



# Narrowleaf and Albus Lupins: Short Fallow (No-till ) Central Zone - East Winter 2009

## 1. GROSS MARGIN BUDGET:

**INCOME:**

Narrowleaf	2.20 tonnes/ha @	\$350.00 /tonne (on farm)
Albus	2.30 tonnes/ha @	\$480.00 /tonne (on farm)

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

**VARIABLE COSTS:**

See opposite page for detail

Sowing seed.....	\$120.02	\$83.62
Fertiliser.....	\$76.05	\$76.05
Herbicide.....	\$65.48	\$65.48
Insecticide.....	\$21.30	\$21.30
Contract-harvesting.....	\$50.00	\$50.00
Levies.....	\$11.21	\$7.82
Crop Insurance.....	\$28.29	\$19.73
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
	\$770.00	
\$1,104.00		
<b>\$1,104.00</b>	<b>\$770.00</b>	
\$120.02	\$83.62	
\$76.05	\$76.05	
\$65.48	\$65.48	
\$21.30	\$21.30	
\$50.00	\$50.00	
\$11.21	\$7.82	
\$28.29	\$19.73	
\$0.00	\$0.00	
<b>\$372.34</b>	<b>\$323.99</b>	
<b>\$731.66</b>	<b>\$446.01</b>	

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

### Albus Variety

YIELD tonnes/ha	ON FARM PRICE (\$/tonne)				
	\$400 /t	\$440 /t	<b>\$480 /t</b>	\$520 /t	\$560 /t
1.70	\$323	\$388	\$454	\$520	\$585
1.90	\$400	\$473	\$547	\$620	\$693
2.10	\$477	\$558	\$639	\$720	\$801
<b>2.30</b>	\$554	\$643	<b>\$732</b>	\$820	\$909
2.50	\$631	\$728	\$824	\$921	\$1,017
2.70	\$709	\$813	\$917	\$1,021	\$1,125
2.90	\$786	\$898	\$1,009	\$1,121	\$1,233

Gross Margin (\$/ha)

### Narrowleaf Variety

YIELD tonnes/ha	ON FARM PRICE (\$/tonne)				
	\$270 /t	\$310 /t	<b>\$350 /t</b>	\$390 /t	\$430 /t
1.60	\$120	\$182	\$244	\$305	\$367
1.80	\$172	\$242	\$311	\$380	\$450
2.00	\$224	\$301	\$379	\$456	\$533
<b>2.20</b>	\$276	\$361	<b>\$446</b>	\$531	\$616
2.40	\$328	\$421	\$514	\$606	\$699
2.60	\$380	\$481	\$581	\$681	\$782
2.80	\$433	\$541	\$648	\$756	\$864

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.

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

## Central Zone - East

### Winter 2009

#### 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 450 g/litre	Jan/Feb	0.05	43.36	<b>\$2.34</b>	1.20 L	\$7.38/L	<b>\$8.85</b>	<b>\$11.19</b>
Weed control eg: Garlon®	Jan/Feb	with above			0.12 L	\$29.93/L	<b>\$3.59</b>	<b>\$3.59</b>
Weed control eg: glyphosate 450 g/litre	Apr	0.05	43.36	<b>\$2.34</b>	1.00 L	\$7.38/L	<b>\$7.38</b>	<b>\$9.71</b>
Weed control eg: 2,4-D amine (Surpass®)	Apr	with above			1.20 L	\$6.22/L	<b>\$7.46</b>	<b>\$7.46</b>
Weed control eg: trifluralin 480 g/L	Apr	0.05	43.36	<b>\$2.34</b>	1.20 L	\$8.05/L	<b>\$9.66</b>	<b>\$11.99</b>
Sowing - Narrowleaf variety	Apr	0.17	64.36	<b>\$10.82</b>	80 kg	\$0.91/kg	<b>\$72.80</b>	<b>\$83.62</b>
Sowing - Albus variety	Apr	0.17	64.36	<b>\$10.82</b>	120 kg	\$0.91/kg	<b>\$109.20</b>	<b>\$120.02</b>
Fertiliser eg: Single Super	Apr	with above			130 kg	\$0.59/kg	<b>\$76.05</b>	<b>\$76.05</b>
Weed control eg: Simazine (Post-sow/pre-emergence)	Apr	0.05	43.36	<b>\$2.34</b>	2.00 L	\$9.60/L	<b>\$19.20</b>	<b>\$21.54</b>
Heliothis control eg: alpha-cypermethrin eg: (Fastac Duo®)	Oct	contract		<b>\$18.15</b>	0.30 L	\$10.50/L	<b>\$3.15</b>	<b>\$21.30</b>
Contract-harvest	Dec	contract		<b>\$50.00</b>				<b>\$50.00</b>
Crop Levies - Albus variety					1.02%	of on-farm value		<b>\$11.21</b>
Crop Insurance - Albus variety					2.56%	of on-farm value		<b>\$28.29</b>
Crop Levies - Narr. Leaf variety					1.02%	of on-farm value		<b>\$7.82</b>
Crop Insurance - Narr. Leaf variety					2.56%	of on-farm value		<b>\$19.73</b>

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

#### NOTES:

<b>Soil:</b>	<ul style="list-style-type: none"> <li>- Adapted for rotations in sandy acid soils and well-drained loamy soils.</li> <li>- Soils <b>must</b> be well drained for Albus lupins.</li> <li>- Avoid very acid soils with Albus lupins.</li> </ul>
<b>Place in rotation:</b>	<ul style="list-style-type: none"> <li>- Suitable for rotation with cereals to break disease cycles, control weeds and improve soil nitrogen levels.</li> <li>- Short Fallow: Fallow or weed free period of 5-6 months between harvest of one crop and sowing of the next crop.</li> </ul>
<b>Sowing time:</b>	<ul style="list-style-type: none"> <li>- Late April to mid-May is optimal. Avoid early April plantings as these appear more susceptible to aphid activity and cucumber mosaic virus disease (Narrowleaf lupins only).</li> <li>- Seed price used above is for purchased seed; if using retained seed adjust budget accordingly.</li> </ul>
<b>Inoculation:</b>	<ul style="list-style-type: none"> <li>- Group G inoculum is essential.</li> </ul>
<b>Fertiliser:</b>	<ul style="list-style-type: none"> <li>- Single super is one of many available alternatives - adequate levels of phosphorus and sulfur should be applied.</li> <li>- Granulock 12 or MAP can also be used as alternative fertilisers, the choice of which depends on rates and cost variation.</li> </ul>
<b>Insect control:</b>	<ul style="list-style-type: none"> <li>- Monitor heliothis from flowering through to pod fill.</li> </ul>
<b>Weed control:</b>	<ul style="list-style-type: none"> <li>- Simazine/Trifluralin pre-emergent herbicide treatment to control selected annual grass and broadleaf weeds</li> <li>- Rotate herbicide groups and use other non-chemical methods to avoid herbicide resistance developing.</li> </ul>
<b>Machinery:</b>	<ul style="list-style-type: none"> <li>- A tractor with 149 kW (200 HP) pto power and 177 kW (240 HP) engine power is assumed.</li> <li>- Contract-harvesting does not include the cost of fuel.</li> </ul>
<b>Labour:</b>	<ul style="list-style-type: none"> <li>- The labour required for machinery operations is 0.69 hrs/ha</li> <li>- Using a labour cost of \$14/hr, an additional \$9.65 can be deducted from the budget</li> </ul>
<b>Important notes:</b>	<ul style="list-style-type: none"> <li>- These gross margins are only a guide. They do not include overhead costs.</li> <li>- <b>Use your own figures and price assumptions to estimate your own gross margin.</b></li> <li>- Use of a particular brand name does NOT imply a recommendation of that brand by NSW Department of Primary Industries.</li> </ul>

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.