

Flood Irrigated Conventional Canola Central Zone

Winter 2009

CALENDAR OF OPERATIONS:

Operation	Month	Machinery			Inputs			Total Cost \$/ha
		hrs /ha	Cost \$/hour	Total \$/ha	Rate/ha	Cost \$	Total \$/ha	
Off-set disc	Jan	0.35	50.78	\$17.63				\$17.63
Chisel plough	Feb	0.22	44.83	\$10.01				\$10.01
Gypsum (Sulfur)	Mar	contract		\$7.50	0.3 t	\$110.00 /t	\$33.00	\$40.50
Light Cultivation	Mar	0.17	47.03	\$8.05				\$8.05
Pre- irrigation	Mar				1.50 ML	\$19.74/ML	\$29.61	\$29.61
Pre-sowing weed control eg: Glyphosate 540 (Roundup PowerMax®)	Apr	0.05	43.36	\$2.34	1.00 L	\$10.67/L	\$10.67	\$13.00
Nitrogen fertiliser eg: Urea	May	0.17	47.03	\$8.05	150 kg	\$0.85/kg	\$127.50	\$135.55
Pre-emergent weed control eg: trifluralin 480 g/L	May	0.05	43.36	\$2.34	1.60 L	\$8.05/L	\$12.88	\$15.21
Sowing	May	0.17	64.36	\$10.82	3.00 kg	\$9.00/kg	\$27.00	\$37.82
Starter fertiliser eg: MAP	May	with above			100 kg	\$0.98/kg	\$97.50	\$97.50
Insecticide eg: Omethoate (Lemat®)	May	with above			0.10 L	\$33.67/L	\$3.37	\$3.37
Broadleaf weed control eg: Clopyralid (Lontrel®)	Jun	0.05	43.36	\$2.34	0.30 L	\$44.67/L	\$13.40	\$15.74
Grass weed control eg:haloxyfop-R (Verdict®520)	Jun	with above	0.00	\$0.00	0.10 L	\$96.88/L	\$9.69	\$9.69
Irrigation	Aug				1.50 ML	\$19.74/ML	\$29.61	\$29.61
Heliothis control eg: alpha- cypermethrin (Fastac Duo)	Sept			\$18.15	0.30 L	\$10.50/L	\$3.15	\$21.30
Contract Windrow		contract		\$75.00				\$75.00
Contract-harvest		contract		\$60.00				\$60.00
Crop Levies						\$1.50/tonne + 1.03% of on-farm value		\$15.93
Crop Insurance					3.59%	of on-farm value		\$43.05

* Irrigation water price is an average price. You should use the variable cost of irrigation water applicable to your situation.

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

NOTES:

Soil type:	<ul style="list-style-type: none"> - Suitable for all good fertility wheat soils. Avoid acid soils containing high exchangeable aluminium. - Seedbed should be fine and firm. Trifluralin can be incorporated by sowing.
Fertiliser:	<ul style="list-style-type: none"> - Adequate phosphorus is essential for canola. - Canola requires more nitrogen than wheat and also has high sulfur requirement. This can be applied as either two separate products (eg gypsum pre-sowing, urea at sowing or top dressed in-crop, or as a combined product at sowing or in-crop eg, sulfate of ammonia). - For maximum yield response both nitrogen and sulfur should be applied prior to early budding.
Sowing time:	<ul style="list-style-type: none"> - Sow canola as early as possible to maximise yield potential, either after pre-irrigation or after the first autumn rains from mid-April. - There is a 10% yield loss for every weeks delay in sowing after early May. - Seed price used above is for purchased seed open pollinated variety. Do not use retained canola seed.
Weed control:	<ul style="list-style-type: none"> - Trifluralin for grass weed and wireweed/fumitory control. - Can use wide range of herbicides for grass control. - Clopyralid for capeweed and saffron thistle control. - Rotate herbicide groups and use other non-chemical methods to avoid herbicide resistance developing.
Insect control:	<ul style="list-style-type: none"> - Earthmite control is essential at establishment. - Check for insect pests at flowering time. - Aphids need to be monitored from early budding, when colonies begin to spread control may be needed. - Monitor for heliothis from flowering onwards.
Windrowing:	<ul style="list-style-type: none"> - Windrowing is strongly recommended to reduce shattering losses and allow earlier harvest.
Irrigation:	<ul style="list-style-type: none"> - Pre-irrigation is optional, dependent on stored moisture levels following summer rainfall. - This budget is applicable for the Central Zone east, a higher water requirement may be required for the central zone/west. - In-crop irrigation: timing and amount dependent on in-crop winter rainfall; generally one spring irrigation (1.5 ML/ha) is sufficient but must be timed to ensure that there is adequate moisture over the critical flowering period. - Some of the yield response for irrigated crops is due to stored soil moisture and growing season rainfall which can be sufficient to grow a dryland crop. Thus the gross margin per ML is obtained by (GM/Ha irrigated crop – GM/Ha dryland crop)÷ML of irrigation water applied.
Machinery:	<ul style="list-style-type: none"> - A tractor with 149 kW (200 HP) pot power and 177kW (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. - The labour required for machinery operations is 1.75 hrs/ha
Labour:	<ul style="list-style-type: none"> - Using a labour cost of \$14/hr, an additional \$24.55 can be deducted from the budget - These gross margins are only a guide. They do not include overhead costs.
Important notes:	<ul style="list-style-type: none"> - 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.

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.