



Area Unit = 1ha

PUMPKIN - Jarrahdale

2013

INCOME:		Item	Quantity	Rate	Price	standard budget	your budget
Anticipated Yield	1st Grade		30 tonne/ha	@	\$ 400.00 /tonne	\$ 12,000.00	
	2nd Grade		tonne/ha	@	/tonne	\$ -	
	Total		30 tonne/ha	Average	\$ 400.00 /tonne		
A. Gross Income/ha						\$ 12,000.00	
OPERATING COSTS:					\$ Cost		
Seed and Plants	Seed		1.2 kg/ha		\$ 100.00 /kg	\$ 120.00	
Fertiliser	Single Super		100 kg/ha		\$ 0.48 /kg	\$ 48.20	
	Starter (base fertiliser)		200 kg/ha		\$ 1.06 /kg	\$ 211.20	
	Urea (side dressing)		100 kg/ha		\$ 0.86 /kg	\$ 85.70	
	Micro Nutrients		5 L/ha		\$ 6.50 /L	\$ 32.50	
Fuel	Ground Preparation	15 L/hr	1.5 hr/ha		\$ 1.15 /L	\$ 25.88	
	Bed Preparation	15 L/hr	0.6 hr/ha		\$ 1.15 /L	\$ 10.35	
	Sowing/Planting	15 L/hr	0.5 hr/ha		\$ 1.15 /L	\$ 8.63	
	Inter Row Cultivation	15 L/hr	0.5 hr/ha		\$ 1.15 /L	\$ 8.63	
	Chemical Applications	12 L/hr	1.0 hr/ha		\$ 1.15 /L	\$ 13.80	
	Fertiliser Applications	12 L/hr	0.4 hr/ha		\$ 1.15 /L	\$ 5.52	
	Bin Trailers (at harvest)	4 L/hr	8.0 hr/ha		\$ 1.15 /L	\$ 36.80	
Chemicals	Pre-emergent Herbicide	1 application	0.5 L/ha		\$ 154.20 /L	\$ 77.10	
	Post-emergent Herbicide	1 application	0.3 L/ha		\$ 25.10 /L	\$ 7.53	
	Insecticide	1 application	0.75 L/ha		\$ 11.00 /L	\$ 8.25	
	Insecticide	2 applications	2.0 L/ha		\$ 10.00 /L	\$ 40.00	
	Fungicide	2 applications	0.4 L/ha		\$ 123.00 /L	\$ 98.40	
Water	Furrow Irrigation		5 ML/ha		\$ 60.00 /ML	\$ 300.00	
Labour	Tractor Driving	1 person	12.5 hr/ha		\$ 25.00 /hr	\$ 312.50	
	Irrigation	1 person	3.2 hr/ha		\$ 25.00 /hr	\$ 80.00	
	Harvest	6 people	10 hr/ha		\$ 18.00 /hr	\$ 1,080.00	
	Packing (on farm)	6 people	5 hours		\$ 18.00 /hr	\$ 540.00	
	Shed/Forklift	1 person	0.4 hr/ha		\$ 25.00 /hr	\$ 10.00	
Electricity/Gas	Packing Shed/Cool Room		60 hr/ha		\$ 1.05 /hr	\$ 63.00	
Packaging	Package Materials		94 octabins/ha		\$ 14.50 /octabin	\$ 1,359.38	
Freight/Transport	Truck	octabins/ 3 pallet space	\$ 115.00	cost per pallet space	\$38.33 /octabin	\$ 3,593.44	
Other Costs	Levies		0.50%			\$ 60.00	
	Agents Commission		15%			\$ 1,800.00	
	Bin Hire	30 days	45 bins/ha	\$ 0.40 /bin		\$ 540.00	
	Bee Hives		3 hives/ha	\$70.00 /hive		\$ 210.00	
B. Total Operating Costs						\$ 10,786.79	
Gross Margin per ha (A-B)						\$ 1,213.21	
Gross Margin /ML						\$ 242.64	

Break-even Price	\$354 / tonne	for	30	tonne/ ha
Break-even Yield	23.3 tonne/ha @	\$400	/ 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.



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SENSITIVITY ANALYSIS

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

YIELD (tonne)	DELIVERED PRICE (\$/tonne)					
	300	350	400	450	500	550
20	-\$2,206	-\$1,361	-\$516	\$329	\$1,174	\$2,019
25	-\$1,764	-\$708	\$349	\$1,405	\$2,461	\$3,517
30	-\$1,322	-\$54	\$1,213	\$2,481	\$3,748	\$5,016
35	-\$880	\$599	\$2,078	\$3,556	\$5,035	\$6,514
40	-\$438	\$1,252	\$2,942	\$4,632	\$6,322	\$8,012

NOTES:

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

Area - Pumpkins are grown all over NSW with larger areas grown in the Riverina, Sunraysia, Cowra, Hillston and Bourke. Freedom from frosts is essential.

Production - 'Sampson' is the most popular hybrid variety grown with 'Jarrahdale' the most popular OP variety grown.

- Planting occurs from September to late December.
- Plants are spaced 0.8 m apart on 1.8 m beds.
- Plant population of about 7,000 per ha.
- New ground or crop rotations minimise root diseases. Lighter soils offer better drainage and root health.
- Water usage of 4 to 6 ML/ha varies with soil, location and season.
- Pre-planting fertiliser applications provide half of total nutrient requirements and most P requirements.

Pollination - Pollination rates 2 to 4 hives/ha.

Pests, Diseases - Thrips, cutworm and pumpkin beetle are insect pests.

& Disorders - Powdery mildew, anthracnose, gummy stem blight cause disease problems.

Harvesting - Majority of harvest occurs between January and April. Later harvest occurs if prices are low.

- Pumpkins are ripe once the stalk becomes cracked and corky.
- Rind colour of grey pumpkins changes from dark glossy green to a dull grey.

Packaging - All pumpkin types are sold in bulk containers such as plastic bins, collapsible cardboard containers or wire crates based on standard pallets.

Yields - Yields range from 25 to 40 tonne per hectare.

Economic - This gross margin is based on grey pumpkins being sold in cardboard octabins.

- **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: INT13/37825