

Narrowleaf and Albus Lupins: Short Fallow (No-till) Central Zone - East

Winter 2011

1. GROSS MARGIN BUDGET:

INCOME:		
Narrowleaf	2.20 tonnes/ha @	\$275.00 /tonne (on farm)
Albus	2.30 tonnes/ha @	\$325.00 /tonne (on farm)

A. TOTAL INCOME \$/ha:

VARIABLE COSTS:

See opposite page for detail

Sowing.....	\$212.81	\$103.00	
Fertiliser.....	\$61.70	\$61.70	
Herbicide.....	\$21.77	\$21.77	
Insecticide.....	\$50.00	\$50.00	
Contract-harvesting.....	\$13.73	\$13.73	
Levies.....			
Crop Insurance.....	\$0.00	\$0.00	
Cartage, grading & bagging.....	\$0.00	\$0.00	

B. TOTAL VARIABLE COSTS \$/ha:

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

ALBUS Standard Budget \$/ha	NARR. LEAF Standard Budget \$/ha	Your Budget \$/ha
	\$605.00	
\$747.50		
\$747.50	\$605.00	
\$212.81	\$103.00	
\$61.70	\$61.70	
\$21.77	\$21.77	
\$50.00	\$50.00	
\$13.73	\$13.73	
\$0.00	\$0.00	
\$0.00	\$0.00	
\$360.01	\$250.20	
\$387.49	\$354.80	

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

Albus Variety

YIELD tonnes/ha	ON FARM PRICE (\$/tonne)					Gross Margin (\$/ha)
	\$245 /t	\$285 /t	\$325 /t	\$365 /t	\$405 /t	
1.70	\$5	\$71	\$136	\$202	\$268	
1.90	\$53	\$126	\$199	\$272	\$346	
2.10	\$100	\$181	\$262	\$343	\$424	
2.30	\$147	\$236	\$324	\$413	\$502	
2.50	\$194	\$291	\$387	\$484	\$580	
2.70	\$242	\$346	\$450	\$554	\$658	
2.90	\$289	\$401	\$512	\$624	\$736	

Narrowleaf Variety

YIELD tonnes/ha	ON FARM PRICE (\$/tonne)					Gross Margin (\$/ha)
	\$195 /t	\$235 /t	\$275 /t	\$315 /t	\$355 /t	
1.60	\$14	\$76	\$138	\$200	\$261	
1.80	\$52	\$121	\$191	\$260	\$330	
2.00	\$90	\$167	\$244	\$321	\$398	
2.20	\$127	\$212	\$297	\$382	\$467	
2.40	\$165	\$257	\$350	\$442	\$535	
2.60	\$202	\$303	\$403	\$503	\$604	
2.80	\$240	\$348	\$456	\$564	\$672	

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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Central Zone - East

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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	70.67	\$3.81	1.20 L	\$5.67/L	\$6.80	\$10.60
Wetter eg. alkoxyated 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	\$21.00/L	\$1.68	\$1.68
Weed control eg: glyphosate 450 g/L (Roundup CT®)	Mar/Apr	0.05	70.67	\$3.81	1.00 L	\$5.67/L	\$5.67	\$9.47
Wetter eg. alkoxyated 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	\$3.76/L	\$4.51	\$4.51
Weed control eg: glyphosate 450 g/L (Roundup CT®)	Apr	0.05	70.67	\$3.81	1.20 L	\$5.67/L	\$6.80	\$10.60
Weed control eg: trifluralin 480 g/L (Triflur® X)	Apr	with above			1.20 L	\$6.70/L	\$8.04	\$8.04
Sowing - Narrowleaf variety	Apr	0.17	91.67	\$15.41	80 kg	\$0.91/kg	\$72.80	\$88.21
Sowing - Albus variety	Apr	0.17	91.67	\$15.41	120 kg	\$0.91/kg	\$109.20	\$124.61
Fertiliser eg: MAP	Apr	with above			100 kg	\$1.03/kg	\$103.00	\$103.00
Weed control eg: simazine 500 g/L (Simazin 500 F) (Post-sow/pre-emergence)	Apr	0.05	70.67	\$3.81	2.00 L	\$5.55/L	\$11.10	\$14.91
Weed control eg: haloxyfop-R 520 g/L (Verdict®)	Jun/July	0.05	70.67	3.81	0.05 L	\$80.08/L	\$4.00	\$7.81
Uptake®	Jun/July	with above			0.25 L	\$7.50/L	\$1.88	\$1.88
Heliothis control eg: alpha-cypermethrin 100 g/L (Fastac Plus®)	Oct	contract		\$18.15	0.30 L	\$12.05/L	\$3.62	\$21.77
Contract-harvest	Dec	contract		\$50.00				\$50.00
Crop Levies - Albus variety					1.02%	of on-farm value		\$7.59
Crop Insurance - Albus variety					2.56%	of on-farm value		\$19.15
Crop Levies - Narr. Leaf variety					1.02%	of on-farm value		\$6.14
Crop Insurance - Narr. Leaf variety					2.56%	of on-farm value		\$15.50

*** Input and crop prices are correct at the time of writing (March 2011). Market uncertainty makes estimation of future pricing impractical.

NOTES:

Soil:	<ul style="list-style-type: none"> - Adapted for rotations in sandy acid soils and well-drained loamy soils. - Soils must be well drained for Albus lupins. - Avoid very acid soils with less than pH 4.6_(Ca) (Albus) or less than pH 4.6(Ca) (Narrowleaf).
Place in rotation:	<ul style="list-style-type: none"> - Suitable for rotation with cereals to break disease cycles, control weeds and improve soil nitrogen levels. - Short Fallow: Fallow or weed free period of 5-6 months between harvest of one crop and sowing of the next crop.
Sowing time:	<ul style="list-style-type: none"> - Late April to mid-May is optimal. Narrowleaf - early April to mid May, Albus - late to mid May. - Early April plantings appear more susceptible to aphid activity and Cucumber mosaic virus disease (Narrowleaf lupins) - Seed price used above is for purchased seed; if using retained seed adjust budget accordingly.
Inoculation:	<ul style="list-style-type: none"> - Group G inoculum is essential.
Fertiliser:	<ul style="list-style-type: none"> - Molybdenum fortified super is one of many alternatives. In highly acid soils, Molybdenum may be unavailable. Molybdenum is an essential trace element for nitrogen fixation. - Granulock 12 or MAP can also be used as alternative fertilisers, the choice of which depends on rates and cost variations.
Insect control:	<ul style="list-style-type: none"> - Monitor heliothis from flowering through to pod fill.
Weed control:	<ul style="list-style-type: none"> - Simazine/Trifluralin pre-emergent herbicide treatment to control selected annual grass and broadleaf weeds - Rotate herbicide groups and use other non-chemical methods to avoid herbicide resistance developing.
Machinery:	<ul style="list-style-type: none"> - A tractor with 153 kW (181 HP) pto power and 166 kW (225 HP) engine power is assumed. - Contract-harvesting does not include the cost of fuel.
Labour:	<ul style="list-style-type: none"> - The labour required for machinery operations is 0.76 hr/ha - Using a labour cost of \$22/hr, an additional \$16.65 can be deducted from the budget
Important notes:	<ul style="list-style-type: none"> - 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.