



## **Narrowleaf and Albus Lupins: Short Fallow (No-till)**

## **Central Zone - West**

Winter 2012

## **1. GROSS MARGIN BUDGET:**

**INCOME:**

Narrowleaf	1.20 tonnes/ha @	\$260.00 /tonne (on farm)
Albus	1.60 tonnes/ha @	\$300.00 /tonne (on farm)

#### A. TOTAL INCOME \$/ha:

## VARIABLE COSTS:

See opposite page for detail

ALBUS Standard Budget \$/ha	NARR. LEAF Standard Budget \$/ha	Your Budget \$/ha
	\$312.00	
\$480.00		
<b>\$480.00</b>	<b>\$312.00</b>	
\$103.22	\$101.12	
\$61.80	\$61.80	
\$45.99	\$45.99	
\$20.57	\$20.57	
\$50.00	\$50.00	
\$4.87	\$3.17	
\$6.15	\$4.00	
\$0.00	\$0.00	
<b>\$292.61</b>	<b>\$286.65</b>	
<b>\$187.39</b>	<b>\$25.35</b>	

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

Albus Variety	YIELD tonnes/ha	ON FARM PRICE (\$/tonne)				
		\$220 /t	\$260 /t	\$300 /t	\$340 /t	\$380 /t
	1.00	<b>- \$67</b>	<b>- \$28</b>	\$12	\$51	\$90
	1.20	<b>- \$24</b>	\$23	\$70	\$117	\$164
	1.40	\$19	\$74	\$129	\$183	\$238
	<b>1.60</b>	\$62	\$125	<b>\$187</b>	\$250	\$312
	1.90	\$127	\$201	\$275	\$350	\$424
	2.20	\$191	\$277	\$363	\$449	\$535
	2.40	\$234	\$328	\$422	\$516	\$609

Narrowleaf Variety	YIELD tonnes/ha	ON FARM PRICE (\$/tonne)				
		\$180 /t	\$220 /t	\$260 /t	\$300 /t	\$340 /t
	0.60	-\$174	-\$151	-\$127	-\$104	-\$80
	0.80	-\$139	-\$108	-\$76	-\$45	-\$14
	1.00	-\$104	-\$65	-\$25	\$14	\$53
	<b>1.20</b>	-\$68	-\$22	<b>\$25</b>	\$72	\$119
	1.50	-\$16	\$43	\$102	\$160	\$219
	1.80	\$37	\$107	\$178	\$248	\$318
	2.00	\$72	\$150	\$229	\$307	\$385

## **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
		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	<b>\$2.50</b>	1.20 L	\$8.67/L	<b>\$10.40</b>	<b>\$12.90</b>
Weed control eg: triclopyr 600 g/L (Garlon®)	Dec/Jan	with above			0.10 L	\$49.00/L	<b>\$4.90</b>	<b>\$4.90</b>
Weed control eg: glyphosate 540 g/L (Roundup PowerMAX®)	Feb/Mar	0.03	76.36	<b>\$2.50</b>	1.20 L	\$8.67/L	<b>\$10.40</b>	<b>\$12.90</b>
Broadleaf weed control eg: 2,4-D amine 300g/L (Surpass®)	Feb/Mar	with above			1.00 L	\$3.80/L	<b>\$3.80</b>	<b>\$3.80</b>
Sowing Narrowleaf variety	Apr/May	0.12	104.36	<b>\$12.22</b>	70 kg	\$1.27/kg	<b>\$88.90</b>	<b>\$101.12</b>
Sowing Albus variety	Apr/May	0.12	104.36	<b>\$12.22</b>	100 kg	\$0.91/kg	<b>\$91.00</b>	<b>\$103.22</b>
Starter fertiliser eg: MAP	Apr/May	with above			60 kg	\$1.03/kg	<b>\$61.80</b>	<b>\$61.80</b>
Weed control eg: simazine 500 g/L (Simazine®)	Apr/May	0.03	76.36	<b>\$2.50</b>	1.50 L	\$6.00/L	<b>\$9.00</b>	<b>\$11.50</b>
Heliothis control eg: alpha-cypermethrin (Fastac Duo®)	Sep	contract		<b>\$18.15</b>	0.30 L	\$8.07/L	<b>\$2.42</b>	<b>\$20.57</b>
Contract-harvest	Nov	contract		<b>\$50.00</b>				<b>\$50.00</b>
Crop Levies - Albus variety					1.02%	of on-farm value		<b>\$4.87</b>
Crop Insurance - Albus variety					1.28%	of on-farm value		<b>\$6.15</b>
Crop Levies - Narrowleaf variety					1.02%	of on-farm value		<b>\$3.17</b>
Crop Insurance - Narrowleaf variety					1.28%	of on-farm value		<b>\$4.00</b>

\*\*\* Input and crop prices are correct at the time of writing (March 2012). 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.

### Place in rotation:

- The above estimates assume Albus lupins are usually grown on less acid and better drained soils.
- 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:

### Fertiliser:

### Sowing time:

- With Group G inoculant is essential.
- Phosphorus at low levels is recommended to avoid depletion of soil P levels before the following wheat crop.
- Mid April to early 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.
- 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.
- Use simazine/ trifluralin (pre-emergent) to control several broadleaf and grass weeds.
- Rotate herbicide groups and use other non-chemical methods to delay herbicide resistance.

### Insect control:

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

### 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:

- The labour required for machinery operations is 0.42 hr/ha
- Using a labour cost of \$22/hr, an additional \$9.14 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.