



POTATO - Processing (Summer) - Sprinkler Irrigation

Farm Enterprise Budget Series

Murrumbidgee Irrigation Area 2009

1. GROSS MARGIN BUDGET:

INCOME:

35 t/ha @ \$300.00 /tonne

Standard Budget \$/ha	Your Budget \$/ha
\$10,500	

A. TOTAL INCOME \$/ha:

\$10,500	
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VARIABLE COSTS:

See following page for detail

Seed.....	\$2,025	
Tractor costs.....	\$153	
Irrigation.....	\$626	
Fertiliser.....	\$2,547	
Pest control.....	\$42	
Weed control.....	\$42	
Casual labour.....	\$264	
Harvesting (packed in paddock).....	\$1,155	
Marketing.....	\$53	

B. TOTAL VARIABLE COSTS \$/ha:

\$6,907	
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C. GROSS MARGIN (A-B) \$/ha

\$3,593	
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D. GROSS MARGIN \$/ML

\$449	
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2. SENSITIVITY TABLES

2.1 EFFECT OF YIELD AND PRICE ON GROSS MARGIN PER HECTARE

YIELD t/ha	Price \$/tonne				
	\$220	\$260	\$300	\$340	\$380
25	-\$1,052	-\$57	\$938	\$1,933	\$2,928
30	-\$123	\$1,071	\$2,265	\$3,459	\$4,653
35	\$807	\$2,200	\$3,593	\$4,986	\$6,379
40	\$1,736	\$3,328	\$4,920	\$6,512	\$8,104
45	\$2,666	\$4,457	\$6,248	\$8,039	\$9,830

2.2 EFFECT OF YIELD AND PRICE ON GROSS MARGIN PER MEGALITRE

YIELD t/ha	Price \$/tonne				
	\$220	\$260	\$300	\$340	\$380
25	-\$132	-\$7	\$117	\$242	\$366
30	-\$15	\$134	\$283	\$432	\$582
35	\$101	\$275	\$449	\$623	\$797
40	\$217	\$416	\$615	\$814	\$1,013
45	\$333	\$557	\$781	\$1,005	\$1,229

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. Estimated prices are GST- exclusive

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CALENDAR OF OPERATIONS:						
Operation	Machinery			Inputs		
	Hrs/ha	Cost \$/hr	Total \$/ha	Rate/ha	Cost	Total \$/ha
Deep rip	1.18	\$100.00	\$118.00			
Disc plough	0.42	\$22.85	\$9.60			
Broadcast fertiliser <i>eg: Lime</i>	0.1	\$24.91	\$2.49	2500kg	\$0.07	\$181.82
Lister	0.86	\$27.95	\$21.80			
Bedform	0.66	\$25.05	\$19.54			
Planter	0.29	\$31.12	\$9.02			
Apply starter fertiliser <i>eg: Starterfos DAP</i>	0.1	\$24.91	\$2.49	600kg	\$1.62	\$969.00
<i>eg: Sulphate of Potash</i>				300kg	\$1.68	\$502.50
Potato Seed				3000kg	\$0.67	\$2,010.00
Potato Seed Cutting				3000kg	\$0.01	\$15.00
Apply pre-emergent <i>eg: Roundup 360</i>	0.1	\$22.92	\$2.29	1.5L	\$13.20	\$19.80
Apply post-emergent <i>eg: Sencor SC</i>	0.1	\$22.92	\$2.29	0.4L	\$56.00	\$22.40
Potato moth & aphid control <i>eg: Nitofol</i>	0.1	\$22.92	\$2.29	0.7L	\$39.00	\$27.30
Apply sidedressing fertiliser <i>eg: Urea</i>	0.1	\$24.91	\$4.98	400kg	\$0.98	\$390.80
Apply <i>Sulphate of potash</i>				300kg	\$1.68	\$502.50
Potato moth control <i>eg: Axe</i>	0.1	\$22.92	\$2.29	0.2L	\$73.00	\$14.60
Irrigation				8ML	\$32.80	\$262.39
Pumping costs				8ML	\$45.50	\$364.00
Contract harvest				35tonnes	\$33.00	\$1,155.00
Harvest labour				12hours	\$22.00	\$264.00
Trailer	0.42	\$21.78	\$9.15			
Transported by processors						
Levy				0.50%		\$52.50

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AGRONOMIC NOTES

Price:	Contract price is negotiated between the grower and the processor
Tractor costs:	Tractor costs are calculated for a 66KW engine (90 HP) tractor plus the cost of running the implement.
Irrigation:	<p>The cost of irrigation water will vary depending on where it is obtained.</p> <p>River water obtained from Murrumbidgee Irrigation is about \$32.80/ML based on a 50% allocation. If purchasing a temporary transfer, the cost of water can increase considerably.</p> <p>The cost of pumping varies depending on a number of factors including the type of pump and its efficiency, meters of head, flow rate required and cost of electricity.</p>
Production:	<p>Plants for crisping are spaced 220mm apart on rows 810 to 910mm apart (potatoes for french fries are sown at lower plant population to achieve large potatoes for slicing).</p> <p>Crisping potatoes are only grown under contract with a processing or export company.</p> <p>Alantic is the main variety grown. The final contract price depends on the cooking quality, tuber size, dry matter, grade faults and delivery time of the crop.</p>
Harvesting:	Potatoes are sown in July and August for a December/ January harvest.
Yields:	Paddock yields vary from 30 to 40 tonnes per hectare. Production in the tablelands can expect 20% higher yields than in the Riverina.
Economic note:	<p>This budget is a GUIDE ONLY and should be altered for movements in crop and input prices, changes in seasonal conditions and farm characteristics.</p> <p>This budget does not include overhead costs or GST</p>