



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

## Central Zone - West

## Winter 2012

### 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 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.
- 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 inoculant is essential.

#### Fertiliser:

- Phosphorus at low levels is recommended to avoid depletion of soil P levels before the following wheat crop.

#### Sowing time:

- 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.