



Area Unit = 1ha

## POTATO - Processing

2013

					standard budget	your budget
<b>INCOME:</b>	<b>Item</b>	<b>Quantity</b>	<b>Rate</b>	<b>Price</b>		
<b>Anticipated Yield</b>	1st Grade	35 tonne/ ha	@	\$ 280.00 / tonne	\$ 9,800.00	
	<b>Total</b>	35 tonne/ ha	<b>Average</b>	\$ 280.00 / tonne		
<b>A. Gross Income/ha</b>					<b>\$ 9,800.00</b>	
<b>OPERATING COSTS:</b>					<b>\$ Cost</b>	
<b>Seed and Plants</b>	Seed (certified)		3000 kg/ha	\$ 0.67 /kg	\$ 2,010.00	
	Seed Cutting		3000 kg/ha	\$ 0.01 /kg	\$ 30.00	
<b>Fertiliser</b>	Lime		2500 kg/ha	\$ 0.63 /kg	\$ 1,575.00	
	Complete		1000 kg/ha	\$ 0.98 /kg	\$ 980.00	
	Starter (base fertiliser)		500 kg/ha	\$ 1.06 /kg	\$ 530.00	
	Urea (side dressing)		250 kg/ha	\$ 0.86 /kg	\$ 215.00	
<b>Fuel</b>	Ground/Bed Preparation	15 L/hr	0.4 hr/ha	\$ 1.15 /L	\$ 6.90	
	Sowing/Planting	15 L/hr	0.35 hr/ha	\$ 1.15 /L	\$ 6.04	
	Chemical Applications	12 L/hr	3.3 hr/ha	\$ 1.15 /L	\$ 45.54	
	Fertiliser Applications	12 L/hr	2.0 hr/ha	\$ 1.15 /L	\$ 27.60	
	Harvester	15 L/hr	4.0 hr/ha	\$ 1.15 /L	\$ 69.00	
	Bin Trailer (at harvest)	15 L/hr	4.0 hr/ha	\$ 1.15 /L	\$ 69.00	
	Slash	12 L/hr	0.3 hr/ha	\$ 1.15 /L	\$ 4.14	
<b>Chemicals</b>	Pre-emergent Herbicide	1 application	0.5 kg/ha	\$ 36.09 /kg	\$ 18.05	
	Post-emergent Herbicide	1 application	1.5 L/ha	\$ 9.18 /L	\$ 13.77	
	Insecticide	1 application	0.2 L/ha	\$ 88.49 /L	\$ 17.70	
	Insecticide	1 application	0.75 L/ha	\$ 11.00 /L	\$ 8.25	
	Fungicide	2 applications	0.5 L/ha	\$ 133.00 /L	\$ 133.00	
<b>Water</b>	Centre Pivot Irrigation		5 ML/ha	\$ 60.00 /ML	\$ 300.00	
<b>Labour</b>	Tractor Driving	1 person	6.4 hr/ha	\$ 25.00 /hr	\$ 160.00	
	Tractor Driving (harvest)	3 people	4.0 hr/ha	\$ 25.00 /hr	\$ 300.00	
	Harvest	3 people	4.0 hr/ha	\$ 18.00 /hr	\$ 216.00	
	Bin Pick up	1 person	4.0 hr/ha	\$ 18.00 /hr	\$ 72.00	
<b>Electricity/Gas</b>	Irrigation Pumps		5 ML/ha	\$ 82.80 /ML	\$ 414.00	
<b>Packaging</b>	No Packaging Required					
<b>Freight/Transport</b>	Transport Costs Met by Processor					
<b>Other Costs</b>	Levies		0.50%		\$ 49.00	
	Bin Hire	14 days	75 bins/ha	\$ 0.40 /bin/day	\$ 420.00	
<b>B. Total Operating Costs</b>					<b>\$ 7,689.98</b>	
<b>Gross Margin per ha (A-B)</b>					<b>\$ 2,110.02</b>	
<b>Gross Margin /ML</b>					<b>\$ 422.00</b>	

Break-even Price \$219.70 / tonne for 35 tonne/ ha

Break-even Yield 27.5 tonne / ha @ \$280.00 / tonne

### PRODUCT TRADE NAMES

The product trade names in this publication are omitted 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.



## POTATO - Processing

2013

### SENSITIVITY ANALYSIS

**TABLE 1- Effect of Yield and Price on Gross Margin /ha**

YIELD (tonne)	DELIVERED PRICE (\$/tonne)					
	180.00	230.00	280.00	330.00	380.00	430.00
25	-\$3,163	-\$1,920	-\$676	\$568	\$1,812	\$3,055
30	-\$2,268	-\$775	\$717	\$2,210	\$3,702	\$5,195
<b>35</b>	-\$1,372	\$369	<b>\$2,110</b>	\$3,851	\$5,593	\$7,334
40	-\$477	\$1,513	\$3,503	\$5,493	\$7,483	\$9,473
45	\$419	\$2,657	\$4,896	\$7,135	\$9,374	\$11,612

#### NOTES:

**Authors** - This budget was prepared by T.Napier, G.Kelly and S.Watts and outlines production for inland NSW.

**Area** - 70 % of NSW production is in the Riverina with 20 % in the tablelands and the 10 % on the coast.

**Production** - Potatoes grown in the Riverina for processing are usually grown as a summer crop.  
 - Potatoes are sown from early August to the end of November.  
 - Plants for crisping are spaced 22 cm apart on rows 90 cm apart (potatoes for french fries are sown at a lower plant population to achieve large potatoes for slicing).  
 - Crisping potatoes are only grown under contract with a processing or export company. The final export price depends on the cooking quality, tuber size, dry matter, grade faults and delivery time of the crop.  
 - Water usage is 4 to 6 ML/ha and varies with soil, location and season.

#### Pests, Diseases

**& Disorders** - Aphids and potato moths are the main insect pests with target spot the most common disease.

**Harvesting** - Harvest runs from early December through to end of March.  
 - Potatoes may have to be washed before being sent to the processors.

**Packaging** - No packaging is required as the crop is delivered in bulk trailers.

**Yields** - Paddock yields vary from 30 to 40 tonne per hectare.  
 - Production in the tablelands can expect 20% higher yields than in the Riverina.

**Economic** - **This budget is ONLY A GUIDE** and is specific to the regions specified. Costs and income can be altered for changes in crop management or input prices. Farmers should use their own figures.  
 - The budget uses a format similar to the Method 2 calculator in the VegTool Gross Margin program.  
 - Average prices for 2012 were used for this budget. Overhead costs or GST are not included.

Trim Reference: INT13/37823