



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

Winter 2009

1. GROSS MARGIN BUDGET:

INCOME:
 Narrowleaf 1.00 tonnes/ha @ \$350.00 /tonne (on farm)
 Albus 1.40 tonnes/ha @ \$480.00 /tonne (on farm)

A. TOTAL INCOME \$/ha:

VARIABLE COSTS:

See opposite page for detail

Cultivation..... \$0.00
 Sowing..... \$103.62
 Fertiliser..... \$58.50
 Herbicide..... \$51.03
 Insecticide..... \$10.65
 Contract-harvesting..... \$50.00
 Levies..... \$6.82
 Crop Insurance..... \$8.61
 Cartage, grading & bagging..... \$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
	\$350.00	
\$672.00		
\$672.00	\$350.00	
\$0.00	\$0.00	
\$103.62	\$76.32	
\$58.50	\$58.50	
\$51.03	\$51.03	
\$10.65	\$10.65	
\$50.00	\$50.00	
\$6.82	\$3.55	
\$8.61	\$4.48	
\$0.00	\$0.00	
\$289.23	\$254.54	
\$382.77	\$95.46	

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

Albus Variety

YIELD tonnes/ha	ON FARM PRICE (\$/tonne)				
	\$400 /t	\$440 /t	\$480 /t	\$520 /t	\$560 /t
0.80	\$39	\$70	\$101	\$133	\$164
1.00	\$117	\$156	\$195	\$234	\$273
1.20	\$195	\$242	\$289	\$336	\$383
1.40	\$273	\$328	\$383	\$437	\$492
1.70	\$391	\$457	\$523	\$590	\$656
2.00	\$508	\$586	\$664	\$742	\$820
2.20	\$586	\$672	\$758	\$844	\$930

Gross Margin (\$/ha)

Narrowleaf Variety

YIELD tonnes/ha	ON FARM PRICE (\$/tonne)				
	\$270 /t	\$310 /t	\$350 /t	\$390 /t	\$430 /t
0.40	-\$141	-\$125	-\$110	-\$94	-\$78
0.60	-\$88	-\$65	-\$41	-\$18	\$6
0.80	-\$35	-\$4	\$27	\$58	\$90
1.00	\$17	\$56	\$95	\$135	\$174
1.30	\$96	\$147	\$198	\$249	\$300
1.60	\$176	\$238	\$301	\$363	\$426
1.80	\$228	\$299	\$369	\$439	\$510

Gross Margin (\$/ha)

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.

This budget is ONLY A GUIDE and should be altered for movements in crop and input prices, changes in seasonal conditions and the farm characteristics.

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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	\$49.00/L	\$4.90	\$4.90
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			1.00 L	\$6.22/L	\$6.22	\$6.22
Sowing Narrowleaf variety	Apr/May	0.12	107.73	\$12.62	70 kg	\$0.91/kg	\$63.70	\$76.32
Sowing Albus variety	Apr/May	0.12	107.73	\$12.62	100 kg	\$0.91/kg	\$91.00	\$103.62
Starter fertiliser eg: MAP	Apr/May	with above			60 kg	\$0.98/kg	\$58.50	\$58.50
Weed control eg: Simazine 500®	May	0.03	79.73	\$2.61	1.50 L	\$9.60/L	\$14.40	\$17.01
Heliothis control (1 year in 2) eg: Fastac Duo®	Oct	contract		\$18.15	0.30 L	\$10.50/L	\$3.15	\$10.65
Contract-harvest	Nov	contract		\$50.00				\$50.00
Crop Levies - Albus variety					1.02%	of on-farm value		\$6.82
Crop Insurance - Albus variety					1.28%	of on-farm value		\$8.61
Crop Levies - Narrowleaf variety					1.02%	of on-farm value		\$3.55
Crop Insurance - Narrowleaf variety					1.28%	of on-farm value		\$4.48

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

NOTES:

Soil type:

- Adapted for rotations in sandy acid soils and loamy soils.
- Avoid very acid soils with Albus lupins.
- Soils **must** be well drained for Albus lupins.
- The above estimates assume Albus lupins are usually grown on less acid and better drained soils.

Place in rotation:

- Suitable in rotation with cereals to break disease and weed cycles and improve soil nitrogen.
- Ideally can be no-tilled into cereal stubble using wide row spacings.
- 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.

Inoculation:

- With Group G inoculum is essential.

Fertiliser:

- Adequate levels of phosphorus and sulfur should be applied.

Sowing time:

- Early April to mid-May is optimal.
- Seed price used above is for purchased seed; if using retained seed adjust budget accordingly.

Weed control:

- Timing of fallow herbicide applications will vary according to rainfall.
- Weeds are a major problem as lupins lack competitive vigour.
- Use Simazine/ Trifluralin (pre-emergent) to control several broadleaf and grass weeds.
- 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.

Insect control:

- Monitor heliothis from flowering through to pod fill.
- Monitor thrips from budding to pod fill.

Machinery:

- A tractor with 149 kW (200 HP) pto power and 177 kW (240 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:

- The labour required for machinery operations is 0.42 hrs/ha
- Using a labour cost of \$14/hr, an additional \$5.81 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.