control eg: glyphosate 450 g/L (Roundup CT®)	Mar/Apr	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/Apr	with above			0.20 L	7.00 L	\$1.40	\$1.40
Weed control eg: 2,4-D amine 300 g/L (Surpass®)	Mar/Apr	with above			1.20 L	\$3.80/L	\$4.56	\$4.56
Sowing seed- inoculated and treated seed	May	0.17	74.40	\$12.50	80 kg	\$1.60/kg	\$127.68	\$140.18
Fertiliser eg: MAP	May	with above			100 kg	\$0.42/kg	\$42.00	\$42.00
Weed control eg:simazine 500 g/L (Simazine 500®) (PSPE)	May	0.05	53.40	\$2.88	1.50 L	\$6.00/L	\$9.00	\$11.88
Broadleaf weed control eg: Isoxaflutole 750 g/kg (Balance® PSPE)	May	with above			100 g	\$0.36/L	\$36.00	\$36.00
Disease control eg: chlorothaliniil 720 g/L (Bravo®)	Jun	0.05	53.40	2.88	1.00 L	\$21.00/L	\$21.00	\$23.88
Disease control eg: mancozeb 800 g/L (Dithane®)	Jul	0.05	53.40	\$2.88	1.00 kg	\$9.35/kg	\$9.35	\$12.23
Weed control eg: haloxyfop-R 520 g/L (Verdict®)	Jul	with above			0.05 L	\$61.1/L	\$3.05	\$3.05
Disease control eg: chlorothaliniil 720 g/L (Bravo®)	Aug/Sept	0.05	53.40	\$2.88	1.00 L	\$21.00/L	\$21.00	\$23.88
Heliothis control eg: alpha-cypermethrin 100 g/L (Fastac Duo®)	Sep/Oct	contract		\$18.15	0.30 L	\$8.07/L	\$2.42	\$20.57
Disease control eg: mancozeb 800 g/L (Dithane®)	Oct	0.05	53.40	\$2.88	1.00 kg	\$9.35/L	\$9.35	\$12.23
Desiccation eg: glyphosate 540 g/L (Roundup PowerMAX®)	Dec	contract		\$18.15	1.80 L	\$8.67/L	\$15.61	\$33.76
Contract-harvest	Dec			\$50.00				\$50.00
Crop Levies					1.02%	of on-farm value		\$9.83
Crop Insurance					2.56%	of on-farm value		\$24.81

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

NOTES:

Soil:	- Suited to the better loam, clay loam or heavy self mulching clay soils. 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. - Should NOT be grown more than one year in four in a paddock. - Short fallow: Fallow or weed free period of 5-6 months between harvest of one crop and sowing of the next crop.
Seed:	- Seed price used above is for purchased seed; if using retained seed adjust budget accordingly.
Inoculation:	- Group N inoculum is essential.
Fertiliser:	- Single super is one of many available alternatives. Adequate levels of phosphorus and sulfur should be applied.
Fungicide:	- Strategic fungicide programs are required to control the disease Ascochyta in chickpeas. Program may vary with variety (see Variety Management Package - VMP at www.pulseaus.com.au). See "Fungicide strategies for the control of ascochyta in chickpeas".
Weed control:	- Chickpeas are poor weed competitors and control is critical. Chloro and a pre-emergent broadleaf herbicide is essential. - Optional grass control with fluazifop, haloxyfop, quizalafop, sethoxydim or clethodim herbicides. - Note: Balance® herbicide is not recommended for use on Yorker chickpeas.
Insect control:	- Heliothis must be monitored from flowering through to podding.
Harvest:	- Desiccation is recommended in most seasons to ensure even ripening. Timing is critical.
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.
Labour:	- Contract-harvesting does not include the cost of fuel. - The labour required for machinery operations is 0.41 hr/ha - Using a labour cost of \$22/hr, an additional \$9.07 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.